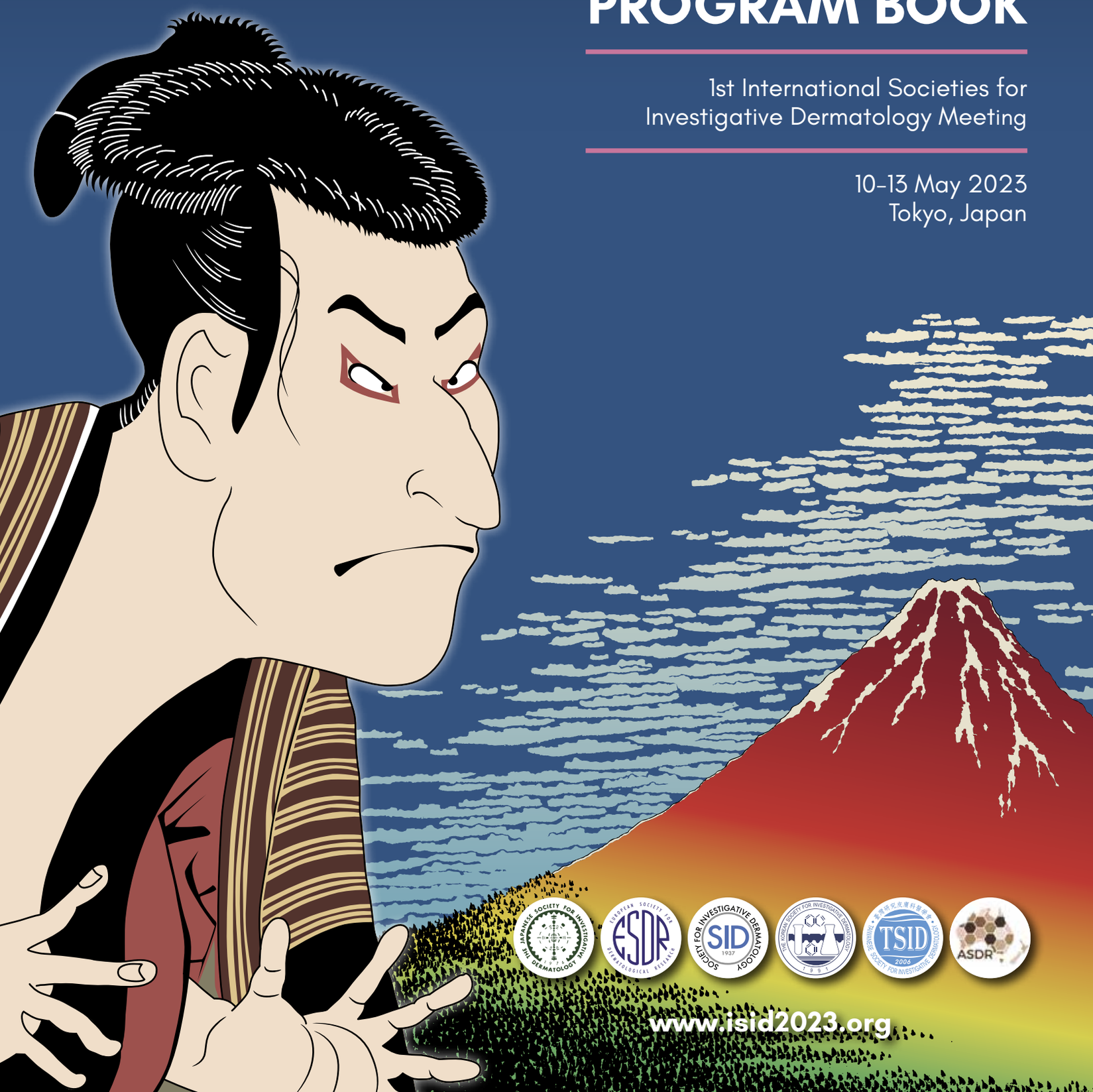
ISID 2023
TOKYO

PROGRAM BOOK

1st International Societies for
Investigative Dermatology Meeting

10–13 May 2023
Tokyo, Japan



www.isid2023.org

Thank you ISID 2023 sponsors.

PLATINUM

abbvie

Bristol Myers Squibb

Janssen
Pharmaceutical Companies of Johnson & Johnson

LEO FOUNDATION

Lilly

maruho
Maruho Co.,Ltd.

NOVARTIS

sanofi

ucb Inspired by patients. Driven by science.

GOLD

Boehringer Ingelheim

CHANEL
FRAGRANCE & BEAUTY

ESTĒE LAUDER COMPANIES

GALDERMA
EST. 1981

LEO

Mitsubishi Tanabe Pharma

No7 BEAUTYCOMPANY

Pfizer

P&G

SHISEIDO

Sulwhasoo

SUN PHARMA

TAIHO PHARMA

TORII PHARMACEUTICAL CO., LTD.

SILVER

Abeona THERAPEUTICS

AMGEN

AMRYT

ARISTEA THERAPEUTICS

Eisai

JB Japan Blood Products Organization

科研製薬株式会社
KAKEN PHARMACEUTICAL CO., LTD.

Incyte

Nobelpharma
ノーベルファーマ株式会社

Otsuka
Otsuka Pharmaceutical Co., Ltd.

sato
HEALTHCARE INNOVATION

TAISHO PHARMACEUTICAL

NOV

Greetings from President of ISID

Russell Hall, MD

On behalf of the International Societies for Investigative Dermatology (ISID) and all of our member societies I want to welcome you to the first international meeting of the ISID. In 2018, the ESDR, JSID and SID held the 7th and last International Investigative Dermatology (IID) meeting in Orlando, Florida. The first IID meetings was in Washington, DC in 1989 in response to the growing global reach of investigative dermatology and cutaneous biology. Subsequently every 5 years the ESDR, JSID and SID have hosted scientific meeting, with rotating locations between the United States, Europe and Japan.

Over the ensuing 35 years it became increasingly clear that international investigative dermatology had grown to involve more than just the ESDR, JSID and SID. It was felt that a structure was needed to support investigative dermatology around the world and to conduct, encourage and facilitate collaboration between all scientists focused on investigative dermatology and cutaneous biology. A critical part of that mission was a commitment to hold an abstract driven, peer reviewed scientific meeting every 5 years hosted on a rotating basis by investigative dermatology societies from Asia and Australasia, from Europe, Middle East and Africa and from North, Central and South America. In 2015 the ISID was established by the charter societies of the ESDR, JSID and SID. Over the last 8 years ISID has grown to include member societies from Korea, Chinese Taipei and our associate member, the Australasian Society of Dermatology Research.

This year the JSID and our societies from the Asia region are hosting our first International Societies for Investigative Dermatology meeting in Tokyo. We are all especially eager to gather together as a worldwide community of scientist after the years of isolation that COVID has required. This meeting will bring together investigators, residents and fellows from around the world, all focused on advancing the science of dermatology and cutaneous biology. The program includes presentation of the latest in cutting edge research focused on cutaneous biology and dermatology from our colleagues around the world. Special lectures from experts within and outside of our communities will occur every day. In addition, numerous high quality symposia reviewing the latest advances in cutaneous biology and skin diseases will occur throughout the meeting. Perhaps most importantly we will once again have the opportunity to meet in person, discuss our science, learn together and enjoy the personal collegiality that is the hallmark of our international community. Our venue in Tokyo is exceptional and numerous social events have been planned to celebrate the collaboration and collegiality of scientists around the world that has marked past IID meetings.

The ISID and all of our members from around the world welcome you to ISID 2023. It is our hope and expectation that by gathering together, enjoying the high quality of science, reconnecting with colleagues and meeting new friends and collaborators you will be energized and refreshed.

Welcome to ISID 2023.

Greetings from President of ISID 2023

Kenji Kabashima, MD/PhD

The International Societies for Investigative Dermatology (ISID) was established in 2013 with the aim of internationally integrating organizations dedicated to the study of skin biology in the world. The predecessor to the current SID/JSID joint congress was held in Washington DC, USA in 1985, and it later evolved into the International Investigative Dermatology (IID). IID has been held every 5 years: recently Miami (USA) in 2003, Kyoto (Japan) in 2008, Edinburgh (UK) in 2013 and Orlando (USA) in 2018, and IID has made major contributions to the development of skin biology.

Until now, only JSID from Asia has joined and developed IID. However, this time, it took a new step as ISID to become a true international society by joining similar societies all over the world including KSID, TSID and ASDR.

The skin is the largest organ in the human body and plays a central role in homeostasis and biological defense as a unique site where the external world and the organism come into contact. In fact, the Nobel Prize in Physiology or Medicine for 2021 was awarded to the study of sensory sensors in the skin. At this conference, cutting-edge and advanced skin research will be presented and exchanged by researchers around the world. The results from cross-sectoral fields such as molecular biology, developmental and regenerative medicine, immunology and allergy, biochemistry, and artificial intelligence will be reported on the skin, and it is expected that the results will contribute to clinical medicine such as the conquest of diseases and improve the welfare of the nation.

The program will feature keynote lectures by world-leading researchers, including Professor Shinya Yamanaka of the Institute for iPS Research at Kyoto University, a series of plenary and thematic concurrent symposia, and a number of submissions by the researchers from all over the world through the four-day meeting In addition, by organizing the Future Leaders Symposium, we will support to promote the participation and presentation of young researchers.

ISID 2023 will be the first international conference since the establishment of ISID. We will strive for success not only academically but also from the perspective of human resource development for our future. We deeply hope that skin researchers will come to Tokyo from all over the world and enjoy skin biology and science.

Tokyo Tokyo Old meets New

Dear ISID 2023 delegates,

On behalf of the 14 million citizens of Tokyo, I would like to express our warm welcome to the First International Societies for Investigative Dermatology Meeting in Tokyo.

With a history of over 400 years, Tokyo is a city of distinct character and tradition - not just a political and economic center but also a wellspring of culture.

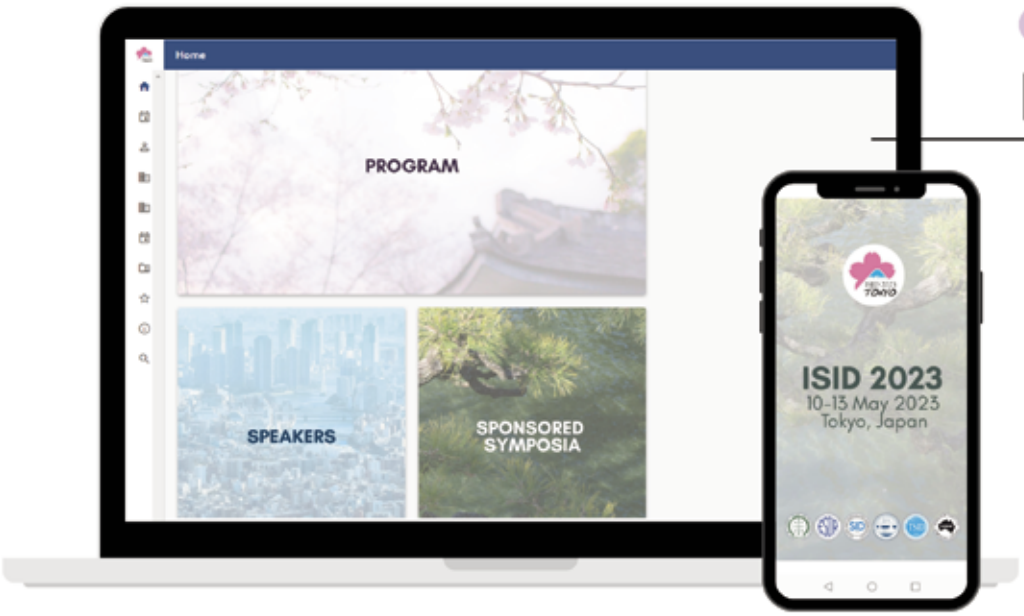
Tokyo is a city that meets the needs of any guest visiting to attend a meeting. It boasts a state-of-the-art telecommunications network and a sophisticated public transport system, which runs on precise timetables from early morning to late at night. When faced with the unprecedented challenges of a global pandemic, Tokyo quickly adapted to hybrid meetings, utilizing the latest technology. While numerous hybrid conferences have been held in Tokyo, the city is already welcoming back many in-person participants from overseas, ensuring safety with stringent hygiene measures.

Tokyo is a fascinating destination with an eclectic mix of tradition and innovation. The traditional culture from the Edo period in the 17th to 19th centuries and cutting-edge technology stand side by side. From the most popular tourist spots like the iconic Shibuya crossing to the Tama area's rich nature and the islands of Tokyo, a wide variety of options awaits the visitors. We are confident that the conference attendees will enjoy the many attractions Tokyo has to offer, including the arts, shopping, and exquisite Japanese and global cuisine.

Please accept my best wishes for a successful meeting and an enjoyable stay in Tokyo filled with lasting memories.

Yuriko Koike
Governor of Tokyo

Mobile and Web app
ISID 2023



App

Features

- Access the program
- Create your own agenda
- Connect with peers
- Access the ePosters gallery
- Rate the sessions
- Stay informed
- Create your Profile
- Access the onsite maps
- ...and more!

How to access the app

Download on the App Store

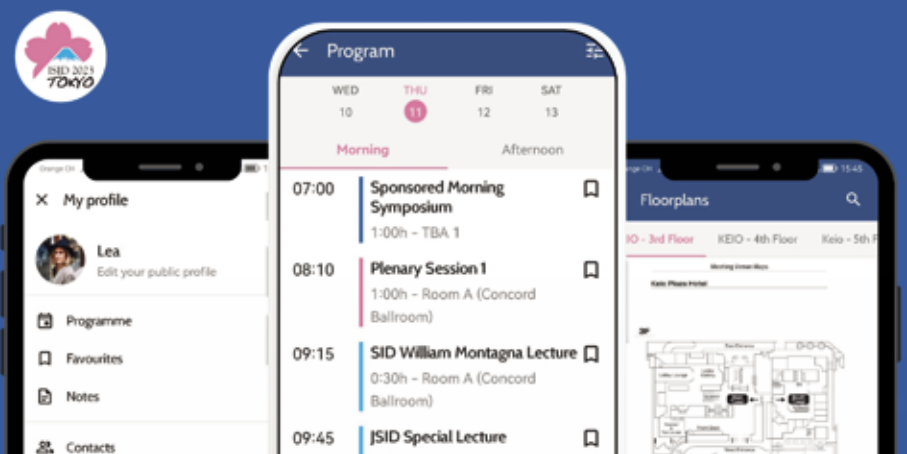
Search for "ISID 2023"
or click here: https://bit.ly/ISID2023AppStore

GET IT ON Google Play

Search for "ISID 2023"
or click here: https://bit.ly/ISID2023GooglePlay

Click here to access the Web app portal :
https://bit.ly/ISID2023Web

To access the applications, you need to be a registered delegate.
To authorize yourself, please log in using the email address linked to your registration and create an account.



The ISID 2023 mobile and web applications are kindly supported by Abeona Therapeutics

Abeona THERAPEUTICS

Meeting At-A-Glance

WEDNESDAY, MAY 10, 2023

07:30 – 19:00
On-Site Registration
Room: Hana

12:00 – 14:30
Future Leaders Symposium
Room A: Concord Ballroom

14:30 – 15:00
LEO Foundation Awards
Room A: Concord Ballroom

15:10 – 15:40
Opening Ceremony
Room A: Concord Ballroom

15:40 – 16:40
Rising Star Lectures
Room A: Concord Ballroom

16:50 – 18:20
AbbVie Sympsium
Room A: Concord Ballroom

16:50 – 18:20
Maruho Symposium
Room B: Eminence Hall

18:20 – 20:20
Welcome Reception
Room B: Eminence Hall, Room C: Nishiki, Room D: Ohgi, and Lobby

THURSDAY, MAY 11, 2023

06:30 – 19:30
On-Site Registration
Room: Hana

07:00 – 08:00
Japan Blood Products Organization Symposium
Room A: Concord Ballroom

07:00 – 08:00
Otsuka Pharmaceutical Symposium
Room B: Eminence Hall

07:00 – 08:00
Kaken Pharmaceutical Symposium
Room C: Nishiki

07:00 – 08:00
Taisho Pharmaceutical Symposium
Room D: Ohgi

07:00 – 08:00
AMRYT Symposium
Room F: Harmony

08:10 – 09:10
Plenary Session 1
Room A: Concord Ballroom

09:15 – 09:45
SID William Montagna Lecture: Neuroimmune Mechanisms Underlying Atopic Dermatitis Itch and Inflammation
Room A: Concord Ballroom

09:45 – 10:15
JSID Special Guest Lecture: Recent Progress in iPS Cell Research and Application
Room A: Concord Ballroom

10:20 – 11:20
Plenary Session 2
Room A: Concord Ballroom

11:20 – 11:50
Stephen I. Katz MD/PhD Memorial Lectureship Award: Immune-tissue Crosstalk during Homeostasis and Disease
Room A: Concord Ballroom

12:05 – 13:05
UCB Symposium
Room A: Concord Ballroom

12:05 – 13:05
Taiho Pharmaceutical/Janssen Pharmaceutical K. K. Symposium
Room B: Eminence Hall

12:05 – 13:05
Bristol Myers Squibb Symposium
Room C: Nishiki

12:05 – 13:05
Pfizer Symposium
Room D: Ohgi

12:05 – 13:05
Amorepacific Symposium
Room E: Moonlight

12:05 – 13:05
CHANEL Fragrance & Beauty Symposium
Room F: Harmony

12:05 – 13:05
Galderma Symposium
Room G: Takao

13:15 – 15:45
Concurrent Mini-Symposium 1: Adaptive and Auto-Immunity I
Room A: Concord Ballroom

13:15 – 15:45
Concurrent Mini-Symposium 2: Artificial Intelligence (AI) and Image Analysis/ Translational Studies
Room B: Eminence Hall

13:15 – 15:45
Concurrent Mini-Symposium 3: Carcinogenesis and Cancer Genetics
Room C: Nishiki

13:15 – 15:45
Concurrent Mini-Symposium 4: Clinical Research – Epidemiology and Observational Research I
Room D: Ohgi

13:15 – 15:45
Concurrent Mini-Symposium 5: Genetic Disease, Gene Regulation, and Gene Therapy
Room E: Moonlight

13:15 – 15:45
Concurrent Mini-Symposium 6: Tissue Regeneration and Wound Healing
Room F: Harmony

15:55 – 16:25
ESDR Rudi Cormane Lecture: Deciphering Pathways in the Syndromic Keratodermas: Insights into Oesophageal Cancer
Room A: Concord Ballroom

16:30 – 18:00
Sanofi Symposium
Room B: Eminence Hall

18:10 – 19:40
Poster Session 1– ODD FINAL ID/Poster #'s (including ODD Late-Breaking #'s)
NS Building

18:10 – 19:40
ePoster Discussions, Session 1: Adaptive Immunity 1 & 2
NS Building, ePoster Stage #1

18:10 – 19:40
ePoster Discussions, Session 1: Clinical Research – Epidemiology and Observational Research 1 & 2
NS Building, ePoster Stage #2

18:10 – 19:40
ePoster Discussions, Session 1: Tissue Regeneration and Wound Healing/Skin Appendages, & Stem Cell Biology
NS Building, ePoster Stage #3

18:10 – 19:40
ePoster Discussions, Session 1: Carcinogenesis and Cancer Genetics/ Photobiology/Skin of Color
NS Building, ePoster Stage #4

18:10 – 19:40
ePoster Discussions, Session 1: Genetic Disease, Gene Regulation, and Gene Therapy
NS Building, ePoster Stage #5

19:50 – 21:50
Social Gathering
Room A: Concord Ballroom & Room B: Eminence Hall

FRIDAY, MAY 12, 2023

06:30 – 19:30
On-Site Registration
Room: Hana

07:00 – 08:00
ISID Member Organizations General Assemblies/Business Meetings
JSID – Room B: Eminence Hall
SID – Room C: Nishiki
ESDR – Room D: Ohgi
TSID – Room E: Moonlight

07:45 – 08:00
American Skin Awards (ASA) 2023 Research Achievement Awards Presentation
Room C: Nishiki

08:10 – 09:10
Plenary Session 3
Room A: Concord Ballroom

09:15 – 09:45
SID Special Guest Lecture: RNA origin of sex-biased immunity
Room A: Concord Ballroom

Meeting At-A-Glance

09:45 – 10:15
KSID Special Guest Lecture: Adiponectin and Skin Diseases
Room A: Concord Ballroom

10:20 – 11:20
Plenary Session 4
Room A: Concord Ballroom

11:20 – 11:50
TSID Special Guest Lecture: Precision Medicine of Common Diseases
Room A: Concord Ballroom

12:05 – 13:05
Janssen Asia Pacific Symposium
Room A: Concord Ballroom

12:05 – 13:05
Nippon Boehringer Ingelheim Symposium
Room B: Eminence Hall

12:05 – 13:05
No 7 Beauty Company Symposium
Room C: Nishiki

12:05 – 13:05
Shiseido Symposium
Room D: Ohgi

12:05 – 13:05
LEO Pharma Symposium
Room E: Moonlight

12:05 – 13:05
Torii Pharmaceutical Company, LTD. Symposium
Room F: Harmony

13:15 – 13:45
ESDR Special Guest Lecture: Skin T cells in Lockdown – Regulation of Human T Cell Tissue Residency
Room A: Concord Ballroom

13:50 – 15:20
Eli Lilly Symposium
Room A: Concord Ballroom

15:30 – 18:00
Concurrent Mini-Symposium 7: Adaptive and Auto-Immunity II
Room B: Eminence Hall

15:30 – 18:00
Concurrent Mini-Symposium 8: Epidemiology and Observational Research II
Room C: Nishiki

15:30 – 18:00
Concurrent Mini-Symposium 9: Innate Immunity, Microbiology, Microbiome I
Room D: Ohgi

15:30 – 18:00
Concurrent Mini-Symposium 10: Pharmacology and Drug Development
Room E: Moonlight

15:30 – 18:00
Concurrent Mini-Symposium 11: Photobiology/Skin of Color
Room F: Harmony

15:30 – 18:00
Concurrent Mini-Symposium 12: Skin, Appendages and Stem Cell Biology
Room G: Takao

18:10 – 19:40
Poster Session 2 – EVEN FINAL ID/Poster #'s (including EVEN Late-Breaking #'s)
NS Building

18:10 – 19:40
ePoster Discussions, Session 2: Artificial Intelligence (AI) and Image Analysis/ Translational Studies/Pigmentation & Melanoma
NS Building, ePoster Stage #1

18:10 – 19:40
ePoster Discussions, Session 2: Innate Immunity, Microbiology, and Microbiome I & II
NS Building, ePoster Stage #2

18:10 – 19:40
ePoster Discussions, Session 2: Cell-Cell Interactions in the Skin/Epidermal Structure and Barrier Function
NS Building, ePoster Stage #3

18:10 – 19:40
ePoster Discussions, Session 2: Pharmacology and Drug Development/ Clinical Research – Interventional Research/ Clinical Research-Socio-behavioral and Health Services Research
NS Building, ePoster Stage #4

18:10 – 19:40
ePoster Discussions, Session 2: Late-Breaking Abstract Submissions
NS Building, ePoster Stage #5

19:50 – 21:50
Young Investigator Collegiality Event
CÉ LA VI TOKYO – 18th Floor of Tokyu Plaza Shibuya
Ticketed Event: Pre-registration required. Space is limited. Please check with registration desk for availablility.

SATURDAY, MAY 13, 2023

06:30 – 19:30
On-Site Registration
Room: Hana

07:00 – 08:00
NOV Division, TOKIWA Pharmaceutical Co., Ltd. Symposium
Room A: Concord Ballroom

07:00 – 08:00
Amgen Symposium
Room B: Eminence Hall

07:00 – 08:00
Sato Pharmaceutical/Eisai Co. Symposium
Room C: Nishiki

07:00 – 08:00
Nobelpharma Symposium
Room D: Ohgi

07:00 – 08:00
Incyte Symposium
Room E: Moonlight

08:10 – 09:10
Plenary Session 5
Room A: Concord Ballroom

09:15 – 09:45
SID Special Guest Lecture: The Evolution of Human Skin Pigmentation as a Long and Complex Biocultural Phenomenon
Room A: Concord Ballroom

09:45 – 10:15
ESDR Special Guest Lecture: Skin Myeloid Cell Heterogeneity
Room A: Concord Ballroom

10:20 – 11:50
Novartis Pharma K.K. Symposium
Room A: Concord Ballroom

12:05 – 13:05
UCB Symposium
Room A: Concord Ballroom

12:05 – 13:05
Janssen Pharmaceutical/Taiho Pharmaceutical Symposium
Room B: Eminence Hall

12:05 – 13:05
Mitsubishi Tanabe Pharma/Teikoku Saiyaku Symposium
Room C: Nishiki

12:05 – 13:05
The Estée Lauder Companies Inc. Symposium
Room D: Ohgi

12:05 – 13:05
SUN Pharma Symposium
Room E: Moonlight

12:05 – 13:05
Procter & Gamble Symposium
Room F: Harmony

13:15 – 15:45
Concurrent Mini-Symposium 13: Cell-Cell Interactions in the Skin
Room A: Concord Ballroom

13:15 – 15:45
Concurrent Mini-Symposium 14: Clinical Research – Socio-behavioral and Health Services Research/Clinical Research-Interventional Research
Room B: Eminence Hall

13:15 – 15:45
Concurrent Mini-Symposium 15: Epidermal Structure and Barrier Function
Room C: Nishiki

13:15 – 15:45
Concurrent Mini-Symposium 16: Innate Immunity, Microbiology, Microbiome II
Room D: Ohgi

13:15 – 15:45
Concurrent Mini-Symposium 17: Pigmentation and Melanoma
Room E: Moonlight

13:15 – 15:45
Concurrent Mini-Symposium 18: Late-Breaking Abstracts
Room F: Harmony

15:50 – 16:00
Closing Ceremony
Room A: Concord Ballroom

16:05 – 18:05
Asia Oceania Symposium
Room A: Concord Ballroom

Meeting Information & Policies

COVID-19 VACCINATION RELATED

In the Fall of 2022, the Japanese Government loosened restrictions on entering the country. COVID-19 Related Visas are no longer needed (with a few exceptions) for most attendees to enter into Japan, however it is best to check with your specific government entity to ensure that you have a checklist of documentation needed to attend the ISID 2023 Meeting in Tokyo.

As of March 13, 2023, the Country of Japan, the City of Tokyo, and the Keio Plaza Hotel will NOT have a mask policy in place. As such, it is up to the meeting attendee whether they choose to wear a protective mask or not. Masks will be made available to all meeting attendees. Although the guidelines are designed to allow individuals to judge for themselves when to wear a mask in their daily lives, people will be recommended to wear them in certain situations, such as if they are displaying symptoms of the disease or whenever they visit a medical institution. For further information, visit Japan's Ministry of Foreign Affairs COVID webpage at https://www.mofa.go.jp/p_pd/pds/page22e_000910.html

REPRODUCTION AND PHOTOGRAPHY POLICY

Any photography, filming, taping, recording, or reproduction in any medium of any of the Programs, exhibits, or lectures (oral or posters) presented at the ISID 2023 Meeting without written permission is strictly prohibited. Failure to comply with this rule may lead to removal of your meeting credentials.

Official ISID Photographers will capture moving and still images throughout the event. This may include all public spaces, meeting rooms and individuals/groups.

ON-SITE REGISTRATION

On-site registration will take place at Room Hana C & D (on the 4th floor of the main tower of the Keio Plaza Hotel) during the following hours:

- **Wednesday, May 10, 2023, 07:30 – 19:00**
- **Thursday, May 11, 2023, 06:30 – 19:30**
- **Friday, May 12, 2023, 06:30 – 19:30**
- **Saturday, May 13, 2023, 06:30 – 12:00**

BADGES

Badges for both pre- and on-site registration can be picked up at the Registration area in Room Hana C & D (4th floor in the main tower of the Keio Plaza Hotel). Meeting attendees are required to wear their badges for entry into all sessions and meeting activities.

SPECIAL SERVICES FOR THE PHYSICALLY CHALLENGED

The Keio Plaza Hotel is fully accessible to the physically challenged. Should you have any special needs, please stop at the registration area and notify available staff.

CHILD CARE RELATED

The ISID 2023 Meeting is only for registered attendees and who are over the age of 18 years old. Children 17 years old and younger will be prohibited in ISID Meeting spaces due to liability issues.

Wi-Fi

Wireless internet will be made available to all meeting attendees in all the ISID Meeting spaces. Information on how to log onto the wireless service will be provided with name badges.

MESSAGE BOARD

There will be a message board for advertisements as well as reaching out to colleagues. The message board will be located adjacent to the registration area.

NURSING MOTHERS

As a part of a family-friendly meeting experience, the ISID supports breastfeeding mothers by accommodating the mother who wishes to express breast milk during her meeting participation when separated from her newborn child. Nursing mothers wishing to use this space should contact the ISID Staff at the Registration area, who will provide access to available areas.

CODE OF CONDUCT

International Societies for Investigative Dermatology (ISID) welcomes the use of social media during the 2023 Meeting including live tweeting. The SID and Journal of Investigative Dermatology (JID) will employ the use of social media ambassadors throughout the meeting to share highlights of the content that will be presented. Communication in this day and age happens swiftly and has the potential to bring about unforeseen occurrences. To minimize situations that could be perilous, please note the following 2023 Meeting social media guidelines:

Do:

- Follow the ISID on Twitter (@ISID2023Tokyo) and use the #ISID2023Tokyo hashtag to join the conversation about the ISID 2023 Meeting.
- Like the ISID on Facebook at https://www.facebook.com/ISID2023Tokyo/
- Like the ISID on Instagram at Isid2023tokyo.
- Blog or tweet about what you hear and learn at the meeting but refrain from sharing any content the speaker/presenter explicitly asks not to share. Presenters will be asked to place the words DO NOT POST on their presentations, slides, and pictures that they do not wish to share. Do not share or post specific details or slides (unless otherwise indicated).
- Converse and network with other attendees before, during, and after the meeting.
- Provide feedback to ISID leadership, staff, and the ISID Scientific Program Committee – we encourage attendees to post about and discuss topics of interest and ideas for future scientific meetings.
- Communicate with respect and consideration for others and keep criticism constructive.

Don't:

- Capture, transmit, or redistribute data presented at the meeting – this may preclude its later publication in a scientific journal. Please adhere to journal embargo policies and do not jeopardize your colleagues' work!
- Post copyrighted or trademarked material or material protected by other intellectual property rights.
- Use ISID's social media platforms to comment on medical, legal, or litigious matters.
- Post derogatory, demeaning, inflammatory, offensive, disrespectful, hateful, sales-oriented, or otherwise inappropriate comments.

People who participate in social media activity associated with the ISID Meeting are also expected to:

- Maintain a courteous and respectful demeanor in their comments and posts.
- Contribute value and expertise.
- Represent themselves and their organizations truthfully and professionally.
- Recognize that social media conversations include a variety of professionals, patients, policymakers, reporters, and the public.

The views and opinions posted on ISID's social media do not necessarily reflect the views, opinions, or policies of the ISID, its Board, or staff. The ISID reserves the right to remove comments it deems, in its sole discretion, to be inappropriate.

Photo Credits:
Nick Kwan: 2624818.jpg
Alex Knight: 2599247.jpg

All printed program content is current as of April 20, 2023.

Abstract Presentation Information

ORAL TYPE PRESENTATIONS

All Plenary and Concurrent Minisymposia oral presentations will take place at the Keio Plaza Hotel. ePoster Discussions presentations will take place at the NS Building (located via a short walk from the Keio Plaza Hotel).

Plenary and Concurrent Mini-Symposium

Plenary oral presentations are scheduled to allow for ten (10) minutes of presentation and two (2) minutes for discussion. To coordinate sessions, the time limit will be strictly adhered to, or you will be asked to terminate your presentation by the session moderator(s). Concurrent oral presentations are scheduled to allow for eight (8) minutes of presentation and two (2) minutes for discussion. To coordinate sessions, the time limit will be strictly adhered to, or you will be asked to terminate your presentation by the session moderator(s).

Selected ePoster Discussions Presentations

Each poster presenter will be asked to briefly describe their work (one slide only) for up to three (3) minutes, followed by a short group discussion of up to two (2) minutes in length. There will be moderators to assist with the timing. If your abstract has been selected for the ePoster Discussions, please join the assigned category group at the relevant ePoster terminal. Please reference the daily schedule for dates, times, category, locations, featured posters, and moderators. There will soon be information provided on how best to provide your image in advance of your talk.

All Oral Presentations are also to be presented as Electronic Posters. See schedule below. All presentations must be uploaded by Friday, May 5, 2023. Details regarding the Upload procedure have been provided to you via email and listed on the ISID website. On-site technical support will also be available.

CONFLICT OF INTEREST

All oral presentations must include a disclosure slide at the beginning of your presentation. If there is a real or perceived conflict of interest pertaining to your work, an announcement must be made prior to your oral presentation and displayed on your poster.

SPEAKER READY ROOM

The speaker ready room will be located in Room Kaede, located on the 4th floor of the main tower of Keio Plaza Hotel.

The room will be available to all presenters during the following hours:

- **Wednesday, May 10, 2023, 07:30 – 17:00**
- **Thursday, May 11, 2023, 06:30 – 17:00**
- **Friday, May 12, 2023, 06:30 – 18:00**
- **Saturday, May 13, 2023, 06:30 – 19:00**

All presentations are to be checked in at the Speaker Ready Room (Kaede) at least 30 minutes in advance of your presentation.

PHYSICAL POSTER PRESENTATIONS

- Physical posters will be displayed at the NS Building (a short walk from the meeting venue). Posters will be viewed in two (2) sessions as outlined below. Presenters should be at their posters for their entire discussion session and should not be removed early. The organizers of the ISID 2023 Meeting are not responsible for posters left unclaimed as of 20:00 on Friday, May 12, 2023. Unclaimed posters will not be returned.

- Physical poster size is to be 90 cm wide by 160 cm tall (36 inches x 63 inches).

- Please consider adding a QR code to your poster. The QR code can be used to provide immediate direction to a lab website or specific content such as figures or videos.

Poster Installation:

- ODD Poster #'s (for Session 1) can be installed on Wednesday, May 10, 2023, from 14:00 – 16:00 or on Thursday, May 11, 2023, from 10:00 – 12:00, at the NS Building.

- EVEN Poster #'s (For Session 2) can be installed on Friday, May 12, 2023, from 10:00 – 12:00, at the NS Building.

Poster Session 1

Thursday, May 11, 2023, 18:10 – 19:40

- ODD Final ID/Poster #'s
- Late-Breaking ODD Final ID/Poster #'s
- DISMANTLE ALL ODD POSTERS by Thursday, May 11 at 20:00

Poster Session 2

Friday, May 12, 2023, 18:10 – 19:40

- EVEN Final ID/Poster #'s
- Late-Breaking EVEN Final ID/Poster #'s

Saturday, May 13, 2023

- DISMANTLE ALL EVEN Posters by Saturday, May 13, 2023 at 12:00

ePOSTER DISCUSSIONS PRESENTATIONS SCHEDULE

ePoster Session 1

Thursday, May 11, 2023, 18:10 – 19:40

- **Adaptive and Auto-Immunity I & II:** ePoster Stage # 1/NS Building
- **Clinical Research – Epidemiology and Observational Research I & II:** ePoster Stage # 2/NS Building
- **Tissue Regeneration and Wound Healing/Skin, Appendages, and Stem Cell Biology:** ePoster Stage # 3/NS Building
- **Carcinogenesis and Cancer Genetics/ Photobiology/Skin of Color:** ePoster Stage # 4/NS Building
- **Genetic Disease, Gene Regulation, and Gene Therapy:** ePoster Stage # 5/NS Building

ePoster Session 2

Friday, May 12, 2023, 18:10 – 19:40

- **Artificial Intelligence (AI) Image Analysis and Translational Studies/ Pigmentation and Melanoma:** ePoster Stage # 1/NS Building
- **Innate Immunity, Microbiology, and Microbiome I & II:** ePoster Stage # 2/NS Building
- **Cell-Cell Interactions in the Skin/ Epidermal Structure and Barrier Function:** ePoster Stage # 3/NS Building
- **Pharmacology and Drug Development/ Clinical Research, Interventional Research, and Socio-Behavioral and Health Services Research:** ePoster Stage # 4/NS Building
- **Late-Breaking Abstracts:** ePoster Stage # 5/NS Building

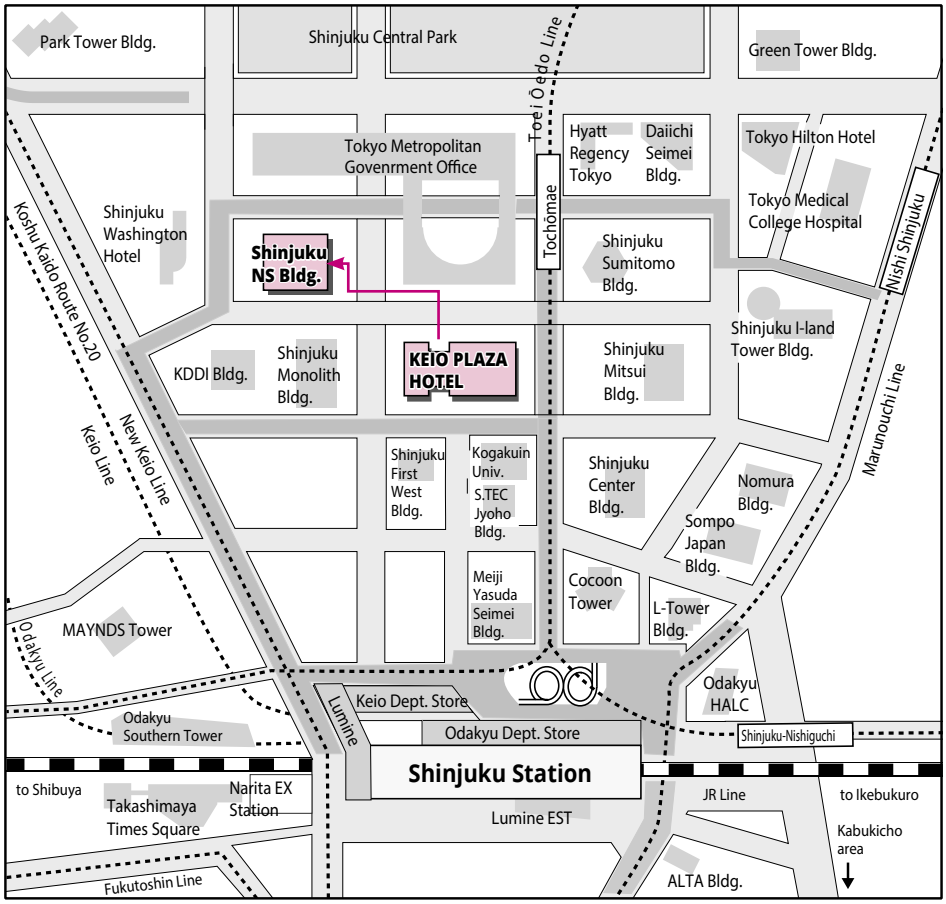
Electronic Posters:

- All abstracts submitted and accepted to the ISID 2023 are REQUIRED to submit and upload an image of your poster to all meetings attendees to access.
- Information on how and where to upload your poster image can be found at the following web address: https://isid2023.org/abstract/posters-preparation/
- Only those selected for Poster Presentation ONLY will be required to bring a physical copy of a poster to display during one of the two Poster Sessions noted on this page.

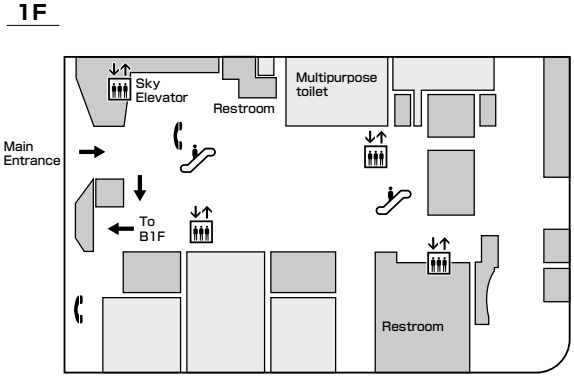
Area Map

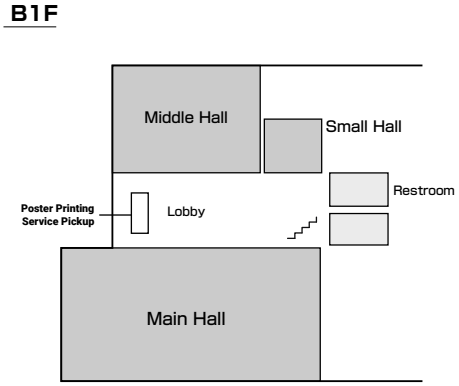
Direction from Keio Plaza Hotel to NS Building

- Exit from the entrance beside front desk of Keio Plaza (3F) . Cross the road in front of the entrance and turn left.
- Go down the stairs just cross bridge.
- Go left after the stairs and you will find Entrance of NS Building.



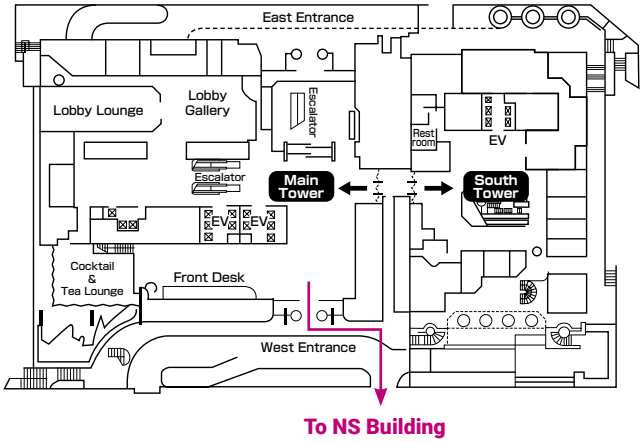
NS Building



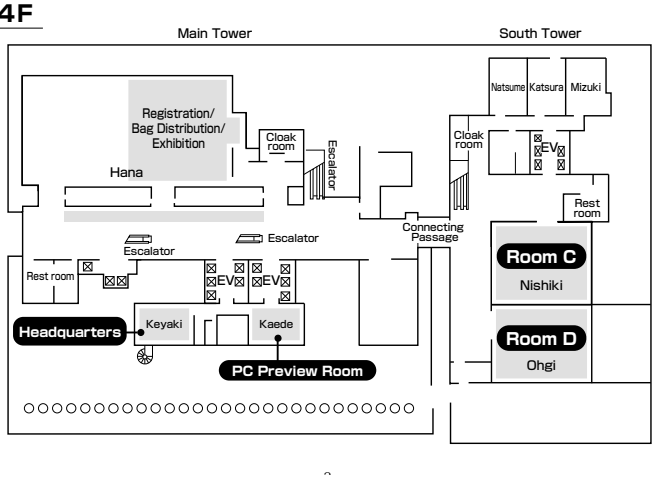


Keio Plaza Hotel

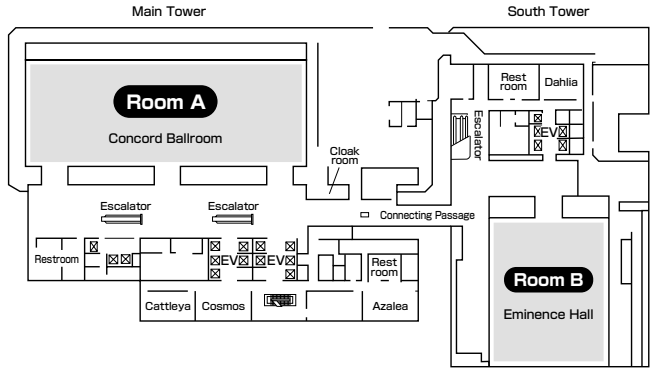
3F



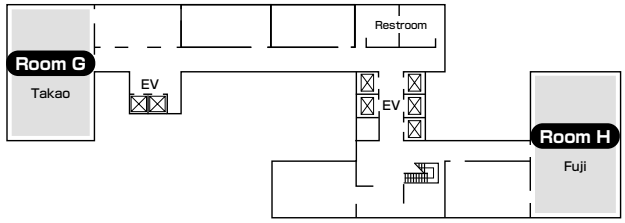
4F



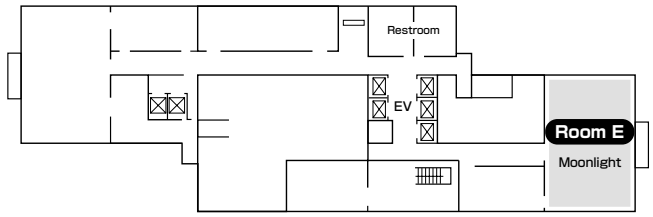
5F



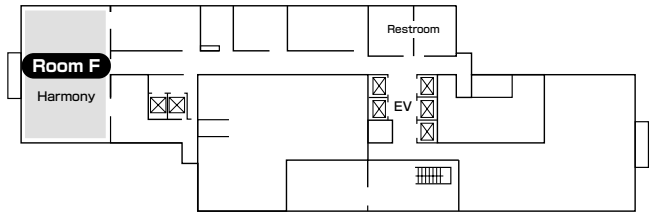
42F



43F



44F



Meeting Travel Grant Awardees

Asia/Oceania Region Travel Grant Awardees:

Australasian Society for Dermatology Research (ASDR) Recipients:

Holly Anderton
Brigid Betz-Stablein
Christopher Chew
Ghazaleh Hashemi
Abbas Shafiee
Seen Ling Sim
Samuel Tan
Joachim Torrano
Ho Yi Wong
Chenhao Zhou

Japanese Society for Investigative Dermatology (JSID) Recipients:

Wilson Jr Aala
Akriti Agrawal
Syahla Amalia
Holly Anderton
Anand Kumar Andiappan
Tuba Musarrat Ansary
Terese Monette Aquino
Ryota Asahina
Jai Hee Bae
Avinanda Banerjee
Krishanu Baruah
Brigid Betz-Stablein
Priya Bishnoi
Suphagan Boonpethkaew
Asolina Braun
Sofia Brito
Bao Bui
Jiangluyi Cai
Shu Hao Chang
Hua-Ching Chang
Yen-Tzu Chang
Sasin Charoensuksira
Yang-Yi Chen
Chun-Bing Chen
Xi-bei Chen
Jianru Chen
An-Yu Cheng
Hui-Ching Cheng
Christopher Chew
Yung-Tsu Cho
Seo-Young Choi
Hyun Seung Choi
Eun Ji Choi
Yongsu Choi
So-Jung Choi
Chih-Chang Chou
Carlos Clavel
John Common
Charlotte Cox
Lian Cui
Itaru Dekio
Aoi Ebata
Ummu Faisal
Kenneth Fong
Yangxue Fu
Ryo Fukaura
Yumei Gao
Gracia Goh
Saya Goto
Yimeng Guan
Chunyuan Guo
Yeye Guo
Weinan Guo
Sen Guo
Ghazaleh Hashemi
Akitaka Hata
Liting He
Congcong He
Teruyoshi Hisamoto
Yi-Kai Hong
Md Razib Hossain
Wen Hu
Kun Hu
Yingjian Huang
Hsin-Yu Huang
Trang Huynh
Usma Iftikhar
Tetsuya Ikawa
Shinya Imamura
Yuta Inoue
Mami Ishibashi
Yoshihiro Ishida
Tomoka Ito
Young Su Jang
Dilki Jayasinghe
Joslin Johal
Hisashi Kanemaru
Hyun Kang
Pan Kang
Kosuke Katsuo
Akinori Kawakami
Takuya Kawamura
Yoon-Seob Kim
Han Seul Kim
Yul Hee Kim
Su Min Kim
Haruna Kimura
Manao Kinoshita
Mei-Ju Ko
Toshiaki Kogame
Li Fang Koh
Yuta Koike
Risa Konishi
Ken Kosaka
Snehlata Kumari
Miki Kume
Kazuo Kurihara
Haruka Kuriyama
A Yeong Lee
Eun Jung Lee
Chih-Chun Lee
Ji Won Lee
Hanjae Lee
Sze Han Lee
Dongyun Lei
Chen Huei Leo
Jian Li
Zheng-Yi Li
Dongqing Li
Junqin Liang
Sanjay Lietzau
Sung Ha Lim
Youngkyoung Lim
En-Cheng Lin
Yu-Chen Lin
Cheng-Yu Lin
Chien Lin
Yihe Liu
Yiman Liu
Xiaochun Liu
Youxi Liu
Shihuan Valencia Long
Chun-Hao Lu
Lai-Ying Lu
Ying-Yi Lu
Chao Luan
Jingjing Ma
Sheng-Hsiang Ma
Misato Maeno
Shoko Mai
Yosuke Mai
Xiao-Yong Man
Ayaki Matsumoto
Fuuka Minami
Matilde Miranda
Toshiya Miyake
Kodai Miyamoto
Amelia Yuting Monteiro
Kei Nagatani
Satoshi Nakamizo
Maho Nakashima
Bolor Nasanbat
Le Thanh Hai Nguyen
Yuka Nishihara
Yuta Norimatsu
Mariko Ogawa-Momohara
Kentaro Ohko
Ken Okamura
Miyuki Omori-Miyake
Ruo Yan Ong
Felicia Ong
Poyang Pan
Nikolaos Pantelireis
Jui-Hui Peng
Ge Peng
Quoc Thao Trang Pham
Rachel Phua
Sushmita Pradhan
Kim Robinson
Aahan Sachdev
Jun-Ichi Sakabe
Takashi Sakai
Hozumi Sano
Minori Sasakura
Akiyoshi Senda
Seol Hwa Seong
Abbas Shafiee
Yi-Shuan Sheen
Yi-Hsien Shih
Joonho Shim
Yanhong Shou
Huidi Shucheng
Seen Ling Sim
Pu Song
Min Ji Song
Cassandra Styke
Chia-Jui Su
Gowtham Subramanian
Kaito Suemori
Takato Sugiyama
Anggit Sunarwidhi
Wen Yi Sung
Mao Suzuki
Reiko Takayanagi
Tomoya Takegami
Shingo Takei
Hiroaki Takishima
Samuel Tan
Minjia Tan
Yeh Fong Tan
Christina Yan Ru Tan
Tomoyo Taniguchi
Rong Tao
Duerna Tie
Tracy Tien
Shown Tokoro
Manami Toriyama
Joachim Torrano
Hideaki Uchida
Yoichiro Urata
Miki Wada
Mana Wakatake
Ping Wang
Peng Wang
Yu Wang
Ao Wang
Madeline Wang
Chuang-Wei Wang
Xiaojie Wang
Wei-Ning Wang
Ruojun Wang
Huina Wang
Yinghan Wang
Gaofeng Wang
Han-Tang Wang
Yuko Watanabe
Stephen Wearne
JingYu Wei
Ziyu Wei
Ho Yi Wong
Lai-San Wong
Colin Wong
Wei Wu
Naming Wu
Lei Xiao
Yao Xu
Rui Xu
Xiaotong Xue
Shota Yamaji
Yuriko Yamazaki
Jiang Yang
Luan Yang
Xinyu Yang
Yuqi Yang
Li-Ran Ye
Xiuli Yi
Kazunori Yokoi
Satoru Yonekura
Zengyan Yu
Hainan Yue
Kai Zhang
Yunyue Zhen
PeiMei Zhou
Chenhao Zhou
Yuan Zhou
Guannan Zhu
Ronghui Zhu
Catherine Zilberg

Korean Society for Investigative Dermatology (KSID) Recipients:

Eun Ji Choi
Hyun Seung Choi
Myoung Eun Choi
Kyung Bae Chung
Young Su Jang
Hyun Kang
Han Seul Kim
Hee Joo Kim
Hong Euy Kim
Su Min Kim
Tae-Gyun Kim
Yoon-Seob Kim
Yul Hee Kim
A Yeong Lee
Eun Jung Lee
Ji Won Lee
Yujin Lee
Youngkyoung Lim
Joonho Shim
Min Ji Song

Taiwan Society for Investigative Dermatology (TSID) Recipients:

Yeh Fong Tan
Feng-Jen Lin
Po-Wei Huang
Hua-Ching Chang
Sheng-Hsiang Ma
Chia-Bao Chu
Hui-Ching Cheng
Yi-Kai Hong
Zi-Han Jiang

Meeting Travel Grant Awardees

Europe-Middle East-Africa Region Travel Grant Awardees:

Abubkr Ahmed
Natalia Alkon
Karl Annusver
Bertram Aschenbrenner
Sari Assaf
Francesco Bellinato
Ketaki Bhate
Stephanie Bollard
Szabolcs Bozsányi
Dale Bryant
Anthony Buzzai
Laura Calabrese
Chris Callewaert
Elisa Carrasco
Yun-Tsan Chang
Inchul Cho
Julia Clabbers
Ioana Cosgarea
Giovanni Damiani
Saptaswa Dey
Florentia Dimitriou
Miroslav Dinic
Shirin Emtenani
Sonja Fassbender
Emilie Faway
Kinga Fedor-Lénárt
Clarisse Ganier
Marta Garcia Diez
Susan Gellert
Ameneh Ghaffarinia
Elena Giusto
William Hariton
Frederick Hartung
Nicola Hermann
Elena Hoffer
Dorottya Horváth
Anhua Hu
Amaani Hussain
Joanna Jackow
Shahnawaz Jadeja
Eleri Jones
Nadine Kamenjarin
Jennifer Keller
Lajos Kemény
Thomas Kirk
Bastian Kruse
Longlong Luo
Su Lwin
Kiril Malovitski
Caroline Mann
Giada Mantellato
Tiago Matos
Johannes Mayer
Katharina Meier
Joost Meijer
Francesco Messina
Deborah Minzaghi
Yasutaka Mitamura
Guillaume Mondon
Veronika Mraz
Ali Nasrallah
Attila Oláh
Elisabetta Palazzo
Kevin Pan
Piotr Parzymies
Michael Peake
Manuela Pigors
Alexandra Polakova
Satyamaanasa Polubothu
Talveen Purba
Marika Quadri
Ravi Ramessur
Anna Redl
Katharina Rindler
Katharina Rolfes
Ann-Helen Rosendahl
Jake Saklatvala
Lídia Sans-De San Nicolàs
Peter Seiringer
Hannah Serrage
Anya Shyne
Jos Smits
Julie Sølberg
Dimitri Stowbur
Johanna Strobl
Leticia Szadai
Jason Thomson
Matthieu Tihy
Bastien Tirtiaux
Thomas Trafoier
Mairi Treanor-Taylor
Nirohshah Trialonis-Suthakharan
Zsofia Unger
Kelsey van Straalen
Outi Varpuluoma
Sailan Wang
Xianqing Wang
Sebastian Willenborg
Helen Williams
Dana Wörz
Ahmad Yatim
Reihane Ziadlou
Magdalena Zychowska

America's Region Travel Grant Awardees:

Leo Foundation Recipients

Evguenia Alexandrova
Martin Alphonse
Michelle Bagood
Corbett Berry
Navaneetha Krishnan Bharathan
Elise Burger
Robert Carlson
Carmelo Carmona-Rivera
Kellen Cavagnero
Felix Chin
Raj Chovatiya
Jin-Sung Chung
Jarish Cohen
Heloise de Baun
Tran Do
Tatsuya Dokoshi
Junyan Duan
Hans I-Chen Harn
Jordan Harris
Yingping Hou
Austin Johnson
Sam Lee
Stephen Li
Minglin Liu
Yingzi Liu
Catherine Lu
Sophia Ly
Mitra Maz
Ananya Munjal
Yoshiyuki Nakamura
Teruaki Nakatsuji
Aakriti Neopaney
Allen Oak
Mark Osborn
Jay Patel
Matthew Patrick
Elisabeth Pedersen
Warren Perry
Karol Prieto-Sarmiento
Matthew Ramsey
Adarsh Ravishankar
Allison Remington
Heehwa Son
Qi Tang
Prasanna Vaddi
Enze Xing
Mingang Xu
Shivam Zaver
Yue Zhang
Dalee Zhou

Society for Investigative Dermatology (SID) Travel Award Recipients:

Khashayar Afshari
Tomoko Akaike
Feras Al Ghazawi
Nathan Archer
Katherine Awh
Lindsey Ayanruoh
Christina Bax
Zhuo Ran Cai
Aheli Chattopadhyay
Guodong Chen
Audris Chiang
Ester Del Duca
Jeremie Delaleu
Edward Eid
Amina El Ayadi
Rony Francois
Emily Gong
Lindsay Gunnell
Renee Haughton
Joy Hsu
Richie Jeremian
Daniel Joffe
Anusha Kambala
Erica Katz
Charles Kirby
Casey Lee
Daniel Liu
Kathryn Luly
Cassandra Mohr
Vera Obinwanne
Syed Minhaj Rahman
Charlotte Read
Ziyou Ren
Vikram Sahni
Aditi Sahu
Mrinal Sarkar
Yevgeniy Semenov
Megan Tran
Sonia Wang
Morgan Ye
Haihan Zhang

AAD/World Congress Recipients:

Anngela Adams
Negar Foolad
Daniel Kim
Min Jin Lee
Bethany Perez-White
Roberto Ricardo-Gonzalez
Katie Roster
Tadahiko Seo
Yuqing Wang
Kirsten Wong
Christine Yokoyama

Meeting Travel Grants Supporters

The ISID Organizing committee is grateful to the following organizations for their generous support of travel grants to attend ISID 2023.

LEO FOUNDATION

WEDNESDAY
MAY 10, 2023

ISID 2023 Welcome Reception

WEDNESDAY, MAY 10, 2023 **18:20 – 20:20** **ROOM B: EMINENCE HALL, ROOM C: NISHIKI, ROOM D: OHGI, AND LOBBY KEIO PLAZA HOTEL**

All registered Meeting Attendees are invited to come to the Welcome Reception to kick off ISID 2023!
Let's gather at the Welcome Reception to make the next three days even better.

This event is free of charge for registered ISID attendees and their companions.

Partial support of the Welcome Reception provided by Elsevier.

Future Leaders Symposium

WEDNESDAY, MAY 10, 2023 **12:00-14:30** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Introduction:
Dr. Erwin Tschachler, Editor in Chief, Journal of Investigative Dermatology

LECTURES 1

Chair: Dr. Ritsuko Morita, Dr. Tae-Gyun Kim, Dr. Chen-Hui Chen

Proteomic pathways to personalized medicine
Beatrice Dyring-Andersen, MD (ESDR)
Associate Professor
University of Copenhagen

Targeting skin type 3 immunity through understanding the single-cell microenvironment
Tae-Gyun Kim, MD/PhD (KSID)
Assistant Professor
Yonsei University College of Medicine, Severance Hospital
Republic of Korea

Neutrophils drive skin autoinflammation by releasing interleukin (IL)-26
Jeremy Di Domizio, PhD (ESDR)
Private Docent Research Scientist
University Hospital of Lausanne

COFFEE BREAK
12:50 - 13:10

LECTURES 2

Chair: Dr. Andrew Ji, Dr. Yingchao Xue, Dr. Jeremy Di Domizio, Dr. Beatrice Dyring-Andersen

Asynthetic fission in the zebrafish skin
Chen-Hui Chen, PhD (TSID)
Associate Research Fellow
Institute of Cellular and Organismic Biology at Academia Sinica

Skin Mechanobiology – Regeneration and More
Yingchao Xue, PhD (SID)
Postdoctoral-Fellow
Johns Hopkins University

"Telescope model" for coordinated organ morphogenesis and stem cell formation.
Ritsuko Morita, PhD (JSID)
Senior Scientist
RIKEN Center for Biosystems Dynamics Research

Single-cell and spatial dissection of human skin homeostasis and cancer.
Andrew Ji, MD (SID)
Assistant Professor
Icahn School of Medicine at Mount Sinai

LEO Foundation Awards

WEDNESDAY, MAY 10, 2023 **14:30-15:00** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Join us at ISID 2023!

The winners of the LEO Foundation Awards 2023 will be announced live.

Let's pave the way for curing skin diseases.

The LEO Foundation is one of the world's largest funders of independent research into skin and skin diseases. The Foundation has given more than USD 140 million in grants and awards – in Denmark and all over the world. Our philanthropic grants are awarded in open competition and are available to both junior and senior researchers

Connect with us to find out when and how to apply for research funding:

Twitter LinkedIn leo-foundation.org

LEO

LEO FOUNDATION

ISID 2023 Opening Ceremony

WEDNESDAY, MAY 10, 2023 **15:10 – 15:40** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

HOSTED BY:
Prof. Yukie Yamaguchi, Yokohama City University
Join the Leadership of the ISID and member organizations as they welcome attendees to the first-ever ISID Meeting in Tokyo!

AGENDA:

- Opening: Japanese drum ceremony
  (**Mr. Keita Kanazashi**, a professional Wadaiko (Japanese drum) performer)

- Welcome remarks from ISID Meeting Organizer, **Professor Kenji Kabashima** and Co-Host, **Professor Dong-Youn Lee**, President of the Korean Society for Investigative Dermatology (KSID)

- Greetings from **Dr. Russell Hall**, ISID President

- Introduction of ISID Member Societies by **Prof. Chris Griffiths** and Presidential Remarks

  - Society for Investigative Dermatology (SID), **Prof. Valentina Greco**
  - European Society for Dermatological Research (ESDR), **Prof. Sabine Eming**
  - Taiwanese Society for Investigative Dermatology (TSID), **Prof. Sung-Jan Lin**
  - Australasian Society for Dermatology Research (ASDR), **Prof. Johannes Kern**

- Introduction of Science Council of Japan by **Prof. Masayuki Amagai**

- Greeting from the Meeting Co-Organizer: **Koichi HISHIDA**, Vice-President, Science Council of Japan

- Presentation of a message from the **Japanese Prime Minister, Fumio Kishida**

Rising Stars Lectures

WEDNESDAY, MAY 10, 2023 **15:40 – 16:40** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

15:40-16:00

Europe-Middle East-Africa Region Rising Star

Introduction by:
Prof. Eli Sprecher

Alexander Nystrom, PhD
University of Freiburg
Freiburg, Germany

The misunderstood matrix in dermal fibrosis

16:00-16:20

Asia/Oceania Region Rising Star

Introduction by:
Dr. Kenji Kabashima

Yumi Matsuoka-Nakamura, MD/PhD
Osaka University
Osaka, Japan

Skin microbiota–host interactions in pediatric allergy and atopic dermatitis

16:20-16:40

America's Region Rising Star

Introduction by:
Dr. Lynn Cornelius

Shawn Demehri, MD/PhD
Massachusetts General Hospital
Boston, MA

Immunity to Commensal Virome Regulating the Homeostasis of Aging Skin

LECTURESHIP HISTORY

The 2023 Rising Stars Lectures celebrate the best of emerging dermatological science throughout the world. The ISID 2023 Committee on Scientific Programs have selected one prominent young researcher engaged in high-impact science in their respective region, to provide an overview of their current work.

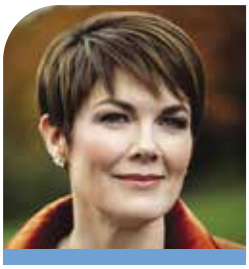
AbbVie Symposium

WEDNESDAY, MAY 10, 2023 **16:50 – 18:20** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Open Horizons: Up-to-Date Treatment Options for Inflammatory Skin Diseases

16:50 – 16:55
Opening
Eung Ho Choi, MD/PhD, Professor, Department of Dermatology, Yonsei University, South Korea

16:55 – 17:15
Bench to Bedside – AbbVie Development History
Annette Schwarz, DVM, DACVP, Senior Director Immunology Discovery Research, AbbVie Global.
Dr. Schwarz leads the Pathology and late discovery GI and Rheumatology groups within Abbvie Immunology Discovery Research. She graduated from Michigan State University with both a B.S. in Physiology and D.V.M. After veterinary training, she was awarded an EID research fellowship at the Centers for Disease Control and completed her Pathology residency at Harvard University. She joined Abbott/Abbvie in 2002, driving studies to understand mechanisms of efficacy and potential toxicity for both small molecules (Jak, BTK, Syk) and protein therapeutics (TNF/17 DVD, IL-12). She led the targeted and conditional immunocytokine platform including identifying disease specific epitopes and developing translational quantitative imaging to understand the characteristics of targeted therapies in diseased tissue. Annette's lab are technological innovators with state-of-the-art preclinical imaging, spatialomics and AI/machine learning driven image analysis.



17:15 – 17:45
Biologics for Psoriasis and other diseases
Dr. Melinda Gooderham, MD. Dr. Gooderham is a Dermatologist and Medical Director at the SKiN Centre for Dermatology and an Investigator with Probity Medical Research.

She is an Assistant Professor at Queens University and a Consultant Physician at the Peterborough Regional Health Centre. She is a fellow of the Royal College of Physicians and Surgeons of Canada. Dr. Gooderham has been the principal investigator for over 200 clinical trials and she practices with a focus on inflammatory diseases of the skin. She also contributes to several peer-reviewed dermatology publications as an associate editor, reviewer, and has been an author of 205 articles. She enjoys lecturing to global audiences on new therapies for skin diseases.

17:45 – 18:15
JAKis for AD and other diseases
Melinda Gooderham, MD

18:15 – 18:20
Closing
Eung Ho Choi, MD/PhD

abbvie

Maruho Symposium

WEDNESDAY, MAY 10, 2023 **16:50 – 18:20** **ROOM B: EMINENCE HALL, KEIO PLAZA HOTEL**

The Birth of a Novel Treatment for Itching with IL-31RA Antibody

Importance of IL-31 signaling in pruritic skin diseases

Chair: Kenji Kabashima MD/PhD, Professor and Chair, Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan

Speaker: Bernhard Homey MD, Professor and Chair, Department of Dermatology, Medical Faculty, Heinrich-Heine-University, Duesseldorf, Germany. After his board certification in dermatology and his specialisation in allergology, he received a Professorship for Dermatology in 2003 and was appointed as Chairman of the Department of Dermatology at the University Hospital Düsseldorf in 2010. Since 2014, he is the spokesperson of the University Allergy Centre Düsseldorf. He has a long-standing research interest in all aspects of skin inflammation and during recent years, a focus has been directed towards the interplay of the microbiome with the host's immune and nervous systems.

Characterization of sensory nerves transmitting itch during skin barrier impairment and inflammation

Chair: Lisa A. Beck MD, Professor, Department of Dermatology, Medicine and Pathology, University of Rochester Medical Center, Rochester, NY, USA

Speaker: Takaharu Okada PhD, Laboratory for Tissue Dynamics, RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, Japan. Dr. Okada received his PhD degree from the School of Life Science, Graduate University for Advanced Studies. The goal of his laboratory is to understand the mechanisms regulating cell migration and interactions in the tissues that shape adaptive immune responses. For this purpose, they use real time imaging, in particular two-photon microscopy, to analyze cellular migration and interactions in the tissues. By applying the imaging strategy to relevant mouse models, they aim to reveal immune cell dynamics that are critical for generation of immunological memory and tolerance, two important features of adaptive immunity. In addition, as a most recent focus, they are also studying the function of primary sensory nerves during the development of atopic dermatitis.

Understanding the role of IL31 as a target for atopic dermatitis

Chair: Norito Katoh MD/PhD, Professor and Chair, Department of Dermatology, Kyoto Prefectural Medical University, Kyoto, Japan

Speaker: Gil Yosipovitch MD, Professor, Department of Dermatology and Cutaneous Surgery, University of Miami Miller School of Medicine, Miami, Florida, USA. Dr. Yosipovitch is the Director of the Miami Itch Center. He has published more than 550 articles in books and peer reviewed journals and has edited 5 books. He is the founder and past President of the International Forum for the Study of Itch and member of its board. He served as Chairman of the Scientific Board of the National Eczema Association. He serves on the editorial boards of 6 key specialty journals. He has received numerous awards and funds for his work. Dr. Yosipovitch has given more than 500 invited lectures to dermatology groups and organizations around the world and has mentored more than 50 fellows, PhD students and post-Doc fellows.

maruho

Maruho Co.,Ltd.

THURSDAY
MAY 11, 2023

ISID 2023 Social Gathering

THURSDAY, MAY 11, 2023 **19:50 –21:50** **ROOM A: CONCORD BALLROOM & ROOM B: EMINENCE HALL KEIO PLAZA HOTEL**

Get ready for one of the biggest and most spectacular events of ISID 2023 where you will enjoy a traditional Japanese festival "Matsuri"!!

This is a Ticketed Event: Pre-registration is required. Please visit the ISID 2023 Meeting Registration Counter in the Room HANA C/D for availability.

Maiko will be waiting for everyone to join. Join in the fun with Japanese culture, games, and food. See you there!

Japan Blood Products Organization Symposium

THURSDAY, MAY 11, 2023 **07:00 – 08:00** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Dermatomyositis

Chair:
Manabu Fujimoto, MD/PhD, Professor, Dermatology Department of Integrated Medicine, Graduate School of Medicine Osaka University, Osaka, Japan.

Single cell analysis and the role of cytokines in dermatomyositis

Victoria P. Werth, MD, Professor, Department of Dermatology, University of Pennsylvania, Chief, Division of Dermatology, Veterans Administration Medical Center, Philadelphia, USA.

Dr. Werth earned her medical degree from Johns Hopkins University School of Medicine. She joined the faculty at Penn in 1989 and has developed an internationally recognized program in autoimmune skin diseases. She is a co-founder of the Rheumatologic Dermatology Society and previous president of the group. She is co-founder of the Medical Dermatology Society, and a recipient of their lifetime achievement award. She has a longstanding interest in clinical and translational research pertaining to autoimmune skin diseases, including cutaneous lupus erythematosus, dermatomyositis, and autoimmune blistering diseases, with a focus on improving the outcomes of autoimmune dermatologic diseases.

Novel autoantigens in cancer associated dermatomyositis

David Fiorentino, MD/PhD, Professor, Department of Dermatology, Department of Medicine, Division of Rheumatology, Stanford University School of Medicine, Palo Alto, USA.

David Fiorentino is a Professor in the Department of Dermatology at Stanford School of Medicine where he has been since 2002. He is the also the Associate Program Director and has co-directed a multidisciplinary dermatology-rheumatology clinic since 2004. He specializes in the treatment of patients with rheumatic skin disease, with a focus on dermatomyositis and scleroderma. His research interests are mostly within dermatomyositis, and he is particularly focused on identifying novel autoantigens and their clinical associations as well as their role in disease pathogenesis. He also conducts clinical trials for patients with dermatomyositis and scleroderma and is a founding member and past president of the Rheumatologic Dermatology Society.

JB Japan Blood Products Organization

Otsuka Pharmaceutical Symposium

THURSDAY, MAY 11, 2023 **07:00 – 08:00** **ROOM B: EMINENCE HALL, KEIO PLAZA HOTEL**

Pathophysiology of Atopic Dermatitis

CHAIRS:
Takeshi Nakahara, MD/PhD, Professor, Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan.

Hiroyuki Murota, MD/PhD, Professor, Department of Dermatology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan.

PDE4 inhibition by difamilast regulates filaggrin and loricrin expression via keratinocyte proline-rich protein in human keratinocytes.
Gaku Tsuji, MD/PhD, Associate Professor, Research and Clinical Center for Yusho and Dioxin, Kyushu University Hospital, Fukuoka, Japan.

Dr. Tsuji received his MD degree from Tottori University Faculty of Medicine, and his PhD degree from the Graduate School of Medical Sciences, Kyushu University. After completing his residency at the Department of Dermatology, Graduate School of Medical Sciences, Kyushu University., he was a Visiting Fellow at the Dermatology Branch in the NIH. He was appointed as an Associate Professor in 2019.

Basophils in the pathogenesis of atopic dermatitis
Hajime Karasuyama, MD/PhD, Distinguished Professor, Tokyo Medical and Dental University (TMDU) Advanced Research Institute, Inflammation Infection and Immunity Laboratory, Tokyo, Japan.

Dr. Karasuyama received his MD degree from Tokyo Medical and Dental University, and his PhD degree from the University of Tokyo. Dr. Karasuyama's research is to understand the physiological and pathological roles for basophils in various immune and inflammatory responses, and to apply this knowledge to the development of novel therapeutics for inflammatory disorders.

Otsuka
Otsuka Pharmaceutical Co., Ltd.

Kaken Pharmaceutical Symposium

THURSDAY, MAY 11, 2023 **07:00 – 08:00** **ROOM C: NISHIKI, KEIO PLAZA HOTEL**

New Findings on Terbinafine-resistant Dermatophytosis

CHAIR:
Kazutoshi Harada, MD/PhD, Professor & Chair, Department of Dermatology, Tokyo Medical University, Tokyo, Japan.

New findings on terbinafine-resistant dermatophytosis: Epidemiology, resistance mechanisms, and prevention methods

Rui Kano, DVM/PhD, Professor, Teikyo University Institute of Medical Mycology, Tokyo, Japan.

Dr. Kano received his education from 1988-1994 at the Nihon University School of Veterinary Medicine, from 1994-1996 at the Animal Hospital, School of Veterinary Medicine, Faculty of Agriculture, University of Tokyo, Japan; 1996 – 1999 Dermatology, Teikyo University School of Medicine, Tokyo; and from 2007 – 2008 served as a Guest Researcher at Center for Disease Control and Prevention (CDC), USA. His areas of research interest are animal mycoses, molecular taxonomy of fungi, and antifungal resistance.

Taisho Pharmaceutical Symposium

THURSDAY, MAY 11, 2023 **07:00 – 08:00** **ROOM D: OHGI, KEIO PLAZA HOTEL**

Visualization of vascular network in the skin and brain enables the understanding of stem cell niche -Cross-talk system between "vasculature" and "hair cycle/minoxidil/skin homeostasis"

CHAIR

Manabu Ohyama, MD/PhD, Professor and Chair, Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo, Japan.

SPEAKER

Ken-ichi Mizutani, PhD, Research Professor, the Graduate School of Pharmaceutical Sciences, Kobe Gakuin University.

Ken-ichi Mizutani received his PhD degree in Human and Environmental Studies from the Kyoto University, Japan, in 2002. From 2002 to 2009, he was a research scientist at Institute for Frontier Medical Sciences, Kyoto University, Department of Neurology, Johns Hopkins University School of Medicine, and RIKEN Center for Developmental Biology. In 2010, he joined the Graduate School of Brain Science, Doshisha University, as an Associate Professor. From 2010 to 2013, he was a PRESTO research scientist (concurrent) at Japan Science and Technology Agency. From 2017, he is working at Graduate School of Pharmaceutical Sciences, Kobe Gakuin University as a Research Professor. His research interests include stem cell biology, neurogenesis, angiogenesis, brain science, dermatology, and vascular aging inhibitor/anti-aging material. He has received several academic awards as the first author including the Young Investigators Award of the Society for the Spontaneously Hypertensive Rat (2002), Promotion Award for Young Investigators of the International Hypertension Society (2002), and Young Investigator Okamoto Award of the Japan Research Foundation for Healthy Aging (2007).

TAISHO PHARMACEUTICAL

AMRYT Symposium

THURSDAY, MAY 11, 2023 **07:00 – 08:00** **ROOM F: HARMONY, KEIO PLAZA HOTEL**

Epidermolysis Bullosa – Concepts for Change

07:00 Opening Remarks – Chair. The Complexity of EB, **John McGrath, MD FRCP FMedSci, Professor and Mary Dunhill Chair in Cutaneous Medicine and Academic Head, St John's Institute of Dermatology, King's College London, UK**. Dr McGrath is the academic head of St John's Institute of Dermatology in London where he also runs the Genetic Skin Disease Group. He also currently holds a Yu-Shan Fellowship at the National Cheng Kung University in Taiwan. He has had lead roles in delivering experimental medicine and precision medicine within the U.K. translational research program. His own research focuses on the molecular characterization of inherited skin diseases and the development of novel treatments for rare disorders. He has carried out first-in-man trials of cell therapies (allogeneic fibroblasts, mesenchymal stromal cells) and gene therapies (autologous gene-corrected fibroblasts) for patients with inherited skin diseases, particularly epidermolysis bullosa, and continues to develop translational research involving gene, cell, protein, and small molecule-based therapeutic approaches.

07:05 EB Wounds - A Fundamental Priority, **Mauricio Torres-Pradilla, MD, Professor of Pediatric Dermatology, Fundación Universitario de Ciencias de la Salud, Hospital de San José and Hospital Infantil Universitario de San José, Bogota, Colombia.** Dr Torres is a researcher in epidermolysis bullosa, vascular tumours, psoriasis and atopic dermatitis. He is Vice President of the Colombian Association of Pediatric Dermatology (ACDP), he's a member of DEBRA Colombia, the Colombian Association of Dermatology, the Colombian Association of Pediatric Dermatology (ACDP), the Society of Pediatric Dermatology (SPD), the International Society of Pediatric Dermatology (ISDP) and the Latin American College of Dermatology (CILAD).

07:10 Approaching a New Era for Patients with EB, **John McGrath, UK**

07:20 Defining and Measuring Patient Outcomes, **Dedee Murrell, MD, Professor & Head, Department of Dermatology, St George Hospital, University of NSW, Sydney, Australia.** Dr Murrell is Professor of Dermatology at the University of NSW and Head of the Department of Dermatology at St George Hospital, Sydney, Australia. She is also Honorary Professorial Fellow at the George Institute for Global Health, Sydney. She specialises in novel therapeutics in medical dermatology in adults and children. She has developed and validated outcome measures for blistering diseases and epidermolysis bullosa. She directs a clinical trials centre with expertise in these diseases as well as trials on atopic dermatitis, psoriasis, alopecia, vitiligo, acne and skin cancer.

07:35 Translating Clinical Studies into Clinical Practice, **Mauricio Torres, MD, Colombia**

07:45 Panel Discussion and Audience Questions

Closing Remarks, **John McGrath, UK**

AMRYT PHARMA

Plenary Session 1

THURSDAY, MAY 11, 2023 **08:10 – 09:10** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Moderators:
Prof. Kenji Kabashima, Dr. Rhoda Alani, Prof. Marta Szell

08:10-08:22 **ORAL 001 [POSTER 1497]**

Type 2-mediated oxidative reprogramming promotes the transition of macrophages into repair mode and is required for wound healing

S. Willenborg[1], D. E. Sanin[2], E. J. Pearce[2], A. Trifunovic[3], H. Kashkar[3], S. A. Eming[1, 3]
[1]Universitat zu Koln, Cologne, Germany, [2]Johns Hopkins University, Baltimore, Maryland, United States, [3]Exzellenzcluster CECAD in der Universitat zu Koln, Cologne, Germany

08:22 -08:34 **ORAL 002 [POSTER 603]**

Degradation of aberrant NETs by DNases is a promising therapeutic strategy for SJS/TEN

M. Kinoshita[1], Y. Ogawa[1], N. Hama[2], A. Hasegawa[2], S. Shimada[1], R. Abe[2], T. Kawamura[1]
[1]University of Yamanashi, Yamanashi, Japan, [2]Niigata University, Niigata, Japan

08:34-08:46 **ORAL 003 [POSTER 187]**

Recurrent neural networks to predict biologic treatment outcomes in psoriasis

A. Hussain[1], C. Atallah[1], C. Griffiths[2, 3], R. B. Warren[2, 3], S. Dlay[1], N. Reynolds[1, 3]
[1]Newcastle University, Newcastle upon Tyne, United Kingdom, [2]Dermatology Centre, The University of Manchester, Manchester, United Kingdom, [3]BADBIR study group, Manchester, United Kingdom

08:46-08:58 **ORAL 004 [POSTER 180]**

Immune-mesenchymal crosstalk contribute to expansion of autoreactive plasma cells in the tertiary lymphoid structures in hidradenitis suppurativa

W. Yu[1, 2], J. Barrett[1], J. Tong[1], M. Lin[1], J. C. Devlin[3, 4], A. Herrera[5], M. Marohn[1], J. Remark[1, 4], P. Liu[6], J. Krueger[7], K. V. Ruggles[3, 8], S. B. Koralov[5], E. S. Chiu[1], C. Lu[1, 9]
[1]Plastic Surgery, New York University, New York, New York, United States, [2]Department of Dermatology, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan, [3]Institute of Systems Genetics, New York University Grossman School of Medicine, New York, New York, United States, [4]Vilcek Institute of Graduate Biomedical Sciences, New York University Grossman School of Medicine, New York, New York, United States, [5]Department of Pathology, New York University Grossman School of Medicine, New York, New York, United States, [6]Department of Ophthalmology, Kaohsiung Medical University, Kaohsiung, Taiwan, [7]Laboratory of Investigative Dermatology, The Rockefeller University, New York, New York, United States, [8]Division of Translational Medicine, Department of Medicine, New York University Grossman School of Medicine, New York, New York, United States, [9]Department of Cell Biology, New York University Grossman School of Medicine, New York, New York, United States

08:58-09:10 **ORAL 005 [POSTER 321]**

A human tissue model of Darier disease reveals MEK as a novel therapeutic target downstream of SERCA2 deficiency

S. A. Zaver[1], M. Sarkar[2], A. Tiwaa[1], J. Zou[3], S. Egolf[3], B. Capell[3], J. Gudjonsson[2], C. L. Simpson[1]
[1]Dermatology, University of Washington School of Medicine, Seattle, Washington, United States, [2]Dermatology, University of Michigan, Ann Arbor, Michigan, United States, [3]Dermatology, University of Pennsylvania, Philadelphia, Pennsylvania, United States

SID William Montagna Lecture

Neuroimmune Mechanisms Underlying Atopic Dermatitis Itch and Inflammation

THURSDAY, MAY 11, 2023 **09:15 – 09:45** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Introduction by:
Dr. Elena Ezhkova

Diana Bautista, PhD
University of California, Berkley, Berkley, CA

Diana Bautista is the Class of 1943 Memorial Chair and Professor of Cell and Developmental Biology and of Neurobiology in the Department of Molecular and Cell Biology and the Helen Wills Neuroscience Institute at the University of California, Berkeley. She received her bachelor's degree in Biology & Biochemistry from the University of Oregon, her Ph.D. in Neuroscience from Stanford University with Dr. Richard S. Lewis and was a postdoctoral fellow in Physiology at the University of California, San Francisco with Dr. David Julius. She joined the faculty at UC Berkeley in 2008.

Dr. Bautista's lab studies the molecular and cellular mechanisms of itch, touch, and pain, under normal and disease conditions. Her research has been funded by the NIH since 2009 and her work has been recognized by numerous awards, including a 2009 Pew Scholar Award, the 2014 Society for Neuroscience Young Investigator Award, a 2016 Howard Hughes Medical Institute Scholar Award and a 2019 NIH Director's Transformative Research Award. In 2022 she became a Howard Hughes Medical Institute Investigator. Her current research is focused on neuroimmune interactions in persistent pain, itch, and inflammatory disease.

LECTURESHIP HISTORY
The William Montagna Lecture is given annually at the Society's Annual Meeting. This award is intended to honor and reward young active investigators. Primary emphasis is given to researchers in skin biology.

JSID Special Guest Lecture

Recent Progress in iPS Cell Research and Application

THURSDAY, MAY 11, 2023 **09:45 – 10:15** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Introduction by:
Prof. Masayuki Amagai

Shinya Yamanaka, MD/PhD
Kyoto University, Kyoto, Japan

Dr. Shinya Yamanaka is the Director of the Center for iPS Cell Research and Application (CiRA), Kyoto University and a Senior Investigator and the L.K. Whittier Foundation Investigator in Stem Cell Biology at the Gladstone Institute for Cardiovascular Disease (GICD). He is also a Representative Director of Public Interest Incorporated Foundation, CiRA Foundation. He earned an MD from Kobe University in 1987 and a PhD from Osaka City University in 1993. From 1987 to 1989, he was a resident at the National Osaka Hospital. From 1993 to 1996, he was a postdoctoral fellow at GICD.

In 1996, He became an Assistant Professor at Osaka City University Medical School. In 1999, he was appointed Associate Professor at Nara Institute of Science and Technology, where he became a full professor in 2003. He took his current position as professor at Kyoto University in 2004 and was appointed Senior Investigator at the Gladstone Institutes in 2007.

Since 2008, he has directed CiRA. He is most recognized for his original research on induced pluripotent stem (iPS) cells. Since his breakthrough finding, he has been the recipient of many prestigious awards, including the Nobel Prize in Physiology or Medicine jointly with Dr. John Gurdon (2012). Human iPS cells and their derivatives offer a new model for disease modeling, drug discovery, and regenerative medicine.

His primary vision is to overcome diseases by delivering iPS cell-based innovative therapeutic options.

Plenary Session 2

THURSDAY, MAY 11, 2023 **10:20 – 11:20** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Moderators:
Prof. Dongyoun Lee, Dr. Johann Gudjonsson, Prof. Neil Rajan

10:20-10:32 **ORAL 006 [POSTER 414]**

Identification of metagenes for prediction of therapeutic efficacy and disease monitoring by decomposing atopic dermatitis skin mRNA-seq data

A. Fukushima-Nomura[1], H. Kawasaki[1, 2], K. Tanese[1], E. Kawakami[3], M. Amagai[1]
[1]Dermatology, Keio University School of Medicine, Tokyo, Japan, [2]Center for Integrative Medical Sciences, RIKEN, Yokohama, Japan, [3]Advanced Data Science Project, RIKEN, Yokohama, Japan

10:32-10:44 **ORAL 007 [POSTER 694]**

Keratinocyte autophagy deficiency aggravates itch-related scratching in atopic dermatitis

G. Peng[1, 2], W. Zhao[2], K. Okumura[2], H. Ogawa[2], S. Ikeda[1, 2], F. Niyonsaba[2, 3]
[1]Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, Japan, [2]Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan, [3]Faculty of International Liberal Arts, Juntendo Daigaku, Tokyo, Japan

10:44 -10:56 **ORAL 008 [POSTER 287]**

Investigating drivers of disease progression in cutaneous squamous cell carcinoma

M. Treanor-Taylor[1, 2], L. Mcgarry[1, 2], L. Carlin[1, 2], C. Harwood[3], I. Leigh[3], P. Bailey[1, 2], G. Inman[1, 2]
[1]Cancer Research UK Beatson Institute, Glasgow, United Kingdom, [2]University of Glasgow, Glasgow, Scotland, United Kingdom, [3]Queen Mary University of London, London, United Kingdom

10:56-11:08 **ORAL 009 [POSTER 866]**

A single nucleotide activity map of skin disease variants and transcription factors that modulate them

D. Porter, D. L. Reynolds, R. Meyers, W. Miao, A. W. Hong, X. Yang, L. Ducoli, S. Mondal, Z. Siprashvili, I. Elfaki, S. Srinivasan, P. A. Khavari
Dermatology, Stanford University, Stanford, California, United States

11:08-11:20 **ORAL 010 [POSTER 1315]**

Differential response of 3D African American and White Non-Hispanic skin organoids to major pro-inflammatory cytokines

I. Budunova[1], D. Trubetskoy[1], A. Klopot[1], B. Shi[1], L. C. Tsoi[2], B. E. Perez White[1]
[1]Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, [2]Dermatology, University of Michigan, Ann Arbor, Michigan, United States

Stephen I. Katz MD/PhD Memorial Lectureship Award

Immune-tissue Crosstalk during Homeostasis and Disease

THURSDAY, MAY 11, 2023 **11:20 – 11:50** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Introduction by:
Prof. Shinji Shimada

Keisuke (Chris) Nagao, MD/PhD
National Institutes of Health (NIH), Bethesda, MD

Dr. Nagao is a board-certified Dermatologist (Japanese Association of Dermatology) and currently directs a research program that includes basic and pre-translational investigations on skin immunology and immune-mediated diseases. Dr. Nagao is an attending physician on the NIH Clinical Center's Dermatology Consultation Service.

Dr. Nagao studies the skin immune system in the context of host-microbiota crosstalk during health and inflammatory conditions and has advanced our knowledge on how the skin functions as an immunological organ.

His laboratory has identified hair follicles as control towers of the skin immunity that support the tissue-residency and localization of dendritic cells, T cells, and innate lymphoid cells. In turn, the immune cells, such as the innate lymphoid cells, actively communicate with the hair follicles to regulate the commensal bacteria on the skin surface. Dr. Nagao's laboratory has also generated a mouse model for atopic dermatitis and demonstrated Staphylococcus aureus to be a critical element during eczema formation.

In collaboration with investigators at the NIH Clinical Center, he conducts translational research on intractable inflammatory skin diseases, such as primary immunodeficiencies, to understand mechanisms that underlie host-microbial symbiosis directly in humans.

UCB Medical Symposium

THURSDAY, MAY 11, 2023 **12:05 – 13:05** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Understanding Hidradenitis Suppurativa: an Educational Symposium

CHAIRS:

Kenji Kabashima, MD/PhD, Professor and Chair, Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan.

Nicole Ward, PhD, Vice Chair for Basic Research, Department of Dermatology; Professor of Dermatology; Professor of Pathology, Microbiology and Immunology, Vanderbilt University Medical Center, Nashville, US.

Introducing HS: what does psoriatic disease tell us about the drivers of inflammation?

Stevan Shaw, PhD, VP Head of Immunology Research, UCB, UK.

Dr. Shaw is currently Head of Immunology Research responsible for strategy and execution of a portfolio of immunology projects from target identification through to candidate selection and senior member of the Immuno-Bone Therapeutic area Leadership team responsible for strategy and execution from candidate to clinical proof of concept. He has over 25 years-experience in the discovery & development of novel therapeutics for patients with severe Immunological diseases, and led multiple therapeutic based projects from target identification through to proof of concept clinical studies (Bimekizumab, Olokizumab, Rozanolixizumab,). He is also an inventor on multiple patents.

Understanding HS: what have we uncovered about its complex pathophysiology?

James Krueger, MD/PhD, Laboratory for Investigative Dermatology, The Rockefeller University, New York, USA.

Dr. Krueger is Head of the Laboratory for Investigative Dermatology at The Rockefeller University in New York, NY, USA. He also serves as Physician and Co-director of the Center for Clinical and Translational Science at the Rockefeller University Hospital, and as Chief Executive Officer of the Rockefeller University Hospital. Dr Krueger earned his PhD degree in virology and cell biology from The Rockefeller University. He received his medical degree from Cornell University Medical College (New York City), where he also completed an internship in internal medicine and a residency in dermatology.

Managing HS: where are we now and where do we aim to be?

Kenzo Takahashi, MD/PhD, Professor and Chair, Department of Dermatology, University of the Ryukyus Graduate School of Medicine, Okinawa, Japan.

Dr. Takahashi received his MD degree from Kyoto University School of Medicine, Kyoto University, Kyoto, Japan. He continued at the University of Kyoto and received his PhD degree. He completed a Postdoctoral Fellowship in the lab of Pierre Coloumbe, PhD in Johns Hopkins University school of Medicine, Maryland. He joined the University of the Ryukyus School of Medicine in 2010, and in 2022, was appointed as Dean of the School of Medicine.

Taiho Pharmaceutical/Janssen Pharmaceutical K. K. Symposium

THURSDAY, MAY 11, 2023 **12:05 – 13:05** **ROOM B: EMINENCE HALL, KEIO PLAZA HOTEL**

Pathophysiology of Psoriasis and the Role of IL-23

CHAIR:
Yoshihide Asano, MD/PhD, Professor and Chair, Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, JAPAN.

SPEAKER:

Tetsuya Honda, MD/PhD, Professor and Chair, Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, JAPAN.

Dr. Honda received his MD degree in 2000 and PhD in 2007 from Kyoto University, Kyoto, Japan. He was assigned as an Assistant Professor at Kyoto University (2007–2010) and a Visiting Fellow at the National Institutes of Health, Bethesda (2010–2012). After returning to Japan, he served as an Associate Professor (2012–2015) at Department of Innovation Center for Immunoregulation Technologies and Drugs at Kyoto University, then as Assistant professor in the Department of Dermatology at Kyoto University(2015-2020). He was appointed as Professor in the Department of Dermatology at Hamamatsu University School of Medicine in 2020.

TAIHO PHARMA

janssen PHARMACEUTICAL COMPANIES OF Johnson&Johnson

Bristol Myers Squibb Symposium

THURSDAY, MAY 11, 2023 **12:05 – 13:05** **ROOM C: NISHIKI, KEIO PLAZA HOTEL**

A New Pathway for Psoriasis Treatment

CHAIR:
Akiharu Kubo, MD/PhD, Professor, Department of Dermatology, Kobe University Graduate School of Medicine, Kobe, JAPAN.

SPEAKER:
Positioning of Deucravacitinib in Psoriasis Treatment
Yukie Yamaguchi, MD/PhD, Professor and Chair, Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, Yokohama, JAPAN.

Dr Yamaguchi is a professor and chairman at Department of Environmental Immuno-Dermatology at Yokohama City University Graduate School of Medicine. She received her Md degree from Hamamatsu University School of Medicine, and her PhD degree from Yokohama City University, Graduate School of Medicine. Her research focuses on psoriasis, connective tissue diseases, cutaneous immunology, extracellular matrix.

CHAIR:
Ryuhei Okuyama, MD/PhD, Professor, Department of Dermatology, Shinshu University Graduate School of Medicine, Nagano, JAPAN.

SPEAKER:
Differentiation of SOTYKTU from pan-JAKis - mechanisms to basic science
Johann Gudjonsson, MD/PhD, Professor, Department of Dermatology, Arthur C. Curtis Professor, Molecular Skin Immunology, Frances, Kenneth Eisenberg Emerging Scholar of the Taubman Medical Research Institute, University of Michigan, Ann Arbor, USA.

Dr. Gudjonsson's primary research focus is basic immunological and genetic research on chronic inflammatory skin diseases, including Hidradenitis Suppurativa. He has published over 240 peer-reviewed papers in top-tier journals, and his work has earned several research awards, including awards from the American Skin Association, and Doris Duke Foundation, and was selected as the Society for Investigative Dermatology Rising Star Lecture in 2018. He was elected to the American Society for Clinical Investigation (ASCI) in 2020.

Bristol Myers Squibb™

Pfizer Symposium

THURSDAY, MAY 11, 2023 **12:05 – 13:05** **ROOM D: OHGI, KEIO PLAZA HOTEL**

JAK and Other Kinase Inhibitors in Dermatology: Dawn of a New Therapeutic Era

OBJECTIVES

- Explore the role of the JAK-STAT and other kinase pathways in the complex pathophysiology of immuno-inflammatory dermatological diseases
- Highlight the potential of using JAK selectivity to match molecules to immuno-inflammatory dermatological diseases driven by specific cytokine profiles
- Review the topical and systemic kinase inhibitors in development for the treatment of immuno-inflammatory dermatological diseases, including atopic dermatitis, alopecia areata and vitiligo

AGENDA

12:05 PM – 12:10 PM
Welcome and Introductions
Melinda Gooderham

12:10 PM – 12:30 PM
Kinase Pathways: Gateway to Understanding Immuno-Inflammatory Dermatological Diseases
Melinda Gooderham

12:30 PM – 12:50 PM
The Therapeutic Potential of a New Drug Class: Kinase inhibitors in Dermatology
Thierry Passeron

12:50 PM – 13:05 PM
Panel Discussion / Q&A
All

Amorepacific Symposium

THURSDAY, MAY 11, 2023 **12:05 – 13:05** **ROOM E: MOONLIGHT, KEIO PLAZA HOTEL**

Skin Epigenetics - Sulwhasoo Symposium

CHAIR:
Prof. Jin Ho Chung, Department of Dermatology, Seoul National University College of Medicine

Epigenetic Landscape of Skin Aging

Sewon Kang, MD, Noxell Professor & Chairman, Department of Dermatology, Johns Hopkins University School of Medicine.

Dr. Kang is founder and co-Director of the Cutaneous Translational Research Program (CTReP) at Hopkins. A recipient of the Dermatology Foundation's Career Development Award, he has received other research awards and grants from the American Dermatological Association, the National Psoriasis Foundation and the National Institutes of Health. His research focus has been in the areas of skin pharmacology and photomedicine. He is the Past President of the Photomedicine Society, and the American Acne and Rosacea Society. Dr. Kang is or has been on the Board of Directors of multiple organizations including, the Society for Investigative Dermatology, the Association of Professors of Dermatology, the Dermatology Foundation, and the Skin of Color Society. An author on over 240 publications and book chapters, Dr. Kang is also the Editor-in-Chief of the 9th edition of the Fitzpatrick's Dermatology textbook. He is an inventor/co-inventor of 17 patents and has given over 300 presentations globally.

Advanced epigenetic regulation for skin anti-aging

Kyu-Han Kim, PhD, Sulwhasoo Heritage & Science Center, Research and Innovation Center, AMOREPACIFIC.

Dr. Kim has been investigating the discovery of epigenetic biomarkers such as microRNA for skin aging and epigenetic mechanism of anti-aging cosmetic ingredients at R&I center of AMOREPACIFIC. In recent years, he has been focusing on the research of epigenetic regulation of skin aging using the state-of-the-art bioinformatics including network analysis and machine learning tools, and thus finding the newly effective solution for skin anti-aging. He has authored or coauthored several high-impact research articles published in Nucleic Acids Res, J Invest Dermatol, Exp Mol Med, J Allergy Clin Immunol and other journal

Moderator

Beom Shim, PhD, New Beauty Research Initiative, AMOREPACIFIC R&I Center

Sulwhasoo

CHANEL Fragrance & Beauty Symposium

THURSDAY, MAY 11, 2023 **12:05 – 13:05** **ROOM F: HARMONY, KEIO PLAZA HOTEL**

Senescence: The Global Approach to Skin Aging

CHAIRS:

Youcef Ben Khalifa, PhD, CHANEL PB, FRANCE
Dr. Ben Khalifa has 18 years of experience in health and cosmetic fields. He obtained his PhD in 2008 in molecular biology and cancer research at the University of Medicine of Paris XI. He did his PhD at the Pasteur Institute in Paris and A*START, Agency of Science Technology and research, in Singapore followed by a 1st post-doc working on Papillomavirus, Skin Warts and Cervix Cancer. In 2011 he moved back to Paris at the Pasteur Institute for a 2nd post-doc within the European project SILVER identifying small molecules inhibitors of rabies virus. In 2014 he joined the cosmetic field at L'Oréal as Project Manager and then as Head of Cell and Tissue Engineering Research laboratory. Since 2021, he was appointed as the Director of Beauty Research and Performance at CHANEL developing the Research and Innovation strategy in the fields of Skin Biology, Neurosciences, and cosmetics performance evaluation.

Florian Gruber, PhD, Associate Professor, Department of Dermatology, Medical University of Vienna, AUSTRIA

SPEAKERS:

Analytic Imaging of Senescence - Induced Changes in Lipid and Carbohydrate Metabolism
Florian Gruber, PhD, Associate Professor, Department of Dermatology, Medical University of Vienna, AUSTRIA. Dr. Gruber was trained as a molecular biologist at the University of Vienna, Harvard College, and the University of Virginia, and received his venia docendi for experimental dermatology in 2019. In 2020 he became Director of the Christian Doppler Laboratory for Multimodal Analytical Imaging of Aging and Senescence – SKINMAGINE –, a shared public and corporate venture for investigation of the role of senescent cells in skin aging which is headquartered at the Medical University of Vienna. Together with research groups at the University of Natural Resources and Life Sciences, the Technical University of Vienna, and the corporate partner Chanel FB, Florian Gruber investigates with an integrated and correlated analytical imaging approach how the (epi-) lipidome, the epi-transcriptome and metabolism are adapted in aging tissue.

Impact of Cellular Senescence in Aging Pigmentation
Hee Young Kang MD/PhD, Professor and Chair, Department of Dermatology, Ajou University School of Medicine, Suwon, KOREA. Dr. Kang received both her MD and PhD degrees from the Ajou University School of Medicine. She studied at the department of life science of POSTECH, Korea (1995-1997). She trained in dermatology at the Ajou University Hospital (1997-2001). In 2001, she became board certified dermatologist in 2001 and worked as an assistant professor in the department of dermatology, Ajou University School of Medicine from 2004 to 2008. She was a visiting scholar in department of dermatology at the University of Nice in France (2008-2009). She has published scientific and clinical papers in more than 150 highly ranked international journals. Besides clinical dermatology, her scientific focus is in the pigmentary disorders including melasma and vitiligo and skin aging.

Cosmetic Application: CHANEL Natural ingredients Regulating Senescence Pathways for Unmatched Anti-aging Benefits of our Products
Sandra Forestier, PhD, CHANEL PB, FRANCE. Dr. Forestier has a PhD degree in Cutaneous Biology (University of Jussieu, Paris VI). She has 18 years of experience in Cosmetic industry, in the development of innovative skincare products. She joined CHANEL in 2005 as active ingredient project manager. In 2009, she was appointed responsible of active ingredient selection department. In 2018, she was in charge of Biology Research: the discovery of new biological targets, the evaluation of active ingredient efficacy by in vitro tests on skin cell cultures and reconstructed human skin models and the set-up of international scientific partnerships. Since 2020, she leads biological and clinical research studies, to analyze and understand skin specificities from cellular to clinical level.

CHANEL
FRAGRANCE & BEAUTY

Galderma Symposium

THURSDAY, MAY 11, 2023 **12:05 – 13:05** **ROOM G: TAKAO, KEIO PLAZA HOTEL**

Targeting itch and beyond: IL-31, a central neuroimmune mediator in atopic dermatitis and prurigo nodularis

12:05–12:08
Chair's welcome and introduction
Prof. Lisa Beck, MD (USA) Professor Beck is Co-Director of the University of Rochester Medical Center (URMC) for Allergic Disease Research, which was chosen as one of four US centers with the World Allergy Organization's Center of Excellence designation. She has been the Secretary of the International Eczema Council since its inception, Emeritus Member of the National Eczema Association Scientific Advisory Committee, and Past President of the Society for Investigative Dermatology. As Founding Director of the URMC Dermatology Clinical Trials Unit, Professor Beck has completed >14 clinical atopic dermatitis (AD) studies, that include mechanistic, interventional and registry trials, all of which met or exceeded enrollment/retention expectations and has a URMC AD patient registry with over 4000 patients. Professor Beck has also been Co-Primary Investigator of the Atopic Dermatitis Research Network (ADRN) since its inception, which has amassed the largest cross-sectional registry of phenotyped AD subjects in the world.

12:08–12:20
The torment of itch: Understanding the invisible symptom
Prof. Lisa Beck, MD (USA)

12:20–12:35
IL-31 signaling: Neuroimmune mediation in itch, inflammation and epithelial structure
Bernhard Homey, MD is Director of the Department of Dermatology at the University Hospital Düsseldorf, Germany. After his board certification in dermatology and his specialisation in allergology, he received a Professorship for Dermatology in 2003 and was appointed as Chairman of the Department of Dermatology at the University Hospital Düsseldorf in 2010. Since 2014, he is the spokesperson of the University Allergy Centre Düsseldorf. Professor Homey has a long-standing research interest in all aspects of skin inflammation and during recent years, a focus has been directed towards the interplay of the microbiome with the host's immune and nervous systems. Professor Homey has received several honours, including the Paul Martini Award, Oscar Gans Award, Günther-Wille Award and the Fujisawa Atopic Dermatitis Award. He participates in notable national and European research networks.

12:35–12:50
The unique role of IL-31: Uncovering the pathophysiology of atopic dermatitis and prurigo nodularis
Lam C. (Alex) Tsoi, PhD, Assistant Professor, Dermatology, Assistant Professor, Computational Medicine and Bioinformatics, Research Assistant Professor, Biostatistics, University of Michigan, Department of Dermatology, Ann Arbor, MI. Dr. Tsoi completed his PhD in biomedical science at the Medical University of South Carolina, supervised by Dr. W Jim Zheng. His PhD work focused on developing data integration approaches to enhance prioritization and interpretation of high throughput experimental results. Dr. Tsoi has strong interests in investigating the pathology and genetic architecture of complex cutaneous disorders using systems biology approaches. Working with Drs. James T. Elder and Johann E Gudjonsson, Dr. Tsoi's research aims to develop analysis pipelines and computational approaches to provide biological inferences from genetics and genomics data. His work in genetic association studies revealed over 30 novel psoriasis susceptibility regions, and highlighted different disease pathways. He also led the analysis and developed computational pipeline to study psoriasis transcriptomes, and his work uncovered over 1,000 novel transcripts in skin.

12:50–13:05
Panel discussion and close
All; facilitated by **Prof. Lisa Beck, MD** (USA)

GALDERMA
EST. 1981

Concurrent Mini-Symposium 1

Adaptive and Auto-Immunity I

Studies of adaptive immune responses involving T and B lymphocytes, dendritic cells, other antigen presenting cells, and antigen processing and presentation; Basic and pre-clinical experimental studies focused on autoimmunity.

THURSDAY, MAY 11, 2023 **13:15 – 15:45** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Moderators:
Dr Yoshihide Asano, Dr. Jaehyuk Choi, Dr. Killian Eyerich

13:15 -13:25 **ORAL 011 [POSTER 120]**

Identification of post-translationally modified trichohyalin epitopes responsible for triggering autoimmunity in alopecia areata

S. D. Jadeja, D. Tobin
Charles Institute of Dermatology, University College Dublin, Dublin, Ireland

13:25-13:35 **ORAL 012 [POSTER 074]**

Newly identification of a CXCR6+ pathogenic skin-resident CD4+ T cell subset in a mouse model of allergic dermatitis that requires CXCL16 for its maintenance

R. Asahina, F. Minami, G. Egawa, S. Nakamizo, K. Kabashima
Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan

13:35-13:45 **ORAL 013 [POSTER 028]**

Psychological stress exacerbates IgE-dependent chronic allergic inflammation by suppressing efferocytosis of M2 macrophages

H. Urakami[1], Y. Fujita[2], K. Nagao[2], K. Miyake[4], H. Karasuyama[4], S. Miyake[3], A. Kamiya[2], S. Yoshikawa[3], S. Morizane[1]
[1]Department of Dermatology, Okayama Daigaku Daigakuin Ishiyakugaku Sogo Kenkyuka, Okayama, Okayama, Japan, [2]Department of Cellular Physiology, Okayama Daigaku Daigakuin Ishiyakugaku Sogo Kenkyuka, Okayama, Okayama, Japan, [3]Department of Immunology, Juntendo Daigaku Igakubu Daigakuin Igaku Kenkyuka, Bunkyo-ku, Tokyo, Japan, [4]Inflammation, infection and Immunity Laboratory, Advanced Research Institute, Tokyo Ika Shika Daigaku, Bunkyo-ku, Tokyo, Japan

13:45-13:55 **ORAL 014 [POSTER 227]**

Immune response and allergenic components of COVID-19 vaccines induced delayed cutaneous reactions

C. Tsai, W. Chung, C. Chen
Drug Hypersensitivity Clinical and Research Center, Department of Dermatology,, Chang Gung Memorial Hospital, Linkou, Taipei, Tucheng and Keelung, Taiwan, Taoyuan, Taiwan

13:55-14:05 **ORAL 015 [POSTER 126]**

Topical corticosteroids inhibit allergic skin inflammation but are ineffective in impeding the formation and expansion of resident memory T cells

E. Ono[1], V. Lenief[1], M. Lefevre[1], R. Cuzin[1], A. Guironnet-Paquet[1], A. Mosnier[1], A. Nosbaum[1,2], J. Nicolas[1,2], M. Vocanson[1]
[1]Centre International de Recherche en Infectiologie, Lyon, Rhône-Alpes, France, [2]Hospices Civils de Lyon, Lyon, Auvergne-Rhône-Alpes , France

14:05-14:15 **ORAL 016 [POSTER 001]**

Staphylococcus aureus skin colonization promotes SLE-like autoimmune inflammation via neutrophil activation and the IL-23/IL-17 axis

H. Terui[1], K. Yamasaki[1], M. Wada-Irimada[1], M. Onodera-Amagai[1], N. Hatchome[1], M. Mizuashi[1], R. Yamashita[2], T. Kawabe[3], N. Ishii[3], T. Abe[4,5,6], Y. Asano[1], S. Aiba[1]
[1]Department of Dermatology, Tohoku Daigaku Daigakuin Igakukei Kenkyuka Igakubu, Sendai, Miyagi, Japan, [2]Division of Translational Informatics, Kokuritsu Gan Kenkyu Center Sentan Iryo Kaihatsu Center Kashiwa Campus, Kashiwa, Chiba, Japan, [3]Department of Microbiology and Immunology, Tohoku Daigaku Daigakuin Igakukei Kenkyuka Igakubu, Sendai, Miyagi, Japan, [4]Division of Nephrology, Endocrinology, and Vascular Medicine, Tohoku Daigaku Daigakuin Igakukei Kenkyuka Igakubu, Sendai, Miyagi, Japan, [5]Division of Medical Science, Tohoku Daigaku Daigakuin Ikogaku Kenkyuka, Sendai, Miyagi, Japan, [6]Department of Clinical Biology and Hormonal Regulation, Tohoku Daigaku Daigakuin Igakukei Kenkyuka Igakubu, Sendai, Miyagi, Japan

14:15-14:25 **ORAL 017 [POSTER 140]**

Comparative scRNA-Seq profiling of four autoimmune skin diseases points to CXCL13 as a potential player in skin autoimmunity

Y. Wang, K. Afshari, M. Frisoli, N. Haddadi, S. Sherman, J. E. Harris, M. Rashighi, M. Garber
University of Massachusetts Chan Medical School, Worcester, Massachusetts, United States

14:25-14:35 **ORAL 018 [POSTER 133]**

UVB-induced type-I interferon in keratinocytes is associated with expansion of CXCL13+ skin-resident memory T cells in dermatomyositis skin

K. Afshari[1], Y. Wang[1], N. Haddadi[1], S. Sherman[1], J. Richmond[1], R. Vleugels[2], M. Garber[1], M. Rashighi[1]
[1]University of Massachusetts Chan Medical School, Worcester, Massachusetts, United States, [2]Harvard Medical School, Boston, Massachusetts, United States

14:35-14:45 **ORAL 019 [POSTER 054]**

LPCAT1 aggravates hyperproliferation and inflammatory signals in psoriasis

Y. Huang[1], Y. Wang[2], Y. Wang[3], Y. Zhen[1], Q. Sun[1]
[1]Department of Dermatology, Qilu Hospital of Shandong University, Jinan, Shandong, China, [2]Department of Dermatology, Xi'an Jiaotong University, Xi'an, Shaanxi, China, [3]School of Life Science and Technology, Xi'an Jiaotong University, Xi'an, Shaanxi, China

Continued on next page.

Concurrent Mini-Symposium 1 - *Continued*

THURSDAY, MAY 11, 2023 **13:15 – 15:45** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

14:45-14:55 **ORAL 020 [POSTER 147]**

Sebaceous glands actively contribute to distinct immune response patterns in atopic dermatitis and psoriasis

P. Seiringer[7, 4, 1], C. Hillig[2], T. Biedermann[7], C. C. Zouboulis[6], M. Menden[2], K. Eyerich[3, 1], D. Töröcsik[5]

[1]Division of Dermatology and Venerology, Department of Medicine Solna and Center for Molecular Medicine, Karolinska Institutet, Stockholm, Sweden, [2]Institute of Computational Biology, Helmholtz Zentrum München, Neuherberg, Germany, [3]Albert-Ludwigs-Universitat Freiburg, Freiburg, Germany, [4]Zentrum Allergie und Umwelt, Munich, Germany, [5]Department of Dermatology, Faculty of Medicine, Debreceni Egyetem, Debrecen, Hungary, [6]Medizinische Hochschule Brandenburg Theodor Fontane, Neuruppin, Germany, [7]Klinikum rechts der Isar, Department of Dermatology and Allergy, Technische Universitat Munchen, Munchen, Germany

14:55-15:05 **ORAL 021 [POSTER 076]**

TRPM2-dependent autophagy inhibition promotes CXCL16 secretion by keratinocytes under oxidative stress

P. Kang, Y. Wang, J. Chen, S. Li, X. Yi, C. Li

Department of Dermatology, Xijing Hospital, Air Force Medical University, Xi'an, Shaanxi, China

15:05-15:15 **ORAL 022 [POSTER 172]**

Spatiotemporal architecting of skin dendritic cell directed immunity and tolerance

Q. Huang[1], A. S. Doane[2], Y. Liu[2], J. Valencia[5], C. Nirschl[6], J. Hsu[2], A. Savitz[1], K. Pradhan[1], A. Jaiswal[2], G. Song-Zhao[6], M. Bale[2], R. R. Ricardo-Gonzalez[4], R. Locksley[4], T. Lawrence[7], H. Young[5], M. Suarez-Farinas[3], O. Elemento[2], N. Anandasabapathy[1]

[1]Department of Dermatology, Weill Cornell Medicine, New York, New York, United States, [2]Weill Cornell Medicine, New York, New York, United States, [3]Icahn School of Medicine at Mount Sinai, New York, New York, United States, [4]University of California San Francisco, San Francisco, California, United States, [5]National Cancer Institute, Bethesda, Maryland, United States, [6]Harvard Medical School, Boston, Massachusetts, United States, [7]King's College London, London, United Kingdom

15:15-15:25 **ORAL 023 [POSTER 008]**

Characterization and pharmacological inhibition of an adult antibody-transfer mouse model of pemphigus vulgaris

S. Emtenani[1], M. Hofrichter[1], L. Komorowski[2], C. Probst[2], S. Patzelt[1], E. Schmidt[1, 3]

[1]Lübeck Institute of Experimental Dermatology, University of Lübeck, Lübeck, Germany, [2]Institute of Experimental Immunology, EUROIMMUN AG, Lübeck, Germany, [3]Department of Dermatology, University of Lübeck, Lübeck, Germany

15:25-15:35 **ORAL 024 [POSTER 012]**

CD4+ T cells control immune evasive tumors by reprogramming myeloid cells in an IFN-dependent manner

A. Buzzai[1], B. Kruse[1], N. Shridhar[1], A. Braun[1], S. Gellert[1], K. Knauth[1], J. Peters[1], M. Mengoni[1], T. van der Sluis[1], A. Krone[1], D. Yu[2], S. Höhn[1], Y. Fu[1], M. Essand[2], R. Geffers[3], D. Mougiakakos[1], S. Kahlfuß[1], H. Kashkar[4], E. Gaffal[1], W. Kastenmüller[5], A. Müller[1], T. Tüting[1]

[1]Otto-von-Guericke-Universitat Magdeburg Medizinische Fakultat, Magdeburg, Germany, [2]Uppsala Universitet, Uppsala, Sweden, [3]Helmholtz-Zentrum fur Infektionsforschung GmbH, Braunschweig, Niedersachsen, Germany, [4]Institute of Molecular Immunology, Köln, Germany, 5Institute for Systems Immunology, Würzburg, Germany

15:35-15:45 **ORAL 025 [POSTER 154]**

Nociceptor sensory neurons promote CD8 T cell response to VACV infection

J. Zhang[1], T. Pan[1], A. Kley[1], J. B. Williams[1], L. Deng[2], I. Chiu[2], T. S. Kupper[1]

[1]Dermatology, Brigham and Women's Hospital, Boston, Massachusetts, United States, [2]Immunology, Harvard Medical School, Boston, Massachusetts, United States

Concurrent Mini-Symposium 2

Artificial Intelligence (AI) and Image Analysis/Translational Studies

Use of artificial intelligence and machine learning in healthcare; Technologies used for medical imaging and diagnostics/Studies that translate basic research findings into human model systems (i.e. human tissue and/or cells) or humans.

THURSDAY, MAY 11, 2023 **13:15 – 15:45** **ROOM B: EMINENCE HALL, KEIO PLAZA HOTEL**

Moderators:
Dr. Takashi Okamoto, Dr. Shawn Kwatra, Dr. Thomas Tüting

13:15-13:25 **ORAL 026** **[POSTER 217]**

Time-to-event machine learning prediction of metastatic recurrence of localized melanoma

G. Wan[1,5], B. Leung[1], M. DeSimone[2], N. Nguyen[1], A. Rajeh[1], M. Collier[1], H. Rashdan[1], K. Roster[1], M. Asgari[1,5], A. Gusev[3], A. Stagner[1], C. Lian[2], M. Hurlbert[4], K. Yu[5], H. Tsao[1,5], F. Liu[6], P. Sorger[5], Y. Semenov[1,5]
[1]Massachusetts General Hospital, Boston, Massachusetts, United States, [2]Brigham and Women's Hospital, Boston, Massachusetts, United States, [3]Dana-Farber Cancer Institute, Boston, Massachusetts, United States, [4]Melanoma Research Alliance, Washington, District of Columbia, United States, [5]Harvard Medical School, Boston, Massachusetts, United States, [6]Stevens Institute of Technology, Hoboken, New Jersey, United States

13:25-13:35 **ORAL 027** **[POSTER 202]**

Automated assessment of tumor infiltrating lymphocytes informs mortality in thin melanoma

S. X. Tan[1], T. Nwe Aung[2], M. Claeson[3], C. Zhou[1], S. Brown[1], B. Acs[2], D. Lambie[6], P. Baade[4], N. Pandeya[5], H. Soyer[1], B. Smithers[6], D. Whiteman[5], D. Rimm[2], K. Khosrotehrani[1]
[1]The University of Queensland, Saint Lucia, Queensland, Australia, [2]Yale University, New Haven, Connecticut, United States, [3]Sahlgrenska Academy, Gothenburg, Sweden, [4]Cancer Council Queensland, Spring Hill, Queensland, Australia, [5]QIMR Berghofer Medical Research Institute, Herston, Queensland, Australia, [6]Princess Alexandra Hospital, Woolloongabba, Queensland, Australia

13:35-13:45 **ORAL 028** **[POSTER 203]**

Automated skin surface phenotype for melanoma risk assessment

B. D. Betz-Stablein[1], C. Rutjes[1], S. Kahler[1], A. Mothershaw[1], D. Jayasinghe[2], M. Stark[1], M. Janda[2], H. Soyer[1]
[1]Dermatology Research Centre, The University of Queensland, Brisbane, Queensland, Australia, [2]Centre for Health Services Research, The University of Queensland, Brisbane, Queensland, Australia

13:45-13:55 **ORAL 029** **[POSTER 212]**

Teledermatology photographs deblurring by deep learning models restores the accuracy of blurry images classification

Z. Jiang[3], H. Yeh[1], B. Hsu[2], S. Chou[2], T. Hsu[3], V. S. Tseng[2], C. Lee[3,4]
[1]Chen Chia-Wei Dermatology, Kaohsiung, Taiwan, [2]Computer Science, National Yang Ming Chiao Tung University, Hsinchu, Taiwan, [3]Dermatology, Chang Gung Memorial Hospital Kaohsiung Branch, Kaohsiung, Taiwan, [4]Chang Gung University College of Medicine, Taoyuan, Taiwan

13:55-14:05 **ORAL 030** **[POSTER 207]**

Comparison of neural network classification models to determine patch test reactivity

A. Ravishankar, P. L. Bigliardi
Dermatology, University of Minnesota Twin Cities, Minneapolis, Minnesota, United States

14:05-14:15 **ORAL 031** **[POSTER 210]**

A novel system with an end-to-end framework for mouse scratching detection based on deep learning techniques

J. P. Peng[1], B. Hsu[2], Y. Lin[2], V. S. Tseng[2], C. Lee[3]
[1]Chang Gung Memorial Hospital Kaohsiung Branch Department of Internal Medicine, Kaohsiung, Taiwan, [2]National Yang Ming Chiao Tung University Department of Computer Science, Hsinchu, Taiwan, [3]Department of Dermatology, Chang Gung Memorial Hospital Kaohsiung Branch, Kaohsiung, Taiwan

14:15-14:25 **ORAL 032** **[POSTER 214]**

Transforming wound assessment and management with artificial intelligence

P. Bishnoi[1], Y. Ng[1], O. E. Ping[2], R. Srivastava[2], T. K. Kyar[2], D. Y. Tan[3], Z. Jingxian[3], H. Susainathan[3], R. Q. So[2]
*[1]Skin Research Institute of Singapore, A*STAR, Singapore, Singapore, [2]Institute for Infocomm Research, Singapore, Singapore, [3]Diagnostics Development Hub, Singapore, Singapore*

14:25-14:35 **ORAL 033** **[POSTER 1572]**

HLA I shields tumor lymphocytes from NK-cell-mediated elimination in the skin

Y. Chang[1], S. Kimeswenger[2], M. Bobrowicz[4], S. Pascolo[3], W. Hoetzenecker[2], E. Guenova[1]
[1]Dermatology, Centre Hospitalier Universitaire Vaudois, Lausanne, Vaud, Switzerland, [2]Dermatology, Johannes Kepler Universitat Linz, Linz, Austria, [3]Dermatology, UniversitatsSpital Zurich, Zurich, Switzerland, [4]Immunology, Warszawski Uniwersytet Medyczny, Warszawa, Mazowieckie, Poland

14:35-14:45 **ORAL 034** **[POSTER 1625]**

Novel mechanism of cell proliferation in cutaneous T cell lymphoma

X. Zhang, H. Li, C. Chen, J. Hsiang, S. Nam, W. Hu, X. Wu, D. Horne, J. Shively, S. Rosen
City of Hope, Duarte, California, United States

Continued on next page.

Concurrent Mini-Symposium 2 - *Continued*

THURSDAY, MAY 11, 2023 **13:15 – 15:45** **ROOM B: EMINENCE HALL, KEIO PLAZA HOTEL**

14:45-14:55 **ORAL 035** **[POSTER 1545]**

Circulating tumor DNA reflects tumor burden and detects early recurrence in patients with Merkel cell carcinoma

T. Akaike[1], D. S. Hippe[2], N. So[3], N. Maloney[3], L. Gunnell[1], E. Hall[1], A. Rodriguez[4], A. Aleshin[4], P. Nghiem[1], L. Zaba[3]

[1]University of Washington, Seattle, Washington, United States, [2]Fred Hutchinson Cancer Research Center, Seattle, Washington, United States, [3]Stanford University School of Medicine, Stanford, California, United States, [4]Natera, Inc, Austin, Texas, United States

14:55-15:05 **ORAL 036** **[POSTER 1556]**

CSL324, a G-CSF receptor antagonist, blocks neutrophil migration markers that are upregulated in hidradenitis suppurativa

C. Gamell[1], K. Scalzo-Inguanti[1], B. Sedgmen[1], M. Alhamdoosh[1], C. Millar[1], L. Johnson[1], A. Dyson[1], J. Nicolopoulos[2], G. Varigos[2], M. Ng[1], N. Wilson[1], J. Field[1], J. S. Kern[2], L. M. Lindqvist[1]

[1]CSL Limited, Parkville, Victoria, Australia, [2]The Royal Melbourne Hospital, Parkville, Victoria, Australia

15:05-15:15 **ORAL 037** **[POSTER 1621]**

Spatial mass cytometry-based single cell imaging reveals a disrupted epithelial-immune axis in prurigo nodularis

A. Kambala, J. R. Patel, H. Cornman, K. K. Lee, S. V. Reddy, O. O. Oladipo, W. Ho, S. Kwatra

Department of Dermatology, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States

15:15-15:25 **ORAL 038** **[POSTER 1607]**

Multiomic analysis of immune-related adverse events (irAEs) in melanoma patients treated with anti-PD1-based immune checkpoint inhibitors (ICIs)

F. Dimitriou[1], P. Cheng[1], A. Saltari[1], R. Staeger[1], A. Tastanova[1], M. Levesque[1], G. Long[3], B. Becher[2], R. Dummer[1]

[1]Dermatology Department, UniversitatsSpital Zurich, Zurich, Switzerland, [2]Immunology Department, Universitat Zurich, Zurich, Switzerland, [3]Melanoma Institute Australia, North Sydney, New South Wales, Australia

15:25-15:35 **ORAL 039** **[POSTER 1598]**

Comparative proteomic analyses of microdissected nevi and melanoma subtypes reveal functional differences

S. Naimy[2, 3], D. Kuczek[4], J. B. Solberg[1], M. Bzorek[2], T. Litman[5], A. Mund[3], M. B. Lovendorf[1, 5], R. Clark[6], L. R. Gjerdrum[2, 7], M. Mann[3, 4], B. Dyring-Andersen[1, 3, 5]

[1]Department of Dermatology and Allergy, Herlev-Gentofte University Hospital, Hellerup, Denmark, [2]Department of Pathology, Copenhagen University Hospital, Zealand University Hospital, Roskilde, Denmark, [3]Novo Nordisk Foundation Center for Protein Research, University of Copenhagen, Copenhagen, Denmark, [4]Max-Planck-Institute of Biochemistry, Munich, Martinsried, Germany, [5]Leo Foundation Skin immunology Research Center, Department of Immunology and Microbiology, University of Copenhagen, Copenhagen, Denmark, [6]Department of Dermatology, Brigham's and Women's Hospital, Harvard Medical School, Boston, Massachusetts, United States, [7]Department of Clinical Medicine, University of Copenhagen, Copenhagen, Denmark

15:35-15:45 **ORAL 040** **[POSTER 1566]**

Fate induction through asymmetric T cell division is modulated by chimeric antigen receptor co-stimulatory domains

C. Berry[1], C. Lee[1], A. R. Kelly[2], S. Oh[1], R. O'Connor[2], C. Ellebrecht[1]

[1]Dermatology, University of Pennsylvania, Philadelphia, Pennsylvania, United States, [2]Department of Pathology and Laboratory Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, United States

Concurrent Mini-Symposium 3

Carcinogenesis and Cancer Genetics

Studies on the genetics and other causes of cancer as well as mechanisms relevant to metastasis

THURSDAY, MAY 11, 2023 **13:15 – 15:45** **ROOM C: NISHIKI, KEIO PLAZA HOTEL**

Moderators:
Dr. Kiarash Khosrotehrani, Dr. Kavita Sarin, Dr. Remco van Doorn

13:15-13:25 **ORAL 041** **[POSTER 264]**

Genetic ablation of host p38δ promotes antitumor immunity and reduces tumor growth

A. Kiss[1], J. Chen[1], F. Cheng[1], C. Wei[1], N. Adusumilli[1], S. Sandhu[1], S. Simmens[1], E. Sotomayor[3], T. Efimova[2, 1]
[1]The George Washington University, Washington, District of Columbia, United States, [2]Northwestern University, Evanston, Illinois, United States, [3]Tampa General Hospital, Tampa, Florida, United States

13:25-13:35 **ORAL 042** **[POSTER 277]**

HPV8 E6 induced STAT3 activation leads to hair follicle junctional zone keratinocyte stem cell proliferation and expansion in actinic keratoses

C. Olivero[1], H. Morgan[1], L. Martuscelli[2], A. Gibbs[1], B. Shorning[1], C. Borgogna[2], M. De Andrea[2], M. Hufbauer[3], S. Smola[4], H. Pfister[3], B. Akgul[3], M. Gariglio[2], G. Patel[1]
[1]European Cancer Stem Cell Research Institute, Cardiff University, Cardiff, United Kingdom, [2]Translational Medicine, University of Piemonte Orientale, Novara, Italy, [3]Virology, Universitat zu Koln, Koln, Nordrhein-Westfalen, Germany, [4]Virology, Saarland University Medical Center, Homburg, Germany

13:35-13:45 **ORAL 043** **[POSTER 297]**

Expanded genomic landscape of merkel cell carcinoma identifies new drivers

Y. Zhang[1], Z. Reinstein[1], K. Qiu[1], J. Jackson[1], M. Nichols[2], H. Liu[1], K. Tsai[2], J. Choi[1]
[1]Department of Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, [2]Department of Pathology, Moffitt Cancer Center, Tampa, Florida, United States

13:45-13:55 **ORAL 044** **[POSTER 267]**

Establishment of a new immunocompetent mouse model of merkel cell carcinoma

K. M. Prieto-Sarmiento[1], A. de Mingo Pulido[1], B. R. Sell[1], O. Chavez Chiang[1], P. W. Harms[2], M. E. Verhaegen[2], A. Dlugosz[2], T. Patel[3], C. Coarfa[3], K. Tsai[1]
[1]Clinical Science, Moffitt Cancer Center, Tampa, Florida, United States, [2]Dermatology, University of Michigan, Ann Arbor, Michigan, United States, [3]Baylor College of Medicine, Houston, Texas, United States

13:55-14:05 **ORAL 045** **[POSTER 311]**

Single-cell transcriptomics reveals distinct molecular programs in folliculotropic mycosis fungoides

T. Qin[1], A. Billi[2], J. Runge[2], R. Wasikowski[2], Q. Li[2], Y. Wang[3], M. Sartor[2], P. W. Harms[2], J. Gudjonsson[2], A. Hristov[2], L. C. Tsoi[2], T. Tejasvi[1,2]
[1]Computational Medicine and Bioinformatics, University of Michigan, Ann Arbor, Michigan, United States, [2]University of Michigan, Ann Arbor, Michigan, United States, [3]Peking University, Beijing, China

14:05-14:15 **ORAL 046** **[POSTER 303]**

Single-cell RNA sequencing of erythrodermic CTCL compared to atopic dermatitis and unspecific chronic erythroderma defines disease-specific markers

K. Rindler[1], S. Chennareddy[2], M. Medjimorec[1], L. Shaw[1], U. Mann[1], W. Weninger[1], M. Farlik[1], C. Jonak[1], P. Brunner[2]
[1]Department of Dermatology, Medizinische Universitat Wien, Wien, Wien, Austria, [2]Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York, New York, United States

14:15-14:25 **ORAL 047** **[POSTER 253]**

PRMT1 inhibition as a novel therapeutic approach in squamous cell carcinoma

R. Boudra[1], B. Patenall[1], S. King[1], S. Xu[2], D. Wang[2], M. Padilla[1], C. Schmults[1], S. Barthel[1], C. Lian[2], M. R. Ramsey[1]
[1]Dermatology, Brigham and Women's Hospital, Boston, Massachusetts, United States, [2]Pathology, Brigham and Women's Hospital, Boston, Massachusetts, United States

14:25-14:35 **ORAL 048** **[POSTER 244]**

The sphingosine-1-phosphate-cathelicidin axis has a pivotal role in the development of cutaneous squamous cell carcinoma

K. Park[1, 2, 3], Y. Kim[2, 3], K. Shin[1, 4], Y. Bae[1], Y. Choi[1], A. Nielsen-Scott[2, 3], C. Mainzer[2, 3], A. Celli[2, 3], W. Holleran[2, 3], S. Arron[2, 3], T. Mauro[2, 3], P. Elias[2, 3], Y. Uchida[1, 2, 3]
[1]Food Science and Nutrition, Hallym University, Chuncheon, Gangwon-do, Korea (the Republic of), [2]Dermatology, University of California San Francisco, San Francisco, California, United States, [3]Northern California Institute for Research and Education, San Francisco, California, United States, [4]LaSS Inc., Chunche, Korea (the Republic of)

14:35-14:45 **ORAL 049** **[POSTER 258]**

Ire1α nmsc mutations enhance keratinocyte uv response and survival through rac1 activation

S. Mogre, J. Son, A. Glick
The Pennsylvania State University, University Park, Pennsylvania, United States

Continued on next page.

Concurrent Mini-Symposium 3 - *Continued*

THURSDAY, MAY 11, 2023 **13:15 – 15:45** **ROOM C: NISHIKI, KEIO PLAZA HOTEL**

14:45-14:55 **ORAL 050** **[POSTER 250]**

A specific neurotrophin network characterizes cSCC subpopulations and correlates with their behavior by patient-derived spheroids and zebrafish avatar

M. Quadri[1], L. Reggiani Bonetti[2], R. Panini[2], N. Tiso[3], R. Lotti[1], C. Pincelli[1], A. Marconi[1], E. Palazzo[1]

[1]CHIMOMO, Unimore, Modena, Italy, [2]Dept of Pathology, Unimore, Modena, Italy, [3]Dept of Biology, UniPD, Padua, Italy

14:55-15:05 **ORAL 051** **[POSTER 275]**

Spatial transcriptomics of early invasive melanomas reveals molecular determinants of patient survival

C. Zhou[1], S. X. Tan[1], Y. Kao[1], M. Claeson[5], S. Brown[1], D. Lambie[3], D. Whiteman[2], H. Soyer[1], M. Stark[1], Q. Nguyen[4], K. Khosrotehrani[1]

[1]The University of Queensland Frazer Institute, Brisbane, Queensland, Australia, [2]QIMR Berghofer Medical Research Institute, Herston, Queensland, Australia, [3]Pathology Queensland, Princess Alexandra Hospital, Brisbane, Queensland, Australia, [4]The University of Queensland Institute for Molecular Bioscience, Saint Lucia, Queensland, Australia, [5]Institute of Clinical Sciences, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden

15:05-15:15 **ORAL 052** **[POSTER 289]**

Crosstalk between MET-dependent receptor tyrosine kinase signaling and oncogenic Gαq mutations in melanoma

B. Andreas[1], M. Mengoni[1], S. Seedarala[1], S. Bonifatius[1], E. Kostenis[2], T. Tüting[1], E. Gaffal[1]

[1]Dermatology, University Hospital Magdeburg, Magdeburg, Germany, [2]University of Bonn, Bonn, Germany

15:15-15:25 **ORAL 053** **[POSTER 233]**

Epigenetic age dysregulation is associated with clinical features of cutaneous melanoma and melanocytic nevi

R. Jeremian[1, 2], J. R. Georgakopoulos[3, 4], J. Yeung[4, 3], I. Litvinov[2, 1]

[1]McGill University Faculty of Medicine and Health Sciences, Montreal, Quebec, Canada, [2]McGill University Health Centre, Montreal, Quebec, Canada, [3]University of Toronto Temerty Faculty of Medicine, Toronto, Ontario, Canada, [4]Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada

15:25-15:35 **ORAL 054** **[POSTER 305]**

Matrix metalloproteinase-1 expression in fibroblasts accelerates dermal aging and promotes tumor development in mouse skin

G. J. Fisher[1], W. Xia[1], T. He[1], G. Bou-Gharios[2], J. J. Voorhees[1], A. Dlugosz[1], T. Quan[1]

[1]Dermatology, University of Michigan, Ann Arbor, Michigan, United States, [2]Matrix Biology, University of Liverpool Faculty of Health and Life Sciences, Liverpool, United Kingdom

15:35-15:45 **ORAL 055** **[POSTER 316]**

EPHB2 germline mutation in patients with high frequency basal cell carcinomas and prostate carcinoma

A. Chiang[1], G. Swaminathan[1], M. Harris[1], V. Hua[1], W. Chan[1], J. Ramos[1], K. Yekrang[1], H. Do[1], I. Bailey[1], K. E. Rieger[1, 2], C. Curtis[3, 4], J. Y. Tang[1], A. Oro[1], K. Sarin[1]

[1]Dermatology, Stanford University School of Medicine, Stanford, California, United States, [2]Dermatopathology, Stanford University School of Medicine, Stanford, California, United States, [3]Medicine (Oncology), Stanford University School of Medicine, Stanford, California, United States, [4]Genetics, Stanford University School of Medicine, Stanford, California, United States

Concurrent Mini-Symposium 4

Clinical Research – Epidemiology and Observational Research I

Non-interventional studies of populations or patient cohorts that evaluate, but are not limited to, the natural history of disease, disease burden, co-morbidities, health-related quality of life, and patient-reported outcomes research.

THURSDAY, MAY 11, 2023 **13:15 – 15:45** **ROOM D: OHGI, KEIO PLAZA HOTEL**

Moderators:
Dr. Chong Hyun Won, Dr. Julie Ryan Wolf, Dr. Sara Brown

13:15-13:25 **ORAL 056** **[POSTER 448]**
A framework to study the epidemiological and molecular basis of psoriasis severity, with application in UK Biobank and BSTOP
J. Saklatvala[1], R. Ramessur[1], M. Simpson[1], S. M. Langan[3], S. Brown[4], L. Paternoster[2], N. Dand[1], C. Smith[1]
[1]King's College London, London, United Kingdom, [2]University of Bristol, Bristol, United Kingdom, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]University of Edinburgh, Edinburgh, United Kingdom

13:25-13:35 **ORAL 057** **[POSTER 446]**
The risk of lymphoproliferative disorders and skin cancers in patients with psoriasis and inflammatory bowel disease administered biologics
J. Jung, E. Choi, G. Kim, S. Chang, M. Lee, C. Won, W. Lee
Dermatology, Asan Medical Center, Songpa-gu, Seoul, Korea (the Republic of)

13:35-13:45 **ORAL 058** **[POSTER 407]**
A population-based cohort study of sodium consumption and psoriasis
A. Chattopadhyay, B. Chiang, Y. Halezeroglu, K. Abuabara
University of California San Francisco, San Francisco, California, United States

13:45-13:55 **ORAL 059** **[POSTER 394]**
Differential associations of psoriasis subtypes with autoimmune disorders in United States children and adults: A cross-sectional study
Z. Ren[1], J. Silverberg[2]
[1]Department of Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, [2]Department of Dermatology, The George Washington University School of Medicine and Health Sciences, Washington, District of Columbia, United States

13:55-14:05 **ORAL 060** **[POSTER 552]**
Transitions in blood immune profile in atopic dermatitis from infancy to adulthood
E. Del Duca[1], Y. Renert-Yuval[2], A. Pavel[1], D. Mikhaylov[1], R. Lefferdink[1], M. Fang[1], A. Sheth[3], P. Facheris[1], J. Wu[1], Y. Estrada[1], S. Rangel[3], J. Krueger[2], A. Paller[3], E. Guttman-Yassky[1]
[1]Icahn School of Medicine at Mount Sinai, New York, New York, United States, [2]Dermatology, The Rockefeller University, New York, New York, United States, [3]Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

14:05-14:15 **ORAL 061** **[POSTER 383]**
Non-invasively collected RNA in sebum reflects the characteristics and severity of atopic dermatitis
A. Tanaka[1], T. Nakahara[2], K. Masuda[3], N. Takada[4], T. Kuwano[4], T. Inoue[4], S. Hoashi[5], Y. Kawasaki[5], H. Saeki[6]
[1]Department of Dermatology, Hiroshima Daigaku, Hiroshima, Hiroshima, Japan, [2]Department of Dermatology, Kyushu Daigaku, Fukuoka, Fukuoka, Japan, [3]Department of Dermatology, Kyoto Furitsu Ika Daigaku, Kyoto, Kyoto, Japan, [4]Biological Science Laboratory, Kao Kabushiki Kaisha, Chuo, Tokyo, Japan, [5]Diagnostics Department, Maruho Kabushiki Kaisha, Osaka, Osaka, Japan, [6]Department of Dermatology, Nihon Ika Daigaku, Bunkyo, Tokyo, Japan

14:15-14:25 **ORAL 062** **[POSTER 540]**
A longitudinal cohort study of atopic dermatitis and epigenetic age acceleration across childhood
M. Ye[1], P. Collender[2], S. M. Langan[3], A. Cardenas[4], K. Abuabara[1, 2]
[1]UCSF, San Francisco, California, United States, [2]UC Berkeley, Berkeley, California, United States, [3]LSHTM, London, United Kingdom, [4]Stanford University, Stanford, California, United States

14:25-14:35 **ORAL 063** **[POSTER 558]**
Higher hemoglobin A1C is associated with greater disease severity in hidradenitis suppurativa
N. Foolad[1], W. Liu[1, 2], J. T. Kwock[1], T. Jaleel[1]
[1]Dermatology, Duke University School of Medicine, Durham, North Carolina, United States, [2]Department of Neurobiology, Duke University School of Medicine, Durham, North Carolina, United States

14:35-14:45 **ORAL 064** **[POSTER 489]**
Long-term oral antibiotics for acne and antibiotic treatment failure
K. Bhate[1], R. Mathur[2], S. M. Langan[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Queen Mary University of London, London, United Kingdom

14:45-14:55 **ORAL 065** **[POSTER 470]**
Regulatory T cells act either by expansion at the acute phase or by steep contraction at the resolution phase in severe drug eruptions
Y. Mizukawa, R. Takahashi, T. Shiohara
Kyorin Daigaku, Mitaka, Tokyo, Japan

Continued on next page.

Concurrent Mini-Symposium 4 - *Continued*

THURSDAY, MAY 11, 2023 **13:15 – 15:45** **ROOM D: OHGI, KEIO PLAZA HOTEL**

14:55-15:05 **ORAL 066** **[POSTER 562]**

Merkel polyomavirus antibody testing for detecting recurrent Merkel cell carcinoma: A prospective, real-world outcomes study

L. Gunnell[1], T. Akaike[1], K. Lachance[1], D. S. Hippe[2], K. Cahill[1], C. Doolittle-Amieva[2, 1], L. Zawacki[1], S. Park[1, 2], P. Nghiem[1, 2]

[1]University of Washington Department of Medicine, Seattle, Washington, United States, [2]Fred Hutchinson Cancer Research Center, Seattle, Washington, United States

15:05-15:15 **ORAL 067** **[POSTER 385]**

Skin cancers in patients with actinic keratoses

C. Mohr[1], Y. Li[1], L. Navsaria[1], C. Hinkston[1], D. Margolis[2], M. Wehner[1]

[1]Health Services Research, The University of Texas MD Anderson Cancer Center, Houston, Texas, United States, [2]University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States

15:15-15:25 **ORAL 068** **[POSTER 450]**

The impact of mental health comorbidities on patient satisfaction: A population study among U.S. adults with skin cancer

C. Read[2, 1, 3], J. F. Apperley[2], S. P. Hettiaratchy[2], A. Armstrong[1]

[1]Dermatology, University of Southern California, Los Angeles, California, United States, [2]Medicine, Imperial College London, London, United Kingdom, [3]Dermatology, University of Washington, Seattle, Washington, United States

15:25-15:35 **ORAL 069** **[POSTER 541]**

Gene set enrichment analysis identifies biological networks associated with skin aging in a large Japanese population: Data from the Nagahama cohort

J. Latreille[3], G. Thorn[1, 2], R. Jdid[3], G. Gendronneau[3], Y. Tabara[4], Y. Harada[5], S. Forestier[3], C. Chelala[1, 2], F. Matsuda[4]

[1]Bioinformatics Unit, Barts Cancer Institute, London, United Kingdom, [2]Queen Mary University of London, London, United Kingdom, [3]IRD, Chanel SAS, PANTIN, Île-de-France, France, [4]Center for Genomic Medicine, Kyoto Daigaku Igaku Kenkyuka Fuzoku Genome Igaku Center, Kyoto, Japan, [5]Research and Technology Development Laboratory, Chanel Kabushiki Kaisha Funabashi Corporate Operations Center, Funabashi, Chiba, Japan

15:35-15:45 **ORAL 070** **[POSTER 421]**

Genotype-phenotype correlation analysis in Japanese patients with pachydermoperiostosis

R. Tanaka[1], H. Niizeki[1], T. Nomura[2], A. Seki[3], S. Narumi[4], K. Nakabayashi[5], K. Yoshida[1]

[1]Dermatology, National Center for Child Health and Development, Tokyo, Japan, [2]Dermatology, Kyoto University, Kyoto, Japan, [3]Orthopaedic Surgery, National Center for Child Health and Development, Tokyo, Japan, [4]Molecular Endocrinology, National Center for Child Health and Development, Tokyo, Setagaya-ku, Japan, 5Maternal-Fetal Biology, National Center for Child Health and Development, Tokyo, Japan

Concurrent Mini-Symposium 5

Genetic Disease, Gene Regulation, and Gene Therapy

Studies on cutaneous gene expression (including genomic based studies) and genetic diseases including gene therapy

THURSDAY, MAY 11, 2023 **13:15 – 15:45** **ROOM E: MOONLIGHT, KEIO PLAZA HOTEL**

Moderators:
Dr. Akiharu Kubo, Dr. Cristina de Guzman Strong, Dr. Edel O'Toole

13:15-13:25 **ORAL 071** **[POSTER 806]**
Results from VIITAL: A phase 3, randomized, intrapatient-controlled trial of an investigational collagen type VII gene–corrected autologous cell therapy, EB-101, for the treatment of recessive dystrophic epidermolysis bullosa (RDEB)
J. Y. Tang[2], M. P. Marinkovich[2, 3], K. Wiss[4], D. McCarthy[5], A. Truesdale[1], A. S. Chiou[2], J. K. McIntyre[4], A. Moore[1], I. Grachev[1]
[1]Abeona Therapeutics Inc, Cleveland, Ohio, United States, [2]Stanford University School of Medicine, Stanford, California, United States, [3]VA Palo Alto Health Care System, Palo Alto, California, United States, [4]University of Massachusetts Chan Medical School, Worcester, Massachusetts, United States, [5]Abeona Therapeutics Inc, Cleveland, Ohio, United States

13:25-13:35 **ORAL 072** **[POSTER 853]**
HMCN1 variants aggravate epidermolysis bullosa phenotype
S. Bergson[1, 2], O. Sarig[1], A. Nitzan[2], S. Hainzl[3], T. Kocher[3], M. Giladi[1, 2], J. Illmer[3], J. Mohamad[1, 2], E. Geller[1, 2], K. Malovitski[1, 2], Y. Feller[1, 2], N. Eretz Kdosha[1], R. Zauner[3], J. Pinon Hofbauer[3], R. Shalom-Feuerstein[4], V. Wally[3], U. Koller[3], R. Zaidel-Bar[2], L. Samuelov[1, 2], E. Sprecher[1, 2]
[1]Tel Aviv Medical Center, Tel Aviv, Israel, [2]Tel Aviv University, Tel Aviv, Israel, [3]Paracelsus Medical University, EB House Austria, Salzburg, Austria, [4]Technion Israel Institute of Technology, Haifa, Israel

13:35-13:45 **ORAL 073** **[POSTER 849]**
Twin prime editing for restoring type VII collagen expression in primary recessive dystrophic epidermolysis patient cells
M. Osborn, B. Steinbeck, A. N. McElroy, J. Tolar
Pediatrics, University of Minnesota Twin Cities, Minneapolis, Minnesota, United States

13:45-13:55 **ORAL 074** **[POSTER 884]**
Reproducible correction of COL7A1 nonsense variants with ABE8e adenine base editor
J. K. Jackow[1], A. Sheriff[1], I. Guri[1], I. Brooks[1], M. Dimitrievska[1], G. Newby[2], D. Liu[2], L. Laczmanski[3], J. A. McGrath[1]
[1]St John's Institute of Dermatology, King's College London, London, United Kingdom, [2]Merkin Institute of Transformative Technologies in Healthcare, Broad Institute of Harvard and MIT, Cambridge, Massachusetts, United States, [3]Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wroclaw, Poland

13:55-14:05 **ORAL 075** **[POSTER 875]**
ELX-02 suppress premature stop mutations and restores type VII collagen and laminin 332 function in RDEB and JEB
Y. Hou[1], X. Tang[1], L. Bainvoll[1], S. Aghamohammadzadeh[2], M. Chen[1]
[1]Dermatology, University of Southern California, Los Angeles, California, United States, [2]Eloxx Pharmaceuticals, Watertown, Massachusetts, United States

14:05-14:15 **ORAL 076** **[POSTER 861]**
CTSZ pathogenic variants affect EGFR expression and cause autosomal dominant palmoplantar keratoderma
K. Malovitski[1, 2], O. Sarig[1], Y. Feller[1, 2], S. Bergson[1, 2], S. Assaf[1, 2], J. Mohamad[1, 2], M. Pavlovsky[1], M. Giladi[2, 3], E. Sprecher[1, 2]
[1]Division of Dermatology, Tel Aviv Medical Center, Tel Aviv, Israel, [2]Tel Aviv University Sackler Faculty of Medicine, Tel Aviv, Israel, [3]Department of Internal Medicine D, Tel Aviv Medical Center, Tel Aviv, Israel

14:15-14:25 **ORAL 077** **[POSTER 807]**
Alternative mRNA splicing regulates epidermal differentiation
S. Takashima[1, 3], W. Sun[2], A. Otten[1], P. Cai[2], J. Bui[1], M. Mai[1], O. Amarbayar[1], B. Cheng[1], E. Tong[1], Z. Li[2], K. Qu[2], B. Sun[1]
[1]Department of Dermatology, University of California San Diego, La Jolla, California, United States, [2]Division of Molecular Medicine, University of Science and Technology of China, Hefei, Anhui, China, [3]Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Hokkaido, Japan

14:25-14:35 **ORAL 078** **[POSTER 812]**
Regulation of keratinocyte proliferation and differentiation by nucleoporins through nucleocytoplasmic trafficking and direct chromatin binding
X. Bao, A. Neely, Y. Zhang, H. Zhang
Northwestern University, Evanston, Illinois, United States

14:35-14:45 **ORAL 079** **[POSTER 864]**
Homologous recombination is prevalent in normal keratinocytes *in vivo* in mice
G. Egawa, K. Kabashima
Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan

Continued on next page.

Concurrent Mini-Symposium 5 - *Continued*

THURSDAY, MAY 11, 2023 **13:15 – 15:45** **ROOM E: MOONLIGHT, KEIO PLAZA HOTEL**

14:45-14:55 **ORAL 080** **[POSTER 840]**

Excess klhl24 impairs skin wound healing by degradation of vimentin

Y. Liu[1], J. Cui[2], J. Zhang[2], Z. Chen[1], Z. Song[1], D. Bao[1], R. Xiang[1], D. Li[1], Y. Yang[1]

[1]Affiliated Hospital for Skin Diseases of Chinese Academy of Medical Sciences, Nanjing, Jiangsu, China, [2]Peking University First Hospital, Beijing, China

14:55-15:05 **ORAL 081** **[POSTER 860]**

Fragile WWOX gene maintains genome integrity in fibroblasts

H. Cheng[2], Y. Chou[3], C. Hsu[2], L. Hsu[1]

[1]Department of Medical Laboratory Science and Biotechnology, National Cheng Kung University College of Medicine, Tainan, Taiwan, [2]Department of Dermatology, National Cheng Kung University College of Medicine, Tainan, Taiwan, [3]Institute of Basic Medical Sciences, National Cheng Kung University College of Medicine, Tainan, Taiwan

15:05-15:15 **ORAL 082** **[POSTER 882]**

Enhancer RNA (eRNA) profiling to understand transcription regulation in keratinocytes

M. T. Patrick, M. Sarkar, Z. Zhang, H. Zhang, J. T. Elder, J. Gudjonsson, L. C. Tsoi

University of Michigan, Ann Arbor, Michigan, United States

15:15-15:25 **ORAL 083** **[POSTER 877]**

Loss of UBE2N in keratinocytes leads to skin inflammation and immune infiltration through IRAK1/4-mediated processes

M. Lee[1, 2], M. Ben Hammouda[1], W. Miao[1], Y. J. Jin[1], Y. Huang[1], H. Sun[1], V. Markovtsov[3], J. Y. Zhang[1]

[1]Dermatology, Duke University School of Medicine, Durham, North Carolina, United States, [2]Molecular Genetics and Microbiology, Duke University School of Medicine, Durham, North Carolina, United States, [3]Rigel Pharmaceuticals Inc, South San Francisco, California, United States

15:25-15:35 **ORAL 084** **[POSTER 808]**

Seizures in Sturge-Weber syndrome are associated with disrupted calcium metabolism

D. Zecchin[1, 2], N. Knoepfel[1, 2, 3], A. K. Gluck[4], M. Stevenson[4], H. Richardson[3], S. Polubothu[2, 3], A. Inoue[5], K. Lines[4], A. Chesover[3], T. Jacques[3, 2], F. Hannan[4], U. Loebel[3], R. Semple[6], R. V. Thakker[4], V. A. Kinsler[1, 2, 3]

[1]The Francis Crick Institute, London, London, United Kingdom, [2]University College London, London, London, United Kingdom, [3]Great Ormond Street Hospital for Children NHS Foundation Trust, London, London, United Kingdom, [4]University of Oxford, Oxford, Oxfordshire, United Kingdom, [5]Tohoku Daigaku, Sendai, Miyagi, Japan, [6]University of Edinburgh, Edinburgh, United Kingdom

15:35-15:45 **ORAL 085** **[POSTER 841]**

A vitiligo-associated SNP (rs706779) controls IL15RA isoforms and T cell activation in epidermal keratinocytes

K. Okamura[1, 2], S. Shan[3], Q. Tang[1, 4], P. Vangala[3], X. Fan[1], C. Salomão Lopes[3], Y. Cao[3], W. Ko[3], T. Suzuki[2], A. Khvorova[4], M. Garber[3], J. E. Harris[1]

[1]Department of Dermatology, University of Massachusetts Chan Medical School, Worcester, Massachusetts, United States, [2]Department of Dermatology, Faculty of Medicine, Yamagata University, Yamagata, Japan, [3]Department of Bioinformatics and Computational Biology, University of Massachusetts Chan Medical School, Worcester, Massachusetts, United States, [4]RNA Therapeutics Institute, University of Massachusetts Chan Medical School, Worcester, Massachusetts, United States

Concurrent Mini-Symposium 6

Tissue Regeneration and Wound Healing

Wound healing and regeneration studies; processes/signaling that regulate vascular development and angiogenesis; interactions between different skin components that contribute to the functional process of wound healing or tissue regeneration.

THURSDAY, MAY 11, 2023 **13:15 – 15:45** **ROOM F: HARMONY, KEIO PLAZA HOTEL**

Moderators:
Dr. Sung-Jan Lin, Dr. Xiomin Bao, Dr. Kaisa Tasanen

13:15-13:25 **ORAL 086 [POSTER 1512]**
Combined transcriptome and epigenome profiling reveal regulators of dermal fibroblast state switch
T. Kirk, A. Ahmed, J. Connelly, E. Rognoni
Queen Mary University of London, London, United Kingdom

13:25-13:35 **ORAL 087 [POSTER 1448]**
Ligand-dependent Wnt signaling attenuates mechanotransduction and protects against wound occlusion-mediated abolishment of hair follicle regeneration
A. S. Oak, Y. Zheng, A. Nace, R. Yang, A. Ray, G. Cotsarelis
Department of Dermatology, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States

13:35-13:45 **ORAL 088 [POSTER 1478]**
TEM1/endosialin/CD248 promotes pathologic scarring by augmenting TGF-β activity through its receptor stability in dermal fibroblasts
Y. Hong[1, 2, 4], Y. Lin[1, 2], Y. Chang[1], Y. Huang[1], J. A. McGrath[1, 6], H. Wu[2, 3, 4], C. Hsu[1, 2, 5]
[1]Department of Dermatology, National Cheng Kung University, Tainan, Taiwan, [2]International Center for Wound Repair and Regeneration (iWRR), National Cheng Kung University, Tainan, Taiwan, [3]Department of Biochemistry and Molecular Biology, National Cheng Kung University, Tainan, Taiwan, [4]The Institute of Basic Medical Sciences, National Cheng Kung University, Tainan, Taiwan, [5]Institute of Clinical Medicine, National Cheng Kung University, Tainan, Taiwan, [6]St John's Institute of Dermatology, School of Basic and Medical Biosciences, King's College London, London, London, United Kingdom

13:45-13:55 **ORAL 089 [POSTER 1475]**
Single cell RNA-seq reveals cell-type specific circadian regulations in the mouse dermis
J. Duan[1], M. Ngo[1], S. Karri[2], J. Lowengrub[1], B. Shahbaba[1], B. Andersen[2]
[1]Center for Complex Biological Systems, University of California Irvine, Irvine, California, United States, [2]Department of Biological Chemistry, University of California Irvine, Irvine, California, United States

13:55-14:05 **ORAL 090 [POSTER 1480]**
CXCR4 expression by regulatory T cells promotes cutaneous tissue regeneration
J. Cohen, M. Rosenblum
Dermatology, University of California San Francisco, San Francisco, California, United States

14:05-14:15 **ORAL 091 [POSTER 1518]**
Identification of gene products from staphylococcus aureus that inhibit keratinocyte migration and wound repair
M. D. Bagood[1], A. Horswill[2], R. L. Gallo[1]
[1]Dermatology, University of California San Diego, La Jolla, California, United States, [2]Immunology & Microbiology, University of Colorado Anschutz Medical Campus School of Medicine, Aurora, Colorado, United States

14:15-14:25 **ORAL 092 [POSTER 1493]**
Dynamic changes in fibroblast subpopulations drives development of radiation-induced skin fibrosis through the fra/c-jun pathway
D. C. Wan, M. Griffin, C. E. Berry, M. T. Longaker
Surgery, Stanford University School of Medicine, Stanford, California, United States

14:25-14:35 **ORAL 093 [POSTER 1520]**
Tissue mechanics driven symmetry breaking and cellular reprogramming during regenerative wound healing
H. Harn[1], C. Huang[1, 2, 3], C. Chen[1, 4], A. Sarkar[5], B. Van Handel[5], T. E. Woolley[6], D. Evseenko[5], C. Chuong[1]
[1]Pathology, Keck School of Medicine, University of Southern California, Los Angeles, California, United States, [2]Ostraw School of Dentistry, University of Southern California, Los Angeles, California, United States, [3]Division of Cardiovascular Surgery, Department of Surgery, Tri-Service General Hospital, National Defense Medical Center, Taipei, Taiwan, [4]The IEGG and Animal Biotechnology Center, National Chung Hsing University, Taichung, Taiwan, [5]Orthopaedic Surgery, Keck School of Medicine, University of Southern California, Los Angeles, California, United States, [6]Cardiff University School of Mathematics, Cardiff, United Kingdom

14:35-14:45 **ORAL 094 [POSTER 1541]**
Co-transcription factors YAP and TAZ regulate dermal extracellular matrix homeostasis and scar formation in mouse skin
A. Ermilov, Z. Qin, A. Kim, T. Quan, J. J. Voorhees, G. J. Fisher
Dermatology, University of Michigan, Ann Arbor, Michigan, United States

14:45-14:55 **ORAL 095 [POSTER 1453]**
LncRNA SNHG26 facilitates inflammatory to proliferative state transition of keratinocyte progenitors during wound healing
D. Li[1, 2], Z. Liu[2], L. Zhang[2], X. Bian[2], J. Wu[3], L. Li[1], L. Pan[1], Y. Xiao[1], J. Wang[1], X. Zhang[1], W. Wang[4], M. Toma[2], M. Piipponen[2], L. Luo[2], P. Sommar[2], N. Xu Landén[2]
[1]Affiliated Hospital for Skin Diseases of Chinese Academy of Medical Sciences, Nanjing, Jiangsu, China, [2]Karolinska Institutet, Stockholm, Stockholm, Sweden, [3]Wenzhou Medical University, Wenzhou, Zhejiang, China, [4]East China Normal University, Shanghai, Shanghai, China

Continued on next page.

Concurrent Mini-Symposium 6 - *Continued*

THURSDAY, MAY 11, 2023 **13:15 – 15:45** **ROOM F: HARMONY, KEIO PLAZA HOTEL**

14:55-15:05 **ORAL 096 [POSTER 1506]**

Multimodal transcriptomics highlight fibroblast heterogeneity and pathological signaling networks in keloid

Y. Liu[1, 2], C. F. Guerrero-Juarez[2], Q. Nie[2], J. Li[1], M. Plikus[2]

[1]Xiangya Hospital Central South University, Changsha, Hunan, China, [2]University of California Irvine School of Biological Sciences, Irvine, California, United States

15:05-15:15 **ORAL 097 [POSTER 1519]**

Topical type VII collagen increased elastic fiber formation, accelerated wound closure and reduced scarring of diabetic pigskin wounds

D. Woodley, Y. Hou, X. Tang, C. Tan, K. Zhang, L. Bainvoll, W. Li, M. Chen

Dermatology, University of Southern California, Los Angeles, California, United States

15:15-15:25 **ORAL 098 [POSTER 1500]**

FoxO3a-regulating mitochondrial dynamics affects wound healing through regulating fibroblast migration

S. Goto[1], M. Moriyama[2], M. Wakatake[3], Y. Miyake[1], H. Moriyama[1]

[1]Kinki Daigaku, Higashiosaka, Osaka, Japan, [2]Kinki Daigaku, Higashiosaka, Osaka, Japan, [3]Kinki Daigaku, Higashiosaka, Osaka, Japan

15:25-15:35 **ORAL 099 [POSTER 1507]**

MCSP+ pericytes on the dermal capillary loop as a potential source for epidermal stem/ progenitor cells and their reduction with age

M. Sawane, T. Tsutsui, M. Komata, R. Kami, H. Aoki, K. Kajiya

MIRAI Technology Institute, Shiseido Co., Ltd, Yokohama, Japan

15:35-15:45 **ORAL 100 [POSTER 1455]**

Identification and characterization of specific subsets in systemic sclerosis fibroblast cultures

A. S. Rosendahl[1], K. Schönborn[1], N. Kleinenkuhnen[2], T. Baar[2], A. Tresch[2], B. Eckes[1], P. Moinzadeh[3], T. Krieg[1]

[1]Translational Matrix Bioogy, Faculty of Medicine, Universitat zu Koln, Koln, Nordrhein-Westfalen, Germ any, [2]Institute of Medical Statistics and Computational Biology, Universitat zu Koln, Koln, Nordrhein-Westfalen, Germany, [3]Department of Dermatology, Universitat zu Koln, Koln, Nordrhein-Westfalen, Germany

ESDR Rudi Cormane Lecture

Deciphering Pathways in the Syndromic Keratodermas: Insights into Oesophageal Cancer

THURSDAY, MAY 11, 2023 **15:55 – 16:25** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Introduction by:
Dr. Sabine Eming

David Kelsell, PhD/BSc
Queen Mary University or London, London, UK

My research largely focuses on the molecular mechanisms underlying inherited non-syndromic and syndromic skin disease including in the palmoplantar keratodermas and the ichthyoses. This has led to key scientific findings not only in skin biology but in hearing loss, cardiomyopathy and oesophageal cancer. These cross-clinical disciplinary human studies are providing novel insights into disease and their underlying cellular mechanisms. In addition to human biopsy material, we have developed model systems to provide new biology and insights into disease of the naturally stressed palm/sole skin, the heart and the oesophagus.

I am based within the Blizard Institute in the Faculty of Medicine and Dentistry at Queen Mary University of London (https://www.qmul.ac.uk/blizard/all-staff/profiles/david-kelsell.html). I was awarded the Chanel-CERIES award research award in 2016, ESPD Schnyder Memorial Prize Lecture in 2018 plus past President (2018-2019; first non-clinical president) of the European Society of Dermatological Research.

LECTURESHIP HISTORY

The Rudi Cormane Lecture is ESDR's most prestigious lecture. It is given by an internationally recognized individual who has made a significant contribution to the ESDR and who has carried out high quality science relevant to dermatology. Prof Rudi Cormane (1925-1987) was a founding member of the ESDR as well as serving as its Treasurer and President.

Sanofi K. K. Symposium

THURSDAY, MAY 11, 2023 **16:30 – 18:00** **ROOM B: EMINENCE HALL, KEIO PLAZA HOTEL**

Skin Barrier, Neuroimmune Axis, and Type 2 Inflammation in Atopic Dermatitis: Research breakthroughs leading to therapeutic innovations for patients with atopic dermatitis

CHAIR:
Masayuki Amagai, MD/PhD, Professor, Department of Dermatology, Graduate School of Medicine, Keio University, Tokyo, JAPAN

Role of Type 2 Inflammation in Chronic Inflammatory Diseases

Constance Katelaris, MBBS PhD FRACP, Professor, Immunology & Allergy, University of Western Sydney, Head of Unit and Senior Staff Specialist at Campbelltown Hospital, Sydney, AU. Dr. Katelaris is a leader in the field of allergy and immunology and has held various executive positions on international and regional boards, including the World Allergy Organization board, past president of the Asian Pacific Association of Allergology, Asthma and Clinical Immunology and the Australasian Society of Clinical Immunology and Allergy. She is the convenor of the Graduate Certificate in Allergic Diseases, the first postgraduate course in the Faculty of Medicine, at Western Sydney University. Her research focuses on conditions driven by type 2 inflammation, and she has participated in clinical trials of new treatments for asthma, urticaria, angioedema, and atopic dermatitis.

Importance of Skin Barrier Dysfunction in Driving AD Pathophysiology

Lisa A. Beck, MD, Professor, Carol & Lowell Goldsmith Professor of Dermatology, Professor, Allergy/Immunology and Rheumatology and Pathology, University of Rochester Medical Center, New York, USA. Dr. Beck was instrumental in the development of the first biologic drug, dupilumab, for the treatment of adults with moderate-to-severe atopic dermatitis. She has received NIH funding since 1994 to study allergic inflammation, epithelial barrier function in hopes of better understanding of why AD patients are susceptible to bacterial and viral infections. She has published over 140 research papers, 15 chapters or review articles, 11 editorials and holds two patents. She is part of the NIAID-funded AD Research Network. Her work has been recognized by numerous awards including honorary memberships (ADA and Collegium Internationale Allergologicum) and numerous named lectureships.

Connection Between Type 2 Inflammation and the Neuroimmune Mechanisms and Pruritus in AD

Tilo Biedermann, MD, Professor, Dermatology and Allergology, TUM School of Medicine, Munich, DE. Dr. Biedermann is a renowned dermatologist and allergologist who has received multiple awards and has given several prestigious lectures. He is currently the chairman at TUM School of Medicine and has served as president of the European Society of Dermatological Research (ESDR) and the German Dermatological Society (DDG). Prof. Biedermann's research focuses on the connection between type 2 inflammation and the neuroimmune mechanisms and pruritus in atopic dermatitis. He has published in several high-ranking peer-reviewed journals and leads several basic research projects funded by the German Research Foundation.

sanofi

Select ePoster Discussions, Session 1

Adaptive and Auto-Immunity 1 & 2

Studies of adaptive immune responses involving T and B lymphocytes, dendritic cells, other antigen presenting cells, and antigen processing and presentation; Basic and pre-clinical experimental studies focused on autoimmunity.

THURSDAY, MAY 11, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #1**

Moderators:
Dr. Hayato Takahashi, Dr. Sam Hwang, Dr. Manuela Pigors

#037
The intra-niche activation of clonal CXCL13+CD4+ T cells in tertiary lymphoid structures associated with non-healing blisters of pemphigus
A. Lee[1, 2], D. Han[1, 2], T. Kim[1, 2], S. Min[1, 2], H. Kim[1, 2], D. Kim[1, 3], S. Kim[1], J. Kim[1, 2]
[1]Dermatology and Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seodaemun-gu, Seoul, Korea (the Republic of), [2]Gangnam Severance Hospital, Seoul, Korea (the Republic of), [3]Severance Hospital, Seodaemun-gu, Seoul, Korea (the Republic of)

#064
CD301b+ dermal dendritic cells drive activation of cytotoxic T lymphocytes in a murine contact dermatitis
F. Minami[1], R. Asahina[1], S. Ono[1], T. Honda[2], G. Egawa[1], S. Nakamizo[1], K. Kabashima[1]
[1]Kyoto Daigaku, Kyoto, Japan, [2]Hamamatsu Ika Daigaku, Hamamatsu, Shizuoka, Japan

#003
Memory B cells of atopic individuals preferentially express IL-31RA: a putative role of IL-31 in B cell biology
Z. Unger[1], C. Gomez-Casado[1], A. van Lierop[1], G. Pongratz[2], D. Bleck[2], B. Homey[1]
[1]Dermatology, Universitatsklinikum Dusseldorf, Dusseldorf, Nordrhein-Westfalen, Germany, [2]Hiller Research Center Rheumatology, Universitatsklinikum Dusseldorf, Dusseldorf, Nordrhein-Westfalen, Germany

#070
Impact of autoantibodies on atopic dermatitis
T. Hisamoto[1], H. Kotani[1], K. M. Matsuda1, K. Yamaguchi[2], N. Goshima[2], S. Sato[1], A. Yoshizaki[1]
[1]Tokyo Daigaku, Bunkyo-ku, Tokyo, Japan, [2]ProteoBridge Corporation, Tokyo, Japan

#121
Pharmacological inhibition of the neonatal Fc receptor reduces disease activity in an antibody transfer-induced model of bullous pemphigoid
M. Pigors[1], S. Patzelt[1], S. Khil'chenko[1], M. Kamaguchi[1], S. Emtenani[1], K. Vanderheyden[2], B. Balbino[2], K. Bieber[1], R. J. Ludwig[1], P. Verheesen[2], E. Schmidt[1]
[1]Universitat zu Lubeck, Lubeck, Schleswig-Holstein, Germany, [2]argenx BV, Zwijnaarde, Belgium

#168
TLR7-VGLL3 synergism potentiates lupus-like autoimmunity in mice
O. Plazyo[1], K. Young[1], A. Billi[1], M. Gharaee-Kermani[1, 2], R. Wasikowski[1], L. Tsoi[1], J. M. Kahlenberg[1, 2], J. Gudjonsson[1]
[1]Dermatology, University of Michigan, Ann Arbor, Michigan, United States, [2]Internal Medicine, Division of Rheumatology, University of Michigan Michigan Medicine, Ann Arbor, Michigan, United States

#056
IKZF1 and IKAROS overexpression contributes to the pathogenesis of alopecia areata
Y. Arakawa[1, 3], R. Tamagawa-Mineoka[1], M. Nakanishi[1], H. Nishigaki[1], M. Y. Ueta[2], N. Katoh[1]
[1]Dermatology, Kyoto Furitsu Ika Daigaku, Kyoto, Japan, [2]Ophthalmology, Kyoto Furitsu Ika Daigaku, Kyoto, Japan, [3]Dermatology, Kyoto Furitsu Ika Daigaku Fuzoku Hokubu Iryo Center, Yosa-gun, Kyoto, Japan

#039
Inhibitory effect on skin fibrosis by regulating Th17 and regulatory T cell imbalance in a systemic sclerosis mouse model and the involvement of alteration in the intestinal microbiota
A. Sekiguchi[1], C. Shimokawa[2], T. Kato[3], H. Hisaeda[2], H. Ohno[3], S. Motegi[1]
[1]Dermatology, Gunma Daigaku Daigakuin Igakukei Kenkyuka Igakubu, Maebashi, Gunma, Japan, [2]Parasitology, Kokuritsu Kansensho Kenkyujo, Shinjuku-ku, Tokyo, Japan, [3]RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, Japan

#014
Sex as a variable in the composition of skin residing T cells
H. Koguchi-Yoshioka[1, 2], E. Zhuravleva[1, 3], W. Zheng[1, 3], E. Hoffer[1, 3], J. Kärner[1], A. O. Gadsboll[3], J. Coquet[3, 4], S. Nylén[4], M. Ehrström[5, 6], J. Gahm[5], L. Eidsmo[1, 3]
[1]Division of Rheumatology, Department of Medicine, Solna, Karolinska Institutet, Solna, Sweden, [2]Department of Dermatology, Course of Integrated Medicine, Graduate School of Medicine, Osaka University, Suita, Osaka, Japan, [3]LEO Foundation Skin Immunology Research Center, Kobenhavns Universitet, Kobenhavn, Denmark, [4]Department of Microbiology, Tumor and Cell Biology, Karolinska Institutet, Solna, Sweden, [5]Department of plastic surgery and craniofacial surgery, Karolinska Institutet, Solna, Sweden, [6]Plastic Surgery, Nordiska Kliniken, Stockholm, Sweden

Continued on next page.

Select ePoster Discussions, Session 1

Adaptive and Auto-Immunity 1 & 2 - *Continued*

THURSDAY, MAY 11, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #1**

#073

Arteriosclerosis derived from cutaneous inflammation is ameliorated by the deletion of IL-17A or IL-17F

T. Nakanishi, S. Iida, Y. Matsushima, K. Mizutani, Y. Nakayama, K. Sugioka, M. Nishimura, A. Umaoka, M. Kondo, K. Habe, K. Yamanaka

Department of Dermatology, Mie University Graduate School of Medicine, Japan, Tsu, Japan

#166

Granzyme K stimulates a novel pathway of complement activation

E. Theisen[1, 2], C. Donado[2, 3], A. Jonsson[2], R. Clark[2], M. Brenner[2, 3]

[1]Havard Combined Dermatology Residency Program, Boston, Massachusetts, United States, [2]Brigham and Women's Hospital, Boston, Massachusetts, United States, [3]Harvard Medical School, Boston, Massachusetts, United States

#079

Generation and characterization of the Psmb8 G201V mutation knock-in mice as a model for Nakajo-Nishimura syndrome

T. Hara[1], T. Kato[2], J. Hamazaki[3], A. Kinoshita[4], Y. Inaba[1], I. Sasaki[2], K. Yoshiura[4], M. Jinnin[1], T. Kaisho[2], N. Kanazawa[1, 5]

[1]Dermatology, Wakayama Kenritsu Ika Daigaku, Wakayama, Japan, [2]Department of Immunology, Institute of Advanced Medicine, Wakayama Kenritsu Ika Daigaku, Wakayama, Japan, [3]Laboratory of Protein Metabolism, Graduate School of Pharmaceutical Sciences, Tokyo Daigaku, Bunkyo-ku, Tokyo, Japan, [4]Department of Human Genetics, Atomic Bomb Disease Institute, Nagasaki Daigaku, Nagasaki, Japan, [5]Department of Dermatology, Hyogo Ika Daigaku, Nishinomiya, Hyogo, Japan

#016

Immune competent skin organoids reveal monkeypox dynamics

A. J. Pavlovitch-Bedzyk[1], S. M. Chirieleison[1], H. Koehler[3], C. Kuo[2], M. M. Davis[1]

[1]Immunology, Stanford University, Stanford, California, United States, [2]Hematology, Stanford University School of Medicine, Stanford, California, United States, [3]School of Molecular Biosciences, Washington State University, Pullman, Washington, United States

#053

Conformational epitope mapping of autoantibodies against BP180 in dipeptidyl peptidase-4 inhibitors-associated bullous pemphigoid

S. Mai, K. Izumi, Y. Mai, K. Natsuga, W. Nishie, H. Ujiie

Dermatology, Hokkaido Daigaku Daigakuin Igaku Kenkyuin, Sapporo, Hokkaido, Japan

#075

Cellular subsets and signaling pathways of IgA vasculitis revealed by single-cell RNA sequencing

D. Tie[1], T. Nomura[1, 2], R. Shibuya[3], S. Nakamizo[1], K. Kabashima[1]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, [2]Department of Drug Development for Intractable Diseases, Kyoto University Graduate School of Medicine, Kyoto, Japan, [3]Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York, New York, United States

#170

A shared set of autoantigens is recognized in anti-tumor immunity and autoimmune diseases of the skin

V. Walter, B. Balciunaite, S. Thomä, S. Hofmeister, G. Mroz, F. Wolfsperger, M. Knoll, T. Amaral, U. Leiter-Stöppke, V. Aebischer, S. Forchhammer, M. Schaller, L. Flatz

Eberhard Karls Universitat Tubingen, Tubingen, Baden-Württemberg, Germany

#160

Local precursors are capable of replenishing tissue-resident memory T cells in healthy and diseased skin

E. Hoffer[2, 1], W. Zheng[1, 2], D. Sortebech[2, 1], T. Schoenfeldt[1], S. Papavasileiou[2], B. Zitti[3, 4], R. Agerholm-Nielsen[1], M. Ehrström[5], N. Odum[1], P. Brunner[6], C. Gerlach[2], J. Lysell[7], L. Eidsmo[1, 2]

[1]Department of Microbiology and Immunology, Kobenhavns Universitet, Kobenhavn, Denmark, [2]Department of Medicine Solna, Karolinska Institutet, Stockholm, Sweden, [3]Department of Medicine Hudddinge, Karolinska Institutet, Stockholm, Sweden, [4]Department of Pathology and Immunology, Universite de Geneve, Geneve, Switzerland, [5]Nordiska Kliniken, Stockholm, Sweden, [6]Icahn School of Medicine at Mount Sinai, New York, New York, United States, [7]Department of Dermatology and Venerology, Karolinska Institutet, Stockholm, Sweden

#002

Gene flow from archaic hominins causes psoriasis, ankylosing spondylitis, and Behçet's disease

A. Arakawa[1], C. D. Huber[2], J. C. Prinz[1]

[1]Dermatology, Ludwig-Maximilians-Universitat Munchen, Munich, Bayern, Germany, [2]Biology, The Pennsylvania State University, Pennsylvania, Pennsylvania, United States

Selected ePoster Discussions will take place during Poster Sessions that will occur on Thursday and Friday of the ISID Meeting at iPad kiosks located inside of the Poster Hall at the NS Building. The discussions will be thematic tours of selected electronic posters accompanied by a presenting author. Each poster presenter will be asked to briefly describe their work (3 min), followed by a short group discussion (2 min), and that will be held with the help of a moderator. If your poster has been selected for ePoster Discussions, please join the appropriate group at the relevant ePoster kiosk.

Select ePoster Discussions, Session 1

Clinical Research-Epidemiology and Observational Research 1 & 2

Non-interventional studies of populations or patient cohorts that evaluate, but are not limited to, the natural history of disease, disease burden, co-morbidities, health-related quality of life, and patient-reported outcomes research.

THURSDAY, MAY 11, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #2**

Moderators:
Dr. Young Lee, Dr. Marie-Charlotte Brüggen, Dr. Helmut Schaider, Dr. Howa Yeung

#563
Increased incidence of cutaneous melanoma and merkel cell carcinoma in subgroups of patients with primary cutaneous B-cell lymphoma: A SEER database analysis
L. Banner, D. Joffe, E. Lee, N. Nikbakht
Dermatology and Cutaneous Biology, Thomas Jefferson University, Philadelphia, Pennsylvania, United States

#411
Associations between immune-related diseases and skin cancer: An analysis of the diverse All of US research program
E. M. Lin, S. D. Ragi, I. Moseley, R. K. Lim, A. Qureshi, E. Cho
Dermatology, Brown University Warren Alpert Medical School, Providence, Rhode Island, United States

#475
Skin of color and mucocutaneous ulcers are associated with increased disease severity in anti-NXP2 dermatomyositis patients
C. Bax, G. Molina, D. Fiorentino
Stanford University, Stanford, California, United States

#485
Sleep disturbance impacts physical and psychosocial health of children with atopic dermatitis
C. Mann[2], Z. Ren[1], S. Rangel[1], A. Paller[1]
[1]Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, [2]Dermatology, Johannes Gutenberg Universitat Mainz, Mainz, Rheinland-Pfalz, Germany

#461
Total serum IgE levels as a predictor for clinical response to omalizumab in patients with chronic spontaneous urticaria: A systematic review and meta-analysis
K. Chuang[1], C. Hsu[2], S. Huang[3], H. Chang[4, 5, 6]
[1]Department of General Medicine, Taipei Medical University Hospital, Taipei, Taiwan, [2]Department of Dermatology, Hokkaido Daigaku, Sapporo, Hokkaido, Japan, [3]Department of Medical Research, Taipei Medical University Hospital, Taipei, Taiwan, [4]Department of Dermatology, School of Medicine, College of Medicine, Taipei Medical University, Taipei, Taiwan, [5]Department of Dermatology, Taipei Medical University Hospital, Taipei, Taiwan, [6]Department of Pharmacology, College of Medicine, National Taiwan University, Taipei, Taiwan

#408
Disaggregated analysis of Asian ethnicities reveals disparities in melanoma treatment timeliness
L. S. Fane[1], A. Wei[1], R. Tripathi[2], J. S. Bordeaux[3]
[1]Case Western Reserve University School of Medicine, Cleveland, Ohio, United States, [2]Johns Hopkins Medicine, Baltimore, Maryland, United States, [3]University Hospitals, Cleveland, Ohio, United States

#561
Can systemic levels of BNP predict itch severity?
L. A. Nattkemper, G. Yosipovitch
Dermatology, University of Miami School of Medicine, Miami, Florida, United States

#442
The influence of psoriasis on clinical outcomes following burn Injury
D. Garate, D. Thomas, I. Flores, B. Morgan, G. Golovko, A. El Ayadi, J. Song, S. Wolf
The University of Texas Medical Branch at Galveston School of Medicine, Galveston, Texas, United States

#419
Comparison of topical fluorouracil and cryotherapy in Medicare patients with actinic keratoses: A retrospective cohort study
M. K. Nowakowska[1], Y. Li[2], L. Wheless[3], M. Wehner[2]
[1]Baylor College of Medicine, Houston, Texas, United States, [2]The University of Texas MD Anderson Cancer Center, Houston, Texas, United States, [3]Vanderbilt University Medical Center, Nashville, Tennessee, United States

#565
Assessing postoperative complication risk in patients with pre-existing diabetes mellitus who undergo mohs micrographic surgery
D. Garate, D. Thomas, M. G. Wilkerson
The University of Texas Medical Branch at Galveston School of Medicine, Galveston, Texas, United States

#473
Clinical characteristics and risk of second malignancies of extramammary paget's disease patients in Canada and Japan
F. Al Ghazawi
Dermatology, University of Ottawa, Ottawa, Ontario, Canada

Continued on next page.

Select ePoster Discussions, Session 1

Clinical Research-Epidemiology and Observational Research 1 & 2 - *Continued*

THURSDAY, MAY 11, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #2**

#463

Comorbid conditions associated with alopecia areata: A systematic review and update

S. Ly[1, 2], P. Manjaly[1], K. Kamal[1], A. Shields[1], B. Wafae[1], N. Afzal[1], L. Drake[1], K. Sanchez[1], S. Gregoire[1], G. Zhou[1], A. Mostaghimi[1]

[1]Dermatology, Brigham and Women's Hospital, Boston, Massachusetts, United States, [2]University of Arkansas for Medical Sciences College of Medicine, Little Rock, Arkansas, United States

#513

Zinc dyshomeostasis in patients with bullous pemphigoid and BP180-deficient mice

C. Chu[1, 2], G. Liu[1], J. Wang[1], M. Huang[1], C. Yang[1, 3]

[1]National Cheng Kung University Hospital, Tainan, Taiwan, [2]Institute of Basic Medical Sciences, National Cheng Kung University College of Medicine, Tainan, Taiwan, [3]National Cheng Kung University International Center for Wound Repair and Regeneration, Tainan, Taiwan

#426

Association of stratum corneum and breast milk factors with the development of atopic dermatitis in infancy: A prospective birth cohort study

R. Fukuda[1], K. Pak[2], N. Mochimaru[1], R. Tanaka[1], M. Kiuchi[3], N. Hirata[3], M. Mitsui[4], Y. Ohya[5], K. Yoshida[1, 5]

[1]Department of Dermatology, National Center for Child Health and Development, Tokyo, Japan, [2]Division of Biostatistics, Department of Data Management, Center of Clinical Research and Development, National Center for Child Health and Development, Tokyo, Japan, [3]Pigeon Corporation, Tokyo, Japan, [4]Center for Maternal-Fetal, Neonatal and Reproductive Medicine, National Center for Child Health and Development, Tokyo, Japan, [5]Allergy Center, National Center for Child Health and Development, Tokyo, Japan

#468

Use of calcitonin gene-related peptide monoclonal antibodies in patients with rosacea: An exploratory, comparative case series

T. Sia[1], T. Webb[1], S. Li[1, 2], L. Moskatel[3], A. L. Chang[1]

[1]Dermatology, Stanford Medicine, Stanford, California, United States, [2]Urology, Stanford Medicine, Stanford, California, United States, [3]Neurology and Neurological Sciences, Stanford Medicine, Stanford, California, United States

#392

Hair loss after drug reaction with eosinophilia and systemic symptoms: A multicentric retrospective study

J. Lee[1], D. Yu[2], S. Cho[3], S. Youn[4], O. Kwon[1]

[1]Department of Dermatology, Seoul National University College of Medicine, Seoul, Korea (the Republic of), [2]Department of Dermatology, Konkuk University School of Medicine, Seoul, Korea (the Republic of), [3]Department of Dermatology, Seoul Metropolitan Government Seoul National University Boramae Medical Center, Seoul, Korea (the Republic of), [4]Department of Dermatology, Seoul National University Bundang Hospital, Seongnam, Korea (the Republic of)

#452

Validation of LRINEC score and establishment of novel score in Japanese patients with necrotizing fasciitis

Y. Norimatsu[1, 2, 3], Y. Ohno[3], Y. Norimatsu[4], A. Yoshizaki-Ogawa[2], T. Miyagawa[2], K. Oba[5], S. Sato[2], A. Yoshizaki[2]

[1]Dermatology, Kokusai Iryo Fukushi Daigaku Narita Byoin, Narita, Chiba, Japan, [2]Dermatology, University of Tokyo Graduate School of Medicine, Bunkyo Ku, Tokyo, Japan, [3]Dermatology, JR Tokyo Sogo Byoin, Shibuya-ku, Tokyo, Japan, [4]Dermatology, The Fraternity Memorial Hospital, Sumida-ku, Tokyo, Japan, [5]Department of Biostatistics, School of Public Health, University of Tokyo Graduate School of Medicine, Bunkyo-ku, Tokyo, Japan

Selected ePoster Discussions will take place during Poster Sessions that will occur on Thursday and Friday of the ISID Meeting at iPad kiosks located inside of the Poster Hall at the NS Building. The discussions will be thematic tours of selected electronic posters accompanied by a presenting author. Each poster presenter will be asked to briefly describe their work (3 min), followed by a short group discussion (2 min), and that will be held with the help of a moderator. If your poster has been selected for ePoster Discussions, please join the appropriate group at the relevant ePoster kiosk.

Select ePoster Discussions, Session 1

Tissue Regeneration and Wound Healing/Skin, Appendages, & Stem Cell Biology

Wound healing and regeneration studies; processes/signaling that regulate vascular development and angiogenesis; interactions between different skin components that contribute to the functional process of wound healing or tissue regeneration/Studies on the hair follicle, sebaceous gland, and other skin appendages; developmental biology of skin and hair; roles of stem cells in pre- and post-natal growth and development.

THURSDAY, MAY 11, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #3**

Moderators:
Dr. Doyoung Kim, Dr. Bethany Perez-White, Dr. Hisham Bazzi

#1458
Dissection of the molecular and cellular heterogeneity of dermal fibroblasts in skin fibrosis
A. Ahmed, T. Kirk, L. Forster, E. O'Toole, H. Gupta, E. Rognoni
Queen Mary University of London, London, London, United Kingdom

#1446
RNase L acts as a regeneration suppressor
C. Kirby[1], N. Islam[1], E. Wier[1], M. P. Alphonse[1], E. Sweren[1], G. Wang[1], H. Liu[1], D. Kim[1], A. Li[1], S. Lee[1], Y. Xue[1], S. Reddy[4], L. Miller[1], J. Yu[2], W. Huang[2], J. W. Jones[2], S. Kim[3], M. Kane[2], R. H. Silverman[5], L. A. Garza[1]
[1]Dermatology, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States, [2]Pharmaceutical Sciences, University of Maryland Baltimore, Baltimore, Maryland, United States, [3]Jeonju University, Jeonju, Jeollabuk-do , Korea (the Republic of), [4]Plastic Surgery, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States, [5]Cleveland Clinic, Cleveland, Ohio, United States

#1516
Genetic mouse models and a new pro-lymphangiogenic treatment approach reveal beneficial effects of lymphatic vessel activation in cutaneous wound healing
L. M. Brunner, Y. He, N. Cousin, L. Albin, B. Schmucki, S. Supersaxo, D. Neri, M. Detmar
Eidgenossische Technische Hochschule Zurich, Zurich, Switzerland

#1473
Hippo pathway drives excessive fibrosis in hidradenitis suppurativa
K. R. van Straalen[1, 2], F. Ma[3], M. Calbet[4], M. Gharaee-Kermani[1, 3], R. Wasikowski[1], A. Billi[1], P. Tsou[3], L. C. Tsoi[1], J. Gudjonsson[1]
[1]Dept of Dermatology, University of Michigan Medical School, Ann Arbor, Michigan, United States, [2]Dept of Dermatology, Erasmus University Medical Center, Rotterdam, Netherlands, [3]Div of Rheumatology, Dept of Internal Medicine, University of Michigan Medical School, Ann Arbor, Michigan, United States, [4]R&D Center, Almirall SA, Barcelona, Catalunya, Spain

#1479
The cutaneous ischemia-reperfusion injury-induced pressure ulcer was attenuated in amyotrophic lateral sclerosis mice model via decreased nerve neurons and neuro peptides resulting in suppressing oxidative stress
A. Uchiyama, A. Sekiguchi, S. Motegi
Dermatology, Gunma Daigaku, Maebashi, Gunma, Japan

#1539
A paradigm shift: Inflammatory response in chronic wounds halts progression of healing
A. Sawaya[1], J. Marjanovic[1], R. C. Stone[1], I. Jozic[1], J. Burgess[1], H. Brem[2], H. Lev-Tov[1], R. S. Kirsner[1], M. I. Morasso[3], I. Pastar[1], M. Tomic-Canic[1]
[1]University of Miami School of Medicine, Miami, Florida, United States, [2]RWJBarnabas Health, Newark, New Jersey, United States, [3]National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, United States

#1468
Lymphatic dysfunction affects both collagen degradation and collagen synthesis, leading to a paradoxical reduction in dermal fibrosis
M. Sugaya[1], H. Kusano[2], T. Shiomi[2], W. Nishimura[3], A. Blauvelt[4]
[1]Department of Dermatology, International University of Health and Welfare, Narita, Japan, [2]Department of Pathology, International University of Health and Welfare, Narita, Japan, [3]Department of Molecular Biology, International University of Health and Welfare, Narita, Japan, [4]Oregon Medical Research Center, Portland, Oregon, United States

1511
Macrophages regulate endothelial progenitors' quiescence and self-renewal during homeostasis and cutaneous wound healing via paracrine signaling
S. Sim[2], S. Kaur[1], C. Styke[2], S. Millard[1], A. Blumenthal[2], A. Pettit[1], K. Khosrotehrani[2]
[1]Mater Research Institute The University of Queensland, Brisbane, Queensland, Australia, [2]UQ Frazer Institute, The University of Queensland, Brisbane, Queensland, Australia

#1482
Physical stress reveals stem cell resources in nail
H. Kosumi[1], M. Watanabe[1], T. Seo[1], T. Nohara[1], C. Shiiya[1], H. Kitahata[2], Y. Hong[3, 4], C. Hsu[3, 4, 5], H. Ujiie[1], K. Natsuga[1]
[1]Department of Dermatology, Hokkaido Daigaku Daigakuin Igaku Kenkyuin, Sapporo, Hokkaido, Japan, [2]Chiba Daigaku, Chiba, Japan, [3]National Cheng Kung University Hospital, Tainan, Taiwan, [4]National Cheng Kung University International Center for Wound Repair and Regeneration, Tainan, Taiwan, [5]Institute of Clinical Medicine, College of Medicine, National Cheng Kung University, Tainan, Taiwan

Continued on next page.

Select ePoster Discussions, Session 1

Tissue Regeneration and Wound Healing/Skin, Appendages, & Stem Cell Biology - *Continued*

THURSDAY, MAY 11, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #3**

#1440

DNA dioxygenases Tet2/3 regulate gene promoter accessibility and chromatin topology in lineage-specific loci to control keratinocyte differentiation and hair growth

G. Chen[1], I. Fatima[1], Q. Xu[2], E. Rozhkova[1], M. Fessing[3], A. Mardaryev[3], A. Sharov[1], G. Xu[2,4], V. A. Botchkarev[1]

[1]Dermatology, Boston University, Boston, Massachusetts, United States, [2]Shanghai Institutes Biological Sciences Chinese Academy of Sciences, Shanghai, China, [3]University of Bradford, Bradford, West Yorkshire, United Kingdom, [4]Fudan University, Shanghai, China

#1349

Inducing fate changes at the hair follicle stem cell nice

Z. Lim[1], T. Tien[1,2], C. Clavel[1,2]

*[1]A*STAR Skin Research Labs, Agency for Science Technology and Research, Singapore, Singapore, [2]Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore, Singapore*

#1391

Cell death functions in hair follicle regeneration

G. Mantellato, A. S. Rosendahl, C. Niemann

University of Cologne Center for Molecular Medicine Cologne, Cologne, Nordrhein-Westfalen, Germany

#1428

DKK2 and SOSTDC1 cooperate to initiate the first catagen phase of the hair follicle growth cycle

A. Ho[1,2], M. Xu[1,2], D. Wu[3], G. Loots[4], S. Millar[1,2]

[1]Black Family Stem Cell Institute, Icahn School of Medicine at Mount Sinai, New York, New York, United States, [2]Department of Cell, Developmental and Regenerative Biology, Icahn School of Medicine at Mount Sinai, New York, New York, United States, [3]Pharmacology, Yale School of Medicine, New Haven, Connecticut, United States, [4]Lawrence Livermore National Laboratory, Livermore, California, United States

#1372

Modulation of YBX1 phosphorylation determines epidermal stem cell function

S. Sol[1], K. Todorova[1], S. Iriyama[2], A. Mandinova[1]

[1]MGH/Dermatology, Harvard Medical School, Boston, Massachusetts, United States, [2]Kabushiki Kaisha Shiseido Global Innovation Center, Yokohama, Kanagawa, Japan

#1378

A multi-omics approach to identifying factors involved in hair follicle growth and development

N. Pantelireis[1,2], E. Wang[3], T. Tien[1], A. Ramasamy[1], G. Oguz[1], C. Higgins[2], C. Clavel[1]

[1]Agency for Science Technology and Research, Singapore, Singapore, [2]Imperial College London, London, United Kingdom, [3]National Skin Centre, Singapore, Singapore

#1346

Functional roles of Krox20 (Egr2) in Epithelial Stem Cells

E. Ghotbi[1], E. Tchegnon[1,4], C. Liao[1,5], L. Q. Le[1,2,3]

[1]Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, [2]Hamon Center for Regenerative Science and Medicine, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, [3]Simmons Comprehensive Cancer Center, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, [4]Genetics, Development and Disease Graduate Program, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, [5]Graduate Institute of Medical Sciences, College of Medicine, Taipei Medical University, Taipei, Taiwan

#1413

From force to fate: LINCing cell junctions to nuclear morphology

A. Banerjee[1], J. Ng[1], R. Lim[1], R. Biswas[2], Y. Lee[1], B. E. Burke[1], S. Raghavan[1]

[1]Agency for Science Technology and Research, Singapore, Singapore, [2]University of California San Francisco, San Francisco, California, United States

Selected ePoster Discussions will take place during Poster Sessions that will occur on Thursday and Friday of the ISID Meeting at iPad kiosks located inside of the Poster Hall at the NS Building. The discussions will be thematic tours of selected electronic posters accompanied by a presenting author. Each poster presenter will be asked to briefly describe their work (3 min), followed by a short group discussion (2 min), and that will be held with the help of a moderator. If your poster has been selected for ePoster Discussions, please join the appropriate group at the relevant ePoster kiosk.

Select ePoster Discussions, Session 1

Carcinogenesis and Cancer Genetics/Photobiology/Skin of Color

Studies on the genetics and other causes of cancer as well as mechanisms relevant to metastasis/ Studies on biological, biochemical, and molecular responses to ultraviolet radiation in cells, animals and humans/ Studies of the pathogenesis or treatment of skin diseases that disproportionately affect patients from, or are more severe in their manifestation in, racial/ethnic groups with skin of color; such as keloids, scarring alopecias, disorders of pigmentation, systemic lupus erythematosus, dermatomyositis, among others.

THURSDAY, MAY 11, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #4**

Moderators:
Dr. Jong Hee Lee/Snehlata Kumari, Dr. Nabiha Yusuf, Dr. Beate Lichtenberger

#291
Dysregulation of N⁶-methyladenine DNA methylation as a new epigenetic mechanism in skin tumorigenesis
Y. Cui[1], E. Wilkinson[1], J. Peterson[2], Y. He[1]
[1]Medicine, The University of Chicago, Chicago, Illinois, United States, [2]The College, The University of Chicago, Chicago, Illinois, United States

#271
The invasive niche confers resistance to therapy in basal cell carcinoma
C. Pich, L. Yerly, J. Di Domizio, S. Tissot, M. Gilliet, F. Kuonen
CHUV, Lausanne, Switzerland

#308
Immuno cancer-associated fibroblasts are a major source of cytokines in malignant skin cancer
B. Aschenbrenner[1], A. Forsthuber[1], K. Purkhauser[1], N. Krajic[1], S. Frech[1], A. Soler Cardona[1], P. Petzelbauer[1], M. Kasper[2], B. M. Lichtenberger[1]
[1]Dermatology, Medizinische Universitat Wien, Wien, Austria, [2]Karolinska Institutet, Stockholm, Sweden

#256
Non-canonical control of hedgehog signaling in skin basal cell carcinoma
S. Krantz, R. Iglesias-Bartolome
LCMB, National Cancer Institute, Bethesda, Maryland, United States

#232
Epidermal mutation accumulation in photodamaged skin is associated with skin cancer burden and can be targeted through ablative therapy
H. Wong[1], R. Lee[1, 2], S. Chong[1, 2], S. Kapadia[1], V. Murigneux[3], M. Freeman[2], H. Soyer[2, 4], E. Roy[1], K. Khosrotehrani[1, 2]
[1]Diamantina Institute, University of Queensland, Brisbane, Queensland, Australia, [2]Department of Dermatology, Princess Alexandra hospital, Brisbane, Queensland, Australia, [3]The University of Queensland Institute for Molecular Bioscience, Saint Lucia, Queensland, Australia, [4]The University of Queensland Diamantina Institute, The University of Queensland, Dermatology Research Centre, Brisbane, Queensland, Australia

#236
Visualizing somatic alterations in spatial transcriptomics data of skin cancer
L. Chen[1], D. Chang[1], B. Tandukar[1], D. Deivendran[1], R. Cho[1], J. Cheng[1], B. Bastian[1], A. Ji[2], H. Shain[1]
[1]Dermatology, University of California San Francisco, San Francisco, California, United States, [2]Icahn School of Medicine at Mount Sinai, New York, New York, United States

#235
Distinct biological pathways associated with individual stages of tumor progression in KIT-altered melanoma
E. Everdell, Z. Ji, C. Njauw, H. Tsao
Dermatology, Wellman Center for Photomedicine, Boston, Massachusetts, United States

#293
Acidosis promotes immune escape through the IFN-γ-induced induction of PD-L1 transcription in cancer cells
D. Stowbur[7, 3], P. Knopf[7], S. Hoffmann[7], V. Buchner[7], M. Poxleitner[7], I. Gonzalez-Menendez[2], D. Kramer[6], M. Schaller[1], S. Forchhammer[1], L. Quintanilla-Martinez Fend[2], K. Schulze-Osthoff[3, 6], M. Pagel[4], A. Martins[7, 3], M. Fransen[5], B. Pichler[7, 3], K. Ghoreschi[8], M. Kneilling[7, 3, 1]
[1]Dept. of Dermatology, University of Tübingen, Tübingen, Germany, [2]Dept. of Pathology, University of Tübingen, Tübingen, Germany, [3]Cluster of Excellence iFIT, Tübingen, Germany, [4]Dept. of Cancer Systems Imaging, MD Anderson Cancer Center, Houston, Texas, United States, [5]LUMC, Leiden, Germany, [6]IFIB, University of Tübingen, Tübingen, Germany, [7]Werner Siemens Imaging Center, University of Tübingen, Tübingen, Germany, [8]Charité, Berlin, Germany

#274
Homologous recombination deficiency scores in AK and cSCC are associated with tumor-immune phenotype
J. Thomson[1], E. Healy[3], J. Strid[4], C. Harwood[1], J. Wang[2]
[1]Barts and The London School of Medicine and Dentistry Blizard Institute, London, United Kingdom, [2]Barts Cancer Institute Centre for Molecular Oncology, London, United Kingdom, [3]Department of Dermatopharmacology, University of Southampton Faculty of Medicine, Southampton, United Kingdom, [4]Imperial College London Department of Immunology and Inflammation, London, United Kingdom

Continued on next page.

Select ePoster Discussions, Session 1

Carcinogenesis and Cancer Genetics/Photobiology/Skin of Color - *Continued*

THURSDAY, MAY 11, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #4**

#1178

Mechanisms of type I interferon-mediated UVB sensitivity in human keratinocytes

N. Haddadi[1], K. Afshari[1], Y. Wang[1], S. Sherman[1], M. Garber[1], R. Vleugels[2], M. H. Orzalli[1], M. Rashighi[1]

[1]University of Massachusetts Chan Medical School, Worcester, Massachusetts, United States, [2]Brigham and Women's Hospital Department of Medicine, Boston, Massachusetts, United States

#1170

Investigating the molecular mechanisms of solar urticaria

M. Peake[1], K. Rutter[1, 2], N. Hawkshaw[1], R. Scholey[1], S. Bulfone-Paus[1], M. Farrar[1, 2], L. E. Rhodes[1, 2]

[1]The University of Manchester Faculty of Biology Medicine and Health, Manchester, United Kingdom, [2]Photobiology Unit, Salford Royal Hospital, Salford, United Kingdom

#1175

Impact of low dose UVA radiation on UVB radiation-induced DNA damage and skin carcinogenesis

K. M. Rolfes, M. Pollet, J. Krutmann, T. Haarmann-Stemmann

IUF - Leibniz-Institut fur umweltmedizinische Forschung GmbH, Dusseldorf, Nordrhein-Westfalen, Germany

#1142

The IL-1α stimulated expression of the wrinkle-inducing elastase neprilysin in adult human dermal fibroblasts is mediated via an intracellular signaling axis of ERK/JNK/c-Jun/c-Fos/AP-1

U. C. Pinnawala[1], M. Takada[1], S. Hirano[2], G. Imokawa[1]

[1]Utsunomiya University, Utsunomiya, Tochigi, Japan, [2]TourtVert Co, Ltd., Minoh, Osaka, Japan

#1165

PDT-resistant skin tumor cells secrete CCL2 to induce TAMs recruitment and suppressive tumor microenvironment

Y. Fu[1, 2], J. Zhu[1, 2], J. Tao[1, 2]

[1]Department of Dermatology, Union Hospital, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, Hubei, China, [2]Hubei Engineering Research Center of Skin Disease Theranostics and Health, Wuhan, China

#1310

Characterization of differences in epidermal lipid composition between psoriatic skin of color and white psoriatic skin

R. Haughton, S. Herbert, A. Ji-Xu, F. Patel, M. Cheng, E. Maverakis

Department of Dermatology, University of California Davis, Sacramento, California, United States

#1317

S6K2 is a vulnerability in MAPK-driven acral melanoma

R. Brathwaite[1, 2], J. Villanueva[2, 1]

[1]University of Pennsylvania, Philadelphia, Pennsylvania, United States, [2]Wistar Institute, Philadelphia, Pennsylvania, United States

#1292

Molecular phenotyping of keloid skin samples suggests polar immune dysregulation

J. Bar[1, 2], C. Rothenberg Lausell[1], J. Wasserburg[3], D. Gour[1], Y. Liu[1], Y. Estrada[1], A. Chowdhury[1], P. Taub[3], E. Guttman-Yassky[1]

[1]Dermatology, Icahn School of Medicine at Mount Sinai, New York, New York, United States, [2]Tel Aviv University, Tel Aviv, Israel, [3]Plastic and Reconstructive Surgery, Mount Sinai Health System, New York, New York, United States

#1314

The JAK/STAT signaling pathway: Considerations in the management of hidradenitis suppurativa in skin of color

C. A. Okeke[1], C. Carmona-Rivera[2], C. B. Oliveira[2], M. Kaplan[2], G. Okoye[1], A. Byrd[1]

[1]Department of Dermatology, Howard University College of Medicine, Washington, District of Columbia, United States, [2]National Institute of Arthritis and Musculoskeletal and Skin Diseases Systemic Autoimmunity Branch, Bethesda, Maryland, United States

Selected ePoster Discussions will take place during Poster Sessions that will occur on Thursday and Friday of the ISID Meeting at iPad kiosks located inside of the Poster Hall at the NS Building. The discussions will be thematic tours of selected electronic posters accompanied by a presenting author. Each poster presenter will be asked to briefly describe their work (3 min), followed by a short group discussion (2 min), and that will be held with the help of a moderator. If your poster has been selected for ePoster Discussions, please join the appropriate group at the relevant ePoster kiosk.

Select ePoster Discussions, Session 1

Genetic Disease, Gene Regulation, and Gene Therapy

Studies on cutaneous gene expression (including genomic based studies) and genetic diseases including gene therapy.

THURSDAY, MAY 11, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #5**

Moderators:
Dr. Rei Watanabe, Dr. Rui Yi, Dr. Fernando Larcher

#818
Multi-condition TWAS for inflammatory skin disorders highlights roles of genetic signals in cytokine-stimulated keratinocytes
H. Zhang[1], M. T. Patrick[1], M. Sarkar[1], B. E. Perez White[2], R. Uppala[1], K. He[1], J. T. Elder[1], X. Zhou[1], J. Gudjonsson[1], L. C. Tsoi[1]
[1]University of Michigan, Ann Arbor, Michigan, United States, [2]Northwestern University, Evanston, Illinois, United States

#862
Hedgehog signaling and ENPP1 role in epidermal proliferation and melanin synthesis
M. Pavlovsky[1], A. Peled[1], O. Sarig[1], L. Samuelov[1, 2], E. Sprecher[1, 2], A. Taieb[3, 4], J. Rambert[5], M. Cario[3, 4, 5]
[1]Division of Dermatology, Tel Aviv Medical Center, Tel Aviv, Israel, [2]Tel Aviv University Sackler Faculty of Medicine, Tel Aviv, Israel, [3]INSERM, Bordeaux, France, [4]National Reference Center for Rare Skin Disease, Department of Dermatology, University Hospital Bordeaux, Bordeaux, France, [5]Aquiderm, Bordeaux, France

#903
Utilizing an organoid-based approach for the derivation of genetically corrected keratinocytes and fibroblasts in an induced pluripotent stem cell therapy for skin diseases
M. Pavlova[1], J. C. Flores[1], V. Balaiya[1], P. McGrath[2], K. Carson Butterfield[1], S. McGarvey[1], S. Vieau[1], A. Bruckner[3], I. Kogut[1], D. R. Roop[1], G. Bilousova[1]
[1]Department of Dermatology, University of Colorado Anschutz Medical Campus School of Medicine, Aurora, Colorado, United States, [2]Department of Pediatrics, University of Colorado Anschutz Medical Campus, Aurora, Colorado, United States, [3]Children's Hospital Colorado, Aurora, Colorado, United States

#878
CRISPR/Cas9 targeting an intronic region retrieving protein expression in a compound heterozygous model mice via inducing revertant mosaicism pathways
H. Nguyen[1], Y. Ling[2], K. Natsuga[3], R. Hayashi[1], R. Abe[1], S. Shinkuma[1, 4]
[1]Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, [2]Medical AI Center, Niigata University Graduate School of Medical and Dental Science, Niigata, Japan, [3]Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, Japan, [4]Dermatology, Nara Medical University, Kashihara, Japan

#803
Editing a missense to a nonsense keratin 9 gene mutation restores intermediate filament integrity
T. Trafoier[1], D. Ortner-Tobider[1], S. Hainzl[2], T. Kocher[2], U. Koller[2], J. Bauer[2], M. Rhiel[3], G. Andrieux[4], T. Cornu[3], T. Cathomen[3], J. Reichelt[5], C. Heufler Tiefenthaler[1], M. Schmuth[1]
[1]Dermatology, Medizinische Universitat Innsbruck, Innsbruck, Tirol, Austria, [2]EB House, Paracelsus Medizinische Privatuniversitat, Salzburg, Salzburg, Austria, [3]Institute for Transfusion Medicine and Gene Therapy, Universitatsklinikum Freiburg, Freiburg, Baden-Württemberg, Germany, [4]Institut of Medical Bioinformatics and Systems Medicine (IBSM), Universitatsklinikum Freiburg, Freiburg, Baden-Württemberg, Germany, [5]Dermatology, Hamad Medical Corporation, Doha, Ad Dawhah, Qatar

#899
Phenotypic and genomic characterization of eight patients with patterned cutaneous hypopigmentation associated with extracutaneous findings
Z. Cai[1], P. Campeau[2], D. Marcoux[2]
[1]Stanford University, Stanford, California, United States, [2]Centre Hospitalier Universitaire Sainte-Justine, Montreal, Quebec, Canada

#825
Basement membrane proteins in NF1-associated neurofibroma extracellular matrix characterize tumor development and treatment response to MEK inhibitor
C. Jiang, T. Shipman, Y. Wang, R. McKay, L. Q. Le
Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States

Selected ePoster Discussions will take place during Poster Sessions that will occur on Thursday and Friday of the ISID Meeting at iPad kiosks located inside of the Poster Hall at the NS Building. The discussions will be thematic tours of selected electronic posters accompanied by a presenting author. Each poster presenter will be asked to briefly describe their work (3 min), followed by a short group discussion (2 min), and that will be held with the help of a moderator. If your poster has been selected for ePoster Discussions, please join the appropriate group at the relevant ePoster kiosk.

FRIDAY
MAY 12, 2023

Young Investigator Collegiality Event

FRIDAY, MAY 12, 2023 **19:50 – 21:50** **CÉ LA VI TOKYO (18TH FLOOR OF TOKYU PLAZA SHIBUYA) TOKYO, JAPAN**

The organizers of the ISID are pleased to provide an opportunity for "younger" attendees of the ISID 2023 Meeting to enjoy an evening at CÉ LA VI, a luxury dining, bar and club lounge complex spread across the 18th floor of the revamped Tokyu Plaza Shibuya. Overlooking Shibuya Crossing (the world's busiest pedestrian crossing, with as many as 3,000 people crossing at a time), the ISID event promises to bring together attendees from all over the world to meet, network, and enjoy camaraderie throughout the evening. Food and beverage will be provided at this event.

This party is a ticketed event and the cost to attend is $25 per person. Preference will be given to delegates who are under 45 years of age and who have participated in one of the member society's Resident Retreats or Future Leaders programs. Those attending the event are responsible for their own transportation. Check with the ISID Registration desk and ISID website for ticket availability.

SPONSORED BY

LEO FOUNDATION

ISID Member Organizations

General Assemblies/Business Meetings

FRIDAY, MAY 12, 2023	07:00 – 08:00	ROOM DETAILS BELOW, KEIO PLAZA HOTEL

JSID General Assembly – Room B (Eminence Hall)

SID Business Meeting – Room C (Nishiki)

ESDR General Assembly – Room D (Ohgi)

TSID General Assembly – Room E (Moonlight)

ASA 2023 Research Achievement Awards Presentation

FRIDAY, MAY 12, 2023 **07:45 – 08:00** **ROOM C:NISHIKI, KEIO PLAZA HOTEL**

2023 David Martin Carter Mentor Award

2023 George W. Hambrick Award

2023 Research Achievement Award in Autoimmune and Inflammatory Skin Disorders

2023 Research Achievement Award in Skin Cancer and Melanoma

2023 Research Achievement Award in Psoriasis

2023 Research Achievement Award in Vitiligo and Pigment Cell Disorders

2023 Research Achievement Award in Public Policy and Medical Education

2023 Research Achievement Award in Discovery

2023 Research Achievement Award in Translational Research

For more information, contact Kathleen Reichert at kathleen@americanskin.org or Kristin Ludl at kristin@americanskin.org

335 Madison Avenue, 22nd Floor, New York, NY 10017 212.889.4858 americanskin.org

American Skin Association

Plenary Session 3

FRIDAY, MAY 12, 2023 **08:10 – 09:10** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Moderators:
Dr. Hsin-Su Yu, Dr. Jeffrey Travers, Dr. Enikö Sankoly

08:10-08:22 **ORAL 101 [POSTER 025]**

Interstitial lung disease based on autoimmunity against melanoma differentiation-associated gene 5

Y. Ichimura[1, 3], R. Konishi[1, 3], T. Nomura[3], M. Fujimoto[2], N. Okiyama[1]
[1]Department of Dermatology, Tokyo Ika Shika Daigaku Daigakin Ishigaku Sogo Kenkyuka, Bunkyo-ku, Tokyo, Japan, [2]Department of Dermatology, Osaka Daigaku, Suita, Osaka, Japan, [3]Department of Dermatology, Tsukuba Daigaku Igaku Iryokei, Tsukuba, Ibaraki, Japan

08:22-08:34 **ORAL 102 [POSTER 1164]**

Naive HIF-1a/ AhR keratinocyte-conditional double knockout mice resemble UVB-irradiated wildtype mice

S. Fassbender[1, 2], J. Schindler[1, 2], H. Ramachandran[1], T. Nguyen[1], M. Majora[1], T. Haarmann-Stemmann[1], C. Esser[1], A. Rossi[1], H. Weighardt[2, 1], J. Krutmann[1]
[1]IUF – Leibniz-Institut fur umweltmedizinische Forschung GmbH, Dusseldorf, Nordrhein-Westfalen, Germany, [2]LIMES Life and Medical Sciences Institute, Rheinische Friedrich-Wilhelms-Universitat Bonn, Bonn, Nordrhein-Westfalen, Germany

08:34-08:46 **ORAL 103 [POSTER 539]**

Multi-organ toxicities are associated with improved survival among immune checkpoint inhibitor recipients: A population-level analysis

W. Chen[1, 2], G. Wan[1, 2], K. Roster[1], N. Nguyen[1], A. Rajeh[1], H. Rashdan[1], M. Collier[1], J. Seo[1], N. LeBoeuf[4, 2], S. Kwatra[3], Y. Semenov[1, 2]
[1]Massachusetts General Hospital, Boston, Massachusetts, United States, [2]Harvard Medical School, Boston, Massachusetts, United States, [3]Johns Hopkins University, Baltimore, Maryland, United States, [4]Dana-Farber Cancer Institute, Boston, Massachusetts, United States

08:46-08:58 **ORAL 104 [POSTER 225]**

Enhanced TLR7 immunity drives innate protection against SARS-CoV-2 with chilblains as collateral damage.

A. Yatim[1, 2, 3], F. Saidoune[1], J. Di Domizio[1], R. Jenelten[1], A. Joncic[1], M. Morren[1], C. Conrad[1], J. Casanova[2, 3], M. Gilliet[1]
[1]Department of Dermatology, Centre Hospitalier Universitaire Vaudois, Lausanne, Vaud, Switzerland, [2]Institut Imagine Institut des Maladies Genetiques, Paris, Île-de-France, France, [3]The Rockefeller University, New York, New York, United States

08:58-09:10 **ORAL 105 [POSTER 732]**

Dysregulated cytosolic Ca^{2+} concentration in channel-related keratoses

T. Murata[1, 2], N. Kanazawa[1], K. Kabashima[2]
[1]Department of Dermatology, Hyogo Medical University, Nishinomiya, Japan, [2]Department of Dermatology, Kyoto University, Kyoto, Japan

SID Special Guest Lecture

RNA origin of sex-biased immunity

FRIDAY, MAY 12, 2023 **09:15 – 09:45** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Introduction by:
Dr. Ken Tsai

Howard Chang, MD/PhD
Stanford University, Palo Alto, CA

Howard Y. Chang MD/PhD is the Virginia and D.K. Ludwig Professor of Cancer Research and Director of the Center for Personal Dynamic Regulomes at Stanford University. He is a Howard Hughes Medical Institute Investigator; he is also Professor of Dermatology and of Genetics at Stanford University School of Medicine. Chang earned a Ph.D. in Biology from MIT, M.D. from Harvard Medical School, and completed Dermatology residency and postdoctoral training at Stanford University. His research addresses how large sets of genes are turned on or off together, which is important in normal development, cancer, and aging. Chang discovered a new class of genes, termed long noncoding RNAs, can control gene activity throughout the genome, illuminating a new layer of biological regulation. He invented ATAC-seq and other new methods for defining DNA regulatory elements genome-wide and in single cells. The long-term goal of his research is to decipher the regulatory information in the genome to benefit human health.

Dr. Chang is a Member of the US National Academy of Sciences, National Academy of Medicine, and American Academy for the Arts and Sciences. Dr. Chang's honors include the NAS Award for Molecular Biology, Outstanding Investigator Award of the National Cancer Institute, Paul Marks Prize for Cancer Research, Judson Daland Prize of the American Philosophical Society, and the Vilcek Prize for Creative Promise. His work was honored by the journal Cell as a Landmark paper over the last 40 years and by Science as "Insight of the decade".

KSID Special Guest Lecture

Adiponectin and Skin Diseases

FRIDAY, MAY 12, 2023 **09:45 – 10:15** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Introduction by:
Dr. Eung Ho Choi

Jin-Ho Chung, MD/PhD
Seoul National University College of Medicine, Seoul, South Korea

Prof. Jin Ho Chung is currently the Professor and Chairperson of Department of Dermatology, Seoul National University College of Medicine, in Korea. His basic research interests lie in the field of skin aging, photobiology and photomedicine. On the clinical side, he has been treating patients with various autoimmune bullous diseases and rheumatic skin diseases. He is a past President of Korean Society for Investigative Dermatology (KSID).

Plenary Session 4

FRIDAY, MAY 12, 2023 **10:20 – 11:20** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Moderators:
Dr. Johannes Kern, Dr. Cory Simpson, Dr. Christoph Schlapbach

10:20-10:32 **ORAL 106 [POSTER 916]**

Activation of the pentose phosphate pathway in macrophages is essential for granuloma formation in sarcoidosis

S. Nakamizo[1], G. Egawa[1], Y. Ishida[1], Y. Sugiura[1], K. Kabashima[1,2]
[1]Kyoto Daigaku, Kyoto, Japan, [2]Agency for Science, Technology and Research, Singapore, Singapore

10:32-10:44 **ORAL 107 [POSTER 1124]**

Strong preclinical evidence for treatment efficacy of a novel immune checkpoint inhibitor (ICI) in melanoma that targets a rare heparan sulfate

J. Chung[1,2], S. Ung[1,2], J. Gill[1], P. Cruz[1,2], K. Ariizumi[1,2]
[1]Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, [2]North Texas VA Medical Center, Dallas, Texas, United States

10:44-10:56 **ORAL 108 [POSTER 1431]**

Skin aging and hair follicle stem cell dysfunction caused by T cells with defective mitochondrial metabolism

E. Carrasco[1,2,3], E. Gabandé-Rodríguez[2,4], G. Soto-Heredero[2,4], M. M. Gómez de las Heras[2,4], M. Mittelbrunn[2]
[1]Department of Biology, Faculty of Sciences, Universidad Autonoma de Madrid, Madrid, Spain, [2]Tissue and Organ Homeostasis Program, Universidad Autonoma de Madrid Centro de Biologia Molecular Severo Ochoa, Madrid, Spain, [3]Experimental Dermatology, Instituto Ramon y Cajal de Investigacion Sanitaria, Madrid, Spain, [4]Department of Molecular Biology, Faculty of Sciences, Universidad Autonoma de Madrid, Madrid, Spain

10:56-11:08 **ORAL 109 [POSTER 017]**

A novel therapeutic strategy using stabilized antigen-specific iTreg for pemphigus

M. Mukai[1], H. Takahashi[1], N. Mikami[2], S. Sakaguchi[2], M. Amagai[1]
[1]Dermatology, Keio University School of Medicine, Tokyo, Japan, [2]Experimental Immunology, Osaka University IFReC, Osaka, Japan

11:08-11:20 **ORAL 110 [POSTER 1567]**

Single-cell rna sequencing reveals unique fibroblast subclusters in prurigo nodularis

J. R. Patel[1], M. Joel[1], K. Lee[1], A. Kambala[1], H. Cornman[1], O. O. Oladipo[1], M. Taylor[1], J. Deng[1], V. Parthasarathy[1], M. Marani[1], S. Reddy[1], T. Pritchard[1], V. Rebecca[1], W. Ho[1], M. Kwatra[2], X. Dong[1], S. Kang1, S. Kwatra[1]
[1]Dermatology, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States, [2]Duke University School of Medicine, Durham, North Carolina, United States

TSID Special Guest Lecture

Precision Medicine of Common Diseases

FRIDAY, MAY 12, 2023 **11:20 – 11:50** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Introduction by:
Dr. Fu-Tong Liu

Pui-Yan Kwok, MD/PhD
University of California, San Francisco, San Francisco, CA

Pui-Yan Kwok, MD/PhD, is the Henry Bachrach Distinguished Professor at the University of California, San Francisco, and, since 2017, the Director of the Institute of Biomedical Sciences at the Academia Sinica, Taiwan.

Dr. Kwok received his MD and PhD degrees from the University of Chicago, and residency in dermatology and postdoctoral training at the Washington University School of Medicine.

Dr. Kwok's research focuses on developing tools and strategies to study the human genome and the role of human variation in common diseases. He played key roles in many large international consortia, and he currently leads the Taiwan Precision Medicine Initiative, where a reference database with genetic profiles and clinical data of 1 million people is being built to improve health through disease risk prediction and tailored heath management guidelines.

Dr. Kwok is an Academician of the Academia Sinica, a Fellow of the American Association for the Advancement of Science, a Fellow of the World Academy of Sciences, and the recipient of the 2017 University of Chicago Pritzker School of Medicine Distinguished Service Award and the 2022 Human Genome Organization (HUGO) Chen Award for Distinguished Academic Achievement in Human Genetic and Genomic Research.

Janssen Asia Pacific Symposium

FRIDAY, MAY 12, 2023 **12:05 – 13:05** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Janssen Symposium: Unlocking the IL-23 pathway: looking back to move forward for psoriasis management

12:05 Welcome and introduction:
Akimichi Morita, MD/PhD, Professor and Chair, Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan. Professor Morita graduated from Nagoya City University and received his MD degree in 1989. He later earned his PhD degree in basic immunology from Aichi Cancer Center in Nagoya. Professor Morita is the current President of the Japanese Society for Psoriasis Research.

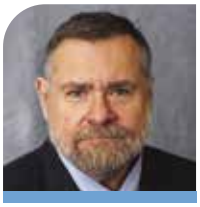
Objective: Welcome attendees and introduce programme

12:10 Past perspectives are key: IL-23 as the key cytokine in psoriatic disease:
Dan Cua, PhD, Vice President and IL-23 Pathway Area Leader, Immunology Therapeutic Area, Janssen Research & Development, LLC. Dr. Cua oversees the design and implementation of the scientific strategy for Discovery and Early and Late Clinical Development of Janssen's IL-23 pathway programme. Dr Cua earned his PhD degree in molecular microbiology and immunology from the University of Southern California (USC) School of Medicine. He also completed two post-doctoral fellowships at the USC Department of Neurobiology within the School of Medicine and at the DNAX Research Institute in Palo Alto, CA, USA.

Objective: Discuss the journey of IL-23, from its discovery to the impact it has had on the clinic.

12:20 The guiding light: disease memory and early intervention in psoriasis:
Andreas Pinter, MD/PhD, Senior Physician in Clinical Research, Department of Dermatology, Venereology, and Allergology, Goethe University, Frankfurt am Main, Germany. He has held this post since 2013. Dr Pinter studied medicine at the Goethe University and received training in a number of European countries as well as in South Africa. Dr Pinter's clinical and scientific activities focus on the treatment of chronic inflammatory dermatoses, dermato-oncology, and dermatosurgery. He leads a scientific group for translational research, focusing on psoriasis and hidradenitis suppurativa.

Objective: Provide the latest insights on how early intervention by targeting the Th17/IL-23 pathway could maintain long-term disease control.



12:30 Diverging threads: small changes, big implications?
James G. Krueger, MD/PhD, Head of the Laboratory for Investigative Dermatology, The Rockefeller University, New York City, NY, USA. He also serves as Physician and Co-Director of the Center for Clinical and Translational Science at the Rockefeller University Hospital, and as Chief Executive Officer of the Rockefeller University Hospital. Dr Krueger's research group at The Rockefeller University was the first to conduct clinical trials with specific, targeted immune antagonists in psoriasis and establish that elimination of pathogenic T cells from skin lesions could reverse the full pathological phenotype of psoriasis.

Objective: Provide new insights into the mechanisms of action of IL-23 inhibitors and discuss how these mechanisms can potentially affect their therapeutic profiles of these drugs.

12:40 Looking forward: panel discussion and Q&A: All faculty; moderated by Prof. Morita

13:00 Closing remarks: Prof. Morita

janssen Immunology
PHARMACEUTICAL COMPANIES OF Johnson & Johnson

Nippon Boehringer Ingelheim Symposium

FRIDAY, MAY 12, 2023 **12:05 – 13:05** **ROOM B: EMINENCE HALL, KEIO PLAZA HOTEL**

Latest research on pustular skin diseases

CHAIR

Masashi Akiyama, MD/PhD, Professor, Department of Dermatology, Nagoya University Graduate School of Medicine. Dr. Masashi Akiyama is a vice dean in the Graduate School of Medicine and the chair and professor of the Department of Dermatology at Nagoya University in Nagoya, Japan. His main research and clinical interests lie in the genetics of skin disorders, especially genetic keratinization diseases including ichthyoses, the mechanisms of keratinization and stratum corneum barrier function.

The Role of IL-36 in Pustular Psoriasis: What Have We Learnt from Genetic Studies?

Francesca Capon, PhD, Professor, Department of Medical and Molecular Genetics, King's College London. Professor Capon obtained a BSc in Biological Sciences (1992) and PhD in Medical Genetics (1999) from "La Sapienza" University of Rome, Italy. Her interest in the genetics of psoriasis brought her to the UK. She first moved to the University of Leicester as a Wellcome Trust Traveling Research Fellow (2001), then took on a Lectureship in Human Molecular Genetics at University College London (2004). She joined King's College London in 2006 as a Lecturer, was then promoted to Senior Lecturer (2014), Reader (2018) and Professor (2022).

The Role of Neutrophils in Skin Diseases

Tatsuyoshi Kawamura, MD/PhD, Professor and Chair, Department of Dermatology, University of Yamanashi, Yamanashi, Japan. Dr. Kawamura graduated and received his MD degree from Yamanashi Medical University in 1990, and subsequently pursued further education in dermatology at Yamanashi Medical University, obtaining his PhD degree in 1998. Between 1998 and 2002, he served as a post-doctoral fellow at the National Cancer Institute, Bethesda, Maryland. He was awarded the Fellows Award for Research Excellence at the National Institute of Health in 2002. He has been Professor and Chair of the at the Department of Dermatology, Yamanashi Medical University since 2017.

Boehringer Ingelheim

No 7 Beauty Company Symposium

FRIDAY, MAY 12, 2023 **12:05 – 13:05** **ROOM C: NISHIKI, KEIO PLAZA HOTEL**

Matrix-derived Cosmetic Peptides (matrikines) for the Rejuvenation of Photoaged Skin

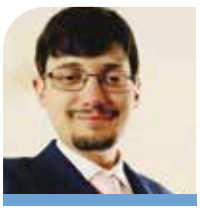
12.05 – 12.10 Welcome:

Mike Bell, PhD, Head of Science Research No7 Beauty Company, UK. Dr. Bell received his BSc in Pharmacology at the University of Bath and a PhD in Neurobiology at Oxford University before becoming interested in skin. He has been the industry lead for the established research collaboration into healthy skin ageing with the University of Manchester, UK, since 2010 and with his science team based in Nottingham, UK, works additionally with other academic institutions around the world on both fundamental and translational skin research. His leadership on the science and technology underpinning the No7 Skin care brand have helped elevate the brand to its current No1 market position in the UK.

12.10-12.25 Predicting matrix-derived peptides using in silico machine learning approaches
Objective: How protein susceptibility algorithms and machine learning approaches can be used to predict breakdown of extracellular matrix proteins and the release of putative bioactive peptides called 'matrikines'.

Mike Sherratt, BSc (Hons), PhD, PgCertHE, Professor of Biochemistry, University of Manchester, UK. Dr. Sherratt's research is focused on characterising the causative mechanisms and the structural and mechanical consequences of ageing in extracellular matrix rich tissues including skin, arteries, breast and cartilage. His lab has: i) developed novel atomic force microscopy and microCT methodologies to visualise tissue architecture, ii) demonstrated that elastic fibre associated proteins are key targets of both ultraviolet radiation and oxidation, iii) shown that bioinformatic and mass spectrometry approaches can be used to identify novel ageing biomarkers and fingerprints of damage and iv) demonstrated that raised mammographic density (a risk factor for breast cancer) is associated with localised collagen re-organisation and stiffening.

12.25 – 12.40 Novel peptides identified using machine learning approaches show wide-ranging activity in cultured human dermal fibroblasts
Objective: Evidence that novel 'matrikine' peptides identified using machine learning approaches show dermal remodelling activity in vitro; utilising a range of techniques including omics.



Alexander Eckersley, PhD, Lecturer in Skin Health, University of Manchester, UK. Dr. Eckersley pioneered the invention and development of "peptide location fingerprinting", a new mass spectrometry analysis technique capable of identifying damaged and modified proteins in complex biological samples. His WBA-funded research has led to the identification of novel protein targets of ageing and disease in skin, intervertebral disc, lung, artery and kidney, publishing several papers in distinguished journals such as Matrix Biology and Aging Cell. Alex won the prestigious Early-Career Award in 2019 at the British Society for Proteome Research meeting and was awarded Seedcorn funding in 2020 from the Manchester Institute for Collaborative Research on Ageing (MICRA). Alex has also contributed to the design and proteomic testing of novel WBA skin ageing bioactives resulting in four patents.

12.40-12.55 A novel peptide-blend has potential as a topical anti-ageing cosmeceutical; Evidence from a short-term patch test protocol for skin remodelling
Objective: Evidence that a novel peptide-blend first identified using machine learning shows promise as a topical anti-ageing cosmeceutical, based on a validated short-term patch test protocol to assess skin remodelling in photoaged skin using immunohistochemical markers and transcriptomic characterisation.

Professor Rachel Watson, PhD, Executive Director, Skin Research Institute of Singapore (SRIS) and A*STAR Skin Research Laboratory (A*SRL). Dr. Watson was Professor of Cutaneous Science at the University of Manchester, prior to her recent appointment as Executive Director of both the A*STAR Skin Research Laboratory and the Skin Research Institute of Singapore (Republic of Singapore). She received her BSc (Anatomy & Cell Biology) and PhD degrees from the University of Sheffield. Rachel was instrumental to the development of the MSc in Skin Ageing & Aesthetic Medicine at the University of Manchester and continues to contribute, via editorial boards, to a number of prestigious international journals, including the British Journal of Dermatology.

12.55 – 13.05 Cosmetic skincare applications and Q&A

Shiseido Symposium

FRIDAY, MAY 12, 2023 **12:05 – 13:05** **ROOM D: OHGI, KEIO PLAZA HOTEL**

Skin Beauty Provided by Healthy Blood and Lymphatic Vascular Systems

CHAIR

Kenji Kabashima MD/PhD, Professor and Chairman, Department of Dermatology, Kyoto University Graduate School of Medicine

The Importance of Blood Vessels and Lymphatic Vessels for Skin Health, Aging and Beauty

Michael Detmar, MD, Professor, Institute of Pharmaceutical Sciences, ETH Zurich. Dr. Detmar obtained his M.D. degree from the University of Freiburg, Germany. Since 2004, he has been a Professor and Chair at the Swiss Federal Institute of Technology, ETH Zurich, where he currently leads a research team as professor emeritus. His lab has pioneered studies of the role of cutaneous blood and lymphatic vessels in skin health, aging, inflammation and cancer. He has received several prestigious awards, including the 2005 Marion B. Sulzberger Memorial Award and Lectureship of the American Academy of Dermatology and the 2007 Rudi Cormane Memorial Lectureship of the European Society for Dermatological Research. In 2015, he was elected as a member of the German National Academy of Sciences Leopoldina. He is the author of more than 300 original publications and of several licensed patents.

Holistic Beauty by Promoting Blood/Lymphatic Vessel Function in Skin

Kentaro Kajiya, PhD, Vice President, Business Core Technology Center, Shiseido Co., Ltd. He received his MSc. In 2001, from Tokyo University, Japan, and his PhD from the Tokyo University of Agriculture and Technology in 2008. He started his career at Shiseido as a Research Scientist in 2001, then as a Visiting Scientist at both Mass General Hospital and Harvard Medical School in 2003-2004; and the Swiss Federal Institute of Technology, ETH Zurich in 2004-2005. He has been promoted several times at Shiseido since 2005, most recently being appointed as Vice President at the Business Core Technology Center in 2022.

LEO Pharma Symposium

FRIDAY, MAY 12, 2023 **12:05 – 13:05** **ROOM E: MOONLIGHT, KEIO PLAZA HOTEL**

Updated Information About the Roles of IL-13 in Atopic Dermatitis

CHAIRS

Takeshi Nakahara, MD/PhD, Department of Dermatology, Graduate School of Medical Sciences, Kyushu University Fukuoka, Japan

Takeshi Nakahara graduated from School of Medicine, Kyushu University as an MD in 1999, and received his PhD from Kyushu University in 2005. He worked under Dr. Alan N. Houghton as a research fellow in Immunology Program, Memorial Sloan-Kettering Cancer Center, New York from 2005 to 2008. He was an assistant professor from 2008 to 2013, and an associate professor from 2013 to 2022 at Department of Dermatology, Kyushu University. He has been a chairman and professor of Department of Dermatology, Kyushu University since 2022.
His interests are in the areas of atopic dermatitis, urticaria, and Aryl hydrocarbon receptor (AhR). He is focusing on skin immunology and allergy. He has been engaged in elucidating the pathology of inflammatory skin diseases, mainly atopic dermatitis, and been developing new therapeutic drugs. He has also contributed to Japanese guidelines for atopic dermatitis and urticaria.

Chih-ho Hong, MD, Clinical Assistant Professor, Department of Dermatology and Skin Sciences, University of British Columbia, Vancouver, Canada

Dr. Hong is a board certified dermatologist working in Greater Vancouver BC, Canada. He runs a busy office based dermatology clinic with a focus on clinical research. He is a Clinical Assistant Professor in the Department of Dermatology and Skin Sciences and teaches at St. Paul's Hospital in Vancouver, where he is active staff. Dr. Hong is the past head of the BC Section of Dermatology and is the past chair of the Education Committee of the Canadian Dermatology Association. He is also a past examiner in Dermatology for the Royal College of Physicians of Canada residency qualification examination. Dr. Hong is currently the Canadian representative to SPIN (The Skin Inflammation and Psoriasis International Network www.spindermatology.org) He is active in clinical practice and dermatology research. His main clinical areas of interest are psoriasis and eczema. He has been an investigator in over 150 trials of treatments in dermatology and has over 50 peer reviewed publications. He has lectured locally, nationally, and internationally on dermatology treatments and has been an invited speaker at international dermatology congresses.

SPEAKER

Kenji Izuhara, MD/PhD, Division of Medical Biochemistry, Department of Biomolecular Sciences, Saga Medical School, Saga, Japan.

Dr Izuhara received his MD and PhD degrees from Kyushu University, Fukuoka, Japan. He joined DNAX Research Institute, Palo Alto, USA as Postdoctoral Fellow from 1991 to 1994. He became Professor of Saga Medical School at 2000. He is now serving as Guest Professor of Juntendo University and a member of Science Council of Japan, Cabinet Office. His research interests include clarification of the pathogenesis of allergic diseases and discovery of drug targets and diagnostic markers for allergic diseases. He has published more than 250 peer-reviewed original articles and reviews in international journals and has contributed to 45 books. He has given 117 plenary and invited Lectures in international and domestic conferences and symposia by January 2023. He served as the Editor-in-Chief of Allergology International from 2013 to 2019 and as the President of Japanese Society of Allergology from 2019 to 2021.

LEO

Torii Pharmaceutical Company, LTD. Symposium

FRIDAY, MAY 12, 2023 **12:05 – 13:05** **ROOM F: HARMONY, KEIO PLAZA HOTEL**

Understanding the Pathogenesis of Atopic Dermatitis

CHAIR

Norito Katoh, MD/PhD, Professor, Department of Dermatology, Kyoto Prefectural University of Medicine, Graduate School of Medical Science, Kyoto, Japan

SPEAKERS

Itch of Atopic Dermatitis and Janus Kinase: Chasing the Itch Jackpot

Takashi Hashimoto, MD/PhD, Associate Professor, Department of Dermatology, National Defense Medical College, Tokorozawa, Japan.

Takashi Hashimoto, MD, PhD, is an Associate Professor at the Department of Dermatology at National Defense Medical College, Tokorozawa, Japan. He received his MD in 2004 and PhD in 2015 from Tokyo Medical and Dental University (TMDU). He completed his residency training at TMDU in 2010 and is a board-certified dermatologist and allergist. From 2017 to 2019, he worked as a post-doctoral/visiting scholar in the Miami Itch Center under the mentorship of the director Dr. Gil Yosipovitch, at the Dr. Phillip Frost Department of Dermatology and Cutaneous Surgery at the University of Miami. His research interests involve the investigation of clinical, immunological, and neurophysiological mechanisms of itch and allergic cutaneous diseases.

Impact of Staphylococcal Agr in Atopic Dermatitis and Systemic Infection

Yumi Matsuoka-Nakamura, MD/PhD, Professor, Cutaneous Allergy and Host Defense Immunology Frontier Research Center, Osaka University, Osaka, Japan.

Dr. Yumi Matsuoka-Nakamura is a Professor in Cutaneous Allergy and Host Defense Immunology Frontier Research Center at Osaka University. Her lab aims to explore the role of skin microbiome and pathogens in inflammatory skin diseases using omics approaches and animal models. Her long-term research goal is to understand the molecular mechanisms underlying the formation and regulation of cutaneous microbiome ecological system. She earned her MD degree from University of Yamanashi, Japan in 2003 and PhD degree from Chiba University, Japan in 2009. She received a postdoctoral training at University of Michigan Medical School from 2009-2013. Since 2015, she has been a board-certified dermatologist by The Japanese Dermatological Association. She was a recipient of 2020 LEO Foundation Award – Region Asia-Pacific.

TORII PHARMACEUTICAL CO., LTD.

ESDR Special Guest Lecture

Skin T cells in Lockdown – Regulation of Human T Cell Tissue Residency

FRIDAY, MAY 12, 2023 **13:15 – 13:45** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Introduction by:
Dr. Curdin Conrad

Christina Zielinski, MD
Leibniz Institute for Natural Product Research and Infection Biology and the Friedrich Schiller University, Jena, Germany

Christina Zielinski is the Chair of the Department of Infection Immunology at the Leibniz Institute for Natural Product Research and Infection Biology and the Friedrich Schiller University in Jena. She studied medicine at the University of Heidelberg (Germany), at Harvard University (USA) and Duke University (USA). Her MD thesis research was performed at Yale University as a scholar of the German National Merit Foundation where she focused on the role of T cells in the pathogenesis of lupus erythematosus.

Christina performed her postdoctoral training as a scholar of the German Research Foundation in the lab of Federica Sallusto in Switzerland where she deciphered the regulatory cues that drive distinct functionalities of human Th17 cells. She then started her own research group as a Clinician Scientist at the Department of Dermatology at the Charité University Hospital in Berlin. Christina Zielinski also completed her clinical specialization in dermatology and allergology at the University of Tübingen and the Charité-University Medicine in Berlin. In 2015, Christina was appointed professor at the German Center for Infection Research at the Technical University of Munich.

Since 2021, she has been the Chair of Infection Immunology at the Leibniz Institute for Natural Product Research and Infection Biology and the Friedrich Schiller University in Jena, where she will continue to work on the regulation of human T cells and their translational impact in autoimmunity, infections, and cancer.

Eli Lilly Symposium

FRIDAY, MAY 12, 2023 **13:50 - 15:20** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Explore Our Future from Investigative Research in Alopecia Areata, Atopic Dermatitis and Psoriasis

CHAIRS:
Chris Griffiths, MD, Emeritus Professor of Dermatology, University of Manchester, Adjunct Professor, King's College London, Consultant Dermatologist, King's College Hospital , United Kingdom

Manabu Ohyama, MD/PhD, Professor and Chairman, Department of Dermatology, Kyorin University School of Medicine, Tokyo, Japan

Eli Lilly's R&D strategy in Dermatology

Lotus Mallbris, MD/PhD, Senior Vice President, Immunology Development & Medical Affairs, Eli Lilly and Company. In her current role, as the Senior Vice President, Immunology Development in the Lilly Immunology Business Unit, she leads a multifunctional team across dermatology, rheumatology, gastroenterology field and COVID. She received her medical degree from Karolinska Institute, Ph.D. and Post-Doctorate Diploma from Department of Medicine at Karolinska Institute, in Stockholm, Sweden and MBA from Stern NY University in collaboration with the London School of Economics(UK) and HEC Paris School of Management (France). She continues to be an active member of several external immunology research advisory boards focusing on bridging the external state-of-the-art research with Lilly.

Latest Insights on the Pathogenesis and Treatment of Alopecia Areata

Ohsang Kwon, MD/PhD, Professor, Department of Dermatology, Seoul National University Hospital, Seoul, Korea. Dr. Kwon received his medical degree from Seoul National University College of Medicine in 1994 and Ph.D. degree from Graduate School, Seoul National University in 2005. He received Dermatology residency and fellowship training at the Seoul National University Hospital. He clinically specializes in alopecia of both male and female, the scalp diseases, and hair restoration surgery. His research interests are mechanism of alopecia and hair follicle regeneration. He is conducting fundamental experiments in the field of stem cell biology and regeneration of hair follicles and trying to develop new treatment for hair loss. He has actively participated in clinical trials, including the landmark phase 3 clinical trials to validate the efficacy and safety of dutasteride in male pattern hair loss and JAK inhibitors in severe alopecia areata.

Unraveling the Heterogeneity of Atopic Dermatitis: "A Closer Look at Longitudinal Course"

Raj Chovatiya, MD/PhD, Assistant Professor, Dermatology at the Northwestern University Feinberg School of Medicine, Chicago, USA. Dr. Chovatiya received his M.D. and Ph.D. in immunology from Yale University. Dr. Chovatiya is the medical director for the Clinical Trials Unit and leads the Center for Eczema and Itch in the Department of Dermatology at Northwestern, and his clinical and research focus includes the intersection of cutaneous immunology and inflammatory disease. He has a particular interest in optimizing patient-centered care, understanding chronic disease burden especially in understudied inflammatory diseases, and improving care across diverse skin types. He has published numerous abstracts and manuscripts and has been recognized for his contributions as a speaker, researcher, and leader at national and international conferences.

RWE for Clinical Decision Making in Psoriasis

Andreas Pinter, MD/PhD, Director Clinical Research, Department of Dermatology, Venereology and Allergology, University of Frankfurt, Frankfurt, Germany. Dr. Pinter holds a degree in medicine from the University of Frankfurt. He has a strong focus on immune-mediated diseases and interdisciplinary patient treatment. Dr. Pinter has been investigator and principal investigator in > 200 clinical trials and is an author of > 70 peer-reviewed publications. He is a frequent speaker at national and international venues where he shares his broad clinical expertise.

Concurrent Mini-Symposium 7

Adaptive and Auto-Immunity II

Studies of adaptive immune responses involving T and B lymphocytes, dendritic cells, other antigen presenting cells, and antigen processing and presentation; Basic and pre-clinical experimental studies focused on autoimmunity.

FRIDAY, MAY 12, 2023 **15:30 – 18:00** **ROOM B: EMINENCE HALL, KEIO PLAZA HOTEL**

Moderators:
Dr. Chih-Hung Lee, Dr. Michael Hertl, Dr. John Harris

15:30-15:40 **ORAL 111 [POSTER 157]**
The tumor microenvironment limits the development and persistence of tissue-resident memory T cells
J. B. Williams, T. S. Kupper
Dermatology, Brigham and Women's Hospital, Boston, Massachusetts, United States

15:40-15:50 **ORAL 112 [POSTER 007]**
Commensal papillomaviruses role in sun-damaged skin homeostasis
H. G. Son[1], D. T. Ha[1], R. Guennoun[1], J. Strickley[1], T. H. Erlich[1], D. E. Fisher[1], J. Joh[2], S. Demehri[1]
[1]CBRC, Massachusetts General Hospital, Boston, Massachusetts, United States, [2]University of Louisville, Louisville, Kentucky, United States

15:50-16:00 **ORAL 113 [POSTER 143]**
Genetic and transcriptional signatures of merkel cell carcinoma-specific B cells suggest a functional role in modulating cancer immunity
A. J. Remington[1, 2], H. J. Rodriguez[1, 2], T. Pulliam[1], M. D. Gray[2], J. J. Taylor2, P. Nghiem1
[1]Division of Dermatology, University of Washington, Seattle, Washington, United States, [2]Vaccine and Infectious Disease Divison, Fred Hutchinson Cancer Center, Seattle, Washington, United States

16:00-16:10 **ORAL 114 [POSTER 084]**
Neoantigen-specific T cell responses constrain cutaneous squamous cell carcinoma
A. C. Adams[1], A. M. Macy[1], E. S. Borden[1], L. M. Herrmann[1], K. H. Buetow[2], M. A. Wilson[2], D. J. Roe[3], K. T. Hastings[1]
[1]College of Medicine – Phoenix, University of Arizona, Phoenix, Arizona, United States, [2]School of Life Sciences, Arizona State University, Tempe, Arizona, United States, [3]Mel and Enid Zuckerman College of Public Health, University of Arizona, Tucson, Arizona, United States

16:10-16:20 **ORAL 115 [POSTER 150]**
Single-cell RNA sequencing defines disease-specific differences between prurigo nodularis and atopic dermatitis
N. Alkon[1], F. P. Assen[1], T. Arnoldner[1], W. M. Bauer[1], M. Medjimorec[1], L. Shaw[1], K. Rindler[1], G. Holzer[2], P. Weber[1], W. Weninger[1], T. Kinaciyan[1], M. Farlik[1], C. Jonak[1], J. Griss[1], C. Bangert[1], P. Brunner[3]
[1]Medizinische Universitat Wien, Wien, Austria, [2]Klinik Donaustadt, Vienna, Austria, [3]Icahn School of Medicine at Mount Sinai, New York, New York, United States

16:20-16:30 **ORAL 116 [POSTER 042]**
T cell-derived lymphotoxin β receptor signaling forms HEV-like vessels in the skin of atopic dermatitis-like inflammation in mice
S. Kanameishi[1], S. Ono[1], Y. K. Honda[1, 3], R. Asahina[1], T. Honda[2], K. Kabashima[1]
[1]Dermatology, Kyoto Daigaku Daigakuin Igaku Kenkyuka Igakubu, Kyoto, Kyoto, Japan, [2]Dermatology, Hamamatsu Ika Daigaku, Hamamatsu, Shizuoka, Japan, [3]Immunology Division, Garvan Institute of Medical Research, Sydney, New South Wales, Australia

16:30-16:40 **ORAL 117 [POSTER 055]**
IL-15 contributes to atopic dermatitis pathogenesis: Lessons from a novel humanized mouse disease model
I. Piccini[1], O. Egriboz[1], K. I. Pappelbaum[1], M. Fehrholz[1], A. Keren[2], R. Paus[1, 3, 5], A. Gilhar[2], A. Vicari[4], M. Bertolini[1]
[1]Monasterium Laboratory GmbH, Münster, Germany, [2]Technion Israel Institute of Technology, Haifa, Israel, [3]Dermatology, University of Miami, Miami, Florida, United States, [4]Calypso Biotech BV, Amsterdam, Netherlands, [5]CUTANEON, Hamburg, Germany

16:40-16:50 **ORAL 118 [POSTER 167]**
IL-36 axis is female-biased in pustular psoriasis in type I IFN-dependent manner
M. Sarkar[1], F. Ma[2, 1], A. Kidder[1], A. Coon[1], B. E. Perez White[3], R. Uppala[1], N. L. Ward[4], C. Dobry[1], L. Tsoi[1], J. M. Kahlenberg[2], J. Gudjonsson[1]
[1]Dermatology, University of Michigan, Ann Arbor, Michigan, United States, [2]Rheumatology, Internal Medicine, University of Michigan, Ann Arbor, Michigan, United States, [3]Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, [4]Dermatology, Vanderbilt University Medical Center, Nashville, Tennessee, United States

16:50-17:00 **ORAL 119 [POSTER 057]**
Single-cell RNA sequencing reveals cellular drivers of UV-mediated skin injury in cutaneous lupus
M. P. Maz, F. Ma, M. Gharaee-Kermani, A. Victory, A. Hurst, J. Gudjonsson, J. M. Kahlenberg
University of Michigan, Ann Arbor, Michigan, United States

17:00-17:10 **ORAL 120 [POSTER 094]**
Periostin – an inducer of pro-fibrotic phenotype in monocytes and monocyte-derived macrophages in systemic sclerosis
M. Suzuki, Y. Ototake, A. Akita, M. Asami, N. Ikeda, Y. Yamaguchi
Yokohama Shiritsu Daigaku Igakubu Daigakuin Igaku Kenkyuka, Yokohama, Kanagawa, Japan

Continued on next page.

Concurrent Mini-Symposium 7 - *Continued*

FRIDAY, MAY 12, 2023 **15:30 – 18:00** **ROOM B: EMINENCE HALL, KEIO PLAZA HOTEL**

17:10-17:20 **ORAL 121 [POSTER 128]**

A stable, but reversible replicative arrest in alopecia areata

K. Meier[1, 2], J. Brück[2], T. Mehra[3], M. Gassenmaier2, E. Müller-Hermelink[1, 2], A. Hossini[4], C. C. Zouboulis[4], K. Ghoreschi[1, 2], M. Röcken[2]

[1]Department of Dermatology, Venereology and Allergology, Charite Universitatsmedizin Berlin, Berlin, Germany, [2]Department of Dermatology, Eberhard-Karls-Universitat Tubingen Medizinische Fakultat, Tubingen, Baden-Württemberg, Germany, [3]Kantonsspital Baselland, Liestal, Basel-Landschaft, Switzerland, [4]Department of Dermatology, Venereology, Allergology and Immunology, Stadtisches Klinikum Dessau, Dessau, Sachsen-Anhalt, Germany

17:20-17:30 **ORAL 122 [POSTER 169]**

Vitiligo lesions are driven by the collaboration of expanded CD8+ T cell clones

E. Katz[1], A. Manukyan[1], K. Gellatly[1], M. Wadsworth[2], A. Winkler[2], W. Ruff[3], M. Garber[1], J. E. Harris[1]

[1]University of Massachusetts Chan Medical School, Worcester, Massachusetts, United States, [2]Pfizer Inc, New York, New York, United States, [3]Repertoire, Cambridge, Massachusetts, United States

17:30-17:40 **ORAL 123 [POSTER 181]**

The role of nuclear IL-37 in regulating FOXP3 expression and Treg cell stability

D. Osborne[1], J. Domenico[1], P. K. Vaddi[1], Z. Zhai[1], C. Dinarello[2, 3], M. Fujita[1, 3, 4]

[1]Dermatology, University of Colorado Anschutz Medical Campus, Aurora, Colorado, United States, [2]Medicine, University of Colorado Anschutz Medical Campus, Aurora, Colorado, United States, [3]Immunology & Microbiology, University of Colorado Anschutz Medical Campus, Aurora, Colorado, United States, [4]Veterans Affairs Medical Center, VA Eastern Colorado Health Care System, Aurora, Colorado, United States

17:40-17:50 **ORAL 124 [POSTER 095]**

HLA class II-restricted CD8+ T cells contribute to the promiscuous immune response in dapsone hypersensitive patients

Q. Zhao[1], L. Sun[1], H. Liu[1], D. Naisbitt[2], F. Zhang[1]

[1]Shandong Provincial Hospital for Skin Diseases, Jinan, Shandong, China, [2]University of Liverpool, Liverpool, United Kingdom

17:50-18:00 **ORAL 125 [POSTER 097]**

VDAC as a novel actionable therapeutic target in pemphigus vulgaris

S. Assaf[1, 2], O. Sarig[1], C. Bilu[1], Y. Zoabi[2], K. Malovitski[1, 2], Y. Feller[1, 2], S. Bergson[1, 2], V. Shoshan-Barmatz[3], N. Shomron[2], D. Vodo[1], E. Sprecher[1, 2]

[1]Tel Aviv Medical Center, Tel Aviv, Israel, [2]Tel Aviv University Sackler Faculty of Medicine, Tel Aviv, Israel, [3]Ben-Gurion University of the Negev, Beer-Sheva, Israel

Concurrent Mini-Symposium 8

Clinical Research: Epidemiology and Observational Research II

Non-interventional studies of populations or patient cohorts that evaluate, but are not limited to, the natural history of disease, disease burden, co-morbidities, health-related quality of life, and patient-reported outcomes research.

FRIDAY, MAY 12, 2023 **15:30 – 18:00** **ROOM C: NISHIKI, KEIO PLAZA HOTEL**

Moderators:
Dr. Dedee Murrell, Dr. Adela Rambi-Cardones, Dr. Jean Krutmann

15:30-15:40 **ORAL 126 [POSTER 402]**
Antihypertensive medication associated with eczematous dermatitis in older adults
M. Ye[1], I. Douglas[2], S. Evans[2], S. M. Langan[2], K. Abuabara[1]
[1]Department of Dermatology, University of California San Francisco, San Francisco, California, United States, [2]London School of Hygiene and Tropical Medicine Faculty of Epidemiology and Population Health, London, London, United Kingdom

15:40-15:50 **ORAL 127 [POSTER 488]**
Dual blockade of IL-4 and IL-13 with dupilumab reduces severity of type 2 inflammatory immune-related adverse events
C. Lee[1], W. Chung[2], C. Chen[2]
[1]Department of Medical Education, Chang Gung Memorial Hospital, Keelung, Taiwan, [2]Drug Hypersensitivity Clinical and Research Center, Department of Dermatology, Chang Gung Memorial Hospital, Linkou, Taipei and Keelung, Taiwan

15:50-16:00 **ORAL 128 [POSTER 550]**
Atopic dermatitis in adolescents: Role of carbonyl reductase 3 genetic risk score under constant chronic exposure to particulate matter
S. Kress[1], M. Lau[2], C. Wigmann[1], F. Hartung[1], T. Haarmann-Stemmann[1], T. Schikowski[1]
[1]IUF Leibniz Research Institute for Environmental Medicine, Duesseldorf, Germany, [2]Heinrich-Heine-Universitat Dusseldorf, Dusseldorf, Nordrhein-Westfalen, Germany

16:00-16:10 **ORAL 129 [POSTER 462]**
Blood molecular phenotypes of Chinese AD patients
Y. Wang[1], Y. Wu[1], C. Gu[1], X. Yao[2], W. Li[1]
[1]Department of Dermatology, Huashan Hospital Fudan University, Shanghai, China, [2]Department of Allergy and Rheumatology, Affiliated Hospital for Skin Diseases of Chinese Academy of Medical Sciences, Nanjing, Jiangsu, China

16:10-16:20 **ORAL 130 [POSTER 382]**
A novel assessment of cardiovascular health in people with psoriasis in the US: a cross-sectional study
S. Wang[1], D. B. Shin[1], T. Bhutani[2], J. Gelfand[1]
[1]Dermatology, University of Pennsylvania, Philadelphia, Pennsylvania, United States, [2]Dermatology, University of California San Francisco, San Francisco, California, United States

16:20-16:30 **ORAL 131 [POSTER 484]**
The relative abundance of unsaturated fatty acid and their dietary habits in incident psoriatic diseases
Y. Xiao[2], D. Jing[2], S. Yang[2], X. Chen[2], M. Shen[1]
[1]Department of Social Medicine and Health Management, Xiangya School of Public Health, Central South University, Changsha, Hunan, China, [2]Dermatology, Central South University, Changsha, Hunan, China

16:30-16:40 **ORAL 132 [POSTER 509]**
IL-17A and IL-17F in the pathogenesis of hidradenitis suppurativa: Insights from early and chronic lesions
A. Skelton[1], H. Gopee[2], R. Okoye[1], A. Ferecsko[1], M. Page[1], S. Shaw[1]
[1]UCB Pharma, Slough, United Kingdom, [2]Newcastle University, Newcastle upon Tyne, United Kingdom

16:40-16:50 **ORAL 133 [POSTER 447]**
Immunotherapy efficacy in Merkel cell carcinoma is affected by the presence and type of immunosuppression: Analysis of 183 patients
E. Gong[1], D. S. Hippe[1], X. Fan[1], L. Zawacki[1, 2], A. J. Remington[1], A. Menon[1], K. Lachance[1], T. Akaike[1], S. Park[1], P. Nghiem[1]
[1]University of Washington, Seattle, Washington, United States, [2]Washington State University, Pullman, Washington, United States

16:50-17:00 **ORAL 134 [POSTER 430]**
Merkel cell carcinoma and multiple primary cancers: A SEER-based analysis
E. Eid[1], N. Maloney[2], Z. Ran Cai[1], L. Zaba[2], N. Kibbi[2], E. M. John[3], E. Linos[2]
[1]Program for Clinical Research and Technology, Stanford University, Stanford, California, United States, [2]Department of Dermatology, Stanford University, Stanford, California, United States, [3]Department of Epidemiology & Population Health, Stanford University, Stanford, California, United States

17:00-17:10 **ORAL 135 [POSTER 520]**
A retrospective cohort study of patch testing in oral lichen planus and subsequent diagnosis of oral squamous cell carcinoma
V. N. Sahni, Z. Hopkins, J. Rhoads, J. Clarke, C. Hansen, D. Powell, R. deShazo, J. Zone, C. Hull
Dermatology, University of Utah Health, Salt Lake City, Utah, United States

Continued on next page.

Concurrent Mini-Symposium 8 - *Continued*

FRIDAY, MAY 12, 2023 **15:30 – 18:00** **ROOM C: NISHIKI, KEIO PLAZA HOTEL**

17:10-17:20 **ORAL 136 [POSTER 508]**

Prognostic relevance of blood T-cell clonality in mycosis fungoides

D. Joffe, L. Banner, L. Gleason, N. Nikbakht

Department of Dermatology and Cutaneous Biology, Thomas Jefferson University, Philadelphia, Pennsylvania, United States

17:20-17:30 **ORAL 137 [POSTER 410]**

Clinicopathological factors and outcomes of cutaneous angiosarcoma

S. Yonekura, Y. Endo, K. Kabashima

Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan

17:30-17:40 **ORAL 138 [POSTER 571]**

Associations among polymorphisms in FCγRIIIA and treatment responses to rituximab in patients with pemphigus

P. Huang, Y. Cho, C. Chu

Department of Dermatology, National Taiwan University, Taipei, Taiwan

17:40-17:50 **ORAL 139 [POSTER 522]**

Serum levels of alarmins as potential biomarkers to diagnose and predict activity/severity of non-segmental vitiligo

K. He[1], W. Wu[1], X. Wang[1], W. Dai[2], S. Wang[2], C. Li[1], S. Li[1]

[1]Department of Dermatology, Xijing Hospital, Fourth Military Medical University, Xi'an, China, Xi'an, Shaanxi, China, [2]Department of Dermatology and Venereology, Nanfang Hospital, Southern Medical University, Guangzhou, China, Guangzhou, Guangdong, China

17:50-18:00 **ORAL 140 [POSTER 445]**

Higher ambient temperature contributes to extrinsic skin aging

N. Singh, S. Grether-Beck, T. Schikowski, J. Krutmann

IUF Leibniz Research Institute for Environmental Medicine, Duesseldorf, Germany

Concurrent Mini-Symposium 9

Innate Immunity, Microbiology, Microbiome I

Studies of cells, receptors and effector molecules of the innate immune response; studies on skin microbes, microbiome and infectious processes of the skin.

FRIDAY, MAY 12, 2023 **15:30 – 18:00** **ROOM D: OHGI, KEIO PLAZA HOTEL**

Moderators:
Dr. Tatsuyoshi Kawamura, Dr. Heidi Kong, Dr. Anna Balato

15:30-15:40 **ORAL 141 [POSTER 943]**

Loss of both host-derived antimicrobial peptides and bacteriocin-producing commensals enables survival of Staphylococcus aureus on Th2-inflamed skin

T. Nakatsuji, S. Brinton, K. Cavagnero, T. Dokoshi, A. O'Neill, R. L. Gallo
Dermatology, University of California San Diego, La Jolla, California, United States

15:40-15:50 **ORAL 142 [POSTER 950]**

Epicutaneous staphylococcus aureus exposure triggers lung inflammation via epithelia-intrinsic IL-36R signaling

S. Nolan, Y. Saito, D. Dikeman, C. Pontaza, M. Ahmadi, C. Youn, J. Zhang, N. Archer
Dermatology, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States

15:50-16:00 **ORAL 143 [POSTER 933]**

Staphylococcus aureus reversibly regulates Agr quorum sensing to cause an outbreak in a hospital

Y. Yamazaki[1], H. Takahashi[2], A. Takaya[3], Y. Matsuoka-Nakamura[1, 4], M. Fujimoto[1]
[1]Dermatology, Graduate School of Medicine, Osaka University, Suita, Japan, [2]Medical Mycology Research Center, Chiba, Japan, [3]Natural Products Chemistry, Graduate School of Pharmaceutical Sciences, Chiba University, Chiba, Japan, [4]Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, Suita, Japan

16:00-16:10 **ORAL 144 [POSTER 906]**

A novel IL-31-generating mechanism in atopic dermatitis: essential roles of macrophages in cooperation with basophils, thymic stromal lymphopoietin and periostin

T. Hashimoto, T. Satoh
Dermatology, Boei Ika Daigakko, Tokorozawa, Saitama, Japan

16:10-16:20 **ORAL 145 [POSTER 974]**

Decreased epidermal thickening by imiquimod in mice with conditional aryl hydrocarbon receptor ablation in langerhans cells: A potential role of autophagy by dysregulated AhR activation in psoriasis

C. Hong[1], C. Lee[2]
[1]Dermatology, National Yang Ming Chiao Tung University, Taipei, Taiwan, [2]Dermatology, Chang Gung Memorial Hospital Kaohsiung Branch, Kaohsiung, Taiwan

16:20-16:30 **ORAL 146 [POSTER 963]**

Linear ubiquitin chain assembly complex (LUBAC) is involved in the development of murine imiquimod (IMQ)-induced and IL-23-induced psoriasis models

K. I. Kosaka[1], S. Nakamizo[1], G. Egawa[1], K. Iwai[2], K. Kabashima[1]
[1]Departments of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, [2]Department of Molecular and Cellular Physiology, Kyoto University Graduate School of Medicine, Kyoto, Japan

16:30-16:40 **ORAL 147 [POSTER 968]**

A role for immunity to the microbiota in nerve overgrowth display in psoriasis skin

J. Delaleu[2, 1], M. Nagai[1], L. Sun[1], N. Bouladoux[1], I. Gribonika[1], D. Corral[1], A. Wells[1], P. Kulalert[1], V. Link[1], M. Enamorado[1], Y. Belkaid[1]
[1]LHIM, National Institutes of Health, Bethesda, Maryland, United States, [2]Hopital Saint Louis, Dermatology Department, Universite Paris Cite, Paris, Île-de-France, France

16:40-16:50 **ORAL 148 [POSTER 958]**

Diversely polarized macrophage populations contribute to distinct manifestations of human cutaneous graft-versus-host disease

J. Strobl[1, 2, 3], L. Gail[3, 1], L. Krecu[1], S. Mahdad[2], L. Kleissl[1], P. Wohlfarth[4], H. Knaus[4], W. Rabitsch[4], M. Haniffa[2, 5], G. Stary[1, 3]
[1]Department of Dermatology, Medizinische Universitat Wien, Wien, Austria, [2]Wellcome Sanger Institute, Hinxton, Cambridgeshire, United Kingdom, [3]CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences, Vienna, Austria, [4]Bone Marrow Transplantation, Medizinische Universitat Wien Universitatsklinik fur Innere Medizin I, Wien, Austria, [5]Department of Dermatology and NIHR Newcastle Biomedical Research Centre, Newcastle University, Newcastle upon Tyne, Tyne and Wear, United Kingdom

16:50-17:00 **ORAL 149 [POSTER 1005]**

Low levels of IL-13 are constitutively produced in healthy skin and locally imprint a pro-type 2 immune response

J. Mayer[1, 2], K. Hilligan[2, 4], D. Eccles[2], S. Old[2], R. Domingues[3], M. Hepworth[3], O. Lamiable[2], F. Ronchese[2]
[1]Department of Dermatology and Allergology, Philipps-Universitat Marburg Fachbereich Medizin, Marburg, Germany, [2]Malaghan Institute of Medical Research, Wellington, New Zealand, [3]The University of Manchester, Manchester, United Kingdom, [4]National Institutes of Health, Bethesda, Maryland, United States

Continued on next page.

Concurrent Mini-Symposium 9 - *Continued*

FRIDAY, MAY 12, 2023 **15:30 – 18:00** **ROOM D: OHGI, KEIO PLAZA HOTEL**

17:00-17:10 **ORAL 150 [POSTER 925]**

Peripheral sensory neurons contribute to dermatitis induced by staphylococcus aureus cell wall components via the migration of basophils

H. Irie[1], C. Nakashima[2], A. Otsuka[2], Y. Ishida[1], K. Kabashima[1]

[1]Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Kyoto, Japan, [2]Dermatology, Kindai University Faculty of Medicine, Osaka-Sayama, Osaka, Japan

17:10-17:20 **ORAL 151 [POSTER 948]**

The topical TLR8 agonist resiquimod restores defective nucleotide sensing in CTCL

C. Chen[1], N. Smith[2], C. Villani[2], P. Chaskar[3], J. Krishnaswamy[3], J. Teague[1], A. Gehad[1], L. Gray[1], N. Gerard[1], A. Rook[4], R. Clark[1]

[1]Brigham and Women's Hospital, Boston, Massachusetts, United States, [2]Massachusetts General Hospital, Boston, Massachusetts, United States, [3]Galderma SA, Lausanne, Switzerland, [4]University of Pennsylvania, Philadelphia, Pennsylvania, United States

17:20-17:30 **ORAL 152 [POSTER 1028]**

Cathelicidin peptide LL37 complexed to dsRNA induces the release of interleukin-36γ from human primary keratinocytes

J. Keller[1, 4], J. Danis[2], E. Girousi[1, 4], J. Börold[1, 4], M. Szell[2], L. E. French[3], T. M. Kündig[1, 4], M. Mellett[1, 4]

[1]Dermatology, UniversitatsSpital Zurich, Zurich, Switzerland, [2]Dermatological Research Group, Szegedi Tudomanyegyetem, Szeged, Csongrád, Hungary, [3]Dermatology, Ludwig-Maximilians-Universitat Munchen Medizinische Fakultat, Munchen, Bayern, Germany, [4]Universitat Zurich Medizinische Fakultat, Zurich, ZH, Switzerland

17:30-17:40 **ORAL 153 [POSTER 980]**

Demodex mites reveal an unanticipated expansion of innate lymphoid-like cells in immunodeficient mice

E. Arouge[1], A. Subramanian[1], A. Schroeder[2], V. Cortez[2], C. O'Leary[3], R. R. Ricardo-Gonzalez[1, 4, 5]

[1]Dermatology, University of California San Francisco, San Francisco, California, United States, [2]University of California San Francisco Department of Medicine, San Francisco, California, United States, [3]Pediatrics, University of Wisconsin-Madison, Madison, Wisconsin, United States, [4]Microbiology and Immunology, University of California San Francisco, San Francisco, California, United States, [5]Chan Zuckerberg Biohub, San Francisco, California, United States

17:40-17:50 **ORAL 154 [POSTER 937]**

Disruption of the innate lymphoid cell network alters the hair cycle during induced anagen

K. Sakamoto[1, 2], O. Ayush[1], S. Jin[3, 1], S. Goel[1], A. Sekiguchi[1], T. Honda[2], K. Nagao[1]

[1]Dermatology Branch, NIAMS, National Institutes of Health, Bethesda, Maryland, United States, [2]Dermatology, Hamamatsu Ika Daigaku, Hamamatsu, Shizuoka, Japan, [3]Dermatology, Seoul National University, Gwanak-gu, Seoul, Korea (the Republic of)

17:50-18:00 **ORAL 155 [POSTER 975]**

Skin inflammation disrupts intestinal antimicrobial activity and the gut microbiome

T. Dokoshi[1], G. Rahman[1], K. Cavagnero[1], S. Brinton[1], H. Schwarz[1], Y. Nakamura[1], Y. Chen[1], N. Salzman[2], R. Knight[1], R. L. Gallo[1]

[1]University of California San Diego, La Jolla, California, United States, [2]Medical College of Wisconsin, Milwaukee, Wisconsin, United States

Concurrent Mini-Symposium 10

Pharmacology and Drug Development

Basic and preclinical studies aimed at developing therapeutics, elucidating their mechanisms of action, and identifying biomarkers of drug activity.

FRIDAY, MAY 12, 2023 **15:30 – 18:00** **ROOM E: MOONLIGHT, KEIO PLAZA HOTEL**

Moderators:
Dr. Riichiro Abe, Dr. Brian Capell, Dr. Su Lwin

15:30-15:40 **ORAL 156 [POSTER 1064]**
Desmoglein 2 is a safe and universal CAR-T cell therapy target in solid cancers
R. D. Carlson[1], S. A. Waldman1, M. G. Mahoney[2], A. E. Snook[1]
[1]Department of Pharmacology, Physiology, and Cancer Biology, Thomas Jefferson University, Philadelphia, Pennsylvania, United States, 2Dermatology & Cutaneous Biology, Thomas Jefferson University, Philadelphia, Pennsylvania, United States

15:40-15:50 **ORAL 157 [POSTER 1109]**
First-in-class oral peptide systemically targeting the IL-23 pathway
A. Fourie[1], X. Cheng[2], L. Chang[1], C. Greving[1], A. Patrick[1], B. Knight[1], D. Polidori[1], R. Patch[1], A. Bhandari[2], D. Liu[2], K. Huie[2], S. Li[2], M. Rodriguez[1], A. Kannan[1], J. Sherlock[1], N. Modi[2]
[1]Janssen Research and Development LLC, Raritan, New Jersey, United States, [2]Protagonist Therapeutics Inc, Newark, California, United States

15:50-16:00 **ORAL 158 [POSTER 1060]**
IMG-008, a potent anti-human IL-36R antagonistic antibody, inhibits IL-36R-mediated inflammation
R. Lei[1], P. Fan[1], M. Zhang[1], Y. Wang[1], C. Guo[1], J. Wang[2]
[1]Inmagene Biopharmaceuticals (Hangzhou) Co., Ltd., Hangzhou, Zhejiang, China, 2Inmagene LLC, San Diego, California, United States

16:00-16:10 **ORAL 159 [POSTER 1065]**
The topical AhR agonist tapinarof has broad in vivo immunosuppressive and immunomodulatory effects in human skin grafted mice
G. Brito, A. Gehad, J. Teague, C. Chen, W. Crisler, L. Gray, I. Kim, R. Clark
Brigham and Women's Hospital, Boston, Massachusetts, United States

16:10-16:20 **ORAL 160 [POSTER 1075]**
Topical application of activator protein-1 inhibitor T-5224 suppresses inflammation and improves skin barrier function in atopic dermatitis
M. Sasakura[1], H. Urakami[1], K. Tachibana[1], K. Ikeda[1], D. Ennishi[2], S. Tomida[2], S. Morizane[1]
[1]Department of Dermatology, Okayama Daigaku Daigakuin Ishiyakugaku Sogo Kenkyuka, Okayama, Japan, [2]Center for Comprehensive Genomic Medicine, Okayama Daigaku Byoin, Okayama, Japan

16:20-16:30 **ORAL 161 [POSTER 1104]**
Novel and selective TRPV3 inhibitors as new potential treatments for keratodermas and itch
E. Brener[1], T. Mashriki[1], M. McGrath[2], L. Marchal[2], E. Ella[1], M. Moran[1], S. Leibman Barak[1], B. Vaisman[1], D. Terkieltaub[1], N. Schutz[1], A. Hovnanian[2], L. Braiman[1]
[1]Kamari Pharma Ltd., Ness Ziona, Israel, 2Institut Imagine Institut des Maladies Genetiques, Paris, Île-de-France, France

16:30-16:40 **ORAL 162 [POSTER 1111]**
Topical γ-linolenic acid restores skin barrier dysfunction and ameliorates atopic dermatitis in hairless mice
M. Fujii[1], S. Ohya[1, 2], T. Nabe[1, 3]
[1]Pharmacology, Kyoto Yakka Daigaku, Kyoto, Japan, [2]Pharmacology, Nagoya Shiritsu Daigaku, Nagoya, Aichi, Japan, [3]Immunopharmacology, Setsunan Daigaku, Neyagawa, Osaka, Japan

16:40-16:50 **ORAL 163 [POSTER 1101]**
Tapinarof, a therapeutic AHR-modulating agent, induces semaphorin 3A production via NRF2 in human keratinocytes: Implications for atopic dermatitis
G. Tsuji[1], A. Takai-Yumine[1], M. Takemura[1], K. Yamamura[1], T. Ito[2], M. Kido-Nakahara[2], T. Nakahara[1, 2]
[1]Research and Clinical Center for Yusho and Dioxin, Kyushu Daigaku Byoin, Fukuoka, Japan, [2]Dermatology, Kyushu Daigaku Igakubu Daigakuin Igakukei Gakufu Daigakuin Igaku Kenkyuin, Fukuoka, Japan

16:50-17:00 **ORAL 164 [POSTER 1099]**
Rational development of JAK1-selective siRNA therapeutics for the treatment of autoimmune skin diseases
Q. Tang[1, 2], H. Fakih[2], M. Zain Ul Abideen[2], K. Afshari[1], K. Gross[2], J. Alterman[2], A. Khvorova[2], J. E. Harris[1]
[1]Dermatology, University of Massachusetts Chan Medical School, Worcester, Massachusetts, United States, [2]RNA Therapeutics Institute, University of Massachusetts Chan Medical School, Worcester, Massachusetts, United States

17:00-17:10 **ORAL 165 [POSTER 1078]**
Topical administration of MDI1228, a novel pan-JAK inhibitor, effectively suppresses the development of skin inflammation in mice
Y. Liu, M. Yin, Y. Yang, L. Zhang
School of Pharmaceutical Science, Xiamen University, Xiamen, Fujian, China

Continued on next page.

Concurrent Mini-Symposium 10 - *Continued*

FRIDAY, MAY 12, 2023 **15:30 – 18:00** **ROOM E: MOONLIGHT, KEIO PLAZA HOTEL**

17:10-17:20 **ORAL 166 [POSTER 1116]**

Novel androgen receptor degrader for androgenetic alopecia (AGA) application

C. Chou, C. Liu, P. Liu, P. Cheng, H. Chen, K. Chen, C. Lin
AnHorn Medicines Co., Ltd., Taipei, Taiwan

17:20-17:30 **ORAL 167 [POSTER 1069]**

Fate induction in CD8 chimeric antigen receptor T cells through asymmetric cell division

C. Ellebrecht[1, 2], C. Lee[1, 2], A. R. Kelly[2, 3], C. Berry[1, 2], S. Oh[1, 2], R. O'Connor[2, 3], A. Payne[1, 2]
[1]Department of Dermatology, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States, [2]Center for Cellular Immunotherapies, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States, [3]Department of Pathology and Laboratory Medicine, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States

17:30-17:40 **ORAL 168 [POSTER 1126]**

A pilot of a microdevice for *in situ* candidate drug screening in cutaneous lesions of T-cell lymphoma

K. Awh[1, 2], C. J. Fay[1, 2], N. LeBoeuf[1, 2], O. Jonas[3], C. Larocca[1, 2]
[1]Brigham and Women's Hospital Department of Dermatology, Boston, Massachusetts, United States, [2]Cutaneous Oncology, Dana-Farber Cancer Institute, Boston, Massachusetts, United States, [3]Brigham and Women's Hospital Department of Radiology, Boston, Massachusetts, United States

17:40-17:50 **ORAL 169 [POSTER 1089]**

Targeting right open reading frame protein kinase 3 (RIOK3) for the modulation of type III IFN in skin

M. Diaz[1], M. Diaz[1], J. Kreitinger[1], T. C. Bisom[2], J. Lodmell[3], P. Diaz[1, 4]
[1]DermaXon, Missoula, Montana, United States, [2]Dept. of Chemistry and Biochemistry, University of Montana College of Humanities and Sciences, Missoula, Montana, United States, [3]Division of Biological Sciences, University of Montana College of Humanities and Sciences, Missoula, Montana, United States, [4]Department of Biomedical and Pharmaceutical Sciences, University of Montana College of Health, Missoula, Montana, United States

17:50-18:00 **ORAL 170 [POSTER 1098]**

Anti-inflammatory and antibacterial drug delivery nanocarriers for the topical treatment of MRSA-induced systemic and localized infections

Y. Chang[1], C. Lin[1], T. Huang[1, 2, 3], J. Fang[1, 2, 3]
[1]Graduate Institute of Natural Products, Chang Gung University, Taoyuan, Taiwan, [2]Department of Anesthesiology, Chang Gung Memorial Hospital Linkou, Taoyuan, Taiwan, [3]Research Center for Food and Cosmetic Safety and Research Center for Chinese Herbal Medicine, Chang Gung University of Science and Technology, Gueishan, Taoyuan, Taiwan

Concurrent Mini-Symposium 11

Photobiology/Skin of Color

Studies on biological, biochemical, and molecular responses to ultraviolet radiation in cells, animals and humans/Studies of the pathogenesis or treatment of skin diseases that disproportionately affect patients from, or are more severe in their manifestation in, racial/ethnic groups with skin of color, such as keloids, scarring alopecias, disorders of pigmentation, systemic lupus erythematosus, dermatomyositis, among others.

FRIDAY, MAY 12, 2023 **15:30 – 18:00** **ROOM F: HARMONY, KEIO PLAZA HOTEL**

Moderators:
Dr. Hee Young Kang, Dr. Raymond Konger, Dr. Andrea Szegedi

15:30-15:40 **ORAL 171 [POSTER 1161]**
UV irradiation modulates appetite and body weight through upregulating norepinephrine in mice
Q. Quan[1, 2, 3], E. Kim[1, 2, 3], Y. Kim[1, 2, 3], S. Kim[1, 2, 3], M. Chung[1, 2, 3], Y. Tian[1, 2, 3], C. Shin[1, 2, 3], D. Lee[1, 2, 3], J. Chung[1, 2, 3]
[1]Dermatology, Seoul National University College of Medicine, Seoul, Korea (the Republic of), [2]Laboratory of Cutaneous Aging Research, Biomedical Research Institute, Seoul National University Hospital, Seoul, Korea (the Republic of), [3]Institute of Human-Environment Interface Biology, Seoul National University, Seoul, Korea (the Republic of)

15:40-15:50 **ORAL 172 [POSTER 1163]**
Skin commensal bacteria modulate ultraviolet radiation-induced cytokine secretion in human keratinocytes
H. Serrage[1], M. Farrar[1], A. J. Mcbain[1], J. Pennock[1], C. Deng[1], C. O'Neill[1, 2]
[1]The University of Manchester, Manchester, United Kingdom, [2]Skin BioTherapeutics PLC, Newcastle, United Kingdom

15:50-16:00 **ORAL 173 [POSTER 1146]**
Mitochondrial dysfunction in xeroderma pigmentosum type A (XPA) causes UV-induced collapse of proteostasis due to lack of ATP
M. Majora, R. Bhattacharjee, S. Dangeleit, A. Rossi, J. Krutmann
IUF – Leibniz Research Institute for Environmental Medicine, Düsseldorf, Germany

16:00-16:10 **ORAL 174 [POSTER 1136]**
Xeroderma Pigmentosum: From disease modeling using CRISPR-Cas9 technology to the understanding of skin cancers pathophysiology
A. Nasrallah[1], F. Kobaisi[1], S. Bourgoin-Voillard[2], F. Clement[1], X. Gidrol[1], M. Seve[2], E. Sulpice[1], W. Rachidi[1]
[1]Univ. Grenoble Alpes, CEA, INSERM, 38000 Grenoble, France, Grenoble, France, [2]Univ. Grenoble Alpes, CNRS, TIMC U5525, EPSP 38000 Grenoble, France, Grenoble, France

16:10-16:20 **ORAL 175 [POSTER 1145]**
Evidence that microvesicle particles mediate the photosensitivity associated with xeroderma pigmentosum A deficiency
P. Manjrekar, L. R. Christian, C. Rapp, K. M. Henkels, R. Annamraju, Y. Chen, J. Travers
Pharmacology & Toxicology, Wright State University Boonshoft School of Medicine, Dayton, Ohio, United States

16:20-16:30 **ORAL 176 [POSTER 1166]**
Kinome siRNA screening for the treatment of the XPC cancer-prone disease
F. Kobaisi[1], E. Sulpice[2], A. Nasrallah[1], X. Gidrol[2], W. Rachidi[1]
[1]Universite Grenoble Alpes, Saint-Martin-d'Heres, Auvergne-Rhône-Alpes , France, [2]IRIG, Commissariat a l'energie atomique et aux energies alternatives Siege administratif, Grenoble, France

16:30-16:40 **ORAL 177 [POSTER 1168]**
Neutrophil cytokines and NETs mediate skin and kidney inflammation in lupus flare under UVB irradiation
X. Lyu[1], M. Li[1], P. Zhang[2], W. Wei[1], V. P. Werth[3], M. Liu[3]
[1]Tianjin Medical University, Tianjin, China, [2]Beaumont Health, Royal oak, Michigan, United States, [3]University of Pennsylvania, Philadelphia, Pennsylvania, United States

16:40-16:50 **ORAL 178 [POSTER 1156]**
Single-cell RNA sequencing of photoaged skin reveals SLC46A2 as potential cGAMP transporter in keratinocytes
D. J. Kim[1], A. Billi[3], A. Chien[2], G. J. Fisher[3], J. J. Voorhees[3], J. Gudjonsson[3], S. Kang[2]
[1]Yale School of Medicine, New Haven, Connecticut, United States, [2]Johns Hopkins Medicine, Baltimore, Maryland, United States, [3]University of Michigan, Ann Arbor, Michigan, United States

16:50-17:00 **ORAL 179 [POSTER 1291]**
Tralokinumab improves signs, symptoms, and key biomarkers in patients of different racial subgroups with atopic dermatitis
A. Alexis[1], A. Blauvelt[2], A. Armstrong[3], L. Kircik[4], K. Kabashima[5], N. Katoh[6], B. Esdaile[7], M. Røpke[8], A. Kurbasic[8], S. Schneider[9], E. Guttman-Yassky[4]
[1]Weill Cornell Medicine, New York, New York, United States, [2]Oregon Medical Research Center, Portland, Oregon, United States, [3]University of Southern California Keck School of Medicine, Los Angeles, California, United States, [4]Icahn School of Medicine at Mount Sinai, New York, New York, United States, [5]Graduate School of Medicine, Kyoto University, Kyoto, Japan, [6]Kyoto Prefectural University of Medicine Graduate School of Medical Science, Kyoto, Japan, [7]Whittington Health NHS Trust, London, United Kingdom, [8]LEO Pharma A/S, Ballerup, Hovedstaden, Denmark, [9]LEO Pharma Inc, Madison, New Jersey, United States

17:00-17:10 **ORAL 180 [POSTER 1301]**
Polyamines: Novel regulators of human epidermal pigmentation
A. Sridharan[1], Z. Lim[1], K. Igarashi[4], A. N. Tan[3], S. T. Thng[2], L. A. Vardy[1]
[1]Agency for Science Technology and Research, Singapore, Singapore, [2]National Skin Centre, Singapore, Singapore, [3]Nanyang Technological University, Singapore, Singapore, [4]Chiba Daigaku Daigakuin Igaku Kenkyuin Igakubu, Chiba, Japan

Continued on next page.

Concurrent Mini-Symposium 11 - *Continued*

FRIDAY, MAY 12, 2023 **15:30 – 18:00** **ROOM F: HARMONY, KEIO PLAZA HOTEL**

17:10-17:20 **ORAL 181 [POSTER 1305]**

Involucrin/ck1e/vitamin D receptor regulatory axis underlies evolution of human epidermis out of Africa

A. R. Hicks[1, 2], A. D. Schmidt[3], M. Mathyer[3], C. de Guzman Strong[1, 2, 3]

[1]Dermatology, Henry Ford Health System, Detroit, Michigan, United States, [2]Medicine, Michigan State University College of Human Medicine, East Lansing, Michigan, United States, [3]Medicine, Washington University in St Louis School of Medicine, St Louis, Missouri, United States

17:20-17:30 **ORAL 182 [POSTER 1318]**

Racial differences in the skin microbiome of cutaneous T cell lymphoma patients

L. Ayanruoh[1], M. J. Hooper[1], T. Griffin[1], G. Enriquez[2], J. Choi[1], J. Guitart[1], M. Burns[2], X. Zhou[1]

[1]Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, [2]Biology, Loyola University Chicago, Chicago, Illinois, United States

17:30-17:40 **ORAL 183 [POSTER 1320]**

Keloid transcriptome analysis: ZNF469 more than meets the eye

S. Hamzehlou[1], C. Xing[2], D. Glass[1, 2]

[1]Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, [2]McDermott Center for Human Growth and Development, The University of Texas Southwestern Medical Center, Dallas, Texas, United States

17:40-17:50 **ORAL 184 [POSTER 1294]**

Proteomic profiling of CCCA reveals unique inflammatory and metabolic protein signature

A. Gadre[1], T. Dyson[2], C. Aguh[1]

[1]Dept of Dermatology, Johns Hopkins Medicine, Baltimore, Maryland, United States, [2]Eastern Virginia Medical School, Norfolk, Virginia, United States

17:50-18:00 **ORAL 185 [POSTER 1312]**

Heterogeneities in proteomic profiles among African American and East African patients with atopic dermatitis

D. Liu[1], E. Del Duca[1], Y. Renert-Yuval[2], C. Lang[3], H. Kaderbhai[4], G. Semango[4], M. Brüggen[3], J. Krueger[2], J. Masenga[4], E. Guttman-Yassky[1]

[1]Dermatology, Icahn School of Medicine at Mount Sinai, New York, New York, United States, [2]Laboratory of Investigative Dermatology, The Rockefeller University, New York, New York, United States, [3]Dermatology, UniversitatsSpital Zurich, Zurich, Switzerland, [4]Dermatology, Regional Dermatology Training Centre, Moshi, Tanzania, United Republic of

Concurrent Mini-Symposium 12

Skin, Appendages, and Stem Cell Biology

Studies on the hair follicle, sebaceous gland, and other skin appendages; developmental biology of skin and hair; roles of stem cells in pre and post-natal growth and development.

FRIDAY, MAY 12, 2023 **15:30 – 18:00** **ROOM G: TAKAO, KEIO PLAZA HOTEL**

Moderators:
Dr. Ohsang Kwon, Dr. Sunny Wong, Dr. Carien Niessen

15:30-15:40 **ORAL 186 [POSTER 1390]**
Active hair growth is fuelled by conveyor-belt like differentiation of germinative layer cells
K. Annusver[1], D. Pereira[2], D. Fernandex[1], B. Robert[3], J. Nicolas[3], M. Kasper[1], I. Sequeira[2]
[1]Department of Cell and Molecular Biology, Karolinska Institutet, Stockholm, Sweden, [2]Queen Mary University of London Barts and The London School of Medicine and Dentistry, London, United Kingdom, [3]Institut Pasteur, Paris, Île-de-France, France

15:40-15:50 **ORAL 187 [POSTER 1322]**
A non-cell autonomous dermal hedgehog signaling mechanism for follicular neoplasia and induction.
S. Li[1, 2], A. Shah[2], E. Sanchez-Ortiz[2], N. Liu[2], E. Olson[2]
[1]Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, [2]Molecular Biology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States

15:50-16:00 **ORAL 188 [POSTER 1401]**
ΔNp63 regulates homeostasis, stemness, and suppression of inflammation in the adult epidermis
C. Eyermann[1], X. Chen[1], O. Somuncu[1], A. Joukov[2], J. Chen[1], E. Alexandrova[1]
[1]Stony Brook University, Stony Brook, New York, United States, [2]Ward Melville High School, East Setauket, New York, United States

16:00-16:10 **ORAL 189 [POSTER 1439]**
Development of a complex skin organ in human induced pluripotent stem cell-derived organoids
A. Shafiee[1, 2, 3], J. Sun[1], I. Ahmed[1], J. Brown[2, 3], K. Khosrotehrani[1]
[1]The University of Queensland, Brisbane, Queensland, Australia, [2]Herston Biofabrication Institute, Metro North Hospital and Health Service, Brisbane, Queensland, Australia, [3]Royal Brisbane and Women's Hospital, Metro North Hospital and Health Service, Brisbane, Queensland, Australia

16:10-16:20 **ORAL 190 [POSTER 1426]**
Deletion of hoxc13 in frogs reveals key steps in the molecular evolution of cornified skin appendages
A. P. Sachslehner[1], M. Carron[2, 3], S. Demuynck[2], E. De Baere[3], K. Vleminckx[2], L. Eckhart[1]
[1]Department of Dermatology, Medical University of Vienna, Vienna, Austria, [2]Department of Biomedical Molecular Biology, Ghent University, Ghent, Belgium, [3]Department of Biomolecular Medicine, Ghent University, Ghent, Belgium

16:20-16:30 **ORAL 191 [POSTER 1397]**
LSD1 is critical for epidermal development and skin barrier formation
N. Kuprasertkul, S. Egolf, C. Magahis, C. D'souza, J. Zou, D. Brennan-Crispi, B. C. Capell
University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States

16:30-16:40 **ORAL 192 [POSTER 1438]**
KLF4 maintains hair follicle stem cell quiescence
M. Xu[1], D. Moran[2], K. M. Szigety[2], X. Zhu[1], S. Millar[1]
[1]Department of Cell, Developmental and Regenerative Biology, Icahn School of Medicine at Mount Sinai Black Family Stem Cell Institute, New York, New York, United States, [2]Department of Dermatology, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States

16:40-16:50 **ORAL 193 [POSTER 1418]**
Characterization of ectomesenchyme as an origin of epidermal stem cells
A. Miura[1], Y. Kobayashi[1], Y. Hirose[1], A. Yamanishi[1], Y. Ouchi[2], R. Yamamoto[2], T. Kitayama[2], E. Takaki[2], T. Shimbo[2], K. Tamai[1]
[1]Stem Cell Therapy Science, Osaka University Graduate School of Medicine, Suita-city, Osaka, Japan, [2]StemRIM Institute of Regeneration-Inducing Medicine, Osaka University, Suita-city, Osaka, Japan

16:50-17:00 **ORAL 194 [POSTER 1376]**
A multi-scale spatial atlas of human skin links cancer cell states to site of origin
C. Ganier[1], B. Du-Harpur[1], G. Herrera-Oropeza[8], P. Mazin[2], A. Predeus[2], J. Gabriel[1], N. Harun[1], M. Blakeley[1], J. Darrigrand[1], A. Haiser[1], S. Wyles[3], T. J. Shaw[4], S. Teichmann[2], M. Haniffa[2, 5], F. M. Watt[1, 6], M. Lynch[1, 7]
[1]Centre for Gene Therapy and Regenerative Medecine, Guy's Hospital, King's College London Faculty of Life Sciences and Medicine, London, United Kingdom, [2]Wellcome Sanger Institute, Hinxton, Cambridgeshire, United Kingdom, [3]Department of Dermatology, Mayo Clinic Minnesota, Rochester, Minnesota, United States, [4]Centre for Inflammation Biology & Cancer Immunology, King's College London School of Medical Education, London, United Kingdom, [5]Department of Dermatology, Newcastle Upon Tyne Hospitals NHS Foundation Trust, Newcastle Upon Tyne, United Kingdom, [6]Gesellschaft zur Forderung der Lebenswissenschaften Heidelberg GmbH, Heidelberg, Baden-Württemberg, Germany, [7]St John's Institute of Dermatology, King's College London Faculty of Life Sciences and Medicine, London, United Kingdom, [8]King's College London Institute of Psychiatry Psychology and Neuroscience, London, United Kingdom

Continued on next page.

Concurrent Mini-Symposium 12 - *Continued*

FRIDAY, MAY 12, 2023 **15:30 – 18:00** **ROOM G: TAKAO, KEIO PLAZA HOTEL**

17:00-17:10 **ORAL 195 [POSTER 1352]**

Ectopic fibroblasts to modify skin identity

S. S. Lee[1], P. Derr[2], E. Dare[1], E. Sweren[1], K. Derr[2], B. Hardesty[1], C. Wang[1], A. Willis[1], J. Chen[3], J. Vuillier[1], J. Du[1], M. Daskam[1], J. Wool[1], A. Ruci[1], V. . Wang[1], C. Lee[1], S. Iyengar[1], D. Cho[1], E. Martinez-Pena[1], S. Lee[1], X. He[1], S. Kim[1], Y. Chen[3], S. Kang[1], L. A. Garza[1]

[1]Dermatology, Johns Hopkins Medicine, Baltimore, Maryland, United States, [2]National Center for Advancing Translational Sciences, Rockville, Maryland, United States, [3]Johns Hopkins University Whiting School of Engineering, Baltimore, Maryland, United States

17:10-17:20 **ORAL 196 [POSTER 1381]**

Investigating the role of Mef2c in hair follicle cycling

T. Tien[1, 3], N. Pantelireis[1, 2], C. Higgins[2], C. Clavel[1, 3]

*[1]A*STAR Skin Research Labs, Agency for Science Technology and Research, Singapore, Singapore, [2]Imperial College London Department of Bioengineering, London, London, United Kingdom, [3]Lee Kong Chian School of Medicine, Singapore, Singapore*

17:20-17:30 **ORAL 197 [POSTER 1443]**

Skin regional specificity and the regulation of HoxC gene cluster

S. Hsieh Li[1, 2], Y. Liang[1], R. Widelitz[1], L. Andersson[3], P. Wu[1], C. Chuong[1]

[1]Pathology, University of Southern California, Los Angeles, California, United States, [2]Biochemistry, National Defense Medical Center, Taipei, Taiwan, [3]Medical Biochemistry and Microbiology, Uppsala universitet Medicinska fakulteten, Uppsala, Sweden

17:30-17:40 **ORAL 198 [POSTER 1360]**

Fate tracing of DNA-damaged hair follicle stem cells and their senodifferentiation clearance out of the niche

M. Miranda, H. Matsumura, K. Asakawa, T. Kato, Y. Muroyama, M. Higa, L. Tan, Y. Kawamura, E. K. Nishimura

Division of Aging and Regeneration, Institute of Medical Science, The University of Tokyo, Tokyo, Japan

17:40-17:50 **ORAL 199 [POSTER 1383]**

Dermal adipogenesis is regulated by an interplay between the WNT-β-catenin and IL1 signaling pathways during skin development and regeneration

X. Zhang[3], L. Sun[3], S. Wu[3], W. Liu[3], Y. Liu[3], F. Li[1], Q. Yao[3], J. Li[3], J. Huang[2], C. Ji[2], R. L. Gallo[1], L. Zhang[3]

[1]Department of Dermatology, University of California San Diego, La Jolla, California, United States, [2]Department of Dermatology, First Affiliated Hospital of Fujian Medical University, Fuzhou, Fujian, China, [3]State Key Laboratory of Cellular Stress Biology, School of Pharmaceutical Sciences, Xiamen University, Xiamen, Fujian, China

17:50-18:00 **ORAL 200 [POSTER 1356]**

Wound memory predisposes to tumorigenesis

M. Watanabe[1, 2, 5], C. Levralevron[1, 2], V. Proserpio[1, 2, 3], G. Piacenti[1, 2], A. Lauria[1, 2, 3], S. Kaltenbach[4], A. Tamburrini[1, 2, 3], K. Natsuga[5], T. Hagai[4], S. Oliviero[1, 2, 3], G. Donati[1, 2]

[1]Life Sciences and Systems Biology, Universita degli Studi di Torino, Torino, Piemonte, Italy, [2]Molecular Biotechnology Center, Universita degli Studi di Torino, Torino, Piemonte, Italy, [3]Italian Institute for Genomic Medicine, Torino, Piemonte, Italy, [4]George S Wise Faculty of Life Sciences, Tel Aviv University The Shmunis School of Biomedicine and Cancer Research, Tel Aviv, Israel, [5]Dermatology, Hokkaido Daigaku Daigakuin Igaku Kenkyuin, Sapporo, Hokkaido, Japan

Select ePoster Discussions, Session 2

Artificial Intelligence (AI) and Image Analysis/Translational Studies/ Pigmentation & Melanoma

Use of artificial intelligence and machine learning in healthcare; Technologies used for medical imaging and diagnostics/Studies that translate basic research findings into human model systems (i.e. human tissue and/or cells) or humans/Studies on all aspects of cutaneous and extracutaneous pigmentation; molecular cellular and biological facets of melanomama

FRIDAY, MAY 12, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #1**

Moderators:
Dr. Kazutoshi Harada, Dr. Jeffrey Cheng

#205
Annotation-free deep learning identifies cellular neighborhoods associated with responses to immunotherapy in patients with melanoma
D. Jimenez-Sanchez, B. Green, J. Roskes, L. Engle, M. Eminizer, A. Szalay, J. Taube
Johns Hopkins University, Baltimore, Maryland, United States

#1548
Identification of a neutrophil-specific PIK3R1 mutation facilitates targeted treatment in a patient with sweet syndrome
S. Bhattacharya[1], S. Basu[1], E. Sheng[1], J. Wei[1], A. Kersh[1], C. Nelson[1], J. Bryer[1], H. Ashchyan[1], K. Steele[1], A. Forrestel[1], J. T. Seykora[1], R. Micheletti[1], W. James[1, 2], M. Rosenbach[1], T. Leung[1, 2]
[1]Dermatology, University of Pennsylvania, Philadelphia, Pennsylvania, United States, [2]Dermatology, VA Medical Center Corporal Michael J Crescenz, Philadelphia, Pennsylvania, United States

#1597
Topical calcipotriol plus 5-fluorouracil immunotherapy eliminates premalignant skin lesions through a T helper 2 cell/interleukin-24 axis
V. Oliver-García[1], T. Oka[1], H. G. Son[1], M. Azin[1], T. Cunningham1, M. Tabacchi[2], L. Cornelius[2], S. Demehri[1]
[1]Dermatology and Cancer Center, Massachusetts General Hospital, Boston, Massachusetts, United States, [2]Dermatology Division, Washington University in St Louis School of Medicine, St Louis, Missouri, United States

#218
Predicting mortality in systemic sclerosis patients using machine learning approaches
A. Jang[1], S. Patel[2], S. Patel[1], S. Shah[3], P. Lio[1]
[1]Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, [2]University of Miami School of Medicine, Miami, Florida, United States, [3]University of Missouri Kansas City School of Medicine, Kansas City, Missouri, United States

#1568
Identification of fibroinflammatory and fibrotic transcriptomic subsets of human sclerotic cutaneous chronic graft-versus-host disease
R. Rosenstein[2], J. Rose[3], S. Brooks[1], W. Tsai[1], M. Gadina[1], S. Pavletic[4], K. Nagao[1], E. Cowen[1]
[1]National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, United States, [2]Hackensack Meridian Hackensack University Medical Center, Hackensack, New Jersey, United States, [3]BlueRock Therapeutics LLC, Cambridge, Massachusetts, United States, [4]National Cancer Institute, Bethesda, Maryland, United States

#1620
The cutaneous somatic landscape of prurigo nodularis
A. Rajeh[1, 2], H. Cornman[1], A. Kambala[1], M. D. Szeto[1], O. O. Oladipo[1], V. Parthasarathy[1], J. Deng[1], S. V. Reddy[1], Y. Semenov[2], A. Gusev[3], S. Kang[1], S. Kwatra[1]
[1]Department of Dermatology, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States, [2]Department of Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States, [3]Department of Medical Oncology, Dana-Farber Cancer Institute, Boston, Massachusetts, United States

#208
Deep learning–based automatic assessment and cluster analysis of atopic dermatitis: A model for predicting therapeutic efficacy
K. Nakamoto[1], Y. Hayashida[1], K. Tetsushi[2], Y. Aoyama[1]
[1]Dermatology, Kawasaki Ika Daigaku, Kurashiki, Japan, [2]Research Institute for Nanodevices, Hiroshima Daigaku, Higashihiroshima, Hiroshima, Japan

#1542
Allergen sensitization status stratifies IL-31 production by memory T cells in atopic dermatitis
L. Sans-De San Nicolàs[1], I. Figueras-Nart[2], I. García-Jiménez[1], M. Bonfill-Ortí[2], A. Guilabert[3], L. Curto-Barredo[4], M. Bertolín-Colilla[4], M. Ferran[4], E. Serra-Baldrich[5], R. Pujol[4], L. Santamaria-Babí[1]
[1]Immunologia Translacional, Universitat de Barcelona Facultat de Biologia, Barcelona, Spain, [2]Dermatologia, Hospital Universitari de Bellvitge, L'Hospitalet de Llobregat, Spain, [3]Dermatologia, Hospital General de Granollers, Granollers, Spain, [4]Dermatologia, Hospital del Mar, Barcelona, Spain, [5]Dermatologia, Hospital de la Santa Creu i Sant Pau, Barcelona, Spain

#1544
Disruption of a pathologic, skin-resident T17 cell identity in clinically effective IL23 blockade of psoriasis
D. Wu[1], A. Hailer[1], Y. Liu[1], S. Wang[1], E. Purdom[2], J. P. North[3], R. Cho[1], J. Cheng[4, 1]
[1]Department of Dermatology, University of California San Francisco, San Francisco, California, United States, [2]Department of Statistics, University of California Berkeley, Berkeley, California, United States, [3]Dermatopathology Service, University of California San Francisco, San Francisco, California, United States, [4]Dermatology, San Francisco VA Health Care System, San Francisco, California, United States

Continued on next page.

Select ePoster Discussions, Session 2

Artificial Intelligence (AI) and Image Analysis/ Translational Studies/Pigmentation & Melanoma - *Continued*

FRIDAY, MAY 12, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #1**

#1244

Epigenetic & metabolic vulnerabilities of adaptive drug resistance to targeted therapies in melanoma

J. Torrano[1], D. Ravindran-Menon[2], H. Hammerlindl[3], S. Hammerlindl[3], A. A. Emran[4], N. Bordag[5], E. Zuegner[5], N. K. Haass[1], M. Sadowski[6], J. Stow[7], C. Magnes[5], M. Fujita[2], H. Schaider[1]

[1]Frazer Institute, The University of Queensland Faculty of Medicine, Brisbane, Queensland, Australia, [2]Department of Dermatology, University of Colorado Anschutz Medical Campus School of Medicine, Aurora, Colorado, United States, [3]Department of Pharmaceutical Chemistry, University of California San Francisco, San Francisco, California, United States, [4]Cutaneous Biology Research Center, Massachusetts General Hospital, Boston, Massachusetts, United States, [5]JOANNEUM RESEARCH Forschungsgesellschaft mbH, Graz, Steiermark, Austria, [6]Australian Prostate Cancer Research Centre Queensland, Brisbane, Queensland, Australia, [7]The University of Queensland Institute for Molecular Bioscience, Brisbane, Queensland, Australia

#1217

Itaconate inhibits dendritic cell and CD8⁺T cell-mediated autoimmune response and halts vitiligo depigmentation

Y. Wang, J. Ma, P. Kang, J. Chen, Y. Yang, P. Du, S. Li, C. Li

Xijing Hospital, Xian, Shaanxi, China

#1280

Melanin synthesis drives global reprogramming of cellular and tissue metabolism

Z. Eraslan, M. Yusupova, J. You, C. Konrad, Q. Chen, S. Gross, G. Manfredi, J. Zippin

Weill Cornell Medicine, New York, New York, United States

#1209

The fate of melanocytes and the disorganization of basement membrane in a guinea pig model of rhododendrol-induced chemical vitiligo

Y. Kuroda[1, 2], L. Yang[1], F. Yang[1, 2], S. Lai[1], T. Sayo[1, 2], Y. Takahashi[1, 2], D. Tsuruta[3], I. Katayama[1]

[1]Department of Pigmentation Research and Therapeutics, Osaka Koritsu Daigaku Igakubu Daigakuin Igaku Kenkyuka, Osaka, Japan, [2]Biological Science Research Laboratories, Kao Kabushiki Kaisha Odawara Kenkyujo, Odawara, Kanagawa, Japan, [3]Department of Dermatology, Osaka Koritsu Daigaku Igakubu Daigakuin Igaku Kenkyuka, Osaka, Japan

#1234

Immunotherapy induces clonal expansion of cytotoxic tumor-specific TILs in a model of melanoma

G. Micevic[1, 2], A. Daniels[1, 2], K. Flem-Karlsen[1], R. Talty[1], K. Park[1], M. Bosenberg[1], R. Flavell[2]

[1]Dermatology, Yale School of Medicine, New Haven, Connecticut, United States, [2]Immunobiology, Yale University, New Haven, Connecticut, United States

#1250

Induction of tertiary lymphoid structures in a mouse melanoma model under a combination of CXCL13 and anti-PD-1 antibody

M. Yoshimitsu, M. Nakamura, S. Kano, T. Magara, H. Kato, A. Morita

Geriatric and Environmental Dermatology, Nagoya Shiritsu Daigaku Daigakuin Igaku Kenkyuka Igakubu, Nagoya, Aichi, Japan

#1252

Interferon mediated resistance of melanoma cells to oncolytic viruses is regulated by the melanocyte lineage transcription factor MITF

S. Gellert[1], A. Buzzai[1], B. Kruse[1], J. Marine[2], F. Rambow[3], T. Tüting[1]

[1]Otto-von-Guericke-Universitat Magdeburg Medizinische Fakultat, Magdeburg, Germany, [2]Vlaams Instituut voor Biotechnologie KU Leuven Center for Cancer Biology, Leuven, Belgium, [3]Department of Applied Computational Cancer Research, University Hospital Essen, Essen, Germany

#1199

PYK2 regulates PD-L1 expression via JAK/STAT signaling in melanoma

Y. Mizuno[1, 2], M. Umemura[2], F. Suzuki[2], R. Nakakaji[2], Y. Yamaguchi[1], Y. Ishikawa[2]

[1]Department of Environmental Immuno-Dermatology, Yokohama Shiritsu Daigaku Igakubu Daigakuin Igaku Kenkyuka, Yokohama, Kanagawa, Japan, [2]Cardiovascular Research Institute (CVRI), Yokohama Shiritsu Daigaku Igakubu Daigakuin Igaku Kenkyuka, Yokohama, Kanagawa, Japan

#1201

Single-cell, spatial profiling of heterogeneous melanocytic neoplasms

N. Love, M. Kiuru

Dermatology, University of California Davis, Sacramento, California, United States

Selected ePoster Discussions will take place during Poster Sessions that will occur on Thursday and Friday of the ISID Meeting at iPad kiosks located inside of the Poster Hall at the NS Building. The discussions will be thematic tours of selected electronic posters accompanied by a presenting author. Each poster presenter will be asked to briefly describe their work (3 min), followed by a short group discussion (2 min), and that will be held with the help of a moderator. If your poster has been selected for ePoster Discussions, please join the appropriate group at the relevant ePoster kiosk.

Select ePoster Discussions, Session 2

Innate Immunity, Microbiology, and Microbiome I & II

Studies of cells, receptors and effector molecules of the innate immune response; studies on skin microbes, microbiome and infectious processes of the skin.

FRIDAY, MAY 12, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #2**

Moderators:
Dr. Yu Sawada, Dr. Jeremy Di Domizio, Dr. Tamia A. Harris-Tryon

#1015
Immunomodulatory roles of danger-associated molecular patterns in skin inflammation
P. R. Murphy, S. Kumari
Frazer Institute, The University of Queensland, Brisbane, Queensland, Australia

#954
Differential regulation of comedogenesis and folliculitis by free fatty acids metabolized by cutibacterium acnes: Comprehensive analysis of human acne subjects and animal model
T. Sugihira[1, 2], N. Inohara[3], Y. Sato[2], T. Ishii[2], Y. Matsuoka-Nakamura[1, 4], M. Fujimoto[1]
[1]Department of Dermatology, Graduate School of Medicine, Osaka University, Suita, Japan, [2]Basic Research Development Division, Rohto Pharmaceutical Co Ltd, Kizu, Japan, [3]Department of Pathology, University of Michigan, Ann Arbor, Michigan, United States, [4]Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, Osaka University, Suita, Japan

#1001
Gut bacterial sphingolipid production regulates the skin microbiome, skin lipid production and skin barrier homeostasis
M. Lee[1], T. A. Harris-Tryon[2], E. L. Johnson[1]
[1]Division of Nutritional Sciences, Cornell University, Ithaca, New York, United States, [2]Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States

#1037
Triggering receptor expressed on myeloid cells (TREM)-1 modulates cutaneous immune responses and prevents skin cancer
N. Yusuf[1], C. Mier-Aguilar[1], M. A. Sherwani[1], Y. Tsuruta[1], H. Rashid[1], D. Crossman[2], H. Xu[1]
[1]Dermatology, The University of Alabama at Birmingham, Birmingham, Alabama, United States, [2]Genetics, The University of Alabama at Birmingham, Birmingham, Alabama, United States

#942
Inefficient senescent fibroblast clearance in aging skin: The contribution of impaired natural killer cells
A. Koroma, K. Shekhawat, M. Wlaschek, P. Maity, K. Scharffetter-Kochanek
Dermatology, Universitat Ulm, Ulm, Baden-Württemberg, Germany

#949
Lipopeptides derived from skin bacteria modulate the allergic response in human and mouse skin
H. Williams[1], R. Muko[2], E. Wright[1], H. Matsuda[2], P. Arkwright[1], A. Tanaka[2], J. Pennock[1]
[1]Lydia Becker Institute of Immunology & Inflammation, The University of Manchester, Manchester, United Kingdom, [2]Laboratory of Veterinary Molecular Pathology & Therapeutics, Tokyo Noko Daigaku, Fuchu, Tokyo, Japan

#1020
Comprehensive search for therapeutic targets and understanding of fibrosis in hidradenitis suppurativa
T. Omine, D. Utsumi, S. Yamaguchi, K. Takahashi
Dermatology, University of the Ryukyus, Graduate school of Medicine, Nakagami-gun, Okinawa, Japan

#965
The importance of CD206$^+$ macrophages in squaric acid dibutylester-induced hair cycle activation
K. Tomii[1, 2], T. Katakai[2], R. Abe[1]
[1]Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, [2]Department of Immunology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan

#978
Modulation of IL-36-triggered signaling in skin keratinocytes by AMPK
N. Wu[1, 2, 3], Y. Huang[4], L. Chiu[1, 2, 4], J. Wang[1, 3]
[1]Department of Medicine, Mackay Medical College, Sanzhi, Taipei, Taiwan, [2]Institute of Biomedical Sciences, Mackay Medical College, Sanzhi, Taipei, Taiwan, [3]Department of Dermatology, Mackay Memorial Hospital, Taipei, Taiwan, [4]Department of Medical Research, Mackay Memorial Hospital, Taipei, Taiwan

#955
Skin care improves newborn skin dysbiosis associated with atopic dermatitis
T. Ito[1], R. Aoyama[1], S. Nakagawa[2], Y. Yamazaki[1], N. Inohara[2], Y. Ichikawa[3], N. Shimojo[4], Y. Matsuoka-Nakamura[1, 5, 6], M. Fujimoto[1, 5]
[1]Department of Dermatology, Graduate School of Medicine, Osaka University, Suita, Japan, [2]Department of Pathology and Rogel Cancer Center, University of Michigan Medical School, Ann Arbor, Michigan, United States, [3]Ichikawa Clinic, Fukushima, Japan, [4]Center for Preventive Medical Sciences, Chiba University, Chiba, Japan, [5]Cutaneous Immunology, Immunology Frontier Research Center, Osaka University, Suita, Japan, [6]Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, Osaka University, Suita, Japan

Continued on next page.

Select ePoster Discussions, Session 2

Innate Immunity, Microbiology, and Microbiome I & II - *Continued*

FRIDAY, MAY 12, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #2**

#999

Gastrointestinal colonization as a source of staphylococcus aureus in atopic dermatitis

T. Karagounis[1], M. Podkowik[2], J. Shenderovich[3], N. Arguelles[3], A. Srivastava[3], C. Needle[2], G. Putzel[3], V. Oza[1], A. Pironti[3], V. Torres[3], B. Shopsin[2, 3]

[1]Ronald O. Perelman Department of Dermatology, NYU Langone Health, New York, New York, United States, [2]Department of Medicine, NYU Langone Health, New York, New York, United States, [3]Department of Microbiology, NYU Langone Health, New York, New York, United States

#1054

Circulating inflammatory monocytes associated with atopic dermatitis microbial-defined endotypes

C. Chua[1], R. Sethi[1], J. Ong[1], J. Low[1], A. Tay[1], Y. Yew[2], S. Howland[1], F. Ginhoux[1], J. Chen[1], J. E. Common[1], A. Andiappan[1]

[1]Agency for Science Technology and Research, Singapore, Singapore, [2]National Skin Centre, Singapore, Singapore

#908

T-cell receptor signaling and cellular metabolism regulate IL-13-producing capacity of murine epidermal γδ T cells

A. Ibusuki[1], K. Kawai[1, 2], R. J. Argüello[3], T. Kanekura[1]

[1]Department of Dermatology, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan, [2]Department of Dermatology, Kido Hospital, Niigata, Japan, [3]Aix Marseille Université, CNRS, INSERM, CIML, Centre d'Immunologie de Marseille-Luminy, Marseille, France

#911

Mature interleukin-36γ induces epidermal stratum corneum exfoliation in generalized pustular psoriasis via downregulation of corneodesmosine

E. Sato, H. Imayohi, Y. Tsutsui, H. Shimizu, S. Imafuku

Dermatology, Fukuoka University Faculty of Medicine, Fukuoka, Japan

#1040

Calprotectin plays a role in regulating inflammatory cytokine production in human macrophages post-Cutibacterium acnes infection

T. Hsu[3], M. Qin[1], S. Gilliland[3], G. Agak[2], J. Kim[1]

[1]Medicine, University of California Los Angeles David Geffen School of Medicine, Los Angeles, California, United States, [2]Medicine, University of California Los Angeles David Geffen School of Medicine, Los Angeles, California, United States, [3]University of California Los Angeles, Los Angeles, California, United States

#969

Epidermis-specific deletion of miR-149 exacerbates psoriasis-like skin inflammation

L. Luo[1, 2], A. Srivastava[1, 3], J. Freisenhausen[1, 2], P. Saha[1], N. Khera[1], R. Prieux[1], A. Monteiro[1], A. Pivarcsi[4, 2, 1], E. Sonkoly[2, 4, 1]

[1]Dept of Medicine Solna, Karolinska Institutet, Stockholm, Stockholm, Sweden, [2]Department of Medical Sciences, Dermatology &venereology, Uppsala Universitet, Uppsala, Sweden, [3]Stanford University, Stanford, California, United States, [4]Department of Medical Biochemistry and Microbiology, Uppsala Universitet, Uppsala, Sweden

#1004

Dermal extracellular matrix inhibits mast cell activation to skin commensal bacteria

A. Di Nardo[1], S. Alimohammadi[1], K. Kuroki[1], Y. Chang[1], P. A. Insel[2, 3]

[1]Dermatology, University of California San Diego School of Medicine, La Jolla, California, United States, [2]Pharmacology, University of California San Diego School of Medicine, La Jolla, California, United States, [3]Medicine, University of California San Diego School of Medicine, La Jolla, California, United States

Selected ePoster Discussions will take place during Poster Sessions that will occur on Thursday and Friday of the ISID Meeting at iPad kiosks located inside of the Poster Hall at the NS Building. The discussions will be thematic tours of selected electronic posters accompanied by a presenting author. Each poster presenter will be asked to briefly describe their work (3 min), followed by a short group discussion (2 min), and that will be held with the help of a moderator. If your poster has been selected for ePoster Discussions, please join the appropriate group at the relevant ePoster kiosk.

Select ePoster Discussions, Session 2

Cell-Cell Interactions in the Skin/Epidermal Structure and Barrier Function

Studies on cell-cell interactions between specific skin cell types (including but not limited to keratinocytes, nerves (neuro-cutaneous biology), melanocytes, fibroblasts, adipocytes, immune cells and progenitors) in the skin and their local cellular and extracellular environments that affect skin inflammation, sensation (e.g., itch and pain), signaling, adhesion, migration, development and homeostasis/ Research on the components or regulation of keratinocyte proliferation, differentiation, including epidermal barrier maintenance and function.

FRIDAY, MAY 12, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #3**

Moderators:
Dr. Satoru Shinkuma, Dr. Takashi Matsushita, Dr. Adam Glick

#342
Single-cell RNA-seq reveals keratinocytes and fibroblasts are potential key cellular targets of IL-31 in prurigo nodularis
K. Katsuo, S. Nakamizo, G. Egawa, K. Kabashima
Kyoto Daigaku Daigakuin Igaku Kenkyuka Igakubu, Kyoto, Japan

#330
The aryl hydrocarbon receptor contributes to histamine-evoked itch with the involvement of TRPV1 in dorsal root ganglia
H. Yue[1, 2], G. Peng[1, 2], Y. Umehara[2], L. Nguyen[1, 2], A. Ikeda[2, 3], K. Okumura[2], H. Ogawa[2], S. Ikeda[1, 2], F. Niyonsaba[2, 4]
[1]Department of Dermatology and Allergology, Juntendo Daigaku Igakubu Daigakuin Igaku Kenkyuka, Bunkyo-ku, Tokyo, Japan, [2]Atopy (Allergy) Research Center, Juntendo Daigaku Igakubu Daigakuin Igaku Kenkyuka, Bunkyo-ku, Tokyo, Japan, [3]Department of Nephrology, Juntendo Daigaku Igakubu Daigakuin Igaku Kenkyuka, Bunkyo-ku, Tokyo, Japan, [4]Faculty of International Liberal Arts, Juntendo Daigaku, Bunkyo-ku, Tokyo, Japan

#332
Extensive interactions between keratinocytes and immune cells in psoriatic epidermis revealed by single-cell transcriptomics
L. Luo[1, 2, 4], H. Cheng[3], M. Enge[3], A. Pivarcsi[1, 4], E. Sonkoly[1, 2, 4]
[1]Department of Medical Biochemistry and Microbiology (IMBIM), Uppsala Universitet, Uppsala, Sweden, [2]Department of Medical Sciences, Uppsala Universitet, Uppsala, Sweden, [3]Department of Oncology and Pathology, Karolinska Institutet, Stockholm, Stockholm, Sweden, [4]Department of Medicine Solna, Karolinska Institutet, Stockholm, Stockholm, Sweden

#366
CD4⁺ T cells eradicate IFN-unresponsive melanomas that resist CD8⁺ T cell therapy
B. Kruse[1], A. Buzzai[1], N. Shridhar[1], A. Braun[1], S. Gellert[1], K. Knauth[1], J. Peters[1], M. Mengoni[1], T. van der Sluis[1], A. Krone[1], D. Yu[3], S. Höhn[1], Y. Fu[1], M. Essand[3], R. Geffers[4], D. Mougiakakos[1], S. Kahlfuß[1], H. Kashkar[5], E. Gaffal[1], W. Kastenmüller[2], A. Müller[1], T. Tüting[1]
[1]Otto-von-Guericke-Universitat Magdeburg Medizinische Fakultat, Magdeburg, Sachsen-Anhalt, Germany, [2]Julius-Maximilians-Universitat Wurzburg, Wurzburg, Bayern, Germany, [3]Uppsala Universitet, Uppsala, Sweden, [4]Helmholtz-Zentrum fur Infektionsforschung GmbH, Braunschweig, Niedersachsen, Germany, [5]Universitat zu Koln, Koln, Nordrhein-Westfalen, Germany

#362
Multiplexed spatial mapping of panniculitis: Deciphering the signatures of subcutaneous adipose tissue inflammation
R. Ziadlou, M. M. Ameri, M. Brüggen
UniversitatsSpital Zurich Dermatologische Klinik, Zurich, ZH, Switzerland

#343
Exosomes containing miRNAs from keratinocytes under oxidative stress contribute to the destruction of melanocytes and CD8⁺ T cell activation in vitiligo
J. Ma, Y. Yang, S. Guo, T. Gao, C. Li, Z. Jian
Department of Dermatology, Xijing Hospital, Xi'an, Shaanxi, China

#346
Leveraging skin immunity to counteract senescence
M. Mangier, A. Mauroux, C. Mainzer, S. Bordes, E. Aymard, B. Closs
R&D Department, SILAB, Brive, France

#367
Inducible loss of claudin-1 in keratinocytes leads to the induction of itch transmitted by multiple types of sensory nerves
S. Toshima[1, 2], S. Takahashi[1], A. Kubo[2, 3], M. Amagai[2, 4], T. Okada[1]
[1]Laboratory for Tissue Dynamics, Center for Integrative Medical Science, RIKEN, Yokohama, Japan, [2]Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, [3]Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe, Japan, [4]Laboratory for Skin Homeostasis, Center for Integrative Medical Science, RIKEN, Yokohama, Japan

#331
UBE2L3 reduces interleukin-1β secretion in epidermal keratinocytes and deficiency of UBE2L3 results in spontaneous psoriasis-like dermatitis
X. Chen, X. Man
Zhejiang University School of Medicine Second Affiliated Hospital, Hangzhou, Zhejiang, China

#748
Cutibacterium acnes supports the epidermal barrier by promoting epidermal lipid synthesis
S. Almoughrabie[1, 2], L. Cau[2], K. Cavagnero[1], A. O'Neill[1], F. Li[1], A. Roso Mares[1], C. Mainzer[2], B. Closs[2], M. Kolar[1], K. Williams[3], S. Besinger[4], R. L. Gallo[1]
[1]Dermatology, UCSD, La Jolla, California, United States, [2]R&D Department, SILAB, Brive, France, [3]University of California Los Angeles, Los Angeles, California, United States, [4]University of California Los Angeles, Los Angeles, California, United States

Continued on next page.

#699

Select ePoster Discussions, Session 2

Cell-Cell Interactions in the Skin/Epidermal Structure and Function - *Continued*

FRIDAY, MAY 12, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #3**

TEX264 drives autophagic degradation of the endoplasmic reticulum in keratinocytes during epidermal differentiation and upon ER stress
C. L. Simpson, C. J. Johnson, A. Tiwaa
Dermatology, University of Washington, Seattle, Washington, United States

#788
Ferroptosis enhances epidermal cornification through transcriptional and metabolic reprogramming
N. Kuprasertkul[1, 2], C. Magahis[1], S. Egolf[1, 2], C. L. Simpson[3], C. Mesaros[4], K. E. Wellen[5, 2], B. C. Capell[1, 2]
[1]Dermatology, University of Pennsylvania, Philadelphia, Pennsylvania, United States, [2]Penn Epigenetics Institute, University of Pennsylvania, Philadelphia, Pennsylvania, United States, [3]Dermatology, University of Washington, Seattle, Washington, United States, [4]Pharmacology, University of Pennsylvania, Philadelphia, Pennsylvania, United States, [5]Cancer Biology, University of Pennsylvania, Philadelphia, Pennsylvania, United States

#767
Znf750 regulates skin barrier functions independently of epidermal differentiation
B. Schwartz[1], H. Levy[1], G. Menon[2], L. Oss-Ronen[1], I. Cohen[1]
[1]Microbiology, Immunology and Genetics, Ben-Gurion University of the Negev, Beer-Sheva, Southern, Israel, [2]California Academy of Sciences, San Francisco, California, United States

#782
Fucosyltransferase 1 plays a protective role in the development of atopic dermatitis-like disease in mice
Y. Lee[1, 2, 3], N. Li[1, 2, 3], J. Oh[1, 2, 3], J. Suh[1, 2, 3], D. Lee[1, 2, 3], J. Chung[1, 2, 3]
[1]Department of Dermatology, Seoul National University College of Medicine, Seoul, Korea (the Republic of), [2]Institute of Human-Environment Interface Biology, Medical Research Center, Seoul National University, Seoul, Korea (the Republic of), [3]Laboratory of Cutaneous Aging Research, Biomedical Research Institute, Seoul National University Hospital, Seoul, Korea (the Republic of)

#727
Contact hypersensitivity in the absence of loricrin: A checkpoint of percutaneous adaptive immunity
Y. Ishitsuka[1], T. Ogawa[3], D. R. Roop[2], M. Fujimoto[1]
[1]Dermatology, Osaka Daigaku Daigakuin Igakukei Kenkyuka Igakubu, Suita, Osaka, Japan, [2]Department of Dermatology and Charles C. Gates Center for Regenerative Medicine, University of Colorado Anschutz Medical Campus, Aurora, Colorado, United States, [3]Dermatology, Tsukuba Daigaku Igaku Iryokei, Tsukuba, Ibaraki, Japan

#724
Loss of pinin induces differentiation of human epidermal keratinocytes
T. Makino[1], S. Yamamoto[2], Y. Tabuchi[3], M. Mizawa[1], K. Takemoto[1], T. Shimizu[1]
[1]Dermatology, Toyama Daigaku, Toyama, Toyama, Japan, [2]Pathology, Toyama Daigaku, Toyama, Toyama, Japan, [3]Division of Molecular Genetics Research, Life Science Center, Toyama Daigaku, Toyama, Toyama, Japan

#794
Region-specific differences in human epidermal differentiation at a single-cell level
J. Wiedemann[1], A. Billi[2], F. Bocci[1], E. Xing[2], Q. Nie[1], J. Gudjonsson[2], B. Andersen1
[1]University of California Irvine, Irvine, California, United States, [2]University of Michigan, Ann Arbor, Michigan, United States

#714
Stratum corneum homeostasis requires three-stepwise pH zones mediated by the functional cell death of keratinocytes, corneoptosis
K. Fukuda[1, 2], Y. Ito[2], Y. Furuichi[2], T. Miyano[3], R. Tanaka[3], T. Matsui[4], M. Amagai[1, 2]
[1]Skin Homeostasis, RIKEN-IMS, Yokohama, Japan, [2]Dermatology, Keio University, Tokyo, Japan, [3]Bioengineering, ICL, London, United Kingdom, [4]Evolutionary Cell Biology of the Skin, TUT, Hachioji, Japan

Selected ePoster Discussions will take place during Poster Sessions that will occur on Thursday and Friday of the ISID Meeting at iPad kiosks located inside of the Poster Hall at the NS Building. The discussions will be thematic tours of selected electronic posters accompanied by a presenting author. Each poster presenter will be asked to briefly describe their work (3 min), followed by a short group discussion (2 min), and that will be held with the help of a moderator. If your poster has been selected for ePoster Discussions, please join the appropriate group at the relevant ePoster kiosk.

Select ePoster Discussions, Session 2

Pharmacology and Drug Development/Clinical Research-Interventional Research/ Clinical Research-Socio-behavioral and Health Services Research

Basic and preclinical studies aimed at developing therapeutics, elucidating their mechanisms of action, and identifying biomarkers of drug activity/ Interventional human trials that evaluate or compare therapies, devices, or other interventions for the treatment of skin diseases. This may include systematic reviews and/or meta-analyses of interventional studies/Socio-behavioral studies may include, but are not limited to, studies of patient and/or provider behaviors and attitudes towards diseases, treatments, diagnostic and screening tests, and health care delivery. Health services research studies may include, but are not limited to, studies of access, use, delivery, quality, and cost-effectiveness of dermatologic care.

FRIDAY, MAY 12, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #4**

Moderators:
Dr. Toshifumi Nomura, Dr. Dong Hun Lee, Dr. Mackenzie Wehner, Dr. Marta Bertolini

#1096
The PARP14 inhibitor RBN-3143 suppresses skin inflammation in preclinical models
M. Niepel[1], M. Vasbinder[1], K. Kunii[1], G. Bin[1], E. Mateer[1], C. Coutts[1], K. Kuplast-Barr[1], H. Kaur[2], J. Novak[1], D. Blackwell[1], N. Perl[1], J. R. Molina[1], L. B. Schenkel[1], K. Swinger[1], K. McEachern[1], V. Bozon[1], C. T. Richardson[2], L. Beck[2], S. Parasuraman[1], K. Kuntz[1], H. Keilhack[1]
[1]Ribon Therapeutics Inc, Cambridge, Massachusetts, United States, [2]University of Rochester Medical Center, Rochester, New York, United States

#1093
A zinc deficiency enhances mu-opioid receptor-mediated pruritus
H. Sano, T. Oguro, K. Nakajima, R. Kamijima, M. Takaishi, S. Sano
Kochi Daigaku Igakubu Daigakuin Ikagaku Senko, Nankoku, Kochi, Japan

#1063
Small molecule antagonists of interleukin 17 offer an orthogonal approach to inhibit key inflammatory processes
E. R. Goedken[1], M. A. Argiriadi[1], J. D. Dietrich[2], A. M. Petros[2], S. C. Panchal[2], W. Qiu[2], H. Wu[2], H. Zhu[2], M. Srikumaran[2], S. M. Gopalakrishnan[2], P. B. Cox[2], V. C. Stoll[2], C. Sun[2]
[1]AbbVie Bioresearch Center, Worcester, Massachusetts, United States, [2]AbbVie Inc, North Chicago, Illinois, United States

#1073
Fasudil ameliorates fibrosis and immune abnormalities in animal models of systemic sclerosis
T. Toyama[1], Y. Asano[2], S. Sato[3], M. Sugaya[1]
[1]Dermatology, Kokusai Iryo Fukushi Daigaku Narita Byoin, Narita, Chiba, Japan, [2]Dermatology, Tohoku Daigaku Daigakuin Igakukei Kenkyuka Igakubu, Sendai, Miyagi, Japan, [3]Dermatology, Tokyo Daigaku Daigakuin Igakukei Kenkyuka Igakubu, Bunkyo-ku, Tokyo, Japan

#1106
Inhibition of cellular senescence by apocynin in human keratinocytes irradiated with ultraviolet b
T. Ansary, K. Kamiya, M. Hossain, M. Ohtsuki, M. Komine
Dermatology, Jichi Ika Daigaku, Shimotsuke, Tochigi, Japan

#1129
Chemical engineering of therapeutic siRNAs for the modulation of gene expression following intradermal administration in the skin
K. Gross[1], Q. Tang[1, 2], M. Zain Ul Abideen[1], H. Fakih[1], R. Furgal1, C. Blanchard[3], C. Bouix-peter[3], T. Portal[3], A. Khvorova[1], J. E. Harris[2], J. Alterman[1]
[1]RNA Therapeutics Institute, University of Massachusetts Chan Medical School, Worcester, Massachusetts, United States, [2]Department of Dermatology, University of Massachusetts Chan Medical School, Worcester, Massachusetts, United States, [3]Aldena Therapeutics, Boston, Massachusetts, United States

#1077
Efficacy and safety of ENERGI-F701 solution versus 2% minoxidil solution for female pattern hair loss: a phase II, multi-center, randomized, double-blind, head-to-head, parallel trial
S. Ma[1], Y. Wei[1], M. Wu[2], H. Tsai[3], D. Lee[1], Y. Chang[1], C. Chen[1]
[1]Taipei Veterans General Hospital, Taipei, Taiwan, [2]Taichung Armed Forces General Hospital, Taichung, Taiwan, [3]Taipei Medical University Hospital, Taipei, Taiwan

#1095
A2a regulates the polarization of M1 macrophages to initiate innate immunity in psoriasis
Y. Lu, J. Chen, W. Zhu, H. Liu, Y. Kuang
Xiangya Hospital Central South University, Changsha, Hunan, China

#676
Urgent care referrals demonstrate need for "real-time" dermatology e-consultation
S. Rahman[1], A. Bowden[1], C. Green[2], J. Ryan Wolf[2]
[1]University of Rochester School of Medicine and Dentistry, Rochester, New York, United States, [2]Dermatology, University of Rochester Medical Center, Rochester, New York, United States

#688
Using implementation science approaches to select and prioritize potential antibiotic stewardship interventions in acne
L. Chu[1], S. Gold[1], C. Escoffery[2], H. Yeung[1]
[1]Dermatology, Emory University School of Medicine, Atlanta, Georgia, United States, [2]Emory University School of Public Health, Atlanta, Georgia, United States

Continued on next page.

Select ePoster Discussions, Session 2

Pharmacology and Drug Development/Clinical Research-Interventional Research/ Clinical Research-Socio-behavioral and Health Services Research - *Continued*

FRIDAY, MAY 12, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #4**

#675

FDA advisory panel members recommend process improvements

U. Nadir[1], M. D. Yi[1], L. Dave[1], F. Ikmal-Hisham[1], A. Maisel-Campbell[1, 2], B. D. Cressey[3], A. Weil[1], A. Y. Lee[4], E. Poon[1], M. Alam[1, 5, 6]

[1]Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, [2]Dermatology, Columbia University, New York, New York, United States, [3]Northeast Dermatology Associates PA, Portsmouth, Massachusetts, United States, [4]Marketing, Northwestern University Kellogg School of Management, Evanston, Illinois, United States, [5]Otolaryngology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, [6]Surgery, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

#589

Patients with advanced melanoma who benefit from the addition of anti-CTLA-4 to anti-PD-1 have a distinct tumor microenvironment (TME)

N. M. D'Amiano, E. Will, J. S. Deutsch, L. Engle, S. Berry, B. Green, A. Szalay, E. Lipson, J. Taube

Johns Hopkins University, Baltimore, Maryland, United States

#588

Influence of pathogenic filaggrin variants on dupilumab treatment in atopic dermatitis

J. Clabbers[1], C. Boesjes[2], L. Spekhorst[2], M. van Geel[3], P. Steijlen[1], M. de Bruin-Weller[2], A. Gostynski[1]

[1]Dermatology, Maastricht Universitair Medisch Centrum+, Maastricht, Limburg, Netherlands, [2]Dermatology, Universitair Medisch Centrum Utrecht, Utrecht, Utrecht, Netherlands, [3]Clinical Genetics, Maastricht Universitair Medisch Centrum+, Maastricht, Limburg, Netherlands

#634

Assessing the effects of systemic therapy for vascular malformations using RNAseq

J. M. Teng[1], M. Winge[1], M. F. Qian[2]

[1]dermatology, Stanford University School of Medicine, Stanford, California, United States, [2]Stanford University School of Medicine, Stanford, California, United States

#666

Patient-reported impact of dermatological diseases (PRIDD) measure: Pemphigus and pemphigoid delphi data

N. Trialonis-Suthakharan[1], R. Pattinson[3], J. Austin[4], A. FitzGerald[4], M. Yale[2], C. Bundy[3], M. Augustin[1]

[1]Institute od Health Services Research in Dermatology and Nursing (IVDP), Universitatsklinikum Hamburg-Eppendorf, Hamburg, Hamburg, Germany, [2]International Pemphigus and Pemphigoid Foundation (IPPF), Roseville, California, United States, [3]Cardiff University School of Healthcare Sciences, Cardiff, Cardiff, United Kingdom, [4]International Alliance of Dermatology Patient Organization, Ottawa, Ontario, Canada

#671

Time-to-treatment and recurrence for head and neck Merkel cell carcinoma treated with Mohs micrographic surgery and sentinel lymph node biopsy

S. K. Lin, A. M. Deitermann, K. Ricciardelli, C. J. Miller, Y. Wu, J. Etzkorn, J. Sobanko

University of Pennsylvania, Philadelphia, Pennsylvania, United States

#680

Identification of environmental, demographic and lifestyle risk factors for cutaneous T cell lymphoma: A single institution case-control study

Z. Ren, M. Nguyen, M. J. Hooper, T. Lewitt, Y. Pang, F. Veon, L. Ayanruoh, T. Griffin, J. Guitart, X. Zhou

Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

Selected ePoster Discussions will take place during Poster Sessions that will occur on Thursday and Friday of the ISID Meeting at iPad kiosks located inside of the Poster Hall at the NS Building. The discussions will be thematic tours of selected electronic posters accompanied by a presenting author. Each poster presenter will be asked to briefly describe their work (3 min), followed by a short group discussion (2 min), and that will be held with the help of a moderator. If your poster has been selected for ePoster Discussions, please join the appropriate group at the relevant ePoster kiosk.

Select ePoster Discussions, Session 2
Late-Breaking Abstract Submissions

FRIDAY, MAY 12, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #5**

Moderators:
Dr. Akihiko Uchiyama, Dr. Eugene Semenov

#LB 1714
Increased epidermal penetration in aged skin modulates systemic inflammation
A. Celli[1], M. Man[2], J. Gonzalez[1], T. Parenteau[3], J. M. Meyer[4], P. Elias[1,2], K. Abuabara[1], C. Grunfeld[1,2], T. C. Scharschmidt[1], T. Mauro[1,2]
[1]Dermatology, University of California San Francisco, San Francisco, California, United States, [2]Dermatology, San Francisco VA Health Care System, San Francisco, California, United States, [3]Geriatrics, University of California San Francisco, San Francisco, California, United States, [4]Dermatology, Vanderbilt University Medical Center, Nashville, Tennessee, United States

#LB 1787
Tuning biomaterial stiffness augments innate and adaptive immune responses in the skin
K. M. Kelly-Scumpia[3], L. Shang[4,1], J. S. Weinstein[5], D. Di Carlo[4], P. O. Scumpia[1,2]
[1]Medicine/Dermatology, University of California Los Angeles, Los Angeles, California, United States, [2]Dermatology, VA Greater Los Angeles Healthcare System, Los Angeles, California, United States, [3]Medicine/Cardiology, University of California Los Angeles, Los Angeles, California, United States, [4]Bioengineering, University of California Los Angeles, Los Angeles, California, United States, [5]Center of Immunology and Inflammation, Rutgers The State University of New Jersey, Newark, New Jersey, United States

#LB 1726
Pathogenic contribution of ADAR1 mutations to severe plaque psoriasis
F. Assan[1], M. McGrath[1], M. Fremond[2], A. Izmiryan[1], Y. Crow[2], B. Hervé[1]
[1]Genetic Skin Diseases, INSERM U1163, Institut Imagine, Paris, France, [2]Neurogenetics and Neuroinflammation, INSERM U1163, Institut Imagine, Paris, France

#LB 1730
Concordance in the secretome of recessive dystrophic epidermolysis bullosa and cellular senescence reveals COL7A1 dependent perturbations
S. A. Koutsoukos[1], M. Pavlova[1], P. S. McGrath[2], S. McGarvey[1], J. Castillo Flores[1], A. Bruckner[3], D. R. Roop[1], I. Kogut[1], G. Bilousova[1]
[1]Department of Dermatology, University of Colorado Anschutz Medical Campus, Aurora, Colorado, United States, [2]Department of Pediatrics, University of Colorado Anschutz Medical Campus, Aurora, Colorado, United States, [3]Children's Hospital Colorado, Aurora, Colorado, United States

#LB 1758
Regulation of the Independent Skin Circadian Clock by Specific Opsin Using Human Skin Organotypic Culture
M. Bigliardi Qi, S. Lo, E. Bigliardi, S. Park, C. Markale, P. Bigliardi
Dermatology, University of Minnesota Twin Cities, Minneapolis, Minnesota, United States

#LB 1799
Single-cell type proteomic analysis in FFPE tissue sections of severe cutaneous adverse drug reactions
T. Nordmann[1], H. Anderton[2], S. Lisa[1], S. Ankit[1], P. C. Stadler[3], J. Silke[2], L. E. French[3], M. Mann[1]
[1]Proteomics and Signal Transduction, Max Planck Institute for Biochemistry, Martinsried, Germany, [2]Cell Signalling and Cell Death division, Walter and Eliza Hall Institute of Medical Research, Melbourne, Victoria, Australia, [3]Department of Dermatology and Allergology, Ludwig-Maximilians-Universitat Munchen, Munchen, Bayern, Germany

#LB 1715
Beyond established protection: adaptive epidermal barrier functions regulate systemic energy metabolism and body composition
X. Ding[1,2], S. Willenborg[2], S. Satzinger[2], S. Brodesser[3], S. Eming[2,3,4]
[1]School of Medicine, Shanghai University, Shanghai, Shanghai, China, [2]Department of Dermatology, Universitat zu Koln, Koln, Nordrhein-Westfalen, Germany, [3]Cluster of Excellence Cellular stress responses in Aging-associated diseases, Universitat zu Koln, Koln, Nordrhein-Westfalen, Germany, [4]Center for Molecular Medicine Cologne, Universitat zu Koln, Koln, Nordrhein-Westfalen, Germany

#LB 1632
PD-1 signaling plays a critical role for inhibiting development of autoimmune disease-associated dermatitis in childhood
K. Oya[1], Y. Nakamura[1], Z. Zhenji[1], N. Okiyama[2], T. Nomura[1], Y. Fujisawa[3]
[1]Dermatology, Tsukuba Daigaku, Tsukuba, Ibaraki, Japan, [2]Dermatology, Tokyo Ika Shika Daigaku, Bunkyo-ku, Tokyo, Japan, [3]Dermatology, Ehime Daigaku, Matsuyama, Ehime, Japan

#LB 1694
Social and environmental context impacts racial disparities in pediatric atopic dermatitis severity in the Unites States
J. W. Gotschall, R. Fitzsimmons, D. B. Shin, J. Takeshita
Dermatology, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States

Continued on next page.

Select ePoster Discussions, Session 2

Late-Breaking Abstract Submissions - *Continued*

FRIDAY, MAY 12, 2023 **18:10 – 19:40** **NS BUILDING, ePOSTER STAGE #5**

#LB 1698

Phase 2 study of the safety and efficacy of QTORIN rapamycin in the treatment of microcystic lymphatic malformations

J. M. Teng[1], J. Martini[2], J. Treat[4], J. Connor[3], A. Small[5], T. Funk[5], M. Waner[6]

[1]Stanford University School of Medicine, Stanford, California, United States, [2]Palvella Therapeutics, Wayne, Pennsylvania, United States, [3]Confluence Statistics, Coral Gabels, Florida, United States, [4]The Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, United States, [5]Oregon Health & Science University, Portland, Oregon, United States, [6]Vascular Birthmark Institute, New York, New York, United States

#LB 1709

Prevalence of skin cancer screening visits in Medicare data: a retrospective cohort study

M. K. Nowakowska[1], Y. Li[2], C. Mohr[2], B. Smith[3], L. Ferris[4], M. Wehner[2]

[1]Baylor College of Medicine, Houston, Texas, United States, [2]The University of Texas MD Anderson Cancer Center, Houston, Texas, United States, [3]Drexel University College of Medicine, Philadelphia, Pennsylvania, United States, [4]UPMC, Pittsburgh, Pennsylvania, United States

#LB 1750

PC111, an anti-FasL neutralizing antibody, blocks pemphigus blister formation in in-vitro, ex-vivo and in-vivo human models

R. Lotti[2, 1], A. Marconi[2, 1], A. Amato[1], B. Bennett[1], J. E. Hundt[3], C. M. Hammers[3], R. J. Ludwig[3], C. Pincelli[2, 1]

[1]PinCell s.r.l., Milan, Italy, [2]Universita degli Studi di Modena e Reggio Emilia, Modena, Emilia-Romagna, Italy, [3]University of Lubeck, Lubeck, Germany

#LB 1774

Establishing competent morphogenetic fields for tissue pattern regeneration in skin organoids

M. Lei[1], J. Jiang[1], W. Wu[1], M. Wang[1], J. Zhang[1], Y. Lai[2], H. Harn[3], L. Yang[1], C. Chuong[3]

[1]Bioengineering, Chongqing University, Chongqing, Chongqing, China, [2]Integrative Stem Cell Center, China Medical University Hospital, Taichung, Taiwan, [3]Department of Pathology, University of Southern California, Los Angeles, California, United States

#LB 1794

Mechanisms regulating scar-free wound healing in long-lived naked mole-rats

I. Fatima[1], A. Mardaryev[2], E. Rozhkova[1], A. Seluanov[3], V. Gorbunova[3], A. Veves[4], A. Sharov[1], V. A. Botchkarev[1]

[1]Dermatology, Boston University School of Medicine, Boston, Massachusetts, United States, [2]Centre of Skin Sciences, University of Bradford, Bradford, West Yorkshire, United Kingdom, [3]Biology, University of Rochester, Rochester, New York, United States, [4]Surgery, Beth Israel Deaconess Medical Center, Boston, Massachusetts, United States

#LB 1800

TWEAK-induced apoptosis depletes desmoglein 1 and 3 via STAT1 in pemphigus

Y. Liu, X. Peng, Y. Xia

Dermatology, the Second Affiliated Hospital of Xi'an Jiaotong University, Xi'an, China

#LB 1790

RNAi-based topical formulation to treat chronic diabetic foot ulcers

P. Sampath[1, 2], G. Subramanian[1], K. Kalidasan[1], J. Chan[1], S. Quah[1]

*[1]A*STAR Skin Research Labs (A*SRL), Agency for Science Technology and Research (A*STAR), Singapore, Singapore, [2]Genome Institute of Singapore, A*STAR, 60 Biopolis Street, Genome, Singapore, Singapore*

Selected ePoster Discussions will take place during Poster Sessions that will occur on Thursday and Friday of the ISID Meeting at iPad kiosks located inside of the Poster Hall at the NS Building. The discussions will be thematic tours of selected electronic posters accompanied by a presenting author. Each poster presenter will be asked to briefly describe their work (3 min), followed by a short group discussion (2 min), and that will be held with the help of a moderator. If your poster has been selected for ePoster Discussions, please join the appropriate group at the relevant ePoster kiosk.

NOTES

SATURDAY
MAY 13, 2023

ISID 2023 TOKYO


ISID


THE JAPANESE SOCIETY FOR INVESTIGATIVE DERMATOLOGY
1970


EUROPEAN SOCIETY FOR
ESDR
DERMATOLOGICAL RESEARCH


SOCIETY FOR INVESTIGATIVE DERMATOLOGY
SID
1937


THE KOREAN SOCIETY FOR INVESTIGATIVE DERMATOLOGY
1991


臺灣研究皮膚科醫學會
TSID
2006
TAIWANESE SOCIETY FOR INVESTIGATIVE DERMATOLOGY


ASDR


ISID 2023
TOKYO

Nov division, TOKIWA Pharmaceutical Co., Ltd Symposium

SATURDAY, MAY 13, 2023 **07:00 – 08:00** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

New Technology Opens the Future of Dermatology

Chairs:
Shinichi Sato, MD/PhD, Department of Dermatology,
The University of Tokyo Graduate School of Medicine

Manabu Fujimoto, MD/PhD, Department of Dermatology,
Osaka University Graduate School of Medicine

What can we learn from *Fli1*-deficient mice, new animal models of systemic sclerosis?
Yoshihide Asano, MD/PhD, Professor and Chairman, Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, JAPAN.

Dr. Asano received his MD in 1998 at The University of Tokyo and completed his PhD training in 2004, also at The University of Tokyo. Dr. Asano spent two years of training as a Post-Doctoral Fellow at the Division of Rheumatology and Immunology at the Medical College of South Carolina from 2006-2008. He was appointed as Chairman of the Department of Dermatology at Tohoku University in 2022. Dr. Asano's research interest is in basic and clinical studies on scleroderma.

How to utilize genomics in dermatology
Yukinori Okada, MD/PhD, Professor, Department of Genome Informatics, Graduate School of Medicine, The University of Tokyo.

Dr. Okada received his MD and PhD from The University of Tokyo. His research focus is the elucidation of mechanisms where genetic variants affect biological and clinical phenotype. He has multiple professional backgrounds as a rheumatologist, a statistician, and a bioinformatician. Through active collaborative partnerships among the researchers of human genetics, Prof. Okada has conducted large-scale genetic studies of a variety of human complex traits.

NOV

Amgen Symposium

SATURDAY, MAY 13, 2023 **07:00 – 08:00** **ROOM B: EMINENCE HALL, KEIO PLAZA HOTEL**

CHAIRS:

Daisuke Tsuruta, MD/PhD, Professor, Department of Dermatology, Osaka Metropolitan University Graduate School of Medicine, Japan

Hiroyuki Murota, MD/PhD, Professor, Department of Dermatology, Nagasaki University Graduate School of Biomedical Sciences, Japan

SPEAKERS:

The possible role of psoriatic skin inflammation for the development of systemic organ dysfunction and osteoporosis

Yu Sawada, MD/PhD, Department of Dermatology, University of Occupational and Environmental Health, Japan.

Dr. Sawada received his MD degree from the University of Occupational and Environmental Health, Faculty of Medicine, and was a Junior Resident at the Kyushu Medical Center, and Senior Dermatology Resident in the Department of Dermatology, University of Occupational and Environmental Health. He was a Visiting Scholar in the Department of Dermatology, University of California, San Diego from 2018-2021. He was appointed Professor in the Department of Dermatology, University of Occupational and Environmental Health in 2023.

Mitochondrial metabolism in psoriatic T cells

Rei Watanabe, MD/PhD, Associate Professor, Department of Integrative Medicine for Allergic and Immunological Diseases, Graduate School of Medicine/Faculty of Medicine, Osaka University, Japan.

Dr Watanabe received her MD from the Faculty of Medicine, The University of Tokyo and completed her residency in the Department of Dermatology at The University of Tokyo Hospital and Tokyo Kosei-Nenkin Hospital. She received her PhD from the Graduate School of Medicine, The University of Tokyo. She was appointed as an Associate Professor in 2020. Her research focuses on skin T cell biology.

Sato Pharmaceutical/Eisai Co. Symposium

SATURDAY, MAY 13, 2023 **07:00 – 08:00** **ROOM C: NISHIKI, KEIO PLAZA HOTEL**

Fosravuconazole, an Oral Antifungal Agent for the Treatment of Onychomycosis: Basic Characteristics and Clinical Effects

CHAIRS:

Yoshiki Miyachi, MD/PhD, Professor Emeritus, Kyoto University, President, Shizuoka Graduate University of Public Health, Shizuoka, JAPAN

Nikolas Haass, MD/PhD, Professor for Cutaneous Oncology and Director of Higher Degree Research, Frazer Institute, Faculty of Medicine, The University of Queensland, Brisbane, Queensland, AUS

SPEAKERS:

Mycological characteristics of the causative agents of onychomycosis

Takashi Sugita, PhD, Professor, Department of Microbiology, Meiji Pharmaceutical University (MPU), Dean of Graduate School of Pharmaceutical Science, MPU, Tokyo, JAPAN.

Professor Sugita received his PhD from Meiji Pharmaceutical University. He currently serves as Editor of the following publications: Mycopathologia, Microbiology and Immunology, and Biological and Pharmaceutical Bulletin Case Report. In 2020, he received the Award of the Japanese Society for Medical Mycology.

Key points for achieving complete cure in the treatment of onychomycosis

Taisuke Ito, MD/PhD, Associate Professor, Department of Dermatology, Hamamatsu University School of Medicine, Professor, Hamamatsu University Hospital, Shizuoka, JAPAN.

Dr. Ito graduated from the University of Occupational and Environmental Health, Japan and received his MD degree in 1995. He received his PhD in 2006 at Hamamatsu University School of Medicine. In 2002 he served as Visiting Researcher at Department of Dermatology, Universitätsklinikum Hamburg-Eppendorf, Hamburg, Germany. He has been at Hamamatsu University since 2006.

Nobelpharma Symposium

SATURDAY, MAY 13, 2023 **07:00 – 08:00** **ROOM D: OHGI, KEIO PLAZA HOTEL**

Therapeutic Effects of Topical Sirolimus on Skin Lesions in Tuberous Sclerosis: Including clinical collaboration

CHAIRS:

Masatoshi Jinnin, MD/PhD, Professor, Department of Dermatology, Wakayama Medical University, Wakayama, JAPAN.

Dr. Jinnin received his MD degree from Tokyo University, and his PhD degree from the Department of Dermatology, Graduate School of Medicine, University of Tokyo. In 2014, he became an Associate Professor at Kumamoto University, and in 2017, a Professor in the Department of Dermatology at Wakayama Medical University.

SPEAKER:

Sei-ichiro Motegi, MD/PhD, Professor, Department of Dermatology, Gunma University Graduate School of Medicine, Gunma, JAPAN.

Dr. Motegi received his MD and PhD degrees from Gunma University in 1999 and 2004, respectively. He worked as a visiting fellow in the lab of Dr. Mark C Udey at the Dermatology Branch of the National Cancer Institute from 2007 to 2011. He began as an Associate Professor at Gunma University in 2017, and was appointed as a full Professor in 2020.

Nobelpharma

ノーベルファーマ株式会社

Incyte Symposium

SATURDAY, MAY 13, 2023 **07:00 – 08:00** **ROOM E: MOONLIGHT, KEIO PLAZA HOTEL**

WELCOME AND INTRODUCTION:
Jim Lee, MD, Group Vice President, Head Inflammation and AutoImmunity at Incyte

Vitiligo pathophysiology and emerging treatments

Mehdi Rashighi Firoozabadi, MD, Assistant Professor, Department of Dermatology, University of Massachusetts T.H. Chan School of Medicine.

Dr. Rashighi is also associated with the Morningside Graduate School of Biomedical Sciences, working with the Immunology and Microbiology Program, Interdisciplinary Graduate Program, MD/PhD Program and Translational Science. Dr. Rashighi received his Medical Degree from the Tehran University of Medical Science in Medicine and Trained in Dermatology at the University of Massachusetts in Cambridge Massachusetts. Research interests include autoimmune connective tissues diseases (cutaneous lupus, dermatomyositis, morphea) inflammatory skin diseases, Vitiligo, Alopecia Areata and translational research. Dr. Rashighi is an author on numerous studies investigating the role of memory cells, melanocytes and other aspects of Vitiligo.

PANEL DISCUSSION AND AUDIENCE Q & A

Plenary Session 5

SATURDAY, MAY 13, 2023 **08:10–09:10** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Moderators:
Dr. Manabu Fujimoto, Dr. Luis Garza, Dr. Julien Seneschal

08:10-08:22 **ORAL 201 [POSTER 1405]**

Cellular and molecular characterization of sebaceous gland self-renewal and regeneration following complete genetic ablation

N. A. Veniaminova[1], Y. Jia[2], A. Hartigan[1], T. Huyge[1], S. Tsai[1], M. A. Grachtchouk[1], S. Nakagawa[3], A. Dlugosz[1, 4], S. Atwood[2], S. Wong[1, 4]
[1]Department of Dermatology, University of Michigan, Ann Arbor, Michigan, United States, [2]Department of Developmental and Cell Biology, University of California Irvine, Irvine, California, United States, [3]Department of Pathology, University of Michigan, Ann Arbor, Michigan, United States, [4]Department of Cell and Developmental Biology, University of Michigan, Ann Arbor, Michigan, United States

08:22-08:34 **ORAL 202 [POSTER 469]**

Evidence of a causal relationship between stroke and psoriasis

R. Ramessur, J. Saklatvala, J. Barker, N. Dand, M. Simpson, C. Smith
King's College London, London, United Kingdom

08:34-08:46 **ORAL 203 [POSTER 668]**

Prevention of cardiovascular disease and mortality in patients with psoriasis or psoriatic arthritis (CP3) study: Preliminary results

A. Neopaney[5], S. Wang[5], D. B. Shin[5], R. Fitzsimmons[5], S. Baez[5], A. Armstrong[1], J. Barbieri[2], R. Beidas[4], M. Garshick[3], N. Mehta[6], A. Ogdie[5], J. Gelfand[5]
[1]University of Southern California, Los Angeles, California, United States, [2]Harvard University, Cambridge, Massachusetts, United States, [3]NYU Langone Health, New York, New York, United States, [4]Northwestern University, Chicago, Illinois, United States, [5]University of Pennsylvania, Philadelphia, Pennsylvania, United States, [6]George Washington University, Washington, District of Columbia, United States

08:46-08:58 **ORAL 204 [POSTER 851]**

RNA therapy for congenital melanocytic naevi

D. Bryant[1, 3], R. Maeshima[3], W. Baird[3], A. Sauvadet[1, 3], C. Demetriou[3], D. Zecchin[1, 3], S. Barberan-Martin[1, 3], A. Pittman[5], S. Polubothu[3, 2], L. Larue[4], S. L. Hart[3], V. A. Kinsler[1, 2, 3]
[1]Mosaicism and Precision Medicine Lab, Francis Crick Institute, London, United Kingdom, [2]Great Ormond Street Hospital, London, United Kingdom, [3]UCL Institute of Child Health, London, United Kingdom, [4]Institut Curie, Orsay, France, [5]St George's University of London, London, United Kingdom

08:58-09:10 **ORAL 205 [POSTER 1208]**

Lactate and its induced EGR1 are novel key factors that determines the inflamed or non-inflamed tumor status

H. Kanemaru[1, 2], Y. Mizukami[1], A. Kaneko[1], T. Kimura[1], H. Kuriyama[1], I. Kajihara[1], S. Fukushima[1]
[1]Department of Dermatology and Plastic Surgery, Kumamoto University, Kumamoto, Japan, [2]Department of Life Sciences, Imperial College London, London, United Kingdom

SID Special Guest Lecture

The Evolution of Human Skin Pigmentation as a Long and Complex Biocultural Phenomenon

SATURDAY, MAY 13, 2023 **09:15 – 09:45** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Introduction by:
Dr. Tissa Hata

Nina Jablonski, PhD
Pennsylvania State University
University Park, PA

Dr. Jablonski is a biological anthropologist who studies primate and human evolution, especially questions not answered directly from the fossil record such as the evolution of human skin and skin pigmentation. She grew up in rural upstate She received an A.B. in Biology at Bryn Mawr College and a Ph.D. in Anthropology at the University of Washington. She has held academic positions at the University of Hong Kong, The University of Western Australia, the California Academy of Sciences, and The Pennsylvania State University. She is an elected Member of the National Academy of Sciences and of the American Philosophical Society, an elected Fellow of the American Academy of Arts and Sciences and of the American Association for the Advancement of Science, and is a recipient of an Alphonse Fletcher, Sr., Fellowship and a Guggenheim Fellowship. In addition to a large body of peer-reviewed scientific papers, Jablonski has written two popular books for adults: *Skin: A Natural History* (2006) and *Living Color: The Biological and Social Meaning of Skin Color* (2012), as well as a book for children, Skin We Are In (2018). A dedicated public scientist and science educator, Jablonski received an honorary doctorate from the University of Stellenbosch in South Africa in 2010 for her contribution to the worldwide fight against racism.

ESDR Special Guest Lecture

Skin Myeloid Cell Heterogeneity

SATURDAY, MAY 13, 2023 **09:45 – 10:15** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Introduction by:
Dr. Hervé Bachelez

Florent Ginhoux, PhD
Singapore Immunology Network (SIgN),
A*STAR, Singapore

Florent Ginhoux obtained his PhD in 2004 from the University Pierre et Marie CURIE, Paris VI. As a postdoctoral fellow, he joined the Laboratory of Miriam Merad in the Mount Sinai School of Medicine (MSSM), New York where he studied the ontogeny and the homeostasis of cutaneous dendritic cell populations, with a strong focus on Langerhans cells and Microglia.

In 2008, he became an Assistant Professor in the Department of Gene and Cell Medicine, MSSM and member of the Immunology Institute of MSSM. He joined the Singapore Immunology Network (SIgN), A*STAR in May 2009 as a Principal Investigator. He is a Web of Science Highly Cited Researcher since 2016. He is also an Adjunct Visiting Associate Professor in the Shanghai Immunology Institute, Jiao Tong University, in Shanghai, China since 2015 as well as Adjunct Associate Professor in the Translational Immunology Institute, SingHealth and Duke NUS, Singapore since 2018.

He is also starting a new laboratory focusing on pediatric cancers in the INSERM unit 1015 in Gustave Roussy Hospital, Villejuif, France.

Novartis Pharma K.K. Symposium

SATURDAY, MAY 13, 2023 **10:20 – 11:50** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Reimagining Immuno-dermatology

Reimaging urticaria

CHAIR:

Kenji Kabashima, MD/PhD, Professor and Chair, Department of Dermatology, Kyoto University Graduate School of Medicine

SPEAKER:

Marcus Maurer, MD, Professor of Dermatology and Allergy and the executive Director of the Institute of Allergology, Charité – Universitätsmedizin

Prof Maurer is a Dermatologist and Allergologist, and he also trained in experimental pathology at the Beth Israel Deaconess Hospital and Harvard Medical School in Boston (1995-1998); Board certification for Dermatology (2000) and Allergology (2003). Assistant Professor at the Allergie-Centrum-Charité at Charité – Universitätsmedizin Berlin (2004-2005). Since 2005, full professor at Charité. Prof. Maurer a coordinator of the Global Allergy and Asthma European Networks of urticaria and angioedema centers of reference and excellence, UCARE and ACARE. His areas of clinical interest include angioedema, urticaria, mastocytosis, pruritus, skin infections, and allergic diseases. His research is focused on the biology of mast cells, neuroimmunology, inflammation, innate immunity and tolerance. He has supervised more than 60 clinical trials, phase 1 through 4. Prof. Maurer has contributed to more than 600 publications in peer-reviewed journals (>25.000 citations, H Index 79) and 40 books and book chapters.

Reimagining melanoma-2023

CHAIR:

Russell Hall, MD, J. Lamar Callaway Professor of Dermatology, Department of Dermatology, Duke University Medical Center

SPEAKER:

Victoria Atkinson, MD, Senior Medical Oncologist, Greenslopes Private Hospital

Professor Victoria Atkinson is a Medical Oncologist from Brisbane, Australia practicing at Greenslopes Private Hospital and Princess Alexandra Hospital and her academic affiliation is the University of Queensland. Her interests are melanoma and upper gastro-intestinal tumours. She had been extensively involved in the trials which have led to our modern management of melanoma with both targeted therapy and immunotherapy. She is extensively published, and her publications include co-authorship on 6 NEJM and 2 in Nature Medicine.

Reimagining memory of skin inflammation

CHAIR:

Yoshiki Tokura, MD/PhD, Director of Allergic Disease Research Center, Director of Department of Dermatology & Skin Oncology, Chutoen General Medical Center

SPEAKER:

Liv Eidsmo, MD/PhD, Professor of Translational Skin Immunology and the Executive Director of the LEO Foundation Skin Immunology Research Center, University of Copenhagen

Professor Liv Eidsmo is a board certified dermatologist, a Professor of Translational Skin Immunology and the Executive Director of the LEO Foundation Skin Immunology Research Center at the University of Copenhagen. Eidsmo graduated from Karolinska Institutet, Sweden. Following a postdoc in Frank Carbone's laboratory at Melbourne University in Australia, her first laboratory was established at the Center for Molecular Medicine (CMM) at Karolinska Institutet in parallel to clinical training in dermatology at Karolinska University Hospital. The research focuses on how T cells residing in the skin drive local recurrence of diseases such as psoriasis and vitiligo.

NOVARTIS

UCB Symposium

SATURDAY, MAY 13, 2023 **12:05 – 13:05** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Spotlight on Psoriasis: New Perspectives on Therapy and Pathology

CHAIRS:

Akimichi Morita, MD/PhD, Professor and Chairman, Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan

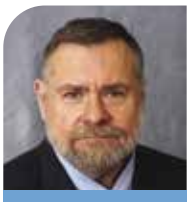
Christopher Griffiths, MD, Emeritus Professor of Dermatology, University of Manchester, UK

SPEAKERS:

Painting a Picture: The Therapeutic Landscape of Psoriasis

Yayoi Tada, MD/PhD, Professor and Chairman, Department of Dermatology, Teikyo University School of Medicine , Tokyo, Japan

Dr. Tada earned her MD and PhD degrees from the University of Tokyo and completed her residency under the Department of Dermatology. Dr. Tada also served as Chief of Department of Dermatology in Kosei Hospital before her current role in Teikyo University School of Medicine as Chief Professor of the Department of Dermatology. She has authored more than 180 peer-reviewed articles throughout her career, including her contributions as Section Editor for the Journal of Dermatology and as a reviewer for various journals. Her research interest is skin inflammatory diseases, especially psoriasis and atopic dermatitis.



Straight Up: How Does the 'Cytokine Cocktail' Drive the Progression of Psoriasis?

James Krueger, MD/PhD, Laboratory for Investigative Dermatology, The Rockefeller University, New York, NY, USA.

Dr. Krueger is Head of the Laboratory for Investigative Dermatology at The Rockefeller University in New York, NY, USA. He also serves as Physician and Co-director of the Center for Clinical and Translational Science at the Rockefeller University Hospital, and as Chief Executive Officer of the Rockefeller University Hospital. Dr Krueger earned his PhD degree in virology and cell biology from The Rockefeller University. He received his medical degree from Cornell University Medical College (New York City), where he also completed an internship in internal medicine and a residency in dermatology.

Janssen Pharmaceutical / Taiho Pharmaceutical Symposium

SATURDAY, MAY 13, 2023 **12:05 – 13:05** **ROOM B: EMINENCE HALL, KEIO PLAZA HOTEL**

Characteristics of Palmoplantar Pustulosis

CHAIRS:

Kazumitsu Sugiura, MD/PhD, Professor and Chairman, Department of Dermatology, Fujita Health University School of Medicine, JAPAN

Riichiro Abe, MD/PhD, Professor and Chair, Department of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, JAPAN

SPEAKERS:

Characteristics of Japanese patients with palmoplantar pustulosis

Masamoto Murakami, MD/PhD, Professor, Department of Dermatology, Ehime University, Gradutate School of Medicine, JAPAN.

Dr. Murakami received his MD degree from St. Marianna University, School of Medicine, Kanagawa, and his PhD degree (Pathology in Medical Science), from Fujita Health University, School of Medicine. He joined the Dept. of Dermatology at Ehime University Graduate School of Medicine in 2012 as a Senior Assistant Professor, and was appointed as a full Professor in 2021. His research focuses on the pathogenesis and new treatment development of palmoplantar pustulosis and pustular psoriasis; mechanisms of innate defense by antimicrobial peptides, neutrophils, and macrophages; and skin bio-imaging.

Clinical characteristics and treatment status of palmoplantar pustulosis

Mitsumasa Kishimoto, MD/PhD, Associate Professor, Department of Nephrology and Rheumatology, Kyorin University, School of Medicine, Tokyo, JAPAN.

After completing his training in Japan, he completed an Internal Medicine Residency program at the University of Hawaii, and a Rheumatology Fellowship program at New York University. In 2006 he took the role of Program Director of the Department of Rheumatology at the Kameda Medical Center, then from 2009 to 2019, clinical program director in St Lukes International hospital before moving on to accept his current position in 2019.Dr Kishimoto was certified by the American Board of Internal Medicine and Rheumatology and received an ACR Distinguished Fellow Award in 2006.

Mitsubishi Tanabe Pharma / Teikoku Seiyaku Symposium

SATURDAY, MAY 13, 2023 **12:05 – 13:05** **ROOM C: NISHIKI, KEIO PLAZA HOTEL**

Itch Caused by Common Skin Disease

CHAIR:

Shinichi Sato, MD/PhD, Professor and Chair, Department of Dermatology, The University of Tokyo, Tokyo, JAPAN

SPEAKERS:

Mechanism and therapeutics of itch in atopic dermatitis

Saeko Nakajima, MD/PhD, Department of Drug Discovery for Inflammatory Skin Diseases, Kyoto University Graduate School of Medicine, Kyoto, JAPAN.

Dr. Nakajima received her MD degree from Osaka Medical College in 2003, and her PhD degree from Kyoto University, Graduate School of Medicine in 2012. She completed a Research Fellowship for Young Scientists of Japan Society for the Promotion of Science, Department of Dermatology, Kyoto University Graduate School of Medicine, and served as a Visiting Fellow, Mucosal immunology section, Laboratory of parasitic diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health in the US.

Pruritus in Urticaria Management

Naoko Inomata, MD/PhD, Chief Professor, Department of Dermatology, Showa University School of Medicine, Tokyo, JAPAN.

Dr. Inomata began her career as a resident at Kanagawa children medical center, Kanagawa, Japan in 1994. She joined Yokohama City University of Medicine, Dept of Dermatology, Kanagawa as a medical doctor 1997-1998 and also acted as a medical doctor at the Yokohama Red Cross hospital, Kanagawa, Japan 1998-2000. She was named an Assistant Professor at Yokohama City University of Medicine, Dept of Dermatology in 2001, and was promoted to Associate Professor in 2012. Dr. Inomata completed a Visiting Fellowship at the Allergy Transcriptome Unit at the Research Center for Allergy and Immunology, RIKEN, in 2003. She became faculty as Chief Professor at Showa University School of Medicine, Dept of Dermatology, Tokyo, Japan, in 2021.

Mitsubishi Tanabe Pharma

The Estée Lauder Companies Inc. Symposium

SATURDAY, MAY 13, 2023 **12:05 – 13:05** **ROOM D: OHGI, KEIO PLAZA HOTEL**

Skin Barrier Function and Approaches for Improving Innate Hydration of Skin

CHAIR:
Kenji Kabashima, MD/PhD, Professor and Chair, Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, JAPAN. Dr. Kabashima's research focuses on understanding the underlying mechanisms of inflammatory skin diseases such as atopic dermatitis, contact dermatitis, and psoriasis, as well as exploring 3D visualization of the skin using two-photon microscopy and drug development.

SPEAKERS:

Moisturize your skin by the skin innate hydration
Teruki Dainichi, MD/PhD, Professor and Chair, Department of Dermatology, Kagawa University Faculty of Medicine, Miki, JAPAN.

Dr. Dainichi received both his MD, and PhD degrees from Tokushima University School of Medicine, Tokushima, JAPAN. His current research interest includes the study of the Epithelial–immune microenvironment (EIME), Bullous disease, and Alopecia.

New moisturizing ingredient for improving skin's innate hydration - Rice Power™ #11α
Yuichi Miyoshi, PhD, Researcher, R&D-Yushin Brewer Co., Ltd., Kagawa, JAPAN.

Dr. Miyoshi received his PhD from the Department of Engineering, Graduate school of Natural Science and Technology, Okayama University, Okayama, JAPAN.

In vitro/in vivo proven superior hydration benefits of Rice Power™ #11α containing formulations
Richard Cao, PhD, Senior Director, APAC Advanced Technologies, ELC, Shanghai, CN.

Dr Cao holds a PhD in Materials Science with a strong background in biopolymers, colloids and interface science, microstructure materials, bio-actives etc. He has accumulated nearly 19 years of R&D experience in developing breakthrough technologies for the applications in home and personal care products, cosmetics, foods etc in multi-international companies. He has authored over 20 peer-reviewed publications and has been the inventor of over 15 patent applications in related fields.

ESTĒE LAUDER COMPANIES

SUN Pharma Symposium

SATURDAY, MAY 13, 2023 **12:05 – 13:05** **ROOM E: MOONLIGHT, KEIO PLAZA HOTEL**

How to apply genetic information to autoimmune research

CHAIR:
Shinji Shimada, MD/PhD, Executive Adviser, University of Yamanashi, Yamanashi, JAPAN

SPEAKER:

Kazuhiko Yamamoto, MD/PhD, Director, RIKEN Center for Integrative Medical Sciences, Kanagawa, JAPAN.

Dr. Yamamoto graduated from the University of Tokyo School of Medicine in 1977. After finishing his training and residency in internal medicine and rheumatology, he conducted basic research in the laboratory of Prof T. Tada in Tokyo and Prof G. Haemmerling in Heidelberg. In 1985, he started his own research projects and also served as clinical rheumatologist in the University of Tokyo Hospital. He then moved to Medical Institute of Bioregulation, Kyushu University as a professor. In 1997, he was promoted to be the professor and chairman of Department of Allergy and Rheumatology, the University of Tokyo Graduate School of Medicine. In 2017, he reached the mandatory retirement age of the University of Tokyo and moved to RIKEN Center for Integrative Medical Sciences as a deputy director. In 2020, he become the director. He is also an emeritus professor of the University of Tokyo. Dr. Yamamoto's research interests include genetic and functional genetic analyses of autoimmune diseases. He is now planning to establish a research system of human immunology in the research center.

SUN PHARMA

Procter & Gamble Symposium

SATURDAY, MAY 13, 2023 **12:05 – 13:05** **ROOM F: HARMONY, KEIO PLAZA HOTEL**

A Novel Approach in Understanding Skin Leveraging Spatial Biology

In vivo skin imaging: towards non-invasive skin biopsy

Gyohei Egawa, MD/PhD, Lecturer, Department of Dermatology, Kyoto University, Japan. Dr. Egawa graduated from Saga Medical University in 2001 and worked as a research fellow on a drug discovery project for atopic dermatitis and studied at the Centenary Institute in Australia before taking up his current position. He specializes in skin immunology and is an expert in skin imaging research. ”Observation-based research" is his research motto.

Spatial Analysis via Single-Cell RNA Sequencing: Galactomyces Ferment Filtrate's Efficacy on Human Epidermis

Satoshi Nakamizo MD/PhD, Program-Specific Junior Associate Professor in Alliance Laboratory for Advanced Medical Research, Kyoto University Graduate School of Medicine, Japan. Dr. Nakamizo graduated from Saga Medical University in 2007 and completed his PhD at Kyoto University School of Medicine, before studying at the Agency for Science, Technology and Research (A*STAR) in Singapore. He specializes in skin immunology and is an expert in single-cell RNA sequencing of skin cells.

Concurrent Mini-Symposium 13

Cell-Cell Interactions in the Skin

Studies on cell-cell interactions between specific skin cell types (including but not limited to keratinocytes, nerves (neuro-cutaneous biology), melanocytes, fibroblasts, adipocytes, immune cells and progenitors) in the skin and their local cellular and extracellular environments that affect skin inflammation, sensation (e.g., itch and pain), signaling, adhesion, migration, development and homeostasis.

SATURDAY, MAY 13, 2023 **13:15 – 15:45** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

Moderators:
Dr. Tetsuya Honda, Dr. Maria Morasso, Dr. Rachel Watson

13:15-13:25 **ORAL 206 [POSTER 355]**

Sensory neuronal STAT3 is critical for IL-31 receptor expression and inflammatory itch

S. Takahashi[1], S. Ochiai[1], T. Okada[1, 2]
[1]Rikagaku Kenkyujo Yokohama Campus, Yokohama, Kanagawa, Japan, [2]Yokohama Shiritsu Daigaku, Yokohama, Kanagawa, Japan

13:25-13:35 **ORAL 207 [POSTER 319]**

Spatial transcriptomics and single-cell transcriptomics elucidates the intricate inflammatory cellular network in atopic dermatitis

Y. Mitamura[1], M. Reiger[2], J. Kim[1], Y. Xiao[1], D. Zhakparov[1], B. Rückert[1], P. Brunner[3], D. Roqueiro[4], C. Traidl-Hoffmann[2], C. Akdis[1]
[1]Universitat Zurich Schweizerisches Institut fur Allergie-und Asthmaforschung, Davos, Switzerland, [2]Department of Environmental Medicine, Faculty of Medicine, Universitat Augsburg, Augsburg, Bayern, Germany, [3]Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York, New York, United States, [4]Department of Biosystems Science and Engineering, ETH-Bereich Hochschulen, Zurich, Zürich, Switzerland

13:35-13:45 **ORAL 208 [POSTER 349]**

Propionate alleviates itch in atopic dermatitis by modulating sensory TRP channels of dorsal root ganglion

Y. Xu[1], X. Yao[2], W. Li[1]
[1]Department of Dermatology, Huashan Hospital Fudan University, Shanghai, China, [2]Affiliated Hospital for Skin Diseases of Chinese Academy of Medical Sciences, Nanjing, Jiangsu, China

13:45-13:55 **ORAL 209 [POSTER 338]**

Extracellular matrix (ECM) remodeling in atopic dermatitis (AD) as a putative contributor to the atopic march

D. S. Wörz[1], P. Graff[3], T. Blimkie[2], P. Panwar[5], D. Brömme[5], R. E. Hancock[2], S. Hedtrich[1, 4]
[1]Berlin Institute of Health at Charite, Berlin, Germany, [2]The University of British Columbia Centre for Microbial Diseases and Immunity Research, Vancouver, British Columbia, Canada, [3]Freie Universitat Berlin Institut fur Pharmazie, Berlin, Germany, [4]The University of British Columbia Faculty of Pharmaceutical Sciences, Vancouver, British Columbia, Canada, [5]The University of British Columbia Faculty of Dentistry, Vancouver, British Columbia, Canada

13:55-14:05 **ORAL 210 [POSTER 363]**

Elevated expression of CCN1 in dermal fibroblasts causes accelerated dermal aging and promotes keratinocyte carcinogenesis

T. Quan, A. Kim, C. Guo, Y. Xiang, Z. Qin, Y. Liu, Y. Yan, A. Ermilov, J. J. Voorhees, A. Dlugosz, G. J. Fisher
Dermatology, University of Michigan, Ann Arbor, Michigan, United States

14:05-14:15 **ORAL 211 [POSTER 351]**

Single-cell analysis of immune system interactions in the basal cell carcinoma tumor microenvironment

Q. N. Wong, S. Atwood
Developmental and Cell Biology, University of California Irvine, Irvine, California, United States

14:15-14:25 **ORAL 212 [POSTER 323]**

Transcriptomic analysis indicates that loss of epidermal Pparg promotes TLR4 signaling and significant overlap with the NMSC transcriptome

R. L. Konger[1], X. Xuei[2], H. Gao[2]
[1]Pathology, Indiana University School of Medicine, Indianapolis, Indiana, United States, [2]Medical & Molecular Genetics, Indiana University School of Medicine, Indianapolis, Indiana, United States

14:25-14:35 **ORAL 213 [POSTER 359]**

Pansclerotic morphea is characterized by type II IFN responses priming T cell – cDC2b – fibroblast crosstalk to promote fibrosis

E. Xing, F. Ma, A. Billi, M. Gharaee-Kermani, J. M. Kahlenberg, R. Wasikowski, L. Tsoi, D. Khanna, J. Gudjonsson
University of Michigan, Ann Arbor, Michigan, United States

14:35-14:45 **ORAL 214 [POSTER 336]**

NET-associated DLL4 activates notch- γ secretase signaling in macrophages and fibroblasts and promotes pro-fibrotic responses in hidradenitis suppurativa

C. Carmona-Rivera[1], C. B. Oliveira[1], J. Tena-Romo₁, E. Patino-Martinez[1], A. Woo[1], A. Byrd[2], G. Okoye[2], M. Kaplan[1]
[1]Systemic Autoimmunity Branch, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, United States, [2]Dermatology, Howard University College of Medicine, Washington, District of Columbia, United States

Continued on next page.

Concurrent Mini-Symposium 13 - *Continued*

SATURDAY, MAY 13, 2023 **13:15 – 15:45** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

14:45-14:55 **ORAL 215 [POSTER 347]**

A machine learning analysis enables demonstration that fibroblasts mediate neutrophil recruitment during type 17 skin inflammation

K. Cavagnero, T. Dokoshi, A. O'Neill, T. Nakatsuji, F. Li, R. L. Gallo

Dermatology, University of California San Diego, La Jolla, California, United States

14:55-15:05 **ORAL 216 [POSTER 327]**

The early reactivation of resident CD8+ memory t cells depends on cross-presentation of antigen by langerhans cells in the epidermis

N. Kamenjarin[1, 2], K. Hodapp[1, 2], F. Melchior[1, 2], G. Harms[2, 3], V. Raker[4], C. Becker[4], A. Brand[2, 5], B. Clausen[2, 5], H. Probst[1, 2]

[1]Institute of Immunology, Universitatsmedizin der Johannes Gutenberg-Universitat Mainz, Mainz, Rheinland-Pfalz, Germany, [2]Research Center for Immunotherapy, Universitatsmedizin der Johannes Gutenberg-Universitat Mainz, Mainz, Rheinland-Pfalz, Germany, [3]Cell Biology Unit, Universitatsmedizin der Johannes Gutenberg-Universitat Mainz, Mainz, Rheinland-Pfalz, Germany, [4]Department of Dermatology, Westfalische Wilhelms-Universitat Munster, Münster, Nordrhein-Westfalen, Germany, [5]Institute for Molecular Medicine, Universitatsmedizin der Johannes Gutenberg-Universitat Mainz, Mainz, Rheinland-Pfalz, Germany

15:05-15:15 **ORAL 217 [POSTER 361]**

p120-catenin regulates epidermal inflammation in a cadherin-dependent manner

T. Seo, H. Xu, M. Sennett, S. L. Schell, A. M. Nelson, A. P. Kowalczyk

Dermatology, Penn State College of Medicine, Hershey, Pennsylvania, United States

15:15-15:25 **ORAL 218 [POSTER 373]**

Identification of immune cell pathways in acne vs. rosacea by single-cell RNA sequencing and single-cell spatial imaging

T. H. Do[1, 2], J. Perrie[2], M. Pellegrini[2], J. Gudjonsson[3], F. Ma[3], R. L. Modlin[2]

[1]Stony Brook Southampton Hospital, Southampton, New York, United States, [2]University of California Los Angeles, Los Angeles, California, United States, [3]University of Michigan, Ann Arbor, Michigan, United States

15:25-15:35 **ORAL 219 [POSTER 350]**

Increased LL37 in patients with psoriasis and rosacea promotes the uptake of low-density lipoprotein and development of atherosclerosis

Y. Nakamura[1], N. Kulkarni[1], T. Dokoshi[1], E. W. Luo[2], H. Alimohamadi[2], G. C. Wong[2], R. L. Gallo[1]

[1]Dermatology, University of California San Diego, La Jolla, California, United States, [2]Bioengineering, University of California Los Angeles, Los Angeles, California, United States

15:35-15:45 **ORAL 220 [POSTER 365]**

Axon growth inhibitory molecule nogo regulates epidermal innervation by sensory neurons

A. Matsuyama, T. Okada

Center for Integrative Medical Sciences, Rikagaku Kenkyujo Yokohama Campus, Yokohama, Kanagawa, Japan

Concurrent Mini-Symposium 14

Clinical Research – Socio-behavioral and Health Services Research/Clinical Research-Interventional Research

Socio-behavioral studies may include, but are not limited to, studies of patient and/or provider behaviors and attitudes towards diseases, treatments, diagnostic and screening tests, and health care delivery. Health services research studies may include, but are not limited to, studies of access, use, delivery, quality, and cost-effectiveness of dermatologic care/Interventional human trials that evaluate or compare therapies, devices, or other interventions for the treatment of skin diseases. This may include systematic reviews and/or meta-analyses of interventional studies.

SATURDAY, MAY 13, 2023 **13:15 – 15:45** **ROOM B: EMINENCE HALL, KEIO PLAZA HOTEL**

Moderators:
Dr. Soyun Cho, Dr. Scott Worswick, Dr. Liat Samuelov

13:15-13:25 **ORAL 221 [POSTER 690]**
Trends in topical steroids spending and potential savings: An analysis of United States Medicare part D from 2011 to 2020
S. Ly[1,2], P. Manjaly[1], K. Kamal[1], A. Mostaghimi[1]
[1]Dermatology, Brigham and Women's Hospital, Boston, Massachusetts, United States, [2]University of Arkansas for Medical Sciences College of Medicine, Little Rock, Arkansas, United States

13:25-13:35 **ORAL 222 [POSTER 683]**
Loneliness, stress, and discrimination in patients with and without acne: A cross-sectional study
W. Perry[1,2], S. Tushe[2], H. Yeung[2]
[1]Emergency Medicine, Emory University School of Medicine, Atlanta, Georgia, United States, [2]Dermatology, Emory University School of Medicine, Atlanta, Georgia, United States

13:35-13:45 **ORAL 223 [POSTER 586]**
Increase in CD8⁺ effector memory cells re-expressing CD45RA (TEMRA) reflects disease activity and enables early prediction of therapeutic outcome in rapidly progressive alopecia areata
R. Takahashi[1], M. Kinoshita-Ise[2], Y. Sato[2], M. Kimishima[2], M. Ohyama[1,2]
[1]Flow Cytometry Core Facility, Kyorin University Graduate School of Medicine, Mitaka, TOKYO, Japan, [2]Department of Dermatology, Kyorin University Faculty of Medicine, Mitaka, TOKYO, Japan

13:45-13:55 **ORAL 224 [POSTER 689]**
Tiktok and dermal fillers: A cross-sectional study on dermal filler-related content quality
H. de Baun[1], P. E. Cerri-Droz[1], S. Khan[2], B. Rao[2]
[1]Stony Brook University Renaissance School of Medicine, Stony Brook, New York, United States, [2]Rutgers Robert Wood Johnson Medical School, Piscataway, New Jersey, United States

13:55-14:05 **ORAL 225 [POSTER 646]**
IFN-α therapy of peritoneal carcinosis induces senescence in metastatic melanoma cells
E. Brenner, T. Wieder, H. Braumüller, C. Boß, C. Schulz, S. Kayser, M. Röcken
Eberhard-Karls-Universitat Tubingen Medizinische Fakultat, Tubingen, Baden-Württemberg, Germany

14:05-14:15 **ORAL 226 [POSTER 597]**
Interim results of a phase I/II, closed label, randomized pilot study for the safety and efficacy of TolaSure gel, 5% w/w targeting aggregated mutant keratin in severe epidermolysis bullosa simplex (TAMES)
A. N. Johnson[1], K. McGuire[2], A. McCormick[2], K. E. Rieger[1], L. Broadwater[2], S. Jain[1], L. Perrone[1], J. M. Teng[1], J. Y. Tang[1], A. S. Chiou[1]
[1]Dermatology, Stanford University School of Medicine, Stanford, California, United States, [2]BioMendics, LLC, Rootstown, Ohio, United States

14:15-14:25 **ORAL 227 [POSTER 626]**
Clinical trial of bacteriotherapy as antibiotic-sparing therapy for acne vulgaris
E. S. Burger, S. Brinton, A. O'Neill, T. Nakatsuji, F. Shafiq, O. C. Osuoji, T. Hata, R. L. Gallo
Dermatology, University of California San Diego, La Jolla, California, United States

14:25-14:35 **ORAL 228 [POSTER 621]**
Topical simvastatin for porokeratosis ptychotropica: A randomized, single-blind, split-body, placebo-controlled investigator-initiated trial
Z. Chen, Y. Liu, H. Yu, H. Chen, Y. Yang
Affiliated Hospital for Skin Diseases of Chinese Academy of Medical Sciences, Nanjing, Jiangsu, China

14:35-14:45 **ORAL 229 [POSTER 693]**
Social media as an educational platform for seborrheic dermatitis
S. Fakhraie, R. Chovatiya
Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

14:45-14:55 **ORAL 230 [POSTER 691]**
Visualization of Covid-19 pandemic influence on healthcare routines in dermatology using electronic health record data
J. Ryan Wolf[1], L. Zhang[2], Y. Xie[3], A. Pentland[1], B. T. Pentland[2]
[1]Dermatology, University of Rochester Medical Center, Rochester, New York, United States, [2]College of Business, Michigan State University, East Lansing, Michigan, United States, [3]Public Health Sciences, University of Rochester Medical Center, Rochester, New York, United States

14:55-15:05 **ORAL 231 [POSTER 692]**
Impact of education on illness perception in patients with cutaneous T-cell lymphoma
A. Munjal, O. Pierog, D. Weiner, S. Talluru, A. Burns, S. Rozati
Dermatology, Johns Hopkins University, Baltimore, Maryland, United States

Continued on next page.

Concurrent Mini-Symposium 14 - *Continued*

SATURDAY, MAY 13, 2023 **13:15 – 15:45** **ROOM B: EMINENCE HALL, KEIO PLAZA HOTEL**

15:05-15:15 **ORAL 232 [POSTER 587]**

Higher IL-10^{+} T cell and treg cell counts in psoriatic skin are associated with super-response to guselkumab: Data from the phase 3 guide trial

J. Angsana[6], K. Kohler[6], J. Sendecki[6], M. W. Leung[6], S. Tabori[7], N. Krüger[7], S. Wegner[7], Y. Personke[7], R. Sabat[2], K. Wolk[2], A. Pinter[1], P. Weisenseel[3], K. Asadullah[2,8], K. Schäkel[4], K. Eyerich[5]

[1]Uni. Hosp. Frankfurt am Main, Frankfurt am Main, Germany, [2]Charité–Universitätsmedizin Berlin, Berlin, Germany, [3]Dermatologikum Hamburg, Hamburg, Germany, [4]Heidelberg Uni. Hosp., Heidelberg, Germany, [5]Med. Center, Uni. of Freiburg, Freiburg, Germany, [6]Janssen R&D LLC, San Diego, California, United States, [7]Janssen-Cilag GmbH, Neuss, Germany, [8]Dermatological practice, Potsdam, Germany

15:15-15:25 **ORAL 233 [POSTER 590]**

Litifilimab modulates Type 1 interferon (IFN) biomarkers in patients with cutaneous lupus erythematosus (CLE): Result of the LILAC Part B Phase 2 study

V. P. Werth[1], R. A. Furie[2], E. Milliman[3], K. Ferber[3], F. Casey[3], R. Brown[3], D. Raitcheva[3], J. Zoghbi[3], D. Graham[3], G. Kong[3], Y. Lahoud[3], N. Franchimont[3], C. Barbey[4]

[1]University of Pennsylvania, Philadelphia, Pennsylvania, United States, [2]Northwell Health, Great Neck, New York, United States, [3]Biogen, Cambridge, Massachusetts, United States, [4]Biogen, Baar, Switzerland

15:25-15:35 **ORAL 234 [POSTER 669]**

Examining disparities in melanoma detection: A geospatial analysis of access-to-care

M. M. Tran, T. Vance, S. Yumeen, L. Orsillo, F. N. Mirza, A. Robbins, A. Mehta, O. Wisco

Dermatology, Brown University Warren Alpert Medical School, Providence, Rhode Island, United States

15:35-15:45 **ORAL 235 [POSTER 624]**

Clinical and immune analysis of mesenchymal stromal cells (MSCs) for multiple biologic-resistant psoriasis

S. M. Lwin, S. Solanky, I. Tosi, H. Dawe, J. A. McGrath, C. Giacomini, P. di Meglio, F. Dazzi, C. E. Griffiths

King's College London, London, United Kingdom

Concurrent Mini-Symposium 15

Epidermal Structure and Barrier Function

Research on the components or regulation of keratinocyte proliferation, differentiation, including epidermal barrier maintenance and function.

SATURDAY, MAY 13, 2023 **13:15 – 15:45** **ROOM C: NISHIKI, KEIO PLAZA HOTEL**

Moderators:
Dr. Hideyuki Ujiie, Dr. Tatiana Efimova, Dr. Sandrine Dubrac

13:15-13:25 **ORAL 0236 [POSTER 766]**

H3K9me3 methyltransferase SETDB1 controls retrotransposon silencing, DNA methylation, constitutive heterochromatin maintenance and 3D-chromatin structure in epidermal keratinocytes

E. Rozhkova[1], G. Chen[1], L. Yang[2], N. Lau[3], V. A. Botchkarev[1], A. Sharov[1]
[1]Dermatology, Boston University, Boston, Massachusetts, United States, [2]University of Washington, Seattle, Washington, United States, [3]Biochemistry, Boston University, Boston, Massachusetts, United States

13:25-13:35 **ORAL 0237 [POSTER 737]**

The role of bisphenol A in atopic dermatitis

D. C. Minzaghi[1], V. Cerkvenik Flajs[2], S. Dubrac[1]
[1]Department of Dermatology, Venereology and Allergology, innsbruck medical university, Innsbruck, Austria, [2]Institute of Pathology, Wild Animals, Fish and Bees, Veterinary Faculty, University of Ljubljana, Slovenia, Ljubljana, Slovenia

13:35-13:45 **ORAL 0238 [POSTER 775]**

A secretome CRISPR screen identifies SFRP1 and other extracellular proteins regulating epidermal homeostasis

B. Cheng[1], T. Bencomo[2], C. S. Lee[2], B. Sun[1]
[1]Dermatology, University of California San Diego, La Jolla, California, United States, [2]Dermatology, Stanford University School of Medicine, Stanford, California, United States

13:45-13:55 **ORAL 0239 [POSTER 745]**

Gasdermin a guards epidermal differentiation and cornification in skin barrier repair: Its role in atopic dermatitis pathogenesis

L. Huang[1], S. Li[1], S. Lin[1], C. Kao[5], C. Hong[3,4], C. Lee[2], L. Yang[1,6]
[1]Institute of Cellular and System Medicine, National Health Research Institutes, Zhunan, Miaoli County, Taiwan, [2]Chang Gung University College of Medicine, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan, [3]Department of Dermatology, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan, [4]Department of Dermatology, National Yang Ming Chiao Tung University School of Medicine, Taipei, Taiwan, [5]Center of General Education, Chang Gung University, Taoyuan, Taiwan, [6]Graduate Institute of Biomedical Sciences, China Medical University, Taichung, Taiwan

13:55-14:05 **ORAL 0240 [POSTER 738]**

Cryo-EM and molecular dynamics of TRPV3 channel in activated state reveal structural features implicated in severe itch and hyperkeratosis

F. Chin[1], F. Qin[2]
[1]University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States, [2]Department of Physiology and Biophysics, State University of New York at Buffalo, Buffalo, New York, United States

14:05-14:15 **ORAL 0241 [POSTER 750]**

Epidermal expression of Hes1 controls immune response

M. Wakatake, M. Moriyama, S. Goto, Y. Miyake, H. Moriyama
Kinki Daigaku, Higashi-Osaka, Japan

14:15-14:25 **ORAL 0242 [POSTER 783]**

Epidermal-specific ablation of CD271 is linked to altered proliferation and differentiation of keratinocytes during postnatal mouse skin development

M. Quadri[1], C. Pellegrini[2], M. Mastrangelo[2], M. Fargnoli[2], C. Vaschieri[1], M. Canossa[3], M. I. Morasso[4], R. Lotti[1], C. Pincelli[1], A. Marconi[1], E. Palazzo[1]
[1]DermoLab, University of Modena and Reggio Emilia, Modena, Italy, [2]University of L'Aquila, L'Aquila, Italy, [3]CIBIO, University of Trento, Trento, Italy, [4]Lab Skin Biology, National Institutes of Health, Bethesda, Maryland, United States

14:25-14:35 **ORAL 0243 [POSTER 772]**

Structure of a novel endoplasmic reticulum-desmosome complex

N. Bharathan[1], W. Giang[1], J. Aaron[3], S. Khuon[3], T. Chew[3], A. Weigel[3], S. Saalfeld[3], W. Vogl[2], S. N. Stahley[1], A. P. Kowalczyk[1]
[1]Dermatology, Penn State College of Medicine, Hershey, Pennsylvania, United States, [2]Cellular & Physiological Sciences, The University of British Columbia, Vancouver, British Columbia, Canada, [3]Howard Hughes Medical Institute Janelia Farm Research Campus, Ashburn, Virginia, United States

14:35-14:45 **ORAL 0244 [POSTER 697]**

The overexpression of sphingomyelin deacylase in murine epidermis elicits a ceramide deficiency and provokes atopic dermatitis-like skin eruptions

M. Kimura[1], M. Takada[2], M. Komine[1], H. Tsuda[3], M. Ohtsuki[1], G. Imokawa[2]
[1]Dermatology, Jichi Ika Daigaku, Shimotsuke, Tochigi, Japan, [2]Utsunomiya Daigaku, Utsunomiya, Tochigi, Japan, [3]Division of Human Genetics Center for Molecular Medicine, Jichi Ika Daigaku, Shimotsuke, Tochigi, Japan

Continued on next page.

Concurrent Mini-Symposium 15 - *Continued*

SATURDAY, MAY 13, 2023 **13:15 – 15:45** **ROOM C: NISHIKI, KEIO PLAZA HOTEL**

14:45-14:55 **ORAL 0245 [POSTER 723]**

Common and different roles of dermokine in skin diseases based on mouse genetic background

K. Kawate, T. Shimizu, T. Chino, N. Oyama, M. Hasegawa

Department of Dermatology, Fukui Daigaku Igakubu, Yoshida-gun, Fukui, Japan

14:55-15:05 **ORAL 0246 [POSTER 751]**

Regulation of epidermal homeostasis by centrosomal protein Cep43

C. C. Yokoyama[1], M. Colonna[2]

[1]Internal Medicine, Division of Dermatology, Washington University in St Louis, St Louis, Missouri, United States, [2]Pathology & Immunology, Washington University in St Louis, St Louis, Missouri, United States

15:05-15:15 **ORAL 0247 [POSTER 774]**

Receptor tyrosine kinase EPHA2 is required for epidermal barrier homeostasis

B. Shi, T. Selph, K. Russell, T. Mahi, E. Khan, I. Martinez, G. Sinchi-Paucar, M. Liu, H. Peng, B. E. Perez White

Northwestern University, Chicago, Illinois, United States

15:15-15:25 **ORAL 0248 [POSTER 749]**

TNF-α promotes psoriasis-related keratinocytes dedifferentiation through dual regulation of YAP and NOTCH1 signaling

Z. Yu[1], Y. Shi[2]

[1]Shanghai Tenth People's Hospital, Shanghai, China, [2]Shanghai Skin Diseases Hospital, Shanghai, China

15:25-15:35 **ORAL 0249 [POSTER 796]**

Actin dependent regulation of epidermal differentiation and barrier formation

M. Ruebsam[1], A. Bhosale[1], F. Tellkamp[2], T. Matsui[3], M. Amagai[4], M. Krüger[2], C. M. Niessen[1]

[1]Department Cell Biology of the Skin & CECAD, Universitat zu Koln, Köln, Nordrhein-Westfalen, Germany, [2]Institute for Genetics, Universitat zu Koln, Köln, Nordrhein-Westfalen, Germany, [3]School of Bioscience and Biotechnology, Tokyo Koka Daigaku, Hachioji, Tokyo, Japan, [4]Department of Dermatology, Keio University School of Medicine, Tokyo, Japan

15:35-15:45 **ORAL 0250 [POSTER 797]**

Crosstalk between adherens junctions and desmosomes and associated cytoskeletons controls epidermal adhesion dynamics and mechanical resilience

H. Zhang[1], M. Ruebsam[1], R. Püllen[2], K. Green[3], R. Merkel[2], B. Hoffmann[2], S. Wickström[4, 5], C. M. Niessen[1]

[1]Cell Biology of the Skin and CECAD, Universitat zu Koln, Koln, Nordrhein-Westfalen, Germany, [2]Institute of Biological Information Processing, IBI-2: Mechanobiology, Forschungszentrum Julich GmbH, Julich, Nordrhein-Westfalen, Germany, [3]Departments of Pathology and Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, [4]Department of Cell and Tissue Dynamics, Max Planck Institute for Molecular Biomedicine, Münster, Germany, [5]Stem Cells and Metabolism Research Program, Helsingin yliopisto Laaketieteellinen tiedekunta, Helsinki, Uusimaa, Finland

Concurrent Mini-Symposium 16

Innate Immunity, Microbiology, Microbiome II

Studies of cells, receptors and effector molecules of the innate immune response; studies on skin microbes, microbiome and infectious processes of the skin.

SATURDAY, MAY 13, 2023 **13:15 – 15:45** **ROOM D: OHGI, KEIO PLAZA HOTEL**

Moderators:
Dr. Nan-Lin Wu, Dr. Anna De Benedetto, Dr. Bernhard Homey

13:15-13:25 **ORAL 0251 [POSTER 960]**
A metabolite produced by skin commensal bacteria enhances epithelial integrity in human keratinocyte
F. A. Aldehalan, A. J. Mcbain, C. O'Neill
The University of Manchester Faculty of Biology Medicine and Health, Manchester, United Kingdom

13:25-13:35 **ORAL 0252 [POSTER 956]**
Epidermal keratinocyte-specific STAT3 deficiency aggravated atopic dermatitis-like skin inflammation in mice through TSLP upregulation
Z. Wang, X. Man
Second Affiliated Hospital of Zhejiang University School of Medicine, Hangzhou, China

13:35-13:45 **ORAL 0253 [POSTER 966]**
Cx26 mutation in keratinocytes is responsible for susceptibility to candida albicans in the mouse model of keratitis-ichthyosis-deafness syndrome
A. Mostafa[1], T. Murata[2], H. Doi[1], G. Egawa[1], K. Kabashima[1]
1Dermatology, Graduate School of Medicine Kyoto University, Kyoto, Japan, 2Dermatology, Hyogo Medical University, Nishinomiya, Japan

13:45-13:55 **ORAL 0254 [POSTER 983]**
Corynebacterium diphtheriae causes keratinocyte-intrinsic ribotoxic stress and NLRP1 inflammasome activation in a model of cutaneous diphtheria
K. Robinson[1], G. Toh[2], K. Tham[1], J. E. Common[1], F. Zhong[2]
[1]ASRL, Singapore, Singapore, [2]NTU, Singapore, Singapore

13:55-14:05 **ORAL 0255 [POSTER 917]**
Amphiregulin-producing innate lymphoid cells promote barrier response after mechanical damage
T. Kobayashi[1], M. Li[2], D. Asanuma[3], N. Shigeyuki[3], K. Hirose[3], K. Fujita[2], K. Moro[1,2]
[1]RIKEN, Yokohama, Japan, [2]Osaka University, Osaka, Japan, [3]Tokyo University, Tokyo, Japan

14:05-14:15 **ORAL 0256 [POSTER 939]**
Acid mantle of the stratum corneum is a shield against bacterial entry into the underlying epidermal layers
Y. Ito[1], K. Fukuda[2], R. Ozawa[1], M. Amagai[1, 2]
[1]Dermatology, Keio University School of Medicine, Tokyo, Japan, [2]Skin Homeositasis, RIKEN IMS, Yokohama, Japan

14:15-14:25 **ORAL 0257 [POSTER 945]**
Galectin-12 Regulates the Immune Response in Skin Through Sebaceous Glands
F. Lin[1, 2], Y. Huang[1, 2], Y. Lo[4], F. Liu[1, 2, 3]
[1]Graduate Institute of Immunology, National Taiwan University, Taipei, Taiwan, [2]Institute of Biomedical Sciences Academia Sinica, Taipei, Taiwan, [3]University of California Davis Department of Dermatology, Sacramento, California, United States, [4]Fu Jen Catholic University, Taipei, Taiwan

14:25-14:35 **ORAL 0258 [POSTER 923]**
Microbially-induced transgenerational epigenetic inheritance via the immune system regulates sebum secretion and the chemical barrier
J. Harris[1, 2], N. Trigg[3], B. Goshu[1], C. Conine[3], E. Grice[2], T. Kambayashi[1]
[1]Pathology and Laboratory Medicine, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States, [2]Dermatology, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States, [3]Neonatology, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, United States

14:35-14:45 **ORAL 0259 [POSTER 977]**
IL-23/IL23R promote macrophage pyroptosis and Th1/Th17 cell differentiation in mycobacterial infection
C. Wang, T. Liu, Z. Wang, Q. Zhao, Z. Mi, H. Liu, F. Zhang
Shandong Provincial Hospital for Skin Diseases & Shandong Provincial Institute of Dermatology and Venereology, Jinan, China

14:45-14:55 **ORAL 0260 [POSTER 926]**
The role of HTR2A on langerhans cells in skin inflammation
Y. Tan[1, 4], C. Yeh[4], S. Su[4], C. Lu[4], C. Tsai[4], H. Weng[2, 3], T. Tsai[2], Y. Lee[1, 4]
[1]National Yang Ming Chiao Tung University – Yangming Campus, Taipei, Taiwan, [2]National Taiwan University Hospital, Taipei, Taiwan, [3]Taipei Medical University, Taipei, Taiwan, [4]Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan

14:55-15:05 **ORAL 0261 [POSTER 981]**
Adiponectin downregulation in lesional skin contributes to enhanced mTORC1 activation and skin inflammation in rosacea.
J. Suh[4, 1, 2], S. Jin[4, 1, 2], Y. Lee[1, 2], N. Li[4, 1, 2], J. Oh[1, 2], E. Kim[1, 2], S. Kim[3], S. Lee[4, 1, 2], D. Lee[4, 1, 2], S. Cho[4, 2], J. Chung[4, 1, 2]
[1]Dermatology, Seoul National University Hospital, Jongno-gu, Seoul, Korea (the Republic of), [2]Institute of human-environmental interface biology, Seoul, Korea (the Republic of), [3]Physiology, Seoul National University College of Medicine, Seoul, Korea (the Republic of), [4]Dermatology, Seoul National University College of Medicine, Seoul, Korea (the Republic of)

Continued on next page.

Concurrent Mini-Symposium 16 - *Continued*

SATURDAY, MAY 13, 2023 **13:15 – 15:45** **ROOM D: OHGI, KEIO PLAZA HOTEL**

15:05-15:15 **ORAL 0262 [POSTER 1050]**

Neutrophil-intrinsic NLRP12 and caspase-8 signal for inflammasome-mediated host defense against staphylococcus aureus skin infections

M. P. Alphonse[1], H. Liu1, D. Dikeman[1], R. V. Ortines[1], Y. Wang[1], Q. Liu[1], C. Youn[1], G. Wang[1], E. A. Cahill[1], D. Prifti[1], A. Cox[2], L. A. Garza[1], L. Miller[1, 3], N. Archer[1]

[1]Dermatology, Johns Hopkins Medicine, Baltimore, Maryland, United States, [2]Molecular Microbiology and Immunology, Johns Hopkins Medicine, Baltimore, Maryland, United States, [3]Janssen Research and Development LLC, Spring House, Pennsylvania, United States

15:15-15:25 **ORAL 0263 [POSTER 959]**

Identification of novel innate immune cells in human epidermis

T. Sato, Y. Ogawa, S. Shimada, T. Kawamura

Department of Dermatology, Yamanashi Daigaku Igakubu Daigakuin Sogo Kenkyubu Igakuiki, Chuo, Yamanashi, Japan

15:25-15:35 **ORAL 0264 [POSTER 1006]**

Single-cell and spatial architecture of human tissue granulomas reveals an aberrant immune-regulatory program underlying sarcoidosis

A. Redl[1, 2], T. Krausgruber[2], D. Barreca[2], C. Lim[3], K. Doberer[4], L. Unterluggauer[1], L. Kleissl[5], C. Mayerhofer[1], A. Kopf[5], T. Weichhart[3], C. Bock[2], G. Stary[1]

[1]Department of Dermatology, Medizinische Universitat Wien, Wien, Austria, [2]Research Center for Molecular Medicine of the Austrian Academy of Sciences, Vienna, Wien, Austria, [3]Institute of Medical Genetics, Medizinische Universitat Wien, Wien, Austria, [4]Department of Nephrology, Medizinische Universitat Wien, Wien, Austria, [5]Ludwig Boltzmann Institute for Rare and Undiagnosed Diseases, Vienna, Austria

15:35-15:45 **ORAL 0265 [POSTER 1048]**

NK cell populations are major contributors to pathogenesis in hidradenitis suppurativa (HS)

C. Raman[1], M. Kashyap[1], B. Mishra[2], J. Deshane[3], S. Mukhtar[2], C. A. Elmets[1], M. Athar[1]

[1]Department of Dermatology, University of Alabama at Birmingham, Birmingham, Alabama, United States, [2]Biological Sciences, University of Alabama at Birmingham, Birmingham, Alabama, United States, [3]Department of Medicine, University of Alabama at Birmingham, Birmingham, Alabama, United States

Concurrent Mini-Symposium 17

Pigmentation and Melanoma

Studies on all aspects of cutaneous and extracutaneous pigmentation; molecular cellular and biological facets of melanoma

SATURDAY, MAY 13, 2023 **13:15 – 15:45** **ROOM E: MOONLIGHT, KEIO PLAZA HOTEL**

Moderators:
Dr. Nikolas Haase, Dr. Niroshana Anadasabapathy, Dr. Katia Boniface

13:15-13:25 **ORAL 0266 [POSTER 1224]**

AhR regulates the efferocytosis and polarization of tumor-associated macrophages through ALKAL1-mediated MerTK activation and promotes melanoma progression

N. Wu, J. Tao
Doctor, Huazhong University of Science and Technology, Wuhan, Hubei, China

13:25-13:35 **ORAL 0267 [POSTER 1278]**

Blocking tumor-intrinsic caspase-1 inflammasome sensitizes melanoma response to anti-PD1 therapy by rejuvenating dysfunctional CD8 T cells

P. K. Vaddi[1], D. Osborne[1], D. Ravindran-Menon[1], T. Yamauchi[1], Z. Zhai1, M. Fujita[1,2,3]
[1]Dermatology, University of Colorado Anschutz Medical Campus, Aurora, Colorado, United States, [2]Department of Veterans Affairs Medical Center, VA Eastern Colorado Health Care System, Aurora, Colorado, United States, [3]Department of Immunology & Microbiology, University of Colorado Anschutz Medical Campus, Aurora, Colorado, United States

13:35-13:45 **ORAL 0268 [POSTER 1216]**

SIRT7 orchestrates melanoma progression by simultaneously promoting cell survival and immune evasion via UPR activation

X. Yi, W. Guo, H. Wang, Y. Yang, C. Li
Air Force Medical University, Xi'an, Shaanxi, China

13:45-13:55 **ORAL 0269 [POSTER 1191]**

Immunotherapy with 4-1BBL-expressing iPSC-derived proliferating myeloid cells amplifies antigen-specific T cell infiltration in advanced melanoma

H. Kuriyama[1], T. Kimura1, H. Kanemaru[1], A. Miyashita[1], T. Inozume[2], R. Zhang[3], Y. Uemura[3], S. Fukushima[1]
[1]Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, Kumamoto, Japan, [2]Department of Dermatology, Chiba University, Chiba, Japan, [3]Division of Cancer Immunotherapy, Exploratory Oncology Research & Clinical Trial Center, National Cancer Center, Chiba, Japan

13:55-14:05 **ORAL 0270 [POSTER 1282]**

Basal cell carcinoma pigmentation is associated with melanocyte proliferation and expression of the melanocyte mitogens endothelin 1 and 2 by tumor cells

E. A. Pedersen[1], M. A. Grachtchouk[1], M. E. Verhaegen[1], L. Syu[1], P. W. Harms[1], M. Gharaee-Kermani[1], F. Ma[1], J. Gudjonsson[1], M. Ito[2], A. Dlugosz[1]
[1]University of Michigan, Ann Arbor, Michigan, United States, 2NYU Langone Health, New York, New York, United States

14:05-14:15 **ORAL 0271 [POSTER 1240]**

Distinct cAMP signaling microdomains differentially regulate melanosomal pH and pigmentation

D. Zhou[1], M. Yusupova[1], J. You[1], J. Gonzalez-Guzman[2], M. Ghanta[2], H. Pu[4], Z. Abdel-Malek[3], J. D'Orazio[4], S. Ito5, K. Wakamatsu[5], M. Harris[2], J. Zippin[1,6,7]
[1]Dermatology, Weill Cornell Medicine, New York, New York, United States, [2]The University of Alabama at Birmingham Department of Cell Developmental and Integrative Biology, Birmingham, Alabama, United States, [3]Dermatology, University of Cincinnati, Cincinnati, Ohio, United States, [4]Pediatrics, University of Kentucky, Lexington, Kentucky, United States, [5]Institute for Melanin Chemistry, Fujita Ika Daigaku, Toyoake, Aichi, Japan, [6]Pharmacology, Weill Cornell Medicine, New York, New York, United States, [7]Englander Institute of Precision Medicine, Weill Cornell Medicine, New York, New York, United States

14:15-14:25 **ORAL 0272 [POSTER 1274]**

Targeting tumour vascularisation through endothelial-specific Sox9 deletion reduces melanoma metastasis

G. Hashemi, L. Sormani Le Bourhis, J. Dight, C. Zhou, E. Roy, K. Khosrotehrani
The University of Queensland, Saint Lucia, Queensland, Australia

14:25-14:35 **ORAL 0273 [POSTER 1189]**

PD-1 blockade may promote not only the reactivation of preexisting tumor-specific T cell clones but also the infiltration of new clones

T. Inozume[1,4,3], J. Nagasaki[2,4], M. Kawazu[4], T. Kawamura[3], K. Yamashita[5], Y. Togashi[2,4]
[1]Dermatology, Chiba University, Chiba, Japan, [2]Tumor Microenvironment, Okayama University, Okayama, Japan, [3]Dermatology, University of Yamanashi, Kofu, Japan, [4]Research Institute, Chiba Cancer Center, Chiba, Japan, [5]KOTAI Biotechnologies Inc, Osaka, Japan

Continued on next page.

Concurrent Mini-Symposium 17 - *Continued*

SATURDAY, MAY 13, 2023 **13:15 – 15:45** **ROOM E: MOONLIGHT, KEIO PLAZA HOTEL**

14:35-14:45 **ORAL 0274** **[POSTER 1204]**

Immunogenic cell death by inhibition of glucose-6-phosphate dehydrogenase enhances the efficacy of immunotherapy in malignant melanoma

M. Nakamura, M. Yoshimitsu, T. Magara, S. Kano, H. Kato, A. Morita

Department of Geriatric and Environmental Dermatology, Nagoya Shiritsu Daigaku Daigakuin Igaku Kenkyuka Igakubu, Nagoya, Aichi, Japan

14:45-14:55 **ORAL 0275** **[POSTER 1220]**

Cytosolic acetyl-CoA drives tumor immune evasion via the epigenetic regulation of PD-L1 in melanoma

H. Wang, W. Guo, X. Yi, Y. Yang, C. Li

Xijing Hospital, Xian, Shaanxi, China

14:55-15:05 **ORAL 0276** **[POSTER 1262]**

Immuno-apoptotic priming to enhance the efficacy of immunotherapies in melanoma

N. Mukherjee, R. Tobin, E. Katsnelson, M. McCarter, D. Norris, Y. Shellman

University of Colorado, Denver, Colorado, United States

15:05-15:15 **ORAL 0277** **[POSTER 1261]**

ER stress facilitates anti-cancer immunosurveillance and improves immunotherapy efficacy in melanoma

Y. Yang, S. Guo, H. Wang, C. Li, X. Yi, W. Guo

Department of Dermatology, Xijing Hospital, Fourth Military Medical University, Xi'an, Shaanxi, China

15:15-15:25 **ORAL 0278** **[POSTER 1275]**

A mutual repression between MITF and neural transcription factors specifies the fate of schwann cell precursors

A. Kawakami[1], M. Hejna[2], M. Hoang[3], K. Kabashima[1], J. Song[2], D. E. Fisher[4]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, [2]Department of Physics, University of Illinois, Urbana, Illinois, United States, [3]Department of Pathology, Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts, United States, [4]Cutaneous Biology Research Center, Department of Dermatology, Massachusetts General Hospital, Harvard Medical School, Charlestown, Massachusetts, United States

15:25-15:35 **ORAL 0279** **[POSTER 1214]**

Targeting SHOC2 disrupts MEK/ERK signaling and inhibits viability of NRAS-mutant human melanoma cells.

R. A. Francois[1], L. Young[2], F. McCormick[2]

[1]Departments of Dermatology and Pathology, University of California San Francisco, San Francisco, California, United States, [2]Helen Diller Family Comprehensive Cancer Center and Department of Cellular and Molecular Pharmacology, University of California San Francisco, San Francisco, California, United States

15:35-15:45 **ORAL 0280** **[POSTER 1181]**

Delivery of costimulatory molecules and immunostimulatory cytokines leads to targeted and systemic immune activation against melanoma *in vivo*

K. M. Luly[1], J. J. Green[1], J. C. Sunshine[2, 1], S. Y. Tzeng[1]

[1]Biomedical Engineering, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States, [2]Dermatology, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States

Concurrent Mini-Symposium 18

Late-Breaking Abstracts

Abstracts from all categories (as submitted during the Late-Breaking Submission period)

SATURDAY, MAY 13, 2023 **13:15 – 15:45** **ROOM F: HARMONY, KEIO PLAZA HOTEL**

Moderators:
Dr. Manabu Ohyama, Dr. Wendy Weinberg, Dr. Sabine Eming

13:15 -13:25 **ORAL 0281 (POSTER LB 1658)**

Eco-evolutionary profiling of the earliest steps in the skin carcinogenesis

S. Avdieiev[1, 3], L. Tordesillas[2], K. M. Prieto-Sarmiento[2], O. Chavez Chiang[2], Z. Chen[4], L. Silva Simoes[1], Y. Chen[4], N. Andor[1], C. Whelan[1, 3], R. Gatenby[1, 3], E. Flores[5, 3], J. Brown[1, 3], K. Tsai[2, 3]
[1]Integrated Mathematical Biology, Moffitt Cancer Center, Tampa, Florida, United States, [2]Tumor Biology, Moffitt Cancer Center, Tampa, Florida, United States, [3]Cancer Biology and Evolution Program, Moffitt Cancer Center, Tampa, Florida, United States, [4]Biostatistics and Bioinformatics, Moffitt Cancer Center, Tampa, Florida, United States, [5]Molecular Oncology, Moffitt Cancer Center, Tampa, Florida, United States

13:25 -13:35 **ORAL 0282 (POSTER LB 1763)**

Combinatorial BRD9 and SMO targeting synergistically suppress UV-induced BCC tumor burden in a murine model of Gorlin syndrome (GS)

A. Kim, Y. Zhu, D. Chen, M. Elmais, M. Athar, D. R. Bickers
Columbia University Irving Medical Center, New York, New York, United States

13:35 -13:45 **ORAL 0283 (POSTER LB 1645)**

IL-9 sensitizes human pathogenic Th2 cells to pro-inflammatory IL-18 signals in atopic dermatitis

S. Schärli[1], F. Luther[1], O. Steck[1], J. Thyssen[2], N. Bertschi[1], C. Schlapbach[1]
[1]Department of Dermatology, Inselspital Universitatsspital Bern, Bern, Bern, Switzerland, [2]Department of Dermatology and Allergology, Gentofte Hospital, Hellerup, Hovedstaden, Denmark

13:45 – 13:55 **ORAL 0284 (POSTER LB 1751)**

Downstream effects of IL-13Rα1 blockade on type 2 inflammation and Th1 immune axis activation in atopic dermatitis

S. V. Reddy[1], Z. A. Bordeaux[1], A. Rajeh[2], D. M. Sivaloganathan[2], H. Cornman[2], A. Kambala[2], J. Adams[1], F. Cevikbas[3], S. Kwatra[2], M. Kwatra[1]
[1]Anesthesiology, Duke University School of Medicine, Durham, North Carolina, United States, [2]Dermatology, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States, [3]ASLAN Pharmaceuticals Pte Ltd, San Mateo, California, United States

13:55 – 14:05 **ORAL 0285 (POSTER LB 1672)**

Senescent Melanocytes in Nevus Skin Stimulate Hair Growth

X. Wang[1], R. Ramos[1], N. Shettigar[1], Q. Nie[2], M. Plikus[1]
[1]Developmental and Cell Biology, University of California Irvine, Irvine, California, United States, [2]Mathematics, University of California Irvine, Irvine, California, United States

14:05 – 14:15 **ORAL 0286 (POSTER LB 1754)**

Treatment of human palmoplantar keratoderma skin equivalents with a TRPV3 antagonist, KM-001

M. Caley[1], M. Idrissi[1], L. Braiman[2], E. Brener[2], E. O'Toole[1]
[1]Centre for Cell Biology and Cutaneous Research, Queen Mary University of London, London, United Kingdom, [2]Kamari Pharma, Ness Ziona, Israel

14:15 – 14:25 **ORAL 0287 (POSTER LB 1640)**

Dynamic profiling of desmoglein 3-reactive T helper cells in pemphigus vulgaris

K. Volkmann[1, 2], J. Hinterseher[1], A. Polakova[1], D. Didona[1], M. Hertl[1]
[1]Department of Dermatology and Allergology, Philipps-Universitat Marburg, Marburg, Hessen, Germany, [2]Bundesinstitut fur Arzneimittel und Medizinprodukte, Bonn, Nordrhein-Westfalen, Germany

14:25 – 14:35 **ORAL 0288 (POSTER LB 1734)**

GPNMB supresses the antimicrobial activity of macrophages through targeting VAMP8

Z. Yan[1], N. Dang[1], H. Liu[2], F. Zhang[2]
[1]Department of Dermatology, Shandong Provincial Hospital, Jinan, Shandong, China, [2]Shandong First Medical University, Jinan, Shandong, China

14:35 – 14:45 **ORAL 0289 (POSTER LB 1756)**

The Role of cNOS in UV-induced DNA Damage and Repair

S. Wu[1, 4], V. Bahamondes Lorca[1, 2], L. Tong[1, 3]
[1]Edison Biotechnology Institute, Ohio University, Athens, Ohio, United States, [2]Tecnología Médica, Universidad de Chile, Santiago de Chile, Chile, [3]Nationwide Children's Hospital, Columbus, Ohio, United States, 4Chemsitry and Biochemistry, Ohio University, Athens, Ohio, United States

14.45 – 14.55 **ORAL 0290 (POSTER LB 1654)**

Mitochondrial transfer from cancer cells induces pro-tumorigenic features in skin fibroblasts

M. Cangkrama, H. Liu, J. Whipman, C. Gaebelein, J. Vorholt, S. Werner
Eidgenossische Technische Hochschule Zurich, Zurich, Zürich, Switzerland

Continued on next page.

Concurrent Mini-Symposium 18 - *Continued*

SATURDAY, MAY 13, 2023 **13:15 – 15:45** **ROOM F: HARMONY, KEIO PLAZA HOTEL**

14:55 – 15:05 **ORAL 0291 (POSTER LB 1671)**

Large-scale skin scRNA-seq profiling highlights distinct Body Site-specific ligand-receptor interactions and pathways in keratinocytes

R. Wasikowski[1], M. T. Patrick[1], Q. Li[1], Q. Nie[2], B. Andersen[3], M. Plikus[2], J. M. Kahlenberg[4], A. Billi1, L. Tsoi1, J. Gudjonsson1

[1]Dermatology, University of Michigan, Ann Arbor, Michigan, United States, [2]Developmental and Cell Biology, University of California Irvine, Irvine, California, United States, [3]Medicine, University of California Irvine, Irvine, California, United States, [4]Rheumatology, University of Michigan, Ann Arbor, Michigan, United States

15:05 – 15:15 **ORAL 0292 (POSTER LB 1722)**

Ablating *ATP2C1* in human keratinocytes impairs intercellular adhesion, disrupts epidermal integrity, and reveals therapeutic targets for Hailey-Hailey disease

J. L. Ayers[1], A. Tiwaa[1], M. K. Sarkar[2], J. Gudjonsson[2], C. L. Simpson[1]

[1]Dermatology, University of Washington, Seattle, Washington, United States, [2]Dermatology, University of Michigan, Ann Arbor, Michigan, United States

15:15 – 15:25 **ORAL 0293 (POSTER LB 1735)**

Utilizing Large-scale Sequencing to Depict Changes in Immune Cells during Cancer Immunoediting in Epidermal Neoplasms

X. Fan, D. R. Roop

Dermatology, University of Colorado Anschutz Medical Campus School of Medicine, Aurora, Colorado, United States

15:25 – 15.35 **ORAL 0294 (POSTER LB 1792)**

CCL2 restores adult cells to regenerate hair follicles by microenvironmental regulation

W. Wu[1, 2], W. Zhou[3], J. Jiang[1], M. Wang[1], J. Zhang[1], X. Shen[1], Q. Tang[2], H. Liu[2], L. Yang[1], M. Lei[1]

[1]Bioengineering, Chongqing University, Chongqing, China, [2]Chongqing University Three Gorges Hospital, Chongqing, China, [3]Chongqing University Cancer Hospital, Chongqing, China

15:35 – 15:45 **ORAL 0295 (POSTER LB 1778)**

Wound Closure in diabetic db/db mice is facilitated by autologous hair-follicle associated pluripotent (HAP)stem cells

A. Hasegawa[1, 2], K. Obara[2], N. Takaoka[1], K. Shirai[2], Y. Hamada[2], N. Arakawa[2], R. Aki[2], R. Hoffman[3, 4], Y. Amoh[2]

[1]dermatology, Kitasato University Graduate School of Medical Science, Sagamihara, Kanagawa, Japan, [2]dermatology, Kitasato Daigaku Igakubu, Sagamihara, Kanagawa, Japan, [3]Anti Cancer Inc, San Diego, California, United States, [4]Surgery, University of California San Diego, La Jolla, California, United States

ISID 2023 Closing Ceremony

SATURDAY, MAY 13, 2023 **15:50 – 16:00** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

HOSTED BY:
Prof. Kenji Kabashima, JSID President and Prof. Dong-Youn Lee, KSID President

AGENDA:

- **Post-Meeting Presidential Remarks**
  - **International Societies for Investigative Dermatology (ISID),** **Dr. Russell Hall**
  - **Australasian Society for Dermatology Research (ASDR),** **Prof. Johannes Kern**
  - **European Society for Dermatological Research (ESDR),** **Prof. Sabine Eming**
  - **Taiwanese Society for Investigative Dermatology (TSID),** **Prof. Sung-Jan Lin**
  - **Society for Investigative Dermatology (SID),** **Dr. Lynn Cornelius**
- **A message about ISID 2028 from ESDR President, Prof. Sabine Eming**
- **Conclusion**

Asia-Oceania Symposium

SATURDAY, MAY 13, 2023 **16:05 – 18:05** **ROOM A: CONCORD BALLROOM, KEIO PLAZA HOTEL**

AGENDA:

16:05
COVID-19 vaccines related cutaneous reactions
Presented by: **Chun-Bing Chen** (Chinese Taipei)
Chair: **Riichiro Abe** (Japan)

16:21
Altering cell mechanics to inhibit melanoma cell migration, invasion and metastasis
Presented by: **Nikolas Haass** (Australia)
Chair: **Chia-Yu Chu** (Chinese Taipei)

16:37
Unravelling the NLRP1 inflammasome through the study of Genodermatoses
Presented by: **Kenneth Lay** (Singapore)
Chair: **John Common** (Singapore)

16:53
Role of ATP-P2X7 axis in Melanogenesis
Presented by: **Sang-Ho Oh** (Korea)
Chair: **Weon Ju Lee** (Korea)

17:09
Bosentan versus nifedipine in the treatment of vasculopathy in systemic Sclerosis: A randomized clinical trial
Presented by: **Trinh Ngoc Phat** (Vietnam)
Chair: **Qianjin Lu** (China)

17:25
SJS/TEN; Thailand perspective
Presented by: **Pawinee Rerknimitr** (Thailand)
Chair: **Victoria Mar** (Australia)

17:41
Neuron-immunopathology in Psoriasis
Presented by: **Honglin Wang** (China)
Chair: **TBD**

NOTES

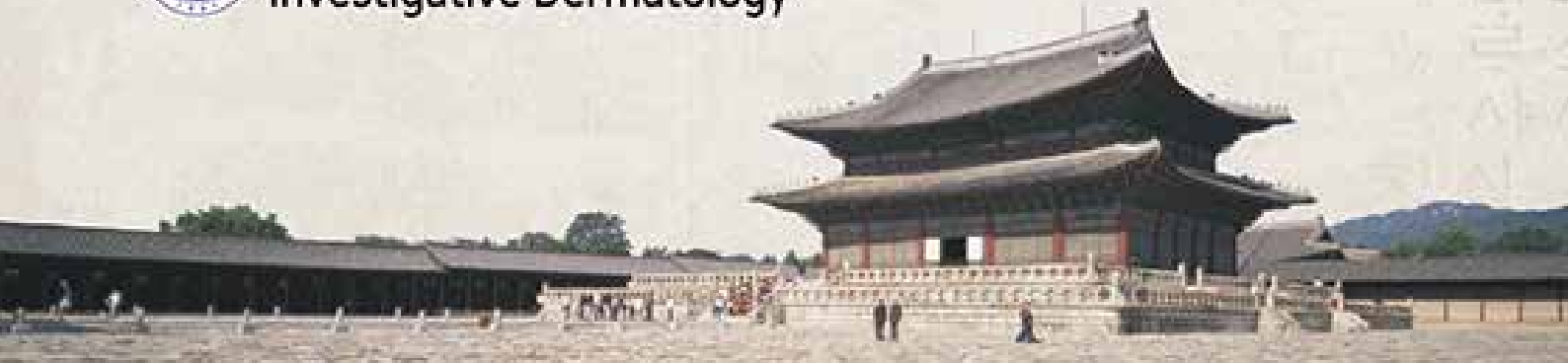

ISID 2023
TOKYO


ISID 2023
TOKYO

2024
31st KSID Annual Meeting

March 22-23, 2024
Seoul, Korea

The Korean Society for
Investigative Dermatology



SOCIETY FOR INVESTIGATIVE DERMATOLOGY
SID
1937

2024 SID Annual Meeting
Dallas ★ Texas

May 15 – 18, 2024 ★ Hilton Anatole

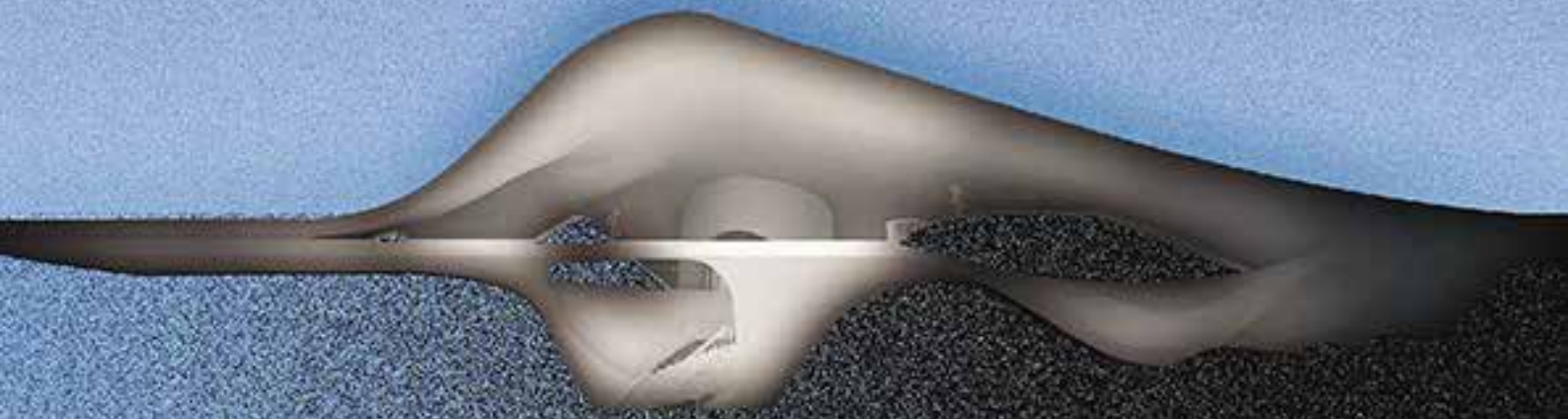

LIS
4-7 September 2024
bon
www.esdrmeeting.org
EUROPEAN SOCIETY FOR
ESDR
DERMATOLOGICAL RESEARCH

The Taiwanese Society
for Investigative Dermatology

18th Annual Meeting of the Taiwanese Society for Investigative Dermatology

Nov 12-13, 2024

Chang Gung International Conference Center (Taoyuan, Taiwan)



Taiwanese Society for Investigative Dermatology (TSID)
http://www.tsid.org.tw/en

THE 49TH ANNUAL MEETING OF THE JAPANESE SOCIETY FOR INVESTIGATIVE DERMATOLOGY

49TH JSID

What We Have Learned and Where We Are Going!

Dates December 6(Fri.) - 8(Sun.) 2024

President Akimichi Morita, M.D., Ph.D.

Department of Geriatric and Environmental Dermatology,
Nagoya City University Graduate School of Medical Siences

Venue

WINC AICHI
Aichi Industry & Labor Center
4-4-38 Meieki, Nakamura-ku, Nagoya, Aichi 450-0002, Japan

The 49th Annual Meeting of the Japanese Society for Investigative Dermatology
The 49th JSID 2024
NAGOYA

Secretariat : Department of Geriatric and Environmental Dermatology,
Nagoya City University Graduate School of Medical Siences
1-Kawasumi, Mizuho-cho, Mizuho-ku, Nagoya 467-8601, Japan

Meeting Organizer : The Japanese Dermatological Association
1-4, Hongo 4-chome, Bunkyo-ku, Tokyo 113-0033, Japan
Fax : +81-3-3812-6790

URL: https://jsid49.jp/ E-mail : jsid49@dermatol.or.jp

Australasian Society for Dermatology Research

ASDR 2024

Annual Scientific Meeting Sydney

Faculty of Medicine and Health

The University of Sydney, Westmead
Western Sydney (Baludarri) Precinct
July 2024

Janus kinase (JAK) inhibitor

National health insurance price listing

RINVOQ® Tablets 30mg Tablets 15mg

upadacitinib

This information is for Japanese physicians and pharmacists only.

Prescription-only drug | Rinvoq® is a powerful drug and must be used in accordance with the prescription given by physicians or other relevant health professionals.

Please refer to the electronic package insert for product information such as indications, dosage and administration, contraindications and precautions.

AbbVie GK

Marketing Authorization Holder(materials order)
Toll-Free 0120-587-874

3-1-21, Shibaura, Minato-ku,
Tokyo, 108-0023, Japan

In April 2023
JP-RNQD-230085-1.0

abbvie