2021 SID Virtual Meeting
May 3-8, 2021
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ACKNOWLEDGEMENTS
The organizers of the 2021 SID Virtual Meeting gratefully acknowledge the sponsors, exhibitors, and participants whose attendance has helped to make this meeting possible.
On behalf of the Society for Investigative Dermatology (SID), welcome to the 2021 Virtual Meeting.

In a typical year, I would be welcoming you to a vibrant city and regaling you with cultural attractions and culinary treats for your hours outside of the meeting. While we cannot enjoy each other's company in-person this year, I am still very much looking forward to the scientific and social interactions the meeting will provide. Since its founding, the SID has been committed to the career development of investigators by providing a forum in which a diverse group can interact and exchange ideas – and COVID-19 will not deter this commitment!

The Committee on Scientific Programs, Education and Diversity/Inclusion Committees, Officers and the Staff have been working non-stop to design a program that will greatly expand our virtual offerings from last year. The Intrado meeting platform will provide unique opportunities to interact with other attendees one-on-one or in small groups for both scientific and social gatherings. The poster discussions are a new format this year, providing recorded synopses of the investigators' work, followed by a chat room for questions and answers. Outstanding special lectures, State-of-the-Art lectures, and Plenary sessions will be available to our registrants live, and then online for a period following the meeting.

Last year, we found that a hidden benefit of the Virtual Meeting was increased attendance from dermatology and skin biology worldwide. The feedback we received from many of these attendees was that they were excited to have the chance to attend the SID Meeting virtually, something they would not be able to do in a live format. We hope that you will enjoy meeting some of these colleagues at the Virtual Meeting this year.

One aspect of investigative work is its creativity. So... get creative with our platform and our time together! I am confident you will find great new work and colleagues.

Janet Fairley, MD
SID President
Meeting-At-A-Glance

MONDAY, MAY 3, 2021

10:30 AM ET – 10:45 AM ET
SID President’s Welcome:
Janet Fairley, MD

10:45 AM ET – 11:15 AM ET
Julius Stone Lecture:
Akiko Iwasaki, PhD

TUESDAY, MAY 4, 2021

10:30 AM ET – 11:30 AM ET
Plenary Session I

11:30 AM ET – 12:00 PM ET
Herman Beerman Lecture:
Neil H. Shubin, PhD

12:00 PM ET – 12:30 PM ET
State-of-the-Art Plenary Lecture I:
Julia Oh, PhD

WEDNESDAY, MAY 5, 2021

10:30 AM ET – 11:30 AM ET
Plenary Session II

11:30 PM ET – 12:00 PM ET
William Montagna Lecture:
Daniel Kaplan, MD/PhD

12:00 PM ET – 12:30 PM ET
State-of-the-Art Plenary Lecture II:
Ya-Chieh Hsu, PhD

2:30 PM ET – 4:00 PM ET
Interactive Poster/Exhibitor Session I

THURSDAY, MAY 6, 2021

10:30 AM ET – 11:30 AM ET
Plenary Session III

11:30 AM ET – 12:00 PM ET
State-of-the-Art Plenary Lecture III:
Isaac Brownell, MD/PhD

12:00 PM ET – 12:30 PM ET
State-of-the-Art Plenary Lecture IV:
Donald Glass, MD/PhD

2:30 PM ET – 4:00 PM ET
Interactive Poster/Exhibitor Session II

FRIDAY, MAY 7, 2021

10:30 AM ET – 10:45 AM ET
Rothman Memorial Award:
Paul Khavari, MD/PhD

10:45 AM ET – 11:15 AM ET
Eugene M. Farber Lecture:
April Armstrong, MD/MPH

11:15 AM ET – 11:45 AM ET
State-of-the-Art Plenary Lecture V:
C. Henrique Serezani, PhD

11:45 AM ET – 12:45 PM ET
Business Meeting of the Membership

SATURDAY, MAY 8, 2021

10:30 AM ET – 11:30 AM ET
Plenary Session IV

11:30 AM ET – 12:00 PM ET
Naomi M. Kanof Lecture:
Mary Margaret “Meg” Chren, MD

12:00 PM ET – 12:30 PM ET
State-of-the-Art Plenary Lecture VI:
Shuai “Steve” Xu, MD/MSc
Notable Meeting Programming

Virtual Poster/Exhibitor Sessions
Wednesday, May 5 and Thursday, May 6, 2021
2:30 pm ET - 4:00 pm ET

From 2:30 pm ET - 4:00 pm ET, attendees will be able to virtually go to the Poster and Exhibit Halls, where authors will be available at their “poster boards” and be able to answer questions regarding their work. This can be done via video chat or through the meeting platform’s internal messaging board system. Presenters will also have the ability to upload a digital copy of their poster, their abstract, and in many cases a video that walks through their work.

Exhibitors will also have a chance to showcase their products in the Virtual Exhibit Hall during this time. Video’s, information handouts, and live Q&A opportunities will be available to all attendees. Exhibitors will also be able to schedule one on one meeting times with attendees as well.

Categories to be presented on Wednesday, May 5, 2021:
• Adaptive and Auto-Immunity
• Carcinogenesis and Cancer Genetics
• Epidermal Structure and Barrier Function
• Genetic Disease, Gene Regulation, and Gene Therapy
• Patient-Targeted Research
• Skin of Color
• Tissue Regeneration and Wound Healing

Categories to be presented on Thursday, May 6, 2021:
• Cell-Cell Interactions in the Skin
• Innate Immunity, Microbiology, and Microbiome
• Patient Population Research
• Pharmacology and Drug Development
• Photobiology
• Pigmentation and Melanoma
• Skin, Appendages, and Stem Cell Biology
• Translational Studies

Irvin H. Blank Forum
This year’s Blank Forum topic will focus on metabolomics of the skin. Presenters will explore the potential of specific metabolic functions in personalized medicine. The Irvin H. Blank Fund was established to support activities that acknowledge the importance of residents and fellows to the Society.

Translational Symposium
The SID’s Committee on Education is pleased to present a translational session on the topic of diverse populations and gender in skin diseases. The Translational Symposia is designed for investigators who are considering or are actively involved in translating cutaneous biology research findings into clinical applications.

Clinical Scholars Outcomes
The SID’s Committee on Education is pleased to present a Clinical Scholars session on the topic of skin aging and the environment. The Clinical Scholars Outcomes session is designed for the practicing dermatologist and educators who need overviews of current research topics and insight into the latest developments in skin disease and health research. Much of the focus is on the providing of the latest findings on cutting-edge research that in a way that better reaches dermatologists not directly involved in bench research.

Resident Track Programming
The SID is pleased to note programming that is focused on content for current dermatology Residents who are interested in overviews of current research topics and insight into the latest developments of skin disease and health research. Look for sessions that are flagged for content that would appeal to Residents.

Sponsored Symposia
In partnership with several the industry’s biggest pharmaceutical companies, attendees can participate in several sponsored symposia with a wide range of topics for discussion. These sessions have been pre-recorded and are available on-demand for anytime viewing.

Interactive Networking Lounges
The meeting platform will have the ability for you to meet up with colleagues and attendees with a number of available chat rooms. These rooms will allow for video sessions and text chatting (akin to meeting in the hallway) and be a great way to facilitate interactions among all participants.

Resource Center
The Resource Center interface within the meeting platform will offer avenues to get the Meeting Program, Abstract Books, notifications of available positions and opportunities, and Social Media walls to name a few.
2021 SID MEETING CME activities will:

- Disseminate updated evidence-based knowledge of skin biology/disease and applications for maintaining health and preventing, diagnosing, and treating disease in a manner that fosters scientific excellence, elevates the standard of care, and meets high ethical standards.
- Provide target audiences with a relevant forum for the exchange of cutting-edge scientific ideas, information, and methodology.
- Advance the science involved in basic skin biology and clinical care of patients with skin disease.
- Provide exposure to novel science (both concepts and methods) which may be relevant in the future to understanding and treatment of skin disease.

**TARGET AUDIENCE**

The primary target audiences for 2021 SID MEETING CME activities include all of the sectors of the dermatology community, consisting of research investigators, clinicians, research and clinical trainees, members of industry, and community advocates for skin health/disease.

**LEARNING OBJECTIVES**

At the conclusion of this activity, participants should be able to:
- Identify which disease states require new or additional research
- Evaluate state-of-the-art information relating to basic skin biology research
- Describe how newly discovered, evidence-based scientific information may or may not be applied to the current practice of investigative or clinical dermatology
- Apply strategies to structure and design successful research proposals, abstracts, and manuscripts
- Facilitate interdisciplinary and/or collaborative investigation in clinical dermatology and skin biology to improve research hypotheses, processes and/or techniques
- Incorporate knowledge gained from interactions between basic scientists and clinicians into daily decision-making

**FACULTY LISTING**

Activity Medical Director: Kevin Cooper, MD
Chair, Department of Dermatology Case Western Reserve University

**SUMMARY OF FACULTY DISCLOSURE/CONFLICT RESOLUTION**

Staff and Content Validation Reviewer Disclosure
The staff involved with this activity and any content validation reviewers of this activity have reported no relevant financial relationships with commercial interests.

Resolution of Conflicts of Interest
In accordance with the ACCME Standards for Commercial Support of CME, the Case Western Reserve University School of Medicine will implement mechanisms, prior to the planning and implementation of this CME activity, to identify and resolve conflicts of interest for all individuals in a position to control content of this CME activity.

UNAPPROVED USE DISCLOSURE STATEMENT
The Case Western Reserve University requires CME faculty (speakers) to disclose to attendees when products or procedures being discussed are off-label, unlabeled, experimental, and/or investigational (not FDA approved); and any limitations on the information that is presented, such as data that are preliminary or that represent ongoing research, interim analyses, and/or unsupported opinion. This information is intended solely for continuing medical education and is not intended to promote off-label use of these medications. If you have questions, contact the medical affairs department of the manufacturer for the most recent prescribing information. Faculty will not be discussing information about pharmaceutical agents that is outside of U.S. Food and Drug Administration approved labeling.

DISCLAIMER
The information provided at this CME activity is for continuing education purposes only and is not meant to substitute for the independent medical judgment of a healthcare provider relative to diagnostic and treatment options of a specific patient's medical condition.

INSTRUCTIONS ON HOW TO RECEIVE CREDIT
In order to receive CME credit, participants complete the CME evaluation. must sign-in, review the CME information (accreditation, learning objectives, faculty disclosures, etc.) and attend the CME activity. To access the program evaluation, claim CME credits, or print your certificate, please go to https://cwru.cloud-cme.com sign in or create and account and then select 'claim My Credit'. From the course listing, please find the course you attended. See full instructions here.

ACCREDITATION STATEMENT
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the Case Western Reserve University School of Medicine and the Society for Investigative Dermatology. The Case Western Reserve University School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

AMA CREDIT STATEMENT
The Case Western Reserve University School of Medicine designates this live activity for a maximum of 9.5 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
2021 Virtual Meeting Registration Grant Awardees

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Akira Utsunomiya, PhD
Alexandra Kuzyk, MD/PhD
Alexandra Maldonado López, BSc
Alison Kohn, BS
Alysha Dhami, MD
Amanda Zhou, BS
Amber Jimenez, BS
Anastasiya Muntyanu, MD
Anjana Sevagamourthy, MBBS/MPH
Anna Garza-Mayers, MD/PhD
Anna Jussila, PhD Candidate
Annelise Colvin, BA
Aungela Adams, MS
Audrey Leasure, BS
Auke Otten, PhD
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Avinash Padhi, PhD
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Claire Mazahery, PhD
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Justine Sevright, BS
Kathryn Luly, BS
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Yasmin Gutierrez, MD
Yu Sawada, MD/PhD
Yubin Li, PhD
Yuqian Chang, MD
Zachary Wolner, MD
Zainab Ridha, MD Candidate
Zhaolin Zhang, PhD
Abstract Presentation Information

ORAL PRESENTATIONS
All oral presentations will be presented within the Virtual Meeting platform.

Plenary
Plenary talks are scheduled at the rate of four (4) per hour over four (4) different sessions and be presented live. This allows for twelve (12) minutes of presentation and three (3) 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 Mini-Symposium
Oral presentations are 12 talks per category (with exception of Interdisciplinary Session) and are to be ten minutes in length. Concurrent talks are prerecorded and available on-demand from May 3 – May 31, 2021.

E-Poster Talks
Each poster presenter will be asked to briefly describe their work for up to five (5) minutes. E-Poster talks will be pre-recorded and available on-demand from May 3 – May 31, 2021.

POSTER ONLY PRESENTATIONS
Poster Only Presentations
Poster only presentations are asked up upload a static image of their poster into the Virtual Meeting platform. Attendees will be able to online chat with authors regarding their work.

CONFLICT OF INTEREST
Due to CME Guidelines, 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.
Sponsor and Exhibitor Information

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EXHIBITORS
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National Psoriasis Foundation
Pachyonychia Congenita Project (PC Project)
Travel Portland
Future SID Annual/ISID Meetings

2022 SID Annual Meeting
May 18-21, 2022
Oregon Convention Center
Portland, Oregon

2023 ISID Meeting
May 10-13, 2023
Keio Plaza Hotel
Tokyo, Japan

2024 SID Annual Meeting
May 15-18, 2024
Hilton Anatole
Dallas, Texas

2025 SID Annual Meeting
May 7-10, 2025
Hilton San Diego Bayfront
San Diego, California

2026 SID Annual Meeting
May 13-16, 2026
Hilton Chicago
Chicago, Illinois
Julius Stone Lecture
Immune Responses to SARS-CoV-2

MONDAY, MAY 3, 2021 10:45 AM ET – 11:15 AM ET  THEATER

Introduction by:
Johann Gudjonsson, MD/PhD

Akiko Iwasaki, PhD
Yale School of Medicine
New Haven, CT

Professor Akiko Iwasaki has made major discoveries in innate anti-viral and mucosal immunity that have resulted in paradigm shifts in the understanding of the immune response to pathogens as well as in vaccine design. Her research focuses on the mechanisms of immune defense against viruses at mucosal surfaces, which are a major site of entry for infectious agents. The knowledge gained in her lab can be used to design more effective vaccines or microbicides to prevent transmission of viral and bacterial pathogens.

Professor Iwasaki’s research group developed a new vaccine strategy, termed “Prime and Pull”, that can be used to treat those infected with virus, unlike many vaccines that are given preventatively. This method is currently under phase 2 clinical trials for the treatment of high-grade cervical lesions caused by infection human papillomavirus (HPV).

Professor Iwasaki received her Ph.D. in Immunology from the University of Toronto and completed her postdoctoral training with the National Institutes of Health before joining Yale’s faculty in 2000. She has received numerous awards and honors, including the Burroughs Welcome Fund Career Award in Biomedical Sciences, the Wyeth Lederle Young Investigator Award, the BD Biosciences Investigator Award, and the Seymour & Vivian Milstein Award for Excellence in Interferon and Cytokine Research. Professor Iwasaki has been a Howard Hughes Medical Institute Investigator since 2014, a prestigious honor that provides the researcher long-term, flexible funding that gives them to freedom to explore new avenues of research. She was elected to the National Academy of Sciences in 2018, and to the National Academy of Medicine in 2019. Dr. Iwasaki is also well known for her Twitter advocacy on women and underrepresented minority in the science and medicine fields.

Currently, Professor Iwasaki is directing translational immunology team to investigate the role of immune response in COVID-19 disease outcome. She also co-directs the IMPACT (Implementing medical and public health actions against coronavirus in Connecticut) team to generate an extensive biorepository for specimens collected from patients and health care workers, as well as implementing viral testing in both groups.

https://medicine.yale.edu/profile/akiko_iwasaki/
https://medicine.yale.edu/lab/iwasaki/

LECTURESHIP HISTORY
The Julius Stone Lectureship is intended to promote the advancement of knowledge in immunology as it relates to the skin and skin disease. The Lectureship is intended to honor Dr. Julius Stone, whose great commitment to the application of new principles of immunology to the benefit of patients with skin disorders is recognized by this award.
Concurrent Mini-Symposium

Adaptive and Auto-Immunity

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.

AVAILABLE ON-DEMAND FROM 5/3/2021 – 5/31/2021

Concurrent Theater

Poster # 002  Colitis alters the antigen-specific response to skin commensal bacteria and predisposes to neutrophilic skin inflammation
G. R. Meran1, M. Dhariwala1, T. Scharschmidt2
Dermatology, University of California San Francisco, San Francisco, California, United States

Poster # 012  FABPS-induced Th17 polarization in atopic march
J. Lee1, B. Kim1, K. Zhang1, S. Kim1, T. S. Kupper2, K. Lee1, C. Park1
1Department of Dermatology and Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seodaemun-gu, Seoul, Korea (the Republic of), 2Brain Korea 21 Project for Medical Science, Yonsei University College of Medicine, Seodaemun-gu, Seoul, Korea (the Republic of), 3Department of Dermatology, Pusan National University School of Medicine, Busan, Korea (the Republic of), 4Research Institute for Convergence of Biomedical Science and Technology, Pusan National University School of Medicine, Busan, Korea (the Republic of), 5Institute of Allergy, Yonsei University College of Medicine, Seodaemun-gu, Seoul, Korea (the Republic of), 6Department of Dermatology & Harvard Skin Disease Research Center, Brigham and Women’s Hospital, Boston, Massachusetts, United States

Poster # 015  Role of hippo signaling in apoptosis of lupus keratinocytes
G. Hile1, P. Coit1, S. Estadt1, M. Maz1, B. Xu1, R. Wasikowski1, L. Tsoi1, A. C. Billi1, J. E. Gudjonsson1, A. Sawalha1, J. M. Kahlenberg1
1University of Michigan, Ann Arbor, Michigan, United States, 2University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, United States

Poster # 019  Vgll3 causes discoid lupus-like fibrosis in a mouse model of lupus
M. Gharaee-Kermani1, A. C. Billi1, J. M. Kahlenberg1
1Department of Dermatology, University of Michigan, Ann Arbor, Michigan, United States, 2Internal Medicine, University of Michigan, Ann Arbor, Michigan, United States

Poster # 024  Immune microenvironment deep profiling of cutaneous lupus erythematosus skin stratified by patient response to antimalarials
J. Patel1, T. Vazquez1, D. Yan1, E. Keyes1, D. Diaz1, Y. Li1, M. Grinnell1, R. Feng1, V. Werth1,2
1Corporal Michael J. Crescenz VAMC, Philadelphia, Pennsylvania, United States, 2University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States

Poster # 025  ALA-PDT inhibits skin squamous cell carcinoma (cSCC) via regulating formation of tertiary lymphoid structures
Q. Zeng1, G. Zhang, G. Yan, P. Wang, X. Wang
Tongji University, Shanghai, Shanghai, China

Poster # 027  Langerhans cells rely on good neighbors to overcome gene deficiencies
C. Herbst1, A. Bouteau1, Q. Su1, B. Z. Igyártó1
1Microbiology and Immunology, Thomas Jefferson University, Philadelphia, Pennsylvania, United States, 2OncoNano Medicine Inc, Southlake, Texas, United States

Poster # 031  IL-15 is an unexpected guardian of hair follicle immune privilege and promotes human hair growth ex vivo
T. Suzuki1, F. Scala1, J. Gherardini1, C. Nicu1, J. O’Sullivan1, G. Eastein-Kuko1, T. Purba1, J. Cheret1, R. Paus2,3
1Dr. Phillip Frost Department of Dermatology and Cutaneous Surgery, University of Miami School of Medicine, Miami, Florida, United States, 2Monasterium Laboratory, Münster, Germany, 3Foundation for Hair Restoration, Miami, Florida, United States, 4The University of Manchester, Manchester, Manchester, United Kingdom

Poster # 035  Expansion of bacterial phosphatidylylycerol reactive CD4+ T cells in atopic dermatitis
G. C. Monnot1, M. Wegrecki1, B. N. Sallee1, L. A. Bordone1, C. H. Rohde4, J. Rossjohn1, A. de Jong1
1Dermatology, Columbia University Irving Medical Center, New York, New York, United States, 2Monash University, Clayton, Victoria, Australia, 3Cardiff University Cardiff Institute of Infection and Immunity, Cardiff, Cardiff, United Kingdom, 4Surgery, Columbia University Irving Medical Center, New York, New York, United States

Poster # 036  IL-23 maintains tissue resident memory Th17 cells in murine and psoriatic skin
S. K. Whitley1, M. Li1, T. Hirai1, J. Ho1, R. Lofyatis1, M. J. McGeachy1, D. H. Kaplan1,2
1Dermatology, University of Pittsburgh, Pittsburgh, Pennsylvania, United States, 2Immunology, University of Pittsburgh, Pittsburgh, Pennsylvania, United States, 3Medicine, University of Pittsburgh, Pittsburgh, Pennsylvania, United States

Poster # 039  IL-7 regulates the PD-1 signaling pathway via degradation by E3 ubiquitin ligase F-Box Protein 38
Z. Dai1, Y. Chang, A. M. Christiano1
Dermatology, Columbia University, New York, New York, United States

Poster # 040  Single-cell RNA sequencing identifies a disease-dominant CD8+ T cell population co-expressing both activating and inhibitory receptors of the NKG2 family
Z. Dai1, E. H. Wang1, E. Y. Lee1, I. Monga1, M. Zhang1, A. M. Christiano1,2
1Dermatology, Columbia University, New York, New York, United States, 2Genetics & Development, Columbia University, New York, New York, United States
Concurrent Mini-Symposium
Carcinogenesis and Cancer Genetics
Studies on the genetics and other causes of cancer as well as mechanisms relevant to metastasis.

AVAILABLE ON-DEMAND FROM 5/3/2021 – 5/31/2021

CONCURRENTS THEATER

Poster # 042  Competition for active TGFβ augments accumulation of antigen-specific CD8+ T cells in murine melanoma
B. Nguyen1, 2, T. Hirai1, C. Liu1, 4, 5, D. A. Vignali1, 4, 5, D. H. Kaplan1, 2
1Department of Immunology, University of Pittsburgh, Pittsburgh, Pennsylvania, United States, 2Department of Dermatology, University of Pittsburgh, Pittsburgh, Pennsylvania, United States, 3BIKEN Innovative Vaccine Research Alliance Laboratories, Research Institute for Microbial Diseases, Osaka Daigaku, Suita, Osaka, Japan, 4Tumor Microenvironment Center, UPMC Hillman Cancer Center, Pittsburgh, Pennsylvania, United States, 5Cancer Immunology and Immunotherapy Program, UPMC Hillman Cancer Center, Pittsburgh, Pennsylvania, United States

Poster # 043  Loss of DLX3 tumor suppressive function is associated with poor prognosis in human SCCs
D. Bajpai1, S. Meh dizadeh1, A. Uch iyama2, Y. Inoue2, A. Sow ay a1, A. Over miller1, S. Brooks3, M. Kel let t3, E. Pal azzo3, S. Motegi3, S. Yuspa3, C. Cataisson1, M. Morasso1
1National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, United States, 2Gunma Daigaku, Maebashi, Gunma, Japan, 3National Cancer Institute, Bethesda, Maryland, United States

Poster # 048  Human protein SLURP-1 inhibits melanoma cells migration by interaction with a7-nAChRs
A. Kirichenko1, O. Shlepova1, M. Bychkov1, I. Mikhaylova2, M. Shulepko1, E. Lyukmanova1
1Biengineering Department, IBCHRAS, Moscow, Russian Federation, 2National Cancer Research Center, Moscow, Russian Federation

Poster #051  CD271 activation reduces SCC spheroid aggressiveness, modulates keratinocyte differentiation and favors response to therapy
E. Palazzo1, M. Quadri1, F. Musmeci1, N. Tiso2, M. Morasso4, A. Marconi1, C. Pincelli1
1Surgical, Medical and Dental Department of Morphological Sciences related to Transplant, Oncology and Regenerative Medicine, University of Modena and Reggio Emilia, Modena, Italy, 2Cell Dynamics, Bologna, Italy, 3University of Padua, Padua, Italy, 4National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, United States

Poster #052  Staphylococcal enterotoxin promotes the development and maintenance of the skin lesions in cutaneous T cell lymphoma
X. Liu1, Y. Wang
1Department of Dermatology and Venereology, Peking University, Beijing, China

Poster # 060  Toll-like receptor 4 activity in the tumor microenvironment promotes cutaneous T-cell lymphoma
B. Shah1, E. Correia1, N. Nikbakht
1Thomas Jefferson University, Philadelphia, Pennsylvania, United States

Poster # 065  C-FOS drives reversible basal to squamous cell carcinoma transition
F. Kuonen1, 2, N. Li1, D. Haensel1, T. Patel1, S. Gaddam1, L. Yerly1, K. Rieger1, S. Aasi1, A. Oro1
1Stanford University, Stanford, California, United States, 2Centre Hospitalier Universitaire Vaudois, Lausanne, VD, Switzerland

Poster # 070  Comprehensive single-cell analysis of Sézary syndrome reveals novel expression and therapeutic biomarkers
N. Borchering1, N. Henderson1, L. Ortizol1, V. Liu1, B. Link1, A. Mangold1, A. Jabbari1
1Pathology and Immunology, Washington University in St Louis, St Louis, Missouri, United States, 2Dermatology, The University of Iowa Hospitals and Clinics, Iowa City, Iowa, United States, 3Infectious Disease, Seattle Children’s Hospital, Seattle, Washington, United States, 4Internal Medicine, The University of Iowa Hospitals and Clinics, Iowa City, Iowa, United States, 5Dermatology, Mayo Clinic Minnesota, Scottsdale, Arizona, United States

Poster # 071  RET is a therapeutic target in cutaneous squamous cell carcinoma
J. Garcia1, C. Tommasi1, D. Sessions1, A. Mah1, T. Bencomo1, A. Srivastava1, A. Amado2, K. Y. Tsai1, V. Lopez-Pajares1, C. Lee1, 2
1Stanford University, Stanford, California, United States, 2VA Palo Alto Health Care System, Palo Alto, California, United States, 3Moffitt Cancer Center, Tampa, Florida, United States

Poster #076  Subtype specific analyses reveal infiltrative basal cell carcinoma are highly interactive with their environment
R. Villani1, V. Murigneux1, J. Alexis1, S. Sim1, M. Wagels1, N. Saunders1, P. Soyer1, L. Parmentier3, S. Nikolaev4, L. Fink1, E. Roy1, K. Khosrotehrani1
1The University of Queensland Diamantina Institute, Woolloongabba, Queensland, Australia, 2Princess Alexandra Hospital, Woolloongabba, Queensland, Australia, 3Hospital du Valais, Sion, Valais, Switzerland, 4Universite de Geneve, Geneva, GE, Switzerland

Poster # 083  Chemically-induced cutaneous neoplasms spontaneously regress in mice lacking autoimmune regulator
E. Lesko1, T. Gao1, R. P. Feehan, R. Hobb
1Dermatology, Penn State College of Medicine, Hershey, Pennsylvania, United States

Poster # 085  CCN1-induced age-related dermal microenvironment promotes skin cancer development
T. Quan1, Y. Xiang1, Y. Liu1, C. Guo1, Y. Yan1, A. A. Dlugosz1, J. J. Voorhees1, G. J. Fisher1
1Dermatology, University of Michigan Medical School, Ann Arbor, Michigan, United States
Concurrent Mini-Symposium

Cell-Cell Interactions in the Skin

Studies on cell-cell interactions between keratinocytes, nerves (neuro-cutaneous biology), stromal and immune cells 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.

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Concurrents Theater

Poster #087  Expression of opsins 3 in skin tissues and hemangiomata vessels and may be involved in vascular development
H. Luo, H. Lu
Dermatology, The Affiliated Hospital of Guizhou Medical University, Guiyang, Guizhou, China

Poster #091  MARCH family E3 ubiquitin ligases selectively target cadherin family proteins for degradation
T. Seo, A. Kowalczyk
Dermatology, Penn State Health Milton S Hershey Medical Center Department of Medicine, Hershey, Pennsylvania, United States

Poster #095  Bioengineering a complex skin equivalent for skin care applications
L. Costello1, K. Goncalves2, A. Simpson1, L. Smith1, M. Freer2, V. Maitman2, P. De Los Santos Gomez1, P. Ritchie1, B. Hulette1, R. Tasseff1, T. Dicolandrea1, K. Mills1, R. Isfort2, C. Bascom3, S. Przyborski1, 3
1Department of Biosciences, Durham University, Durham, United Kingdom, 2Mason Business Centre, Procter & Gamble Co, Cincinnati, Ohio, United States, 3Reprocell Europe Ltd, Sedgefield, United Kingdom

Poster #096  Architectural changes in desmosomes during assembly and maturation
R. Beggs1, T. Rao1, W. Dean1, A. Kowalczyk2, A. L. Mattheyes1
1Cell, Dev, and Integrative Bio, The University of Alabama at Birmingham, Birmingham, Alabama, United States, 2Dermatology, Penn State College of Medicine, Hershey, Pennsylvania, United States

Poster #098  Age-related reduction of fibroblast size induces hepatocyte growth factor expression in a YAP/TAZ dependent manner
T. Guan, Y. Xiang, Z. Qin, Y. Yan, G. J. Fisher
Department of Dermatology, University of Michigan, Ann Arbor, Michigan, United States

Poster #099  Retromer-dependent Dsg1 trafficking promotes epidermal differentiation and is enhanced by a small molecule chaperone
M. Hegazy1, O. Nekrasova1, J. Koetsier1, J. Broussard1, 2, A. Huffine1, L. Godsell1, 2, K. Green1, 2
1Department of Pathology, Northwestern University, Chicago, Illinois, United States, 2Department of Dermatology, Northwestern University, Chicago, Illinois, United States

Poster #100  Pathogenic CD8+ T cells form cytolytic immune synapses to mediate hair follicle destruction in Alopecia Areata
R. Gund, E. Mace, A. M. Christiano
Columbia University, New York, New York, United States

CONCURRENTS THEATER

Poster #102  Transcriptomic profiling of cutaneous sarcoidosis
X. Li1, C. M. Brumfiel2, M. H. Patel3, A. Hughes4, A. Sekulic5, M. R. Pittelkow5, S. A. Nelson5, A. Mongold5
1Mayo Clinic Minnesota, Rochester, Minnesota, United States, 2Mayo Clinic Arizona, Scottsdale, Arizona, United States

Poster #103  The contact hypersensitivity defect in mice lacking epidermal Pparg requires signaling through TNFR1, TNFR2, and tryptophan hydroxylase 1
R. L. Konger1, 2, E. Derr-Yellin1, 2, H. Zhou4, M. Turner4, 5
1Pathology, Indiana University School of Medicine, Indianapolis, Indiana, United States, 2Pathology, Richard L Roudebush VA Medical Center, Indianapolis, Indiana, United States, 3Dermatology, Indiana University School of Medicine, Indianapolis, Indiana, United States, 4Dermatology, Richard L Roudebush VA Medical Center, Indianapolis, Indiana, United States

Poster #105  Wnt signaling stimulates ATGL-regulated lipolysis in dermal fibrosis
B. Zhang1, A. R. Jussila1, S. Kirti1, R. Atit1, 2, 3
1Biology, Case Western Reserve University, Cleveland, Ohio, United States, 2Genetics, Case Western Reserve University, Cleveland, Ohio, United States, 3Dermatology, Case Western Reserve University, Cleveland, Ohio, United States

Poster #106  IL-33 signaling in sensory neurons promotes dry skin itch
A. M. Trier1, 2, M. R. Mack1, 3, J. Guo1, 3, M. Tamari1, 2, A. Fredman1, 2, L. K. Oetjen1, 2, J. Feng1, 2, R. W. Gereau4, 4, S. Davidson1, H. Hu3, 5, Q. Liu5, B. S. Kim2, 4, 6
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Poster #107  CO-Detection by indexing (CODEX) reveals clinically distinct classes of eczematosus rashes
Y. Liu, C. P. Cook, J. B. Cheng, R. Cyr
Dermatology, University of California San Francisco, San Francisco, California, United States
Concurrent Mini-Symposium

Epidermal Structure and Barrier Function

Research on the components or regulation of keratinocyte proliferation, differentiation, including epidermal barrier function.

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CME CREDITS: 2.0

Poster #108  Antimicrobial peptide hBD-3 improves Th2 cytokine-mediated impairment of tight junction barrier through autophagy activation
G. Peng1, Y. Umehara2, M. Komatsu3, K. Okumura3, H. Ogawa4, S. Ikeda2, F. Niyonsaba1
1Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Bunkyo, Tokyo, Japan, 2Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Bunkyo, Tokyo, Japan, 3Department of Physiology, Juntendo University Graduate School of Medicine, Bunkyo, Tokyo, Japan, 4Faculty of International Liberal Arts, Juntendo University Graduate School of Medicine, Bunkyo, Tokyo, Japan

Poster #109  IL-4 and IL-13 cytokines drive sex steroid hormone synthesis and lipid abnormalities in sebocyte during atopic dermatitis pathogenesis
C. Zhang1, M. Chinnappan2, M. Artami3, K. Eckert4, G. Vale5, J. McDonald6, T. Harris-tryon7
1Department of Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, 2Department of Molecular Genetics, Center for Human Nutrition, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, 3Department of Immunology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States

Poster #110  Deletion of TNAFIP6 gene in human keratinocytes by CRISPR/Cas9 edition demonstrates a role for TSG-6 to retain hyaluronan inside epidermis
Universite de Namur, Namur, Belgium

Poster #111  Type XVII collagen modulates epidermal patterning
Y. Wang1, H. Kitahata1, H. Kosumi1, M. Watanabe2, Y. Fuyumura3, T. Takashima4, S. Osada5, T. Hirose6, W. Nishie7, M. Nagayama8, H. Shimizu8, K. Natsumura9
1Department of Physics, Chiba University, Chiba, Japan, 2Department of Life Sciences and Systems Biology, University of Turin, Turin, Italy, 3Department of Dermatology, Nippon Medical School, Tokyo, Japan, 4Molecular Biology, Yokohama City University School of Medicine Graduate School of Medicine, Yokohama, Japan, 5Research Institute for Electronic Science, Hokkaido University, Hokkaido, Japan, 6Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan

Poster #115  Aged human keratinocytes have protein coding and noncoding RNA signatures indicative of inflammation, defective proliferation, and barrier deficiency
C. Fuzihara1, L. Gunawardane1, F. Niaz1, M. Consolo1, K. D. Cooper2, T. S. Mccormick1, S. Valadkhani1
1Case Western Reserve University School of Medicine, Cleveland, Ohio, United States, 2University Hospitals Cleveland Medical Center, Cleveland, Ohio, United States

Poster #116  SDR9C7 catalyzes the critical dehydrogenation of acylceramides for skin barrier formation
1Nagoya Daigaku Daigakuin Igakukei Kenkyuka Igakubu, Nagoya, Aichi, Japan, 2Koei Zaidan Hojin Tokyo-to Igaku Sogo Kenkyujo, Setagaya-ku, Tokyo, Japan, 3Kao Kabushiki Kaisha Tochigi Kenkyujo, Haga-gun, Tochigi, Japan, 4Mito Ika Daigaku, Nagakute, Aichi, Japan, 5Vanderbilt University, Nashville, Tennessee, United States, 6Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Bunkyo-ku, Tokyo, Japan, 7Medical School, Tokyo, Japan, 8Molecular Biology, Yokohama City University School of Medicine, Bunkyo-ku, Tokyo, Japan, 9Faculty of International Liberal Arts, Juntendo University Graduate School of Medicine, Bunkyo-ku, Tokyo, Japan, 10Department of Dermatology, Okayama University Medical School, Okayama, Okayama, Japan, 11Department of Immunology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, 12Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York, New York, United States, 13Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 14Department of Dermatology, Boston University, Boston, Massachusetts, United States, 15Biochemistry, Boston University, Boston, Massachusetts, United States, 16Faculty of Life Sciences, Hokkaido University, Sapporo, Japan, 17Institute for Digital Innovation, Hokkaido University, Sapporo, Japan, 18Department of Immunology, Juntendo University Graduate School of Medicine, Bunkyo-ku, Tokyo, Japan

Poster #117  Effect of the antimicrobial peptide derived from insulin-like growth factor-binding protein 5 on skin barrier regulation
H. L. Nguyen1, J. V. Trujillo1, G. Peng1, H. Yue1, M. Takahashi1, R. Ikutama1, Y. Umehara1, H. Ogawa1, S. Ikeda1, F. Niyonsaba1
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Poster #118  Ichthyosis transcriptome reveals increased atherosclerosis markers and immune and barrier differences amongst subtypes
M. Kim1, D. Mikhaylov1, M. Sun1, K. Malik1, H. He1, Y. Renert-Yuval1, A. B. Pave1, P. Aaller1, E. Guttmans-Yassky1
1Dermatology, Icahn School of Medicine at Mount Sinai, New York, New York, United States, 2Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

Poster #123  Skin-resident immune cells actively coordinate their distribution with epidermal cells during homeostasis
S. Park1, 2
1Department of Medicine, Michigan State University, East Lansing, Michigan, United States, 2Department of Pharmacology & Toxicology, Michigan State University, East Lansing, Michigan, United States

Poster #132  Metabolomic identification of an essential glucose-IRF6 axis in differentiation
V. Lopez-Pojares1, A. Bhaduri1, A. Guerrero1, Y. Zhao1, L. Donohue1, M. Guo2, G. Gowrishankar2, S. G. Ambir3
1Stanford University, Stanford, California, United States, 2VA Palo Alto Health Care System, Palo Alto, California, United States

Poster #139  Heterochromatin maintenance is crucial for terminal keratinocyte differentiation and inhibition of inflammatory responses in the epidermis
G. Chen1, A. Aziz1, T. Sharova1, E. Rozhko1, L. Yang2, N. Lau2, V. Botschavar1, K. Muegge2, A. Sharov1
1Dermatology, Boston University, Boston, Massachusetts, United States, 2Institute for Quantitative Health Science & Engineering, Michigan State University, East Lansing, Michigan, United States

Poster #148  Disruption of nucleolar functions variably affect epidermal differentiation
B. E. Perez White, A. Rodrigues, K. Leano, B. Shi, L. Lyass, S. Yang, S. Huang
Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States
Concurrent Mini-Symposium

Genetic Disease, Gene Regulation, and Gene Therapy

Studies on cutaneous gene expression and genetic diseases including gene therapy.

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Poster # 152 LETR1 is a lymphatic endothelial-specific IncRNA governing cell proliferation and migration through KLF4 and SEMA3C

L. Ducoli1, S. Agrawal1, E. Sibler1, T. Kouno1, C. Tacconi1, C. Hon1, S. Berger1, D. Mühlhaupt1, Y. Hei1, J. Kim1, M. D’Addio1, L. Dieterich1, P. Carninci2, M. de Hoon2, J. Shin2, M. Detmar1

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Poster # 153 A specific mutation in TRPM4 predisposes mice to psoriasiform dermatitis (PsD)

D. Yamada1, S. Vu2, X. Wu1, Z. Shi1, M. Huynh1, J. Zheng2, S. Hwang1, D. Yamada1, S. Vu2, X. Wu1, Z. Shi1, M. Huynh1, J. Zheng2

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Poster # 154 MYC-CPSF-HNRNPA3 cooperation promotes epidermal progenitor maintenance through modulating intrinsic transcription termination

X. Chen1, S. Lloyd1, X. Bao2,3

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Poster # 160 ReplacingCOL7A1-deficient epidermis over the entire body by autografting cultured revertant keratinocytes in severe recessive dystrophic epidermolysis bullosa

T. Fusumae1, M. Tsuchiya, K. Yashiro, H. Kitahara, M. Amagai1, A. Kubo

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Poster # 161 Pharmacogenetics study of different psoriasis treatments

H. Zhang1, M. T. Patrick1, P. E. Stuart2, R. P. Nair1, T. Tejasvi1, J. T. Elder2, L. Tsoi2

1Biostatistics, University of Michigan, Ann Arbor, Michigan, United States, 2Dermatology, University of Michigan, Ann Arbor, Michigan, United States

Poster # 162 Application of microdissection-based spatial transcriptomics for mechanistic and biomarker investigations in dermatology

T. Miyata1,2,3, H. Kawasaki1,2,3, H. Matsunaga1, M. Hosokawa1, A. Sekita1,2, H. Takeyama1,2,4, M. Amagai1,2, H. Koseki1,2,3,7

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Poster # 167 INZ-701 prevents ectopic mineralization in an Abcc6-/- mouse model of pseudoxanthoma elasticum

J. D. Jacobs1, Q. Li1, Z. Cheng1, K. O’Brien1, D. Thompson1, J. Uitto2, Y. Sabbagh2

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Poster # 175 Dynamic transcriptional and epigenetic regulation through vitamin D receptor and p63/p53 signaling in epidermal keratinocytes

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Poster # 178 Expression of active matrix metalloproteinase-1 in dermal fibroblasts: A novel mouse model of accelerated human dermal aging

T. He1, T. Quan, Y. Xia2, A. A. Dlugosz, J. J. Voorhees, G. J. Fisher2

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Poster # 180 ASPRV1 mutations cause dominantly inherited ichthyosis

L. Boyden1, J. Zhou1, R. Hu1, T. Zaki1, E. Loring1, J. Scott1, H. Traupe1, A. Pallier1, R. Liftón1, K. Choo1

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Poster # 181 Tristetraprolin family members repress early T cell cytokine production and are recurrently downregulated in diverse human rashes

C. P. Cook1, Y. Liu1, R. Schmidt1, S. B. Ramos1, A. Marson2, R. Cho1, J. B. Cheng1

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Poster # 182 Functional genomic analysis of STX17 in alopecia areata reveals a novel role in melanocyte function


Columbia University, New York, New York, United States
Concurrent Mini-Symposium

Innate Immunity, Microbiology, and Microbiome

Studies of cells, receptors and effector molecules of the innate immune response; studies on skin microbes, microbiome and infectious processes of the skin.

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CONCURRENTS THEATER

Poster # 190  Commensal microbiota regulates skin barrier function and repair via signaling through the aryl hydrocarbon receptor
A. Uberoi1, C. Bartow-McKenney1, Q. Zheng1, L. Flowers1, A. Campbell1, S. Knight1, N. Chan1, M. Wei1, V. Lovins1, J. Bugayev1, J. Horwinski1, C. Bradley1, J. Meyer2, D. Crumrine1, C. Sutter1, P. Elias1, E. Mauldin1, T. Sutter1, E. Grice1
1Dermatology, University of Pennsylvania, Philadelphia, Pennsylvania, United States, 2University of California San Francisco, San Francisco, California, United States

Poster # 191  Small proline-rich proteins (SPRRs) function as antimicrobial proteins in the skin
C. Zhang1, Z. Hu1, A. Lone1, M. Artami1, T. Harris-Tryon1, 2
1Department of Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, 2Department of Immunology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States

Poster # 192  Bile acids improve psoriasisform dermatitis with inhibition of IL-17A production and CCL20-CCR6 mediated trafficking of T cells
Z. Shi1, X. Wu2, Y. Y. Wan2, S. Hwang2
1Dermatology, University of California Davis, Davis, California, United States, 2Pathology and Laboratory Medicine, University of California Davis, Davis, California, United States

Poster # 198  TNF directs protective neutrophil and IL-17+ γδ T cell responses against Staphylococcus aureus skin infections
C. Youn1, M. P. Alphonse1, D. Dikeman1, Y. Wang1, S. Nolan1, N. A. Orlando1, L. Miller1, 2, N. K. Archer1
1Dermatology, Johns Hopkins Medicine, Baltimore, Maryland, United States, 2Immunodermatology, Janssen Global Services LLC, Titusville, New Jersey, United States

Poster # 201  A basophil-neuronal axis promotes itch
F. Wang3, A. M. Trier1, F. Li1, S. Kim1, Z. Chen1, J. Chai2, M. Mack1, S. Morrison1, J. D. Hamilton1, J. Baek1, T. B. Yang2, A. M. Ver Heul1, A. Z. Xu1, Z. Xie1, X. Dong1, M. Kubo1, H. Hu1, C. Hsieh1, X. Dong1, Q. Liu1, D. Margolis1, M. Ardeleanu1, M. J. Miller1, B. S. Kim1
1Dermatology, Johns Hopkins Medicine, Baltimore, Maryland, United States, 2Immunology Program, Henry Ford Health System, Detroit, Michigan, United States, 3Regeneron Pharmaceuticals Inc, Tarrytown, New York, United States

Poster # 207  Targeting of HDAC8 and HDAC9 in keratinocytes to enhance skin immune defense
Dermatology, University of California San Diego, La Jolla, California, United States

Poster # 210  Eosinophil-derived IL-17 protects against epidermal Staphylococcus aureus infections
N. A. Orlando1, C. Youn, S. Nolan, M. P. Alphonse, D. Dikeman, Y. Wang, G. Patrick, L. Miller, N. K. Archer
Dermatology, Johns Hopkins Medicine, Baltimore, Maryland, United States

Poster # 211  Skin controls the gut immune response through innate ECM cross talk
Department of Dermatology, University of California San Diego, La Jolla, California, United States

Poster # 212  Whole-blood immune profile in hidradenitis suppurativa
P. Dimitrion1, 2, 3, C. Yin1, 2, K. Subedi1, 2, N. Khalasawi1, 2, Y. Yao1, 2, A. Miller1, J. Veenvstra1, 3, G. Vellaichamy1, H. Lim1, I. Hamziv1, L. Zhou1, 2, Q. Mi1, 2
1Dermatology, Henry Ford Health System, Detroit, Michigan, United States, 2Immunology Program, Henry Ford Health System, Detroit, Michigan, United States, 3Wayne State University School of Medicine, Detroit, Michigan, United States

Poster # 224  Rho Kinase deficiency protects mice from UVB-induced skin inflammation by inhibition of neutrophil NETosis
X. Lyu, M. Li, V. P. Werth, M. Liu
Dermatology, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States

Poster # 225  Induction of protective antimicrobial responses mediated by NOD2 as a treatment for wounds infected with multidrug-resistant bacteria
S. Jatana, A. Ponti, J. A. Mack, E. V. Maytin, C. McDonald
Cleveland Clinic, Cleveland, Ohio, United States

Poster # 229  Single cell transcriptomics identifies a potential role for Arg1+ macrophages in alopecia areata pathogenesis
E. Y. Lee1, E. H. Wang1, Z. Dai1, I. Monga1, A. M. Christiano1, 2
1Dermatology, Columbia University, New York, New York, United States, 2Washington University School of Medicine, St Louis, Missouri, United States
Concurrent Mini-Symposium

Patient Population Research

Studies of populations, including but not limited to epidemiological studies, behavioral studies, outcomes research and human services research.

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Poster # 241  Association of ruxolitinib with NMSCs risk in patients with polycythemia vera and myelofibrosis
J. Lin1, S. Li1, S. Li1, E. Kiamanesh1, S. Aasi1, B. Kwong1
1Stanford University School of Medicine, Stanford, California, United States, 2Baylor College of Medicine, Houston, Texas, United States

Poster # 247  Four childhood atopic dermatitis subtypes identified from trajectory and severity of disease
A. R. Mulick1, K. E. Mansfield1, R. Silverwood2,3, A. Budu-Aggrey4, A. Roberts4, A. Custo4, N. Pearce4, A. D. Irvine5, L. Smee6, K. Abubara7, S. M. Langan2
1Non-communicable disease epidemiology, London School of Hygiene and Tropical Medicine Faculty of Epidemiology and Population Health, London, London, United Kingdom, 2Centre for Longitudinal Studies, Department of Social Sciences, University College London, London, London, United Kingdom, 3Medical Statistics, London School of Hygiene and Tropical Medicine Faculty of Epidemiology and Population Health, London, London, United Kingdom, 4Nottingham Support Group for Carers of Children with Eczema, Nottingham, United Kingdom, 5National Heart and Lung Institute, Imperial College London, London, London, United Kingdom, 6Department of Dermatology, University of California San Francisco, San Francisco, California, United States, 7Health Data Research UK, London, United Kingdom, 8MRC Integrative Epidemiology Unit, University of Bristol, Bristol, Bristol, United Kingdom, 9Clinical Medicine, The University of Dublin Trinity College, Dublin, Ireland

Poster # 262  Association of dermatologic manifestations of IBD with natural history and biomarkers of severity
B. M. Patel1, C. Ramos Rivers2, F. Koutroumpakis3, M. Ahsan4, J. Duerk5, J. Hashash6, E. Johnston7, A. Barrie7, J. Harrison8, M. Schwartz9, D. Babichenko10, G. Tong11, D. G. Binion12
1University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania, United States, 2Department of Medicine, Division of Gastroenterology, Hepatology and Nutrition, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, United States

Poster # 263  Atopic dermatitis and the risk of developing rheumatoid arthritis - A population-based cohort study
M. Syed, D. Shin, J. Wan, J. Gelfand
University of Pennsylvania, Philadelphia, Pennsylvania, United States

Poster # 266  Risk of opportunistic, viral, and hospitalized infections in atopic dermatitis
J. Wan1, D. Shin1, M. Syed1, K. Abubara2, J. Gelfand2
1University of Pennsylvania, Philadelphia, Pennsylvania, United States, 2University of California San Francisco, San Francisco, California, United States

Poster # 267  Comorbidities among children with hidradenitis suppurativa
N. L. Tamashunas1, C. Wong2
1Case Western Reserve University School of Medicine, Cleveland, Ohio, United States, 2Dermatology, University Hospitals, Cleveland, Ohio, United States

CONCURRENTS THEATER

Poster # 270  Association of lichen planus with cardiovascular disease: An international cohort study
A. C. Leasure1, J. N. Acosta2, J. M. Cohen3, G. J. Falcone2
1Yale University School of Medicine, New Haven, Connecticut, United States, 2Neurology, Yale University School of Medicine, New Haven, Connecticut, United States, 3Dermatology, Yale University School of Medicine, New Haven, Connecticut, United States

Poster # 284  Rates, characteristics, and comparison of hidradenitis suppurativa readmissions in the united states: A national population-based study
E. Edigin1, S. Kaul1, P. Eseaton2, J. Albrecht3
1John H Stroger Hospital of Cook County, Chicago, Illinois, United States, 2College of Medicine, University of Benin, Benin City, Edo, Nigeria

Poster # 315  Acral lentiginous melanoma: Presentation and outcomes in the era of effective melanoma therapy
R. J. Straker, A. Shannon, E. Chu, G. Karakousis, M. E. Ming
Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania, United States

Poster # 328  Data driven approach identifies hidradenitis suppurativa subtypes in electronic health records
A. Bell1, K. Babbush1, A. Khan1, M. Hayes2, J. Connolly3, F. Mentch4, P. Sleiman5, H. Hakonarson2,4, E. Mukherjee1, G. Hripcsak6, K. Kyrlyk7, C. Weng1, S. Cohen1, L. Wheless1, L. Petukhova1
1Yale University School of Medicine, New Haven, Connecticut, United States, 2Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 3Children’s Hospital of Philadelphia, Philadelphia, Pennsylvania, United States, 4Neurology, Yale University School of Medicine, New Haven, Connecticut, United States, 5University of Pennsylvania, Philadelphia, Pennsylvania, United States, 6Vanderbilt University, Nashville, Tennessee, United States

Poster # 339  Impact and associations of atopic dermatitis out-of-pocket healthcare expenses in the United States
R. Chovatiya1, W. Smith Begolka2, I. Thibau2, J. I. Silverberg1
1Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 2The George Washington University School of Medicine and Health Sciences, Washington, District of Columbia, United States

Poster # 366  Adverse reproductive outcomes among women with hidradenitis suppurativa
A. Colvin1, E. Dabela1, A. Khan1, M. Hayes2, J. Connolly3, F. Mentch1, B. Almoguer1, H. Hakonarson2,4, E. Mukherjee1, G. Hripcsak1, C. Weng1, K. Kyrlyk1, L. Wheless1, L. Petukhova1
Concurrent Mini-Symposium

Patient-Targeted Research

Studies involving direct interaction with patients, including but not limited to therapeutic interventions, clinical trials, and outcome measures.

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Poster # 402 Non-invasively stratifying atopic dermatitis patients based on inflammatory genes
DermTech Inc, La Jolla, California, United States

Poster # 404 Anti-phosphatidylserine/prothrombin complex antibodies in patients with cutaneous vasculitis: A prospective investigation of the pathogenesis
T. Kawakami1, Y. Tamura2, Y. Dong1, M. Yoshinari2, Y. Nishibata1, S. Masuda2, U. Tomaru1, A. Ishizu2
1Division of Dermatology, Tohoku Medical and Pharmaceutical University, Sendai, Japan, 2Department of Medical Laboratory Science, Hokkaido University, Sapporo, Japan

Poster # 410 Tape-strips capture gene-expression changes in moderate-to-severe atopic dermatitis patients treated with dupilumab
D. Mikhaylov1, E. Del Duca2, C. Meyer Olesen3, H. He1, J. Wu4, B. Ungar1, Y. Estrada1, N. Zhang1, M. Chowdhury1, M. Clausen3, J. G. Krueger5, A. B. Pavel2, T. Agner1, E. Guttman-Yassky1
1Dermatology, Icahn School of Medicine at Mount Sinai, New York, New York, United States, 2Dermatology, University of Arkansas for Medical Sciences, Little Rock, Arkansas, United States, 3Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 4Regional Dermatology Training Center, New York, New York, United States, 5Dermatology, The Rockefeller University, New York, New York, United States

Poster # 412 Immune and barrier characterization of atopic dermatitis skin phenotype in Tanzanian patients
C. Lang1,2, Y. Renert-Yuval1, E. Del Duca2, A. B. Pavel2, J. Wu2, N. Zhang1, C. Dubin1, A. Obi1, M. Chowdhury1, M. Kim1, Y. Estrada1, J. G. Krueger1, H. Kaderbhai4, G. Semango3, P. Schmid-Grendelmeier1, M. Brüggen1, J. Masenga5, E. Guttman-Yassky1
1Icahn School of Medicine at Mount Sinai, New York, New York, United States, 2Dermatology, University Hospital Zürich, Zürich, Switzerland, 3The Rockefeller University, New York, New York, United States, 4Regional Dermatology Training Center, Moshi, Tanzania, United Republic of

Poster # 417 The molecular features of normal and atopic dermatitis skin phenotype in infants, children, adolescents and adults
Y. Renert-Yuval1, E. Del Duca2, A. B. Pavel2, M. Fang1, R. L. Lefferdink3, J. Wu2, C. Dubin1, A. Diaz1, Y. Estrada1, T. Cailler1, N. Zhang1, Z. Wo1, V. Wolf2, S. Chamlin1, J. M. Teng2, B. Ungar1, E. Guttman-Yassky1, A. Paller2
1The Rockefeller University, New York, New York, United States, 2Icahn School of Medicine at Mount Sinai, New York, New York, United States, 3Dermatology, University of California, Los Angeles, California, United States

Poster # 420 Topical hyaluronic ointment photodynamic therapy is Poster # effective and safe in CTCL (FLASH study)
E. J. Kim1, B. Poligone1, A. Mangold2, J. DeSimone2, L. Seminario-Vidal3, H. K. Wong1, J. Guitar1, C. Pullion1, R. C. Straube1
1Dermatology, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States. 2Dermatology, Icahn School of Medicine at Mount Sinai, New York, New York, United States.

Poster # 428 Randomized, double-blind, placebo-controlled study of efficacy and safety of secukinumab to treat adults with itchy sores
R. L. Lefferdink1, M. Chima1, E. Ibler1, A. B. Pavel2, H. Kim3, B. Wu3, H. Abu-Zayed4, S. Rangel1, J. Wu1, K. Zumpf1, K. Jackson1, K. Chauke1, E. Guttman-Yassky2, A. Paller1
1Dermatology, Icahn School of Medicine at Mount Sinai, New York, New York, United States, 2Dermatology, Mayo Clinic, Arizona, Phoenix, Arizona, United States, 3Dermatology, Moffitt Cancer Center, Tampa, Florida, United States, 4Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 5Soligenix Inc, Princeton, New Jersey, United States

Poster # 434 Clinical risk factors associated with MRSA incidence in inpatient pediatric cellulitis
S. Chand, R. K. Prapli, C. Gabel1, S. Song1, R. Shah1, C. El Saleeb1, D. Kroshinsky1
1Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States, 2Pediatric Infectious Disease, Massachusetts General Hospital, Boston, Massachusetts, United States

Poster # 436 Identifying locations of Merkel cell carcinoma associated with higher disease-specific mortality
C. Cullison1, J. X. Zheng2, M. A. Levoska3, J. F. Scott3, J. Bordeaux1
1Case Western Reserve University, Cleveland, Ohio, United States, 2Johns Hopkins University School of Medicine, Baltimore, Maryland, United States, 3Dermatology, University Hospitals, Cleveland, Ohio, United States

Poster # 438 A phase 1/2 trial of P01-01, a collagen (C7) protein replacement therapy, in patients with recessive dystrophic epidermolysis bullosa (RDEB)
J. Tang1, A. Bruckner2, M. Chen3, D. T. Woodley4, D. Keene4, M. Barriga5, K. Peoples6, R. Johnson7, D. Ramsdell8, H. Landy8
1Stanford University School of Medicine, Stanford, California, United States, 2University of Colorado, Children’s Hospital Colorado, Aurora, Colorado, United States, 3University of Southern California, Los Angeles, California, United States, 4Shriners Hospitals for Children Portland, Portland, Oregon, United States, 5SPhenix Tissue Repair, Inc., Boston, Massachusetts, United States

Poster # 442 Identifying locations of Merkel cell carcinoma associated with higher disease-specific mortality
C. Cullison1, J. X. Zheng2, M. A. Levoska3, J. F. Scott3, J. Bordeaux1
1Case Western Reserve University, Cleveland, Ohio, United States, 2Johns Hopkins University School of Medicine, Baltimore, Maryland, United States, 3Dermatology, University Hospitals, Cleveland, Ohio, United States

Poster # 443 Clinical risk factors associated with MRSA incidence in inpatient pediatric cellulitis
S. Chand, R. K. Prapli, C. Gabel1, S. Song1, R. Shah1, C. El Saleeb1, D. Kroshinsky1
1Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States, 2Pediatric Infectious Disease, Massachusetts General Hospital, Boston, Massachusetts, United States

Poster # 444 Altered gene expression following targeted therapy for vascular malformation
J. M. Teng
Dermatology, Stanford University, Stanford, California, United States

Poster # 451 Spironolactone for treatment of concomitant female pattern hair loss in scarring alopecia patients
K. E. Fianogon, J. T. Pathoulas, C. J. Walker, I. M. Pupo Wiss, M. M. Senna
Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States

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1Dermatology, Rochester Skin Lymphoma, Fairport, New York, United States, 2Dermatology, Mayo Clinic, Arizona, Phoenix, Arizona, United States, 3Dermatology, Moffitt Cancer Center, Tampa, Florida, United States, 4Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 5Soligenix Inc, Princeton, New Jersey, United States, 6Soligenix Inc, Princeton, New Jersey, United States

Poster # 443 Clinical risk factors associated with MRSA incidence in inpatient pediatric cellulitis
S. Chand, R. K. Prapli, C. Gabel1, S. Song1, R. Shah1, C. El Saleeb1, D. Kroshinsky1
1Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States, 2Pediatric Infectious Disease, Massachusetts General Hospital, Boston, Massachusetts, United States

Poster # 444 Altered gene expression following targeted therapy for vascular malformation
J. M. Teng
Dermatology, Stanford University, Stanford, California, United States

Poster # 451 Spironolactone for treatment of concomitant female pattern hair loss in scarring alopecia patients
K. E. Fianogon, J. T. Pathoulas, C. J. Walker, I. M. Pupo Wiss, M. M. Senna
Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States
Concurrent Mini-Symposium

Pharmacology and Drug Development

Basic and preclinical studies aimed at developing therapeutics, elucidating their mechanisms of action, and identifying biomarkers of drug activity.

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Poster # 467  Novel selective phosphodiesterase inhibitors promote the adipogenic function of dermal fibroblasts: Implication to treat hair loss
M. Yin1, Q. Zhou2, Y. Yang1, S. Wu1, X. Zhang1, H. Luo2, L. Zhang1
1Xiamen University, Xiamen, China, 2Sun Yat-Sen University, Guangzhou, China

Poster # 468  Is topical retinomatstat gel an effective and safe treatment for basal cell carcinoma? Results of a phase 2, open label, single arm trial
J. M. Kilgour1, A. Shah2, N. M. Urman3, S. Eichstadt3, H. Do4, I. Bailey1, A. Mirza1, S. Li5, A. E. Oro5, S. Aasi5, K. Y. Sorin1
1Dermatology, Stanford University, Stanford, California, United States, 2Dermatology, Icahn School of Medicine at Mount Sinai, New York, New York, United States, 3Dermatology, Tufts Medical Center, Boston, Massachusetts, United States

Poster # 470  Engineering chimeric antigen receptor (CAR) T cells for treatment of γδ T cell lymphomas
C. Ellebrecht1, E. Choi1, E. Radaelli2, A. S. Payne1
University of Pennsylvania, Philadelphia, Pennsylvania, United States

Poster # 472  Talazorlimab in atopic dermatitis: Phase 2b study shows improvement at 16 weeks
L. Sher1, B. Rewerska2, A. Acocella2, G. Gudi2, Y. Salhi2, M. Mbow3, K. Changela3, N. Mozaffarian3
1Peninsula Research Associates, Rolling Hills Estates, California, United States, 2Diamond Clinic, Krakow, Malopolskie, Poland, 3Ichnos Sciences, Inc., New York, New York, United States

Poster # 473  Investigation of cell death patterns of SJS/TEN model cells harboring formyl peptide receptor 1
T. Nishiguchi1, R. Abe2
Division of Dermatology, Graduate School of Medical and Dental Sciences, Niigata Daigaku, Niigata, Niigata, Japan

Poster # 475  A curcumin-derivative LG283 that inhibits TGF-β/Smad/Snail-dependent mesenchymal transition ameliorates bleomycin-induced skin fibrosis and vascular injury
A. Utsunomiya1, T. Chino1, N. Oyama1, S. Niwa2, M. Hasegawa1
1Dermatology, Fukui University, Fukui, Japan, 2Link Genomics, Inc., Tokyo, Japan

Poster # 479  High-density lipoprotein-nanoparticles (HDL NPs): A novel therapy for inflammatory skin
R. M. Lewker1, N. Kaplan1, J. Wang1, W. Yang1, K. Lu1, C. Thaxton2, H. Peng2
1Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 2Urology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

Concurrent Mini-Symposium

Poster # 484  Dupilumab provides clinically meaningful improvement in atopic dermatitis (AD) signs and symptoms and quality of life (QoL) in children with severe AD: Results from the LIBERTY AD PEDS phase 3 clinical trial
A. Paller1, M. J. Cork2, D. Marcoux1, H. Zhang4, C. Chuang2, A. Zhang3, J. Chao1
1Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 2The University of Sheffield, Sheffield, United Kingdom, 3Centre Hospitalier Universitaire Sainte-Justine, Montreal, Quebec, Canada, 4Regeneron Pharmaceuticals Inc, Tarrytown, New York, United States, 5Sanofi Genzyme, Cambridge, Massachusetts, United States

Poster # 485  Repurposing disulfiram for the treatment of Merkel cell carcinoma
N. Hill1, T. Gelb1, D. Urban2, T. Kellenberger1, A. Lin1, S. Vilasi1, M. Hall1, I. Brownell1
1Dermatology, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, United States, 2US Food and Drug Administration, Silver Spring, Maryland, United States, 3Early Translation Branch, National Center for Advancing Translational Sciences, Bethesda, Maryland, United States

Poster # 486  Systemic collagen VII protein therapy for treatment of advanced RDEB
C. Gretzmeier1, D. Pin1, M. Chen1, D. T. Woodley2, L. Bruckner-Tuderman1, M. P. de Souza2, A. Nystrom1
1Dermatology, Universitätsklinikum Freiburg, Freiburg, Baden-Württemberg, Germany, 2Université de Lyon, VetAgro Sup, UPS 2016.A104, Marcy l’Étoile, France, 3Dermatology, University of Southern California Keck School of Medicine, Los Angeles, California, United States, 4Phoenix Tissue Repair, Inc., Boston, Massachusetts, United States

Poster # 488  Synthetic melanin nanoparticles as a potential topical therapy for treating injured skin
D. Biyashev1, U. Onay2, M. Demczuk1, N. C. Collins-McCallum1, Z. E. Siwicka2, J. Techner1, S. T. Evans3, N. Gianneschi1, K. Lu4
1Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 2Chemistry, Northwestern University Judd A and Marjorie Weinberg College of Arts and Sciences, Evanston, Illinois, United States

Poster # 489  Sphingosine 1-phosphate receptors are expressed in human scalp hair follicles and their modulation by etrasimod warrants further investigation for management of alopecia areata
I. Piacini1, M. Fehrholz2, O. Egriboz3, L. Ponce4, J. W. Adams5, C. M. Crosby2, M. Bertolini1
1Monasterium Laboratory Skin & Hair Research Solutions GmbH, Münster, Germany, 2Arena Pharmaceuticals Inc, San Diego, California, United States
Concurrent Mini-Symposium

Photobiology

Studies on biological, biochemical, and molecular responses to ultraviolet radiation in cells, animals and humans.

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Poster # 501  Administration of nicotinamide riboside (NR) or pterostilbene (PT) to mice inhibits suppression of contact hypersensitivity (CHS) by mid-range ultraviolet radiation (UVR)
V. Isaki1, S. Azizi1, D. Mehta1, W. Ding1, Z. Bulmer1, R. Dellinger1, R. D. Granstein1
1Weill Cornell Medicine, New York, New York, United States, 2Elysium Health, Inc., New York, New York, United States

Poster # 503  Ex vivo preclinical testing of a wearable UVA phototherapy device
B. E. Perez White1, H. Zhao1, J. Zhao2, A. Kobeissi1, S. Xu1, J. Rogers1, H. Zhang2
1Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 2Northwestern University, Evanston, Illinois, United States

Poster # 504  Nanoparticle encapsulation enhances stability and efficacy of sunscreen actives
S. Tomer1, H. Suh1, A. G. Zhou1, B. Yu1, J. Lewis2, M. Saltzman1, M. Girardi2
1Biomedical Engineering, Yale School of Engineering and Applied Science, New Haven, Connecticut, United States, 2Dermatology, Yale University School of Medicine, New Haven, Connecticut, United States

Poster # 506  Xeroderma Pigmentosum A deficiency results in increased generation of microvesicle particles in response to Ultraviolet B Radiation
L. R. Christian, C. E. Borchers, L. Liu, C. Rapp, M. G. Kemp, J. B. Travers
Pharmacology & Toxicology, Wright State University, Dayton, Ohio, United States

Poster # 508  UVB-irradiated keratinocytes-derived extracellular vesicles: Mediator of proinflammatory responses in macrophages
Y. Li, T. Vazquez, D. Díaz, M. Bashir, V. P. Werth
University of Pennsylvania, Philadelphia, Pennsylvania, United States

Poster # 509  Ultrasmall prussian blue nanoparticles protect human skin fibroblasts from ultraviolet A stress induced premature senescence
Y. Li, D. Luo
The First Affiliated Hospital with Nanjing Medical University, Nanjing, China

Poster # 510  Complex phototoxic properties of a cigarette smoke extract on human keratinocytes
A. Grenier1, 2, P. J. Rochette1, 2, R. Pouliot1, 2
1Centre de Recherche en Organogénèse Expérimentale de l’Université Laval/LOEX, Centre de recherche du CHU de Québec-Université Laval, Québec, Quebec, Canada, 2Université Laval Faculté de pharmacie, Québec, Quebec, Canada, 3Département d’ophtalmologie et ORL-chirurgie cervico-faciale, Université Laval Faculté de médecine, Québec, Quebec, Canada

Poster # 513  The toll like receptor-4 antagonist, TAK-242, enhances repair of ultraviolet radiation-induced DNA damage and inhibits UVB-induced tumor development in mice
M. A. Sherwani1, A. S. Abdelgawad1, M. Eraslan1, M. Chung1, C. Elmets1, 2, N. Yusuf1, 2
1Dermatology, The University of Alabama at Birmingham College of Arts and Sciences, Birmingham, Alabama, United States, 2Birmingham VA Medical Center, Birmingham, Alabama, United States

Poster # 514  WITHDRAWN

Poster # 515  p63 regulates XPC binding dynamics and global nucleotide excision repair in keratinocytes
C. T. Wong1, D. H. Oh1, 2
1Dermatology Service, San Francisco VA Health Care System, San Francisco, California, United States, 2Department of Dermatology, University of California San Francisco, San Francisco, California, United States

Poster # 518  Chronic UV exposure decreases sun sensitivity by a tanning independent mechanism
S. Craig1, 2, A. Viros1, 2
1Skin Cancer and Ageing, Cancer Research UK Manchester Institute, Nether Alderley, Macclesfield, United Kingdom, 2The University of Manchester, Manchester, United Kingdom

Poster # 519  Intrinsic heterogeneity in human keratinocyte sensitivity to ultraviolet radiation
C. R. Richenberger, M. F. Denning
Loyola University Chicago, Chicago, Illinois, United States
Concurrent Mini-Symposium

Pigmentation and Melanoma

Studies on all aspects of cutaneous and extracutaneous pigmentation; molecular cellular and biological facets of melanoma.

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CONCURRENTS THEATER

Poster # 522  Associations between influenza vaccine and immunotherapy outcomes in metastatic melanoma patients
M. Erickson¹, A. Truong¹,², K. Boucher³, J. Hyngstrom¹,²
¹The University of Utah School of Medicine, Salt Lake City, Utah, United States, ²University of Utah Health Huntsman Cancer Institute, Salt Lake City, Utah, United States

Poster # 524  BMP signaling is active in early melanoma lesions and promotes melanoma development
A. K. Gramann ¹, ², W. T. Frantz³, ², K. Dresser¹, C. Gomes¹,
¹Program in Molecular Medicine, University of Massachusetts Medical School, Worcester, Massachusetts, United States, ²Department of Molecular, Cell, and Cancer Biology, University of Massachusetts Medical School, Worcester, Massachusetts, United States, ³Department of Pathology, Brigham and Women's Hospital, Boston, Massachusetts, United States

Poster # 526  Functional, inherited vitamin D-binding protein variants associated with mortality among melanoma patients
D. C. Gibbs¹, N. E. Thomas¹, I. Orlow¹, P. A. Kanetsky³, L. Luo¹,
¹Epidemiology, Emory University, Atlanta, Georgia, United States, ²Epidemiology and Biostatistics, Memorial Sloan Kettering Cancer Center, New York, New York, United States, ³Cancer Epidemiology, Moffitt Cancer Center, Tampa, Florida, United States

Poster # 537  Functional melanoma cell heterogeneity is regulated by MITF-dependent cell-matrix interactions
L. Spoerri¹, C. A. Tonnessen-Murray¹, G. Gunasingh¹, D. S. Hill¹, K. A. Beaumant¹, J. Chauhan¹, A. G. Smith¹, H. Schaider¹, B. Gabrielli¹, W. Weninger¹, C. R. Goding¹, N. K. Haass¹
¹The University of Queensland Diamantina Institute, The University of Queensland Faculty of Medicine, Brisbane, Queensland, Australia

Poster # 538  Sox9 knockout in the endothelium decreases melanoma tumour vascularity, metastasis, and alters melanoma gene expression
G. Hashemi¹, J. W. Dight¹, L. Sormani Le Bourhis¹, K. Khosrotehrani¹
¹The University of Queensland Diamantina Institute, Woolloongabba, Queensland, Australia

Poster # 539  The role of autophagy in IFN-γ effects on global gene expression in keratinocytes
Y. Yang¹,², I. Nagelreiter¹, C. Kremslehner¹, L. Xiang³, C. Zhang³, F. Gruber³
¹Dermatology, Medizinische Universitat Wien, Wien, Wien, Austria, ²Dermatology, Huashan Hospital Fudan University, Shanghai, Shanghai, China

Poster # 541  Inhibition of soluble adenylyl cyclase (sAC) rescues defective melanosomal pH and pigmentation in oculocutaneous albinism type 2 (OCA2)
M. Yusupova¹, D. Zhou¹, K. Wakamatsu¹, J. Zippin¹
¹Dermatology, Weill Cornell Medicine, New York, New York, United States, ²Chemistry, Fujita Ika Daigaku, Toyoake, Aichi, Japan

Poster # 542  BRAFV600E-inhibition drives EMT gene expression enhancing invasiveness and metastasis in a bioluminescent murine model of BRAFV600E/NRASQ61K melanoma
J. Jandova, G. T. Wondrak
College of Pharmacy and UA Cancer Center, University of Arizona, Tucson, Arizona, United States

Poster # 543  The high expression of pro-apoptotic BCL2 family members in uveal melanomas contribute to their sensitivity to MCL1 inhibitors
N. Mukherjee, C. Dart, C. Amato, J. Skees, A. Honig-Frand, K. Lambert, W. Robinson, D. Norris, Y. Shellman
University of Colorado Denver School of Medicine, Aurora, Colorado, United States

Poster # 544  Measurement of melanin metabolism in live cells by [U-13C]-tyrosine fate tracing using LC-MS
C. Qiuying ¹, D. Zhou ¹, Z. Abdel-Malek², P. Goff³, E. Sviderskaya¹, K. Wakamatsu³, S. Ito³, S. Gross³, J. Zippin³
¹Weill Cornell Medicine, New York, New York, United States, ²University of Cincinnati, Cincinnati, Ohio, United States, ³University of London, London, London, United Kingdom

Poster # 547  Regulatory T cell production of IFN-y in vitiligo
E. Katz, K. Gellatly, K. Essien, M. Garber, J. Harris
University of Massachusetts Medical School, Worcester, Massachusetts, United States

Poster # 549  Design and in vitro efficacy of TRP-1 CAR T cells to target melanoma
R. S. Shivde, D. Jaishankar, A. Thomas, J. Le Poole
Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States
Concurrent Mini-Symposium

Skin of Color

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.

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Poster # 552  Fitzpatrick skin type and photographic skin color assessment in a diverse population
S. A. Sreekantaswamy1, S. Siddiqui2, K. Chu1, J. Lester1, L. Zukley1, K. Abuabara1,2,3
1Dermatology, University of California San Francisco, San Francisco, California, United States, 2The University of Utah School of Medicine, Salt Lake City, Utah, United States, 3University of California Berkeley, Berkeley, California, United States
Poster # 553  Herpes simplex virus type 1 infects melanocytes
Y. Feng, R. Qi, Y. Wu, X. Gao, H. Chen
Dermatology, The First Affiliated Hospital of China Medical University, Shenyang, Liaoning, China
Poster # 555  Targeted immunotherapy response in acral melanoma patients—A retrospective review from a tertiary care center
T. Jamerson1, C. Aguh2
1University of Michigan Medical School, Ann Arbor, Michigan, United States, 2Dermatology, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States
Poster # 556  Impact of ethnicity and socioeconomic status on acral lentiginous melanoma incidence and survival: A SEER analysis
N. Raval1,2, F. Godoy1, P. Ugwu-Dike1, Y. Semenov1
1Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States, 2Washington University in St Louis School of Medicine, St Louis, Missouri, United States
Poster # 560  Racial/ethnic diversity in U.S. clinical trials for acne, atopic dermatitis, and psoriasis
A. Sevgamamorothy1, C. Akoh1, P. Sockler2, J. Takedsita2
1NYU Langone Health, New York, New York, United States, 2University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States
Poster # 562  Racial/ethnic differences in quality-of-life among adults with atopic dermatitis
S. Oluwole1, J. S. Barbieri1, Z. Chiesa Fuxench1, D. Shin1, J. Takedsita1
1University of Pennsylvania, Philadelphia, Pennsylvania, United States, 2University of Miami School of Medicine, Miami, Florida, United States
Poster # 563  Progress on the development of a Keloid Area and Severity Index (KASI) to aid in evaluation of keloids in clinical and research settings
E. E. Limmer, D. A. Glass
Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States
Poster # 557  Epidermal remodeling and immunogenicity within sinus tracts in hidradenitis suppurativa at the single-cell resolution
M. Lin1, M. Marohn1, W. Yu1,2, C. Mendoza1, J. Remark1, A. Khodadadi-Jamayran4, E. Chiu1, C. P. Lu4,5
1Plastic Surgery, NYU Langone Health, New York, New York, United States, 2Cell Biology, New York University School of Medicine, New York, New York, United States, 3Dermatology, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan, 4Advanced Research Technologies, New York University School of Medicine, New York, New York, United States
Poster # 558  Differences in discoid lupus distribution and characteristics in black and non-black patients
A. Joseph1, B. Windsor1, L. S. Hynon1, B. F. Chang1
1Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, 2Population and Data Sciences and Psychiatry, The University of Texas Southwestern Medical Center, Dallas, Texas, United States
Poster # 564  Epidermal remodeling and immunogenicity within sinus tracts in hidradenitis suppurativa at the single-cell resolution
M. Lin1, M. Marohn1, W. Yu1,2, C. Mendoza1, J. Remark1, A. Khodadadi-Jamayran4, E. Chiu1, C. P. Lu4,5
1Plastic Surgery, NYU Langone Health, New York, New York, United States, 2Cell Biology, New York University School of Medicine, New York, New York, United States, 3Dermatology, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan, 4Advanced Research Technologies, New York University School of Medicine, New York, New York, United States
Poster # 566  A genome-wide association study in an African American cohort implicates IL-12A in acne
A. Khan1, J. McGovern1, Z. Yang1, C. Wang1, T. Hughes1, E. Dabela1, M. C. Garzon1, C. T. Lauren1, L. E. Levin1, Z. Dai1, M. Hayes1, J. Connolly4, F. Mentch1, B. Almoguera1, P. Sleiman1, H. Hakonarson1, J. Denny1, J. C. Love1, A. K. Shalek2, G. Hripcsak1, C. Weng1, I. Ionita-Laza1, K. Kiryluk1, L. Petukhova1
1Columbia University, New York, New York, United States, 2Genetics and Development, Columbia University, New York, New York, United States, 3Medicine, Columbia University, New York, New York, United States
Poster # 568  Differences in discoid lupus distribution and characteristics in black and non-black patients
A. Joseph1, B. Windsor1, L. S. Hynon1, B. F. Chang1
1Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, 2Population and Data Sciences and Psychiatry, The University of Texas Southwestern Medical Center, Dallas, Texas, United States
Poster # 569  CK2 inhibition synergizes with MAPK inhibition to overcome resistance in acral melanoma
R. Perez-Lorenzo1, R. D. Carvajal2, A. M. Christiano1,2
1Dermatology, Columbia University, New York, New York, United States, 2Genetics and Development, Columbia University, New York, New York, United States, 3Medicine, Columbia University, New York, New York, United States
Poster # 570  A genome-wide association study in an African American cohort implicates IL-12A in acne
A. Khan1, J. McGovern1, Z. Yang1, C. Wang1, T. Hughes1, E. Dabela1, M. C. Garzon1, C. T. Lauren1, L. E. Levin1, Z. Dai1, M. Hayes1, J. Connolly4, F. Mentch1, B. Almoguera1, P. Sleiman1, H. Hakonarson1, J. Denny1, J. C. Love1, A. K. Shalek2, G. Hripcsak1, C. Weng1, I. Ionita-Laza1, K. Kiryluk1, L. Petukhova1
1Columbia University, New York, New York, United States, 2Harvard Medical School, Boston, Massachusetts, United States, 3Northwestern University, Chicago, Illinois, United States, 4The Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, United States, 5National Institutes of Health, Bethesda, Maryland, United States, 6Massachusetts Institute of Technology, Cambridge, Massachusetts, United States
Poster # 573  Clinical and racial differences in cutaneous immune-related adverse events and outcomes
V. Pahalyants1, N. Thodosakis1, P. Ugwu-Dike1, W. Murphy1, N. Klebanov1, T. Le1, A. Gusev1, V. Narbanh1, K. Reynolds1, S. Kwatra1, Y. Semenov1
1Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States, 2Dermatology, Johns Hopkins University, Baltimore, Maryland, United States, 3Medicine, Dana Farber Cancer Institute, Boston, Massachusetts, United States, 4Oncology, Massachusetts General Hospital, Boston, Massachusetts, United States

CME CREDITS: 2.0
Concurrent Mini-Symposium

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.

AVAILABLE ON-DEMAND FROM 5/3/2021 - 5/31/2021

CONCURRENTS THEATER

Poster # 578  Genetic ablation of autoimmune regulator (Aire) results in spontaneous alopecia
N. Maglakelidze, T. Gao, R. P. Feehan, R. Hobbs
Dermatology, Penn State College of Medicine, Hershey, Pennsylvania, United States

Poster # 579  miR-184 represses stemness and behaves as a tumor suppressor in the epidermis
L. Turovsky, S. Nagosa, I. Boyango, S. Bhattacharya, I. Vladavsky, D. Aberdam, E. Emily Avitan-Hersh, R. Shalom-Feuerstein
1Technion Israel Institute of Technology The Ruth and Bruce Rappaport Faculty of Medicine, Haifa, Haifa, Israel, 2Skin Cancer Research Lab, Rambam Health Care Campus, Haifa, Haifa, Israel, 3INSERM, Paris, Ile-de-France, France, **equal contribution, RTICC, Haifa, Israel

Poster # 582  Dermal EZH2 orchestrates dermal differentiation and epidermal proliferation during murine skin development
V. Thulabandu, T. Nehila, J. Ferguson, R. Atit
1Biology, Case Western Reserve University, Cleveland, Ohio, United States, 2Genetics, Case Western Reserve University, Cleveland, Ohio, United States, 3Dermatology, Case Western Reserve University, Cleveland, Ohio, United States

Poster # 583  Hair cycle regulation by a mitochondrially localized protein: Is MPZL3 a central component of the elusive hair cycle clock?
C. Nicu, T. C. Wikramanayake, R. Paus
1Dr. Phillip Frost Department of Dermatology and Cutaneous Surgery, University of Miami Miller School of Medicine, Miami, Florida, United States, 2Monasterium Laboratory, Münster, Germany, 3Centre for Dermatology Research and NIHR Biomedical Research Centre, University of Manchester, Manchester, United Kingdom

Poster # 584  Transcriptomic analysis to identify protective dermal papilla signature in occipital scalp
S. Limbu, N. Farjo, B. Farjo, P. Kemp, C. Higgins
1Bioengineering, Imperial College London, London, London, United Kingdom, 2Farjo Hair Institute, Manchester, United Kingdom, 3HairClone, Manchester, United Kingdom

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1Bioengineering, Imperial College London, London, London, United Kingdom, 2Farjo Hair Institute, Manchester, United Kingdom, 3HairClone, Manchester, United Kingdom

Poster # 591  Chromatin architectural protein CTCF regulates terminal keratinocyte differentiation in the developing epidermis and hair follicles
G. Chen, N. V. Botchkareva, E. Rozhкова, A. Sharov, V. A. Botchkarev
Dermatology, Boston University, Boston, Massachusetts, United States

Poster # 594  Developmental transcriptomics reveal conservation between mouse Merkel cell differentiation and Merkel cell carcinoma
L. Miao, L. Collado, S. Barkdull, M. Kelly, N. Veniaminova, S. Wong, M. Kelley, L. Brownell
1Dermatology Branch, NIAMS, NIH, Bethesda, Maryland, United States, 2Laboratory of Cochlear Development, NIDCD, NIH, Bethesda, Maryland, United States, 3Dermatology, Cell and Developmental Biology, University of Michigan, Ann Arbor, Michigan, United States

Poster # 595  Recapitulating atopic dermatitis in vitro with a multi-organ 3D model
A. Papapalardo, A. Rami, Z. Guo, H. Abaci, A. M. Christiano
Columbia University Irving Medical Center, New York, New York, United States

Poster # 604  DNA dioxygenases TET regulate keratin gene expression and enhancer networks within lineage-specific gene loci during epidermal and hair follicle-specific keratinocyte differentiation
G. Chen, Q. Xu, M. Fessing, A. Mardaryev, A. Sharov, G. Xu, V. A. Botchkarev
1Dermatology, Boston University, Boston, Massachusetts, United States, 2Shanghai Institute of Biochemistry and Cell Biology, Shanghai, Shanghai, China, 3University of Bradford, Bradford, West Yorkshire, United Kingdom

Poster # 605  Generation of Dkk4-Cre knock-in mice to study morphogenesis of ectodermal appendages
H. Khatif, H. Bazzi
1Department of Dermatology & Venereology, Uniklinik Koln, Cologne, Germany, 2CECAD Excellence Cluster, Universitat zu Koln, Cologne, Germany

Poster # 606  Connecting signaling dynamics with cell fates in live mice
T. Xin, S. Regot, V. Greco
1Genetics, Yale University School of Medicine, New Haven, Connecticut, United States, 2Molecular Biology and Genetics, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States

Poster # 607  Cutaneous overexpression of cyclooxygenase-2 models androgenetic alopecia in adult mice
C. Hopkins, Y. Zheng, R. Yang, A. Nace, E. Bernardis, J. Hsieh, G. Cotsarelis
Dermatology, University of Pennsylvania, Philadelphia, Pennsylvania, United States
Concurrent Mini-Symposium

Tissue Regeneration and Wound Healing

Wound healing and regeneration studies; processes/signaling that regulate vascular development and angiogenesis; interactions between different skin components (epithelial cells, dermal cells, nerves, vasculature, melanocytes, fat) in homeostasis and regeneration.

AVAILABLE ON-DEMAND FROM 5/3/2021 - 5/31/2021

Poster # 608  Neuroimmune control of adult mammalian scarless skin regeneration
J. Weil1, H. S. Kim2, C. Spencer3, D. Brennan-Crispi1, Y. Zheng1, D. Leung1, G. Cotsarelis2, T. Leung1, 3, 4
1University of Pennsylvania, Philadelphia, Pennsylvania, United States, 2Singapore Management University, Singapore, Singapore, Singapore, 3Corporal Michael J Crescenz VA Medical Center, Philadelphia, Pennsylvania, United States

Poster # 611  Oral epithelial regenerative transcription factor Pitx1 reprograms keratinocytes to promote cutaneous wound healing
A. Overmiller1, A. Uchiyama1, E. Hope1, D. Grassini1, A. Sawaya1, S. Nayak1, K. Hasneen1, Y. Chen1, S. Brooks1, M. Morasso4
1NIAMS, National Institutes of Health, Bethesda, Maryland, United States, 2Department of Genomics and Precision Medicine, George Washington University, DC, District of Columbia, United States

Poster # 612  Wnt signaling induces fibrotic fat loss via DPP4 in skin fibrosis
A. R. Jussila1, B. Zhang1, S. Kirti1, M. Steele1, E. Hamburger1, V. Horsley1, R. Artig1, 4
1Biology, Case Western Reserve University, Cleveland, Ohio, United States, 2Yale University, New Haven, Connecticut, United States, 3Genetics, Case Western Reserve University, Cleveland, Ohio, United States, 4Department of Dermatology, Case Western Reserve University, Cleveland, Ohio, United States

Poster # 620  RNase L is a regeneration repressor gene
E. Wier1, M. P. Alphonse1, G. Wang1, N. Islam1, E. Sweren1, H. Liu1, A. Li1, S. Reddy1, L. Miller1, S. Lee1, M. Kane1, R. Silverman2, L. A. Garza1
1Johns Hopkins Medicine, Baltimore, Maryland, United States, 2Cleveland Clinic, Cleveland, Ohio, United States

Poster # 622  TNFα in impaired diabetic wound healing: A role for GM3
T. R. Holmes, X. Wang, M. S. Bonkowski, A. Paller
Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

Poster # 624  Langerhans cells promote revascularization and repair during skin wound healing
B. Wasko1, Y. Xing2, I. Sidhu2, K. Bridges1, K. Miller-Jensen1, S. Naik2, V. Horsley1
1Molecular, Cellular, and Developmental Biology, Yale University, New Haven, Connecticut, United States, 2Biomedical Engineering, Yale University, New Haven, Connecticut, United States

Poster # 632  Adipocyte-derived fatty acids induce metabolic activation of macrophage differentiation in the wound bed
M. Forni, Y. Xu, W. Krause, R. Pannone, V. Horsley
Molecular Cellular and Developmental Biology, Yale University, New Haven, Connecticut, United States

Poster # 633  Regulation of IFN kappa in keratinocytes of diabetic wounds
S. Wolf1, C. Audu1, A. Joshi1, A. denDekker1, W. J. Melvin2, X. Xing2, R. Wasikowski2, L. Tsio2, S. Kunkel5, J. E. Gudjonsson1, M. O’Riordan1, J. M. Kahlenberg1, K. Gallagher1
1Department of Surgery, University of Michigan, Ann Arbor, Michigan, United States, 2Department of Dermatology, University of Michigan, Ann Arbor, Michigan, United States, 3Department of Microbiology and Immunology, University of Michigan, Ann Arbor, Michigan, United States, 4Department of Internal Medicine, University of Michigan, Ann Arbor, Michigan, United States, 5Department of Pathology, University of Michigan, Ann Arbor, Michigan, United States

Poster # 634  Single cell transcriptomics identifies a two way conversion program between dermal progenitors and adipocytes during skin development and regeneration
School of Pharmaceutical Sciences, The State Key Lab of Cellular Stress Biology, Xiamen University, Xiamen, Fujian, China

Poster # 637  Abrogation of Sox9 expression in the endothelium blocks aberrant vascular EndMT and fibrosis
J. Zhao1, J. Patel1, S. Kaur1, S. Sim1, H. Wong1, C. Styke1, M. Francois1, M. Yoder1, K. Khosrotehrani1
1The University of Queensland Diamantina Institute, Woolloongabba, Queensland, Australia, 2Queensland University of Technology, Brisbane, Queensland, Australia, 3David Richmond Laboratory for Cardiovascular Development: Gene Regulation and Editing, Centenary Institute, Newtown, New South Wales, Australia, 4Indiana University School of Medicine, Indianapolis, Indiana, United States

Poster # 643  miR193b-3p suppresses wound healing and tumor formation in diabetic foot ulcers
Dr. Phillip Frost Department of Dermatology and Cutaneous Surgery, University of Miami School of Medicine, Miami, Florida, United States

Poster # 644  Bioprinted skin integrates into full-thickness porcine wounds and supports healthy skin repair by modulating inflammation and tissue remodeling
A. M. Jorgensen, N. Mahajan, A. Gorkun, K. Willson, C. Clouse, S. Walker, S. Murphy, S. Lee, J. J. Yoo, S. Soker, A. Atala
Wake Forest Institute for Regenerative Medicine, Wake Forest University School of Medicine, Winston-Salem, North Carolina, United States
Concurrent Mini-Symposium

Translational Studies

Studies that translate findings from laboratory studies, patient-targeted research, or populations research into applications that improve knowledge of skin disease, patient outcomes, clinical practices, and/or public health.

AVAILABLE ON-DEMAND FROM 5/3/2021 – 5/31/2021  CONCURRENTS THEATER

Poster # 650 Improving surveillance for merkel cell carcinoma patients: A web-based tool to interpret sequential merkel cell polyomavirus antibody test results

K. Lachance, D. S. Hippe, K. Cahill, T. Akaike, A. S. Fonseca, P. Nghiem

1Fred Hutch, Seattle, Washington, United States, 2Univ. of WA, Seattle, Washington, United States

Poster # 655 Plasma cytokine profiles in atopic dermatitis: Association with itch intensity


1Dermatology, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States, 2Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States

Poster # 659 Persistence of mature dendritic cells, Th2A and Tc2 cells characterize clinically resolved atopic dermatitis under IL-4R-alpha blockade


1Department of Dermatology, Medical University of Vienna, Vienna, Austria, 2CeMM Research Center for Molecular Medicine, Austrian Academy of Sciences, Vienna, Austria, 3Department of Surgery, Medizinische Universität Wien, Vienna, Wien, Austria

Poster # 663 Psoriasis patients with subclinical atherosclerosis parse into distinct endotypes by differential gene expression


1School of Medicine, Case Western Reserve University, Cleveland, Ohio, United States, 2Department of Dermatology, University Hospitals, Cleveland, Ohio, United States, 3Department of Population and Quantitative Health Sciences, Case Western Reserve University, Cleveland, Ohio, United States, 4Division of Cardiology, University Hospitals, Cleveland, Ohio, United States

Poster # 674 Single-cell RNA sequencing (scRNA-seq) of sarcoidosis skin biopsies reveals key pathogenic cytokines and potential treatment targets

A. Wang, B. King, W. Damsky

Tale University School of Medicine, New Haven, Connecticut, United States

Poster # 675 Utility of circulating tumor DNA testing in Merkel cell carcinoma patients

T. Akaike, C. Doolittle-Amieva, K. Lachance, A. S. Fonseca, C. Church, E. Hall, P. Nghiem, L. C. Zaba

1University of Washington Department of Medicine, Seattle, Washington, United States, 2Stanford University School of Medicine, Palo Alto, California, United States

Poster # 679 Desmoplasia induces T cell exhaustion in cutaneous squamous cell carcinomas

Y. Hirakawa, S. Essien, Q. Zhan, A. Piris, K. K. Yu, C. Schmuly

1Dermatology, Brigham and Women’s Hospital, Boston, Massachusetts, United States, 2Pathology, Brigham and Women’s Hospital, Boston, Massachusetts, United States

Poster # 691 Neutrophil and C5aR dynamics in hidradenitis suppurativa disease progression


1Research, ChemoCentryx Inc, Mountain View, California, United States, 2Dermatology, Stanford University School of Medicine, Redwood City, California, United States

Poster # 696 Interleukin 6 signalling in endovascular progenitors is a driver of melanoma vascularity and metastasis

J. W. Dight, G. Hashemi, H. Wong, S. Sim, L. Sormani Le Bourhis, J. Patel, K. Khosrotehrani

Faculty of Medicine, The University of Queensland Diamantina Institute, Woolloongabba, Queensland, Australia

Poster # 698 Validation of CXCL9 as a biomarker in morphea


Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States

Poster # 699 Pharmacological blockade of the CX3CR1/CX3CL1 fractalkine axis prevents alopecia areata in C3H/HeJ mice

Y. Chang, Z. Dai, A. M. Christianson

1Dermatology, Columbia University, New York, New York, United States, 2Department of Dermatology, Xijing Hospital, Xian, Shaanxi, China

Poster # 707 Hypoxia induced Multipotent Stem Cell-Secreted Proteins Induce Hair Growth in a Phase 1a/2b trial in Male Pattern Baldness

G. Naughton, M. Zimber, M. Hubka, M. Daniels, M. Latterich

Histogen Inc., San Diego, California, United States
### Concurrent Mini-Symposium

#### Interdisciplinary Spotlight: The “Skin”ny on COVID-19

Select abstracts (submitted to various categories), dealing with COVID-19 related issues will be spotlighted in this special session.

**AVAILABLE ON-DEMAND FROM 5/3/2021 - 5/31/2021**

**CONCURRENTS THEATER**

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<th>Poster #</th>
<th>Title</th>
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<th>Institutions</th>
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<td>011</td>
<td>Systemic hyperinflammation as a driver of maculopapular drug exanthema in severely ill COVID-19 patients?</td>
<td>Y. Mitamura1, D. Schulz2, I. Kolm3, S. Ora4, M. Levesque5, E. Maverakis6, C. Akdis1, M. Brüggen2,4</td>
<td>1Swiss Institute for Allergy Research (SIAF), Davos, Switzerland, 2Institute of Molecular Life Sciences, University of Zurich, Zurich, Switzerland, 3UniversitätsSpital Zurich, Zurich, Switzerland, 4University Zurich, Faculty of Medicine, Zurich, Switzerland, 5Henri Mondor Hospital, Paris, France, 6University of California, Davis, Sacramento, California, United States</td>
</tr>
<tr>
<td>028</td>
<td>Use of systemic immunosuppressive treatment is not related to COVID-19 infection in a retrospective review of patients in Massachusetts</td>
<td>W. Murphy1, N. Klebanov4, V. Pahalyants1, N. Theodosakis4, K. Patel1, M. Klevens1, E. Lilly1, Y. Semenov1</td>
<td>1Harvard Medical School, Boston, Massachusetts, United States, 2Dermatology, The University of Texas at Austin Dell Medical School, Austin, Texas, United States, 3Massachusetts Department of Public Health, Boston, Massachusetts, United States, 4Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States</td>
</tr>
<tr>
<td>254</td>
<td>COVID-19 related outcomes in psoriasis and psoriasis arthritis patients</td>
<td>R. Raiker1, H. Pakhchanian1, V. A. Patel1</td>
<td>1The George Washington University School of Medicine and Health Sciences, Washington, District of Columbia, United States, 2West Virginia University School of Medicine, Morgantown, West Virginia, United States</td>
</tr>
<tr>
<td>336</td>
<td>Risks of COVID-19 infection and mortality for patients on biologics</td>
<td>V. Pahalyants1,2, W. Murphy1,2, N. Klebanov1, N. Theodosakis1, M. Klevens1, E. Lilly1, M. Asgari1, Y. Semenov1</td>
<td>1Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States, 2Harvard Medical School, Boston, Massachusetts, United States</td>
</tr>
<tr>
<td>342</td>
<td>Clinical outcomes in COVID-19 patients with Atopic dermatitis</td>
<td>H. Pakhchanian1, R. Raiker1, V. A. Patel1</td>
<td>1The George Washington University School of Medicine and Health Sciences, Washington, District of Columbia, United States, 2West Virginia University School of Medicine, Morgantown, West Virginia, United States</td>
</tr>
<tr>
<td>441</td>
<td>Cutaneous findings in COVID-19 patients hospitalized at a large urban academic medical centers</td>
<td>Chand1, R. Rrapi1, J. Lo1, C. Gabel1, S. Song1, Z. Holcomb1, C. Iriarte1, K. Moore1, C. Shi1, H. Song1, F. Xia1, D. Yanes1, R. Gandhi1, V. Triant1, D. Krishinsky1</td>
<td>1Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States, 2Infectious Disease, Massachusetts General Hospital, Boston, Massachusetts, United States</td>
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Irvin H. Blank Forum

Metabolomics of the Skin

MONDAY, MAY 3, 2021  THEATER

**Moderator Welcome and Overview**
Mark Cameron, PhD  
Director, Applied Functional Genomics Core  
Department of Population and Quantitative Health Sciences,  
Case Western Reserve University

**Lipids in the Skin: Intricacy Upon Complexity**
Wendy Bollag, PhD  
Professor, Department of Physiology and College of Graduate Studies  
Augusta University

**Melanoma Persister Cells**
Matthew Hangauer, PhD  
Assistant Professor, Department of Dermatology School of Medicine  
University of California San Diego

**Metabolic Vulnerabilities as Predictive Biomarkers and Therapeutic Targets in Skin Carcinomas**
Hamid Reza Rezvani, PhD  
Director of Dermatology  
Bordeaux University

CME CREDITS: 1.0
Clinical Scholars/Outcomes

Skin Aging and the Environment

MONDAY, MAY 3, 2021 THEATER

Moderator Welcome and Overview
Jonathan Zippin, MD/PhD/FAAD
Vice Chair of Research, Director Contact, Occupational, and Photodermatitis Service, Associate Professor of Dermatology, Associate Professor of Pharmacology, Associate Attending Dermatologist, New York-Presbyterian Hospital
Department of Dermatology, Weill Cornell Medicine for Precision Medicine

Photoimmunology: The Effect of UV on Immunity
Jamie Bernard, PhD
Assistant Professor
Michigan State University

Skin Epigenome and Epitranscriptome
Brian Capell, MD/PhD
Assistant Professor of Dermatology and Genetics
University of Pennsylvania

Epigenetics of UV Susceptibility
Ashby Morrison, PhD
Associate Professor of Biology
Stanford University
Translational Symposium

Diverse Populations and Gender in Skin Diseases

MONDAY, MAY 3, 2021 THEATER

Moderator Welcome and Overview
Donald Glass II, MD/PhD
Assistant Professor of Dermatology
University of Texas Southwestern Medical Center

Hidradenitis Suppurativa
Angel S. Byrd, MD/PhD
Assistant Professor, Department of Dermatology
Howard University College of Medicine
Adjunct Assistant Professor, Department of Dermatology
Johns Hopkins University School of Medicine

Racial/Ethnic Health and Health Care Disparities in Chronic Inflammatory Skin Diseases
Junko Takeshita, MD/PhD/MSCE
Assistant Professor, Department of Dermatology; Department of Biostatistics, Epidemiology and Informatics
University of Pennsylvania Perelman School of Medicine

Update on Acral Melanoma Genetics
Iwei Yeh, MD/PhD
Associate Professor, Departments of Dermatology and Pathology
University of California, San Francisco

CME CREDITS: 1.0
SID Diversity & Inclusion Committee Session
Intersectional Allyship

MONDAY, MAY 3, 2021
THEATER

Welcome & Introductions by Diversity & Inclusion Co-Chairs
Eleni Linos, MD/MPH and Guillermo Rivera Gonzalez, PhD

Sheree Atcheson
Global Director of Diversity, Equity and Inclusion, Peakon;
Advisory Board Member, Women Who Code;
Contributor, Forbes

Listed as one of the UK’s Top Most Influential Women in Tech & an international multi-award winner for her services to Diversity & Inclusion in industry, Sheree (@nirushika) is the Global Director of Diversity, Equity and Inclusion, Peakon; Advisory Board Member, Women Who Code; Contributor, Forbes.

She is the Author of “Demanding More” (with Kogan Page Publishing) – a book which aims to teach readers about how deliberate exclusion has been in systems and society, so we can be purposefully and deliberately inclusive moving forward.

Sheree is a Global Diversity & Inclusion Senior Executive, having worked in many regions developing tailored, data-driven DE&I strategies, with clear goals and lines of accountability to embed success and inclusion that scales.

As a passionate advocate for gaining/retaining women in the industry, in 2013, she launched & led the award-winning U.K. expansion of Women Who Code (womenwhocode.com) the world’s largest non-profit globally dedicated to women in tech, where she now sits as an Advisory Board Member. The aim of her career is ensuring people are aware of the fantastic opportunities the industry has to offer & make certain that all humans are able to benefit from these & reach their full career potential.
Almirall Symposium:
Antibiotics in Dermatology: Translating Science into Clinical Practice

WEDNESDAY MAY 5, 2021 1:00 - 2:00 PM ET  (ON DEMAND THROUGH MAY 31)          THEATER

Welcome & Introductions:
Ayman Grada, MD, MHA
Director, Research & Development and Medical Affairs, Almirall

Presenters

Christopher Bunick, MD, PhD
Associate Professor of Dermatology, Yale University

Christopher Bunick, MD, PhD, Associate Professor of Dermatology, Yale University, is a dermatologist and physician-scientist with over 25 years involvement in structural biology research. His x-ray crystallography experience began in junior high school, when he conducted experiments for the science fair on simulating the microgravity environment of space for better protein crystal growth. This early foray into structural biology led to more extensive biochemistry training during undergraduate, graduate, and medical school at Vanderbilt University. As an undergraduate, he trained with Dr. Gerald Stubbs in crystallography and fiber diffraction of filamentous plant viruses. This research sparked an interest in long, filamentous systems, which is reflected in his current work on intermediate filaments, particularly keratin function in the skin barrier.

Emmy M. Graber, MD, MBA
Founder, The Dermatology Institute of Boston

Emmy M. Graber, MD, MBA is the Founder of The Dermatology Institute of Boston, a private practice in Boston, Massachusetts and an Affiliate Clinical Instructor at Northeastern University. Dr. Graber has previously held positions at Boston University and is a graduate of the Penn State College of Medicine and The Wharton School of Business. With over ten years clinical experience, Dr. Graber treats a wide range of dermatologic issues and specializes in acne and acne scarring. She is well recognized by her peers for her contributions to the acne field and is the author of many well recognized acne publications including: Treatment of Acne Vulgaris in UpToDate, Acne Vulgaris in Fitzpatrick’s Dermatology Textbook, and American Academy of Dermatology Acne Treatment Guidelines. Dr. Graber has also served on the Board of Directors of the American Acne and Rosacea Society.
Amryt Symposium:
Targeting Inflammatory Skin Disease: Challenges in patients with Epidermolysis Bullosa (EB)

TUESDAY, MAY 4, 2021 2:00 PM ET – 3:30PM ET, LIVE Q&A (ON DEMAND THROUGH MAY 31) THEATER

‘Overview of Inflammatory Skin Diseases with a Focus on Epidermolysis Bullosa’,
Session Chairman, John A. McGrath, MD FRCP FMedSci, St John's Institute of Dermatology, King's College London, United Kingdom

John McGrath is the academic head of St John's Institute of Dermatology in London where he also runs the Genetic Skin Disease Group. He holds the Mary Dunhill Chair in Cutaneous Medicine at King's College London and is Honorary Consultant Dermatologist to the Guy's and St Thomas’ National Health Service Foundation Trust. He has lead roles in delivering experimental medicine and precision medicine within the Biomedical Research Centre at Guy's Hospital and in organizing several national phenotyping and genotyping of rare disease initiatives in the U.K. His research focuses on the molecular characterization of inherited skin diseases and the development of novel treatments for rare skin diseases.

‘Triterpenes and the Potential for Approaches to Improve Wound Healing’,
Maddy Parsons, PhD, Parsons Group in the Randall Centre for Cell & Molecular Biophysics, King's College London, United Kingdom

Maddy Parsons is Director of two microscopy core facilities at King's, Honorary Secretary (Life Sciences) to the Royal Microscopical Society and leads two UKRI-funded UK-wide networks aimed at bringing together multi-disciplinary to tackle significant challenges in Bioimaging. Research in the Parsons lab focuses on understanding how receptor signalling contributes to cytoskeletal dynamics, cell adhesion and migration in the context of different diseases. A key focus is in the development and implementation of advanced microscopy and biophysical approaches to study cells within 2D and 3D environments. Through well-established collaborations with clinicians, we study receptor signalling events in skin blistering, fibrosis, cancer, wound healing and inflammation. We also collaborate in multi-disciplinary projects with physicists, biophysicists and chemists to develop new approaches to study spatio-temporal signalling events contributing to adhesion and migration in living cells.

Anna L. Bruckner, MD MSCS, Professor, Department of Dermatology, University of Colorado School of Medicine

Anna Bruckner, MD, MSCS is Professor of Dermatology and Pediatrics at the University of Colorado School of Medicine, and Section Head of Pediatric Dermatology at Children's Hospital Colorado. She attended Northwestern University as part of the Honors Program in Medical Education, earning her MD in 1997. She trained in pediatrics and dermatology at the University of Colorado followed by a fellowship in pediatric dermatology at the University of California San Francisco. After her interest in clinical research grew, she completed the Masters of Science in Clinical Sciences program at the University of Colorado Anschutz Medical Campus. Dr. Bruckner specializes in pediatric dermatology, observational clinical research and clinical trials. Her areas of expertise include epidermolysis bullosa (EB) and other genetic skin disorders, vascular birthmarks, atopic dermatitis (eczema), and complex patients. She directs the Epidermolysis Bullosa Clinical Research Consortium, a network of North American EB care centers collaborating in clinic research aimed at improving the care and outcomes for patients with EB.
Bristol-Myers Squibb Symposium:
Exploring The Pathway Forward: Tyk2/Jak/Stat-Mediated Signaling In Psoriasis

THEATER

James G. Krueger, MD, PhD
Head of the Laboratory for Investigative Dermatology
The Rockefeller University, New York, New York.

James G. Krueger, MD, PhD, is Head of the Laboratory for Investigative Dermatology at The Rockefeller University in New York, New York. He also serves as a Physician and Co-director of the Center for Clinical and Translational Science at The Rockefeller University Hospital and Chief Executive Officer of The Rockefeller University Hospital. Dr Krueger earned his bachelor's degree from Princeton University and his doctorate in virology and cell biology from The Rockefeller University. He received his medical degree from Cornell University Medical College, where he also completed an internship in internal medicine and a residency in dermatology. Dr Krueger is certified by the American Board of Dermatology. Dr Krueger's research group at The Rockefeller University was the first to conduct clinical trials with specific, targeted immune antagonists in psoriasis, and this work established that the elimination of pathogenic T cells from skin lesions could reverse the full pathologic phenotype of psoriasis. Since then, his group has used immune-based therapeutics to dissect inflammatory pathways in psoriasis and conduct parallel pharmacogenomic studies that define mechanisms of targeted therapeutics in human populations. A more recent focus of Dr Krueger's research has been on identifying new inflammatory pathways, as well as new types of inflammatory cells, in psoriatic lesions that are now being targeted with new biologic drugs. He is an advocate for bidirectional translational research (bench to bedside and back) in humans using psoriasis as a model inflammatory disease to dissect pathogenic pathways that cannot be studied in animal models.
ESTÉE LAUDER

Estee Lauder Symposium:
Mechanobiology: The Forces Revolutionizing Skin Health

TUESDAY MAY 4, 2021  1:00 PM ET - 2:00 PM ET    ON DEMAND THROUGH MAY 31    THEATER

Introduction,
Kurt Schilling, PhD, Senior Vice President of Advanced Technologies, Global R&D, Estée Lauder Companies

‘Mechanobiology’,
Donald E. Ingber, MD, PhD, Founding Director of the Wyss Institute for Biologically Inspired Engineering at Harvard University, Judah Folkman Professor of Vascular Biology at Harvard Medical School and the Vascular Biology Program at Boston Children’s Hospital, and Professor of Bioengineering at the Harvard John A. Paulson School of Engineering and Applied Sciences.

‘Mechanobiology and Periorbital Aging: Skin cell response to micromovements and their duration’,
Nadine Pernodet, PhD, Senior Vice President of Skin Biology and Bioactives, Global R&D, Estée Lauder Companies
Sanofi Genzyme & Regeneron Pharmaceuticals Symposium:
The Shades of Atopic Dermatitis in Skin of Color

THURSDAY, MAY 6, 2021  1:00 PM ET – 2:00 PM ET   THEATER                 *LIVE-ONLY SESSION*

Jonathan Silverberg, MD/PhD/MPH
Associate Professor of Dermatology, The George Washington University School of Medicine and Health Sciences in Washington, DC. He is the Director of Clinical Research and Contact Dermatitis.

Dr. Silverberg completed his undergraduate and medical school training as a part of the highly selective dual B.A./M.D. program at State University of New York Downstate Medical Center, in Brooklyn. Dr. Silverberg also received his doctorate in neuroimmunology and Master of Public Health degree in biostatistics and epidemiology from the State University of New York Downstate Medical Center where he also completed his internship in internal medicine. He completed his residency training in dermatology at St. Luke's-Roosevelt Hospital Center and Beth Israel Medical Centers in New York, NY and served as Chief Resident during his final year.

Dr. Silverberg’s area of clinical subspecialty is inflammatory skin disease, particularly atopic and contact dermatitis. He has extensive experience in the advanced management of atopic dermatitis, hand eczema, chronic itch, psoriasis, hidradenitis and many other chronic inflammatory skin disorders. He is also a national expert in allergy patch testing, phototesting and photopatch testing.

Live Q&A Following Presentation
Plenary Lecture Session I

TUESDAY, MAY 4, 2021  10:30 AM – 11:30 AM ET  THEATER

Presiders: Ben Chong, MD and Wendy Weinberg, PhD

Poster #693
Gut dysbiosis plays a role in the development of alopecia areata
A. R. Abdelaziz1, J. Chen1, B. N. Sallee1, E. H. Wang1, Z. Dai1, E. Loesch1, R. Perez-Lorenzo1, L. A. Bordone1, A. M. Christiano1, 2
1Dermatology, Columbia University, New York, New York, United States, 2Genetics and Development, Columbia University, New York, New York, United States

Poster #209
Epidermal interferon production is positively regulated by Staphylococcus aureus in SLE and involves the STING pathway
S. Sirobhushanam, M. K. Sarkar, H. Stickney, J. Banfield, J. E. Gudjonsson, J. M. Kahlenberg
University of Michigan, Ann Arbor, Michigan, United States

Poster #646
Antimicrobial Perforin-2 in chronic wounds correlates with healing outcomes
V. Chen1, R. C. Stone1, J. Burgess1, N. Strbo1, I. Pastar1, M. Tomic-Canic1
1Dr. Phillip Frost Department of Dermatology and Cutaneous Surgery, University of Miami School of Medicine, Miami, Florida, United States, 2Department of Microbiology and Immunology, University of Miami School of Medicine, Miami, Florida, United States

Poster #379
Epidemiology and risk factors for the development of cutaneous toxicities in patients treated with immune checkpoint inhibitors: A United States population-level analysis
S. Wongvibulsin1, 2, V. Pahalyants1, M. Kalinich1, W. Murphy1, K. Yu1, F. Wang1, S. Chen1, K. Reynolds4, S. G. Kwatra2, Y. Semenov1
1Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States, 2Dermatology, Johns Hopkins University, Baltimore, Maryland, United States, 3Biomedical Informatics, Harvard Medical School, Boston, Massachusetts, United States,
Herman Beerman Lecture

Some Assembly Required: The Deep History of the Human Body

AVAILABLE ON-DEMAND FROM 5/3/2021 – 5/31/2021

THEATER

Introduction by:
Janet Fairley, MD

Neil Shubin, PhD
University of Chicago
Chicago, Illinois

Neil Shubin is the Robert Bensley Distinguished Service Professor at the University of Chicago. He’s also the author of two popular science books — The Universe Within: The Deep History of the Human Body (2013) and the best-selling Your Inner Fish: A Journey into the 3.5-Billion-Year History of the Human Body (2008). Your Inner Fish was named best book of the year by the National Academy of Sciences. The focus of Shubin’s research is the evolution of new organs, especially limbs. He has conducted fieldwork in Greenland, China, Canada, and much of North America and Africa and has discovered some of the earliest mammals, crocodiles, dinosaurs, frogs and salamanders in the fossil record.

One of his most significant discoveries, the 375-million-year-old Tiktaalik roseae fossil, is considered an important transitional form between fish and land animals. The 2006 announcement of the finding received worldwide media coverage and led to Shubin’s being named ABC News Person of the Week. He’s made many other notable observations regarding the developmental biology of limbs, using his diverse fossil findings to devise hypotheses about the genetic and developmental processes that led to anatomical transformations. He is also committed to sharing the importance of science with the public, and his lab maintains an active presence on Facebook and Twitter.

Dr. Shubin earned his Ph.D. in organismic and evolutionary biology at Harvard and was elected to the National Academy of Sciences in 2011.

https://oba.bsd.uchicago.edu/faculty/neil-h-shubin-phd

LECTURESHP HISTORY
This award is given in recognition of Dr. Herman Beerman’s long and devoted service to the SID and his efforts to secure for it a position of respect in the scientific community. The Herman Beerman Lecture is given by a distinguished medical scholar at a scientific session of the Society’s Annual Meeting. Traditionally, lecturers from fields other than dermatology are chosen in order to give meeting attendees the opportunity to learn about scientific advances in other fields.
State-of-the-Art Plenary Lecture I

From Metagenomes to Therapeutics: The Landscape of the Human Skin Microbiome

TUESDAY, MAY 4, 2021  12:00 PM ET – 12:30 PM ET  THEATER

Introduction:
Vladimir Botchkarev, MD/PhD

Julie Oh, PhD
The Jackson Laboratory
Bar Harbour, Maine

Julia Oh is an Associate Professor at the Jackson Laboratory for Genomic Medicine. She did her Post-doc work at the National Human Genome Research Institute, National Institutes of Health, received her Ph.D. at Stanford University and has a B.A. degree from Harvard University. Dr. Oh is a microbiome expert with a focus on combining high-resolution computational reconstructions of the microbiome with synthetic biology to devise innovative approaches to create novel therapeutic interventions and investigate the underlying ecology of skin microbial communities.

https://www.jax.org/research-and-faculty/faculty/julia-oh
https://www.jax.org/research-and-faculty/research-labs/the-oh-lab
Plenary Lecture Session II

WEDNESDAY, MAY 5, 2021  10:30 AM ET – 11:30 AM ET  THEATER

Presiders: Elena Ezhkova, PhD and Michael Howell, PhD

Poster #554
Cluster analysis of circulating plasma biomarkers in prurigo nodularis reveals a distinct systemic inflammatory signature in African Americans
Dermatology, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States

Poster #598
Gibbin toggles CTCF binding and DNA methylation to drive epithelial development
A. Collier1, A. Liu1,2, J. Torkelson1, J. Pattison1, S. Gaddam1, T. Patel1, K. McCarthy1, H. Zhen1, A. Oro1,2
1Program in Epithelial Biology, Stanford University, Stanford, California, United States, 2Stem Cell Biology and Regenerative Medicine Graduate Program, Stanford University, Stanford, California, United States

Poster #026
CXCR4+ skin-resident natural killer T cells participate in cutaneous allergic inflammation in atopic dermatitis
Z. Sun1, J. Kim1,2, S. Kim1,2, K. Zhang1,2, H. Kim1,2, S. Kim1, K. Lee1,2, T. S. Kupper1, C. Park1,2,3
1Department of Dermatology, Yonsei University College of Medicine, Seodaemun-gu, Seoul, Korea (the Republic of), 2Brain Korea 21 Project for Medical Science, Yonsei University College of Medicine, Seodaemun-gu, Seoul, Korea (the Republic of), 3Institute of Allergy, Yonsei University College of Medicine, Seodaemun-gu, Seoul, Korea (the Republic of), 4Department of Dermatology & Harvard Skin Disease Research Center, Brigham and Women's Hospital, Boston, Massachusetts, United States

Poster #097
Adipose triglyceride lipase dependent adipocyte lipolysis inhibits dermal fibrosis
E. A. Caves1, V. Lei1, V. Horsley1,2
1Molecular, Cellular and Developmental Biology, Yale University, New Haven, Connecticut, United States, 2Dermatology, Yale University School of Medicine, New Haven, Connecticut, United States
William Montagna Lecture

Cutaneous Neurons Modulate Skin Inflammation

WEDNESDAY, MAY 5, 2021  11:30 AM ET - 12:00 PM ET  THEATER

Introduction by:
Niroshana Anandasabapathy, MD/PhD

Daniel Kaplan, MD/PhD
University of Pittsburgh
Pittsburgh, PA

Daniel H. Kaplan, MD/PhD is a Professor within the Department of Dermatology and Immunology, University of Pittsburgh (Kaplanlab.pitt.edu; @kaplanlab). His research is dedicated to understanding the mechanisms that underlie skin immunity and the interplay of different immune cells types that reside in the skin. As a graduate student at Washington University, St. Louis he participated in the re-invigoration of the concept of tumor immunosurveillance by observing an increased frequency of skin tumors in immunodeficient mice. During his fellowship/postdoc at Yale University, he developed a number of genetically modified mouse lines with a selective deficiency of Langerhans cells (LC) and showed that these cells have the unexpected capacity to suppress tissue immune responses.

As an Assistant and later Associate professor at the University of Minnesota, his lab found that LC and dermal dendritic cells have unique functions in the development of anti-pathogen responses. More recently, his lab has focused on the contribution of non-hematopoetic cells to skin immunity. In particular, they have found that keratinocytes participate in maintaining epidermal residence of both LC and CD8+ resident memory T cells through the transactivation of autocrine TGFβ. This mechanism shapes both skin-resident and circulating memory T cell pools. The lab has also found that TRPV1-expressing neurons in the skin can directly sense and respond to C. albicans and are both necessary and sufficient for the development of cutaneous Type-17 innate immune responses. These neurons not only participate in local innate immunity but also alert adjacent skin sites to potential danger in a process termed “anticipatory immunity”. Current efforts in the lab focus on determining the regulation of KC-mediated TGFβ transactivation, exploring the immune functions other subtypes of cutaneous neurons and mapping-out the precise intracellular networks driving different types of local inflammation.

https://www.immunology.pitt.edu/person/daniel-kaplan-md-phd

LECTURESHP 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.
State-of-the-Art Plenary Lecture II

Skin Deep: Stem Cells at the Nexus of the Niche, Physiology, and the External Environment

WEDNESDAY, MAY 5, 2021  12:00 PM ET – 12:30 PM ET  THEATER

Introduction:
Peggy Myung, MD/PhD

Ya-Chieh Hsu, PhD
Harvard Stem Cell Institute
Boston, MA

Ya-Chieh Hsu is the Alvin and Esta Star Associate Professor of Stem Cell and Regenerative Biology at Harvard University, a Principal Faculty Member at the Harvard Stem Cell Institute, and an associate member of the Broad Institute.

The Hsu laboratory seeks to understand how tissue formation, regeneration, and repair are shaped by diverse stimuli at the level of the niche, physiology, and the environment in the mammalian skin— an accessible organ with diverse cell types and multiple populations of somatic stem cells.

Dr. Hsu completed her PhD. at Baylor College of Medicine, where she studied pathways controlling organ size using Drosophila as a model. For her postdoctoral research, she delineated the lineage hierarchy of hair follicle cells and investigated how signals from stem cell progeny regulate hair follicle stem cells in Elaine Fuchs’ laboratory at the Rockefeller University.

Dr. Hsu is a recipient of several honors and awards, including the Pew Biomedical Scholars Award, the Smith Family Award for Excellence in Biomedical Research, Basil O’Connor Starter Scholar Award, Smith Family Foundation Odyssey Award, American Cancer Society Research Scholar Award, NYSCF - Robertson Stem Cell Investigator Award, and the LEO foundation Award. She is also an awardee of Harvard’s Roslyn Abramson Award for excellence in undergraduate teaching.

https://hsci.harvard.edu/people/ya-chieh-hsu-phd
Poster and Exhibitor Session I

WEDNESDAY, MAY 5, 2021    2:30 PM ET - 4:00 PM ET    POSTER AND EXHIBIT HALLS

As a part of the SID’s commitment to having an interactive Poster Session experience, the breakdown of Poster Session I will be as follows:

Starting at 2:30 pm ET in the meeting platforms Poster Hall, Presenting Authors of papers submitted in the categories below will be available at their interactive poster boards to showcase their work as well as answer questions that are posed via the interactive features of the Poster Hall. This session will take place until 4:00 pm ET.

Categories to be presented:

• Adaptive and Auto-Immunity
• Carcinogenesis and Cancer Genetics
• Epidermal Structure and Barrier Function
• Genetic Disease, Gene Regulation, and Gene Therapy
• Patient-Targeted Research
• Skin of Color
• Tissue Regeneration and Wound Healing
Plenary Lecture Session III

THURSDAY, MAY 6, 2021  10:30 AM ET – 11:30 AM ET  THEATER

Presiders: Andrew Kowalczyk, PhD and Julie Ryan Wolf, PhD

Poster #079
Somatic mutation of the OXA1L 5'UTR enables cutaneous squamous cell carcinoma
A. Mah1, J. Garcia1, D. Sessions1, T. Bencomo1, A. Amado1, A. Srivastava1, C. Lee1, 2
1Stanford University, Stanford, California, United States, 2VA Palo Alto Health Care System, Palo Alto, California, United States

Poster #439
Oral 25-hydroxyvitamin D3 reduces chemical-induced skin inflammation in humans
J. Techner2, R. M. Rothbaum2, L. Christensen1, S. T. Evans2, U. Onay2, D. Biyashev2, M. Demczuk2, K. D. Cooper1, K. Lu2
1Dermatology, University Hospitals, Cleveland, Ohio, United States, 2Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

Poster #114
Involucrin deficiency results in decreased vitamin D receptor-mediated inflammation and Csnk1e isoform bias
A. D. Schmidt, M. Mathyer, E. Brettmann, C. de Guzman Strong
Dermatology, Washington University in St Louis School of Medicine, St Louis, Missouri, United States

Poster #487
Topical MEK inhibition as precision targeted chemoprevention
B. Sell1, J. Shahryari1, 2, A. Shah2, M. Duncton3, W. Sun2, P. Fenn2, S. Plotkin4, J. Kincaid1, K. Y. Sarin1, K. Y. Tsai1
1Moffitt Cancer Center, Tampa, Florida, United States, 2Stanford University, Stanford, California, United States, 3NFlection Therapeutics, Wayne, Pennsylvania, United States, 4Massachusetts General Hospital, Boston, Massachusetts, United States
State-of-the-Art Plenary Lecture III

Merkel Cells and Merkel cell Carcinoma – Neuroendocrine Skin Cells from Development to Cancer

THURSDAY, MAY 6, 2021  11:30 AM ET – 12:00 PM ET  THEATER

Introduction:
Ken Tsai, MD/PhD

Isaac Brownell, MD/PhD
National Institutes of Health (NIH)
Bethesda, Maryland

Dr. Brownell is a board-certified Dermatologist. He obtained degrees in electrical engineering and mathematics prior to undergoing MD/PhD training at Baylor College of Medicine. Dr. Brownell completed a dermatology residency at the New York University School of Medicine, and a postdoctoral research fellowship in the laboratory of Dr. Alexandra Joyner at the Sloan-Kettering Institute. On the clinical faculty at the Memorial Sloan-Kettering Cancer Center, his practice focused on patients with high-risk skin cancers. In 2011, Dr. Brownell joined the Dermatology Branch at the National Institutes of Health where he is Head of the Cutaneous Development and Carcinogenesis Section.

Dr. Brownell directs a research program investigating the development and maintenance of stem cells in normal skin, and the changes that occur during the formation of skin cancer. A current focus in the laboratory is the regulation of neuroendocrine Merkel cells in the skin and the oncogenomics of Merkel cell carcinoma. In addition, Dr. Brownell conducts early phase clinical trials and translational research to identify novel therapeutic targets and biomarkers for this uncommon but aggressive skin cancer.

Clinically, Dr. Brownell serves as an attending physician on the NIH Clinical Center Dermatology Consultation Service and he co-directs the Cutaneous Oncology Program at the Murtha Cancer Center, Walter Reed National Military Medical Center.

https://www.niams.nih.gov/about/directory/isaac-brownell-md-phd
https://www.niams.nih.gov/labs/brownell-lab
Keloids: Aberrant Wound Healing/Inflammatory Fibroproliferative Disorder

THURSDAY, MAY 6, 2021  12:00 PM - 12:30 PM  THEATER

Introduction:
Marjana Tomic-Canic, PhD

Donald Glass, MD/PhD
University of Texas Southwestern Medical School
Dallas, Texas

Originally from the Bahamas, Dr. Donald Glass earned his medical degree and PhD. in Molecular and Human Genetics at Baylor College of Medicine. He then completed his residency in dermatology and his postdoctoral training at UT Southwestern, the latter in the lab of Helen Hobbs, MD and Jonathan Cohen, PhD. He is board certified by the American Board of Dermatology and joined the faculty in the Department of Dermatology at UT Southwestern in 2013.

Dr. Glass’ main research interest is in understanding how keloids (exuberant scarring of the skin) occur and in finding the genes, genetic alterations and signaling pathways critical to keloid pathogenesis. Keloids occur disproportionately in skin of color, and the ability to develop keloids can be inherited within families. Dr. Glass is compiling a registry of individuals and families affected by keloids to obtain samples and information to study keloids further. His work is supported by the National Institutes of Health, the Dermatology Foundation and UT Southwestern.

https://profiles.utsouthwestern.edu/profile/102718/donald-glass.html
https://utsamed.org/doctors/donald-glass/
As a part of the SID’s commitment to having an interactive Poster Session experience, the breakdown of Poster Session II will be as follows:

Starting at 2:30 pm ET in the meeting platforms Poster Hall, Presenting Authors of papers submitted in the categories below will be available at their interactive poster boards to showcase their work as well as answer questions that are posed via the interactive features of the Poster Hall. This session will take place until 4:00 pm ET.

Categories to be presented on Thursday, May 6, 2021 (2:30 pm ET - 4:00 pm ET):

- Cell-Cell Interactions in the Skin
- Innate Immunity, Microbiology, and Microbiome
- Patient Population Research
- Pharmacology and Drug Development
- Photobiology
- Pigmentation and Melanoma
- Skin, Appendages, and Stem Cell Biology
- Translational Studies
Stephen Rothman Memorial Award

FRIDAY, MAY 7, 2021 10:30 AM ET - 10:45 AM ET  THEATER

Introduction by:
Paul Nghiem, MD/PhD

Paul Khavari, MD/PhD
Stanford University
Palo Alto, CA

Paul A. Khavari, MD/PhD. is the Carl J. Herzog Professor and Chair of the Department of Dermatology at the Stanford University School of Medicine, the Chief of the Dermatology Service at the Veterans Affairs Palo Alto Healthcare System, and the Co-Director of the Stanford Program in Epithelial Biology. Dr. Khavari grew up in Whitefish Bay, Wisconsin. He earned his undergraduate degree at Stanford and MD. at Yale. After internship and dermatology residency at Yale, he completed PhD. and post-doctoral fellowship training with Jerry Crabtree in the Howard Hughes Medical Institute at Stanford. He joined the faculty of Stanford School of Medicine in 1993 where his research applies computational and multiomics approaches to study epidermal homeostasis and cancer, with a focus on normal and diseased human tissue. Dr. Khavari is the recipient of the U.S. Presidential Early Career Award for Scientists and Engineers and the Shannon Award from the National Institutes of Health. He has also received the Department of Veterans Affairs Young Investigator Award at the VA Palo Alto, a Junior Faculty Scholar Award from the Howard Hughes Medical Institute at Stanford, the American Dermatological Association Young Leader Award, the American Academy of Dermatology Marion B. Sulzberger Award, the Society for Investigative Dermatology William Montagna Award, the CERIES Award in Skin Biology, the Tanioku Kihei Award in Investigative Dermatology, the American Skin Association Lifetime Scientific Achievement Award and the Kligman-Frost Leadership Lectureship Award from the Society of Investigative Dermatology. He has been elected to American Society for Clinical Investigation, the American Association of Physicians, and the National Academy of Medicine.

https://profiles.stanford.edu/paul-khavari
http://khavarilab.stanford.edu/

AWARD HISTORY
The Stephen Rothman Memorial Award is presented annually for distinguished service to investigative cutaneous medicine. The recipient of this award has made major scientific achievements and excelled as a teacher and recruiter of outstanding dermatologists. The recipient is an individual who has distinctly altered the course and image of dermatology or its allied fields. It is the Society's highest honor.
Eugene M. Farber Lecture

Getting Clear: Psoriasis Advancements and Beyond

FRIDAY, MAY 7, 2021 2:15 PM ET – 2:45 PM ET  THEATER

Introduction by:
Daniela Kroshinsky, MD

April Armstrong, MD/MPH
Keck School of Medicine at Univ. of Southern California (USC)
Los Angeles, CA

Dr. April Armstrong is Professor of Dermatology and Associate Dean of Clinical Research at the University of Southern California. Dr. Armstrong also serves as Director of Clinical Research Support at the Southern California Clinical and Translational Research Institute.

Dr. Armstrong obtained her medical degree from Harvard Medical School and completed dermatology residency at Harvard. She also obtained a Master of Public Health degree from Harvard School of Public Health. Prior to joining faculty at the University of Southern California, Dr. Armstrong served as Vice Chair and Director of Clinical Trials and Outcomes Units at the University of California Davis in Sacramento and later at the University of Colorado in Denver.

Dr. Armstrong is a federally funded investigator who is highly committed to clinical research and the care of patients with inflammatory skin diseases including psoriasis and atopic dermatitis. Her research in focuses on (1) investigating comorbidities related to psoriasis and atopic dermatitis, (2) identifying treatment patterns, treatment goals, and economic burden of inflammatory skin disease, and (3) increasing patient access using innovative, technology-enabled healthcare delivery methods. She has conducted over 150 clinical trials and published over 300 articles in scientific journals. Her research has been supported by the NIH, AHRQ, PCORI, Dermatology Foundation, and the National Psoriasis Foundation.

Dr. Armstrong currently serves as the Chair of the Medical Board at the National Psoriasis Foundation. She also holds multiple leadership positions at other professional organizations such as Group for Research and Assessment of Psoriasis and Psoriatic Arthritis (GRAPPA), the International Psoriasis Council, International Eczema Council, and the American Academy of Dermatology. She is an editorial board member of JAMA Dermatology and had also served on the editorial boards of JAAD and Telemedicine and eHealth.

www.keck.usc.edu/faculty-search/april-w-armstrong/
Facebook: https://www.facebook.com/AprilArmstrongMD
LinkedIn: https://www.linkedin.com/in/april-armstrong-md-mph-389ba22b/
Instagram (2 pages): @professor.skin@draprilarmstrong

LECTURESHP HISTORY
The Eugene M. Farber endowment was established by the family of Dr. Farber who devoted his scientific career to understanding the pathogenesis of psoriasis. In 2007, the SID Board of Directors voted to create the Eugene M. Farber Endowed Lecture. It is presented at the Society’s Annual Meeting by an investigator whose work is relevant to expanding our insights into the pathophysiology and treatment of psoriasis.
State-of-the-Art Plenary Lecture V

Understanding Skin Host Defense In Health And Disease

FRIDAY, MAY 7, 2021  11:15 AM ET – 11:45 AM ET  THEATER

Introduction:
Tissa Hata, MD

C. Henrique Serezani, PhD
Vanderbilt University Medical Center
Nashville, TN

Carlos Henrique Serezani, PhD., is an Associate Professor of Medicine, Pathology, Microbiology and Immunology and Pharmacology. Dr. Serezani completed his PhD. at the University of Sao Paulo and the University of Michigan. He also completed his postdoctoral studies at the University of Michigan. He was an Assistant Professor at Indiana University School of Medicine (2012-2016) and has published more than 70 papers in reputed journals. His skin immunology interests started 6 years ago, and since then, he has focused his research theme almost entirely on dissecting mechanisms of resistance and susceptibility to skin infections. The NIH and other foundations have funded his laboratory for almost 15 years.

https://www.vumc.org/viiii/person/c-henrique-serezani-phd
https://medicine.vumc.org/person/carlos-henrique-serezani-phd
Agenda:

- Secretary-Treasurer Report
- JID Editor Report
- JID Innovations Editor Report
- Moment of Silence
- Approval of New Members
- New Board Member Elections
- Acknowledgment of Outgoing Board and Committee Members
- Passing of the Gavel to new President
- 2022 SID Annual Meeting Updates
- New Business
- Adjournment
Plenary Lecture Session IV

SATURDAY, MAY 8, 2021  10:30 AM ET – 11:30 AM ET  THEATER

Presiders: Lisa Beck, MD and Nicole Ward, PhD

Poster #093
Dissecting intercellular communication in adult human skin with single-cell and spatial transcriptomics
A. Ji1, K. Thrane1, M. Guo1, A. Rubin1, D. Kim1, T. Hollmig1, S. Aasi1, J. Lundeberg1, P. Khavari1
1Dermatology, Stanford University School of Medicine, Stanford, California, United States, 2SciLifeLab, Stockholm, Sweden

Poster #532
Keratinocyte desmoglein 1 as a target and mediator of paracrine signaling in the melanoma niche
H. Burks1, C. Arnette1, J. Koetsier1, J. Broussard1, J. G. Roth-Carter1, P. Gerami1, J. L. Johnson1, K. Green1, 2, 3
1Pathology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 2Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 3Robert H Lurie Comprehensive Cancer Center, Chicago, Illinois, United States

Poster #184
Whole-transcriptome analysis by RNA-Seq for genetic diagnosis of Mendelian skin disorders in the context of consanguinity
L. Youssefian, A. Saeidian, P. Fortina, A. South, J. Uitto, H. Vahidnezhad
Thomas Jefferson University, Philadelphia, Pennsylvania, United States

Poster #499
Extracellular vesicles from UVB-irradiated keratinocytes contain cyclobutane pyrimidine dimers
M. A. Carpenter, M. Ginugu, M. G. Kemp
Pharmacology and Toxicology, Wright State University, Dayton, Ohio, United States
Naomi Kanof Lecture

The Use of Patient Reports to Improve Healthcare

SATURDAY, MAY 8, 2021 11:30 AM ET - 12:00 PM ET  THEATER

Introduction by:
Suephy Chen, MD

Mary Margaret “Meg” Chren, MD
Vanderbilt University Medical Center
Nashville, TN

Dr. Chren is Professor of Dermatology and department Chair at Vanderbilt University Medical Center in Nashville, Tennessee. She graduated from Smith College, received her MD from Yale, and trained in Internal Medicine at Stanford and in Dermatology and clinical epidemiology at University Hospitals of Cleveland. Her research focuses on understanding, measuring, and improving comprehensive health outcomes of patients with chronic diseases. She has previously developed and validated a skin-related quality-of-life tool, Skindex, which is widely used as a dermatologic outcomes measure. Dr. Chren’s current studies compare the effectiveness of different therapies for common skin conditions. She has trained and mentored over 20 junior researchers in patient-based research and is the author of over 100 peer-reviewed papers. Dr. Chren’s work has been funded by grants from the National Institute of Arthritis, Musculoskeletal, and Skin Diseases, the Department of Veterans Affairs, and the Dermatology Foundation.

https://medicine.vumc.org/person/mary-margaret-chren-md

LECTURESHP HISTORY
Established in 1988, this award was established to honor the memory of Naomi M. Kanof, MD. The Kanof Lectureship honors an individual making significant contributions to the improvement of health through clinical research. Clinical research is broadly defined as any scientific endeavor with a direct application to improving the prevention, diagnosis, or treatment of clinical disease. This investigative work can be based in the laboratory and should be implemented or just ready to be implemented in clinical practice.
State-of-the-Art Plenary Lecture VI

Digital Dermatology

SATURDAY, MAY 8, 2021  12:00 PM ET – 12:30 PM ET  THEATER

Introduction:
Kurt Lu, MD

Shuai “Steve” Xu, MD/MSc
Northwestern University
Chicago, IL

Steve Xu MD, MSc is a physician engineer with appointments as the Medical Director of the Querrey Simpson Institute for Bioelectronics at Northwestern University, Assistant Professor in the Department of Dermatology and Pediatrics (Dermatology) at Northwestern’s Feinberg School of Medicine, and Assistant Professor in the Department of Biomedical Engineering at Northwestern’s McCormick School of Engineering. He received his undergraduate degree in bioengineering from Rice University summa cum laude. He completed his medical training at Harvard Medical School with special honors as a Soros Fellow, and a Masters in Health Policy and Finance with Merit from The London School of Economics as a Marshall Scholar. Finally, he completed an NIH-funded T32 post-doctoral fellow in Northwestern’s Department of Materials Science and Engineering under Professor John Rogers. Dr. Xu has authored more than 100 peer-reviewed publications and listed as an inventor on 13 pending and granted patents in the fields of digital health, medical device development, and medical innovation. He is an NIH and DoD funded investigator with medical device innovations across multiple medical fields including dermatology, global health, orthopedics, cardiology, pediatrics and patient non-adherence. Several of his inventions have been licensed and commercialized by external companies with deployments in more than 20 countries worldwide touching thousands of patients. His publications have appeared in Nature, Science, and the New England Journal of Medicine garnering press attention from The New York Times, CNN, The Washington Post, and The Los Angeles Times.

https://www.feinberg.northwestern.edu/faculty-profiles/az/profile.html?id=39481
https://www.feinberg.northwestern.edu/sites/dermatology/research/t32/trainees/previous-trainees/xu-shuai.html
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STEPHENV ROTHMAN MEMORIAL AWARD RECIPIENTS
Presented for distinguished service to investigative cutaneous medicine.

1967 Marion Sulzberger
1968 Donald Pillsbury
1969 Harvey Blank
1970 Thomas Fitzpatrick
1971 Aaron Lerner
1972 William Montagna
1973 Rudolf Baer
1974 Hermann Pinkus
1975 Eugene Van Scott
1976 Albert Kligman
1977 Irvin Blank
1978 George Odland
1979 Clayton Wheeler, Jr.
1980 Clarence Livingood
1981 Isadore Bernstein
1982 J. Lamar Callaway
1983 Richard Stoughton
1984 A. Gedeon Matoltsy
1985 Herman Bereman
1986 Otto Braun-Falco
1987 Walter Shelley
1988 John Strauss
1989 Walter Lobitz, Jr.
1990 Walter Lever
1991 Robert Goltz
1992 Irwin Freedberg
1993 Arthur Eisen
1994 Ruth Freinkel
1995 Howard Baden
1996 Irma Gigli
1997 Stephen Katz
1998 Klaus Wolff
1999 Lowell Goldsmith
2000 Richard Dobson
2001 Robert Briggaman
2002 Eugene Bauer
2003 Georg Stingl
2004 Stuart Yusp
2005 John Voorhees
2006 Thomas Lawley
2007 Barbara Gilchrest
2009 Luis Diaz
2010 Dennis Roop
2011 John Stanley
2012 Paul Bergstresser
2014 Jouni Utto
2015 Ervin H. Epstein
2016 R. Rox Anderson
2017 Amy Paller
2019 Richard Edelson
2020 Alice Pentland

NAOMI M. KANOF CLINICAL INVESTIGATOR AWARD
This award is given to enlighten present and future workers about the importance of clinical investigation. It honors an individual who has made significant contributions to our understanding of clinical medicine.

1993 Alvan Feinstein
1994 R. Michael Blaese
1995 Judah Folkman
1996 Jean Wilson
1997 C. Garrison Fathman
1998 Jeffrey Bluestone
1999 Brian Strom
2000 William Kelley
2001 James Ostell
2002 Leena Peltonen
2003 Judith Campisi
2004 Brian Druker
2005 Joseph Nadeau
2006 John Schiller
2007 Thomas Pearson
2009 Mahlon DeLong
2010 Douglas Lowy
2011 David Lane
2012 Luis Parada
2014 Mark Chance
2015 Madeleine Duvic
2016 Roger Perlmutter
2017 James Bradner
2019 Suephy Chen
2020 Victoria Werth

JULIUS STONE LECTURESHIP
This lecture is intended to promote the advancement of knowledge in immunology as it relates to the skin and skin disease.

1999 Eli Gilboa
1999 Stephen Johnston
1999 Jeffrey Trent
2000 Nigel Bunnett
2000 Ronald Crystal
2000 Ralph Steinman
2001 Roland Martin
2002 Gerald Crabtree
2004 Adrian Hayday
2005 Polly Matzinger
2006 Alexander Rudensky
2007 Donald Y. M. Leung
2009 Jamey Marth
2010 Rafi Ahmed
2011 Casey Weaver
2012 Rebecca Buckley
2014 Alice P. Pentland
2015 Arlene H. Sharpe
2016 John O’Shea
2017 Bruce Beutler
2019 Yasmine Belkaid
2020 Gabriel Nunez, MD
WILLIAM MONTAGNA LECTURESHIP
This annual award is intended to honor and reward young active investigators. Primary emphasis is given to researchers in skin biology.

1975    Kenneth Halprin
1976    Frank Parker
1977    Arthur Eisen
1978    Irma Gigli
1979    Marvin Karasek
1980    Irwin Freedberg
1981    Stephen Katz
1982    John Parrish
1983    Douglas Lowy
1984    Gerald Lazarus
1985    Eugene Bauer
1986    Georg Stingl
1987    Jouni Utto
1988    Stuart Yuspa
1989    Tung-Tien Sun
1990    Karen Holbrook
1991    Luis Diaz
1992    Dennis Roop
1993    Ervin Epstein, Jr.
1994    John Stanley
1995    Elaine Fuchs
1996    Thomas Kupper
1997    Barbara Gilchrest
1998    Robert Modlin
1999    Fiona Watt
2000    Thomas Luger
2001    Peter Elias
2002    Kathleen Green
2003    Masayuki Amagai
2004    Akira Takashima
2005    Paul Khavari
2006    Richard Gallo
2007    George Cotsonis
2008    Pierre Coulombe
2009    Angela Christiano
2010    W. H. Irwin McLean
2011    John McGrath
2012    Howard Chang
2013    Andrzej Dlugosz
2014    Xiao-Jing Wang
2015    Hensin Tsao
2016    Anthony Oro
2017    Sarah Miller
2018    Valerie Horsley
2019    Michael Rosenblum
2020    Valentina Greco, PhD

EUGENE M. FARBER LECTURESHIP
This lecture is presented by an investigator whose work is relevant to expanding our insights into the pathophysiology and treatment of psoriasis.

2007    Brian Nickoloff
2008    Enno Christophers
2009    James T. Elder
2010    James Krueger
2011    Kevin Cooper
2012    Frank Nestle
2014    Joel Gelfand
2015    Christopher E.M. Griffiths
2016    Nicole Ward
2017    Jonathan Barker
2019    Nick Reynolds
2020    Wilson Liao, MD
SAVE THE DATE: Hybrid Meeting

Virtual option
Face-to-face option: Skin Health Institute, Melbourne

Thursday 29th July afternoon
Friday 30th July afternoon
Saturday 31st July morning

asdr.org.au
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VIRTUAL
22-25 September 2021
www.esdrmeeting.org
16th Annual Meeting of the
Taiwanese Society for Investigative Dermatology (TSID)
Nov 20-21, 2021
Nangang International Exhibition Center, Taipei, TAIWAN
The 46th Annual Meeting of the Japanese Society for Investigative Dermatology

46th JSID

**Dates**
December 3 (Fri.) - 5 (Sun.) 2021

**Venue**
Kyoto International Conference Center
Takaragaike, Sakyo-ku, Kyoto 606-0001, Japan

**President**
Masayuki Amagai, M.D., Ph.D.
Department of Dermatology, Keio University School of Medicine

**E-mail**:
jsid46@dermatol.or.jp

**URL**:
https://jsid46.jp/
About KSID

KSID was founded in 1991, with the purpose of achieving scientific excellence in dermatological research, science communication and supporting career development of cutaneous biologists from academia and industry, both domestic and overseas. KSID’s activities include annual scientific meeting in the spring, annual research camp in the fall, and publishing its official journal, Annals of Dermatology.

Our annual scientific meeting is held in late March or early April of every year. Its official language is English since 2009. The scientific program includes invited lectures and research presentations either in oral or poster forms. Since 1999, KSID awards the prestigious Uam Academic Award to one established researcher every year, selected by the scientific committee. This award was started by the generous endowment by late Professor Young Pio Kim who passed away in 2013.

KSID also holds an annual research camp in the fall since 2009. It’s deliberately held in a remote, rural location. The dress code is casual, and beer and barbeque is always included. The purpose of the camp is to foster exchange of ideas, encourage collaboration and friendship/mentorship among researchers, young and old, who are passionate about investigative dermatology and cutaneous biology. As such, active lively discussion is an integral part of the camp.

Since 2010, the official journal of KSID has been Annals of Dermatology, published jointly with Korean Dermatological Association. The Journal is issued bimonthly (6 times a year). It’s indexed in science citation index expanded.

KSID’s membership is open to Korean or overseas dermatologists in academia and clinical practice, researchers in the field of dermatology or cutaneous biology, either in academia or industry, and dermatology residents and students. Membership categories consist of regular members who paid annual membership fee, lifetime members who paid a one-time lifetime membership fee, overseas members, honorary members and group members.

Since 2016, KSID officially became a regular ISID (International Society for Investigative Dermatology) member, which was founded in 2013 by SID, ESDR and JSID, and share the goals and values of ISID.
ISID 2023
1st International Societies for Investigative Dermatology Meeting

Meeting Dates: May 10 (Wed.) - 13 (Sat.) 2023
Venue: Keio Plaza Hotel Tokyo 2-2-1 Nishi-Shinjuku, Shinjuku-Ku, Tokyo, 160-8330 Japan
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SID Members by Affiliation
The SID has members from several affiliations including academia, government, industry and private practice. Approximately two-thirds of our Members work within academia.

International Membership
Although the SID is headquartered in the United States, our membership is worldwide. Currently, our international membership component consists of over 400 members representing 32 countries. The top five non-U.S. countries of membership origin are Japan, Germany, Korea, United Kingdom, and Canada. Our international members continue to increase each year.

Qualifications
Active Membership is open to any scientist whose work has relation to investigative dermatology or cutaneous biology and any physician with an interest in skin diseases or allied subjects. In addition, any individual or group evidencing an interest in investigative dermatology and who does not meet the general requirements may become a Sustaining Member. Any individual engaged full-time in a training program in dermatology or a basic science related to medicine shall be eligible for Resident/Post-Doctoral membership for the period during which he/she remains in that status providing this period does not exceed five years. All Active and individual Sustaining Members may be designated a Patron Member of the Society upon payment of dues as established by the Board of Directors. A list of the Patron Members is published annually in The Journal of Investigative Dermatology.

https://www.sidnet.org/membership/
The *Journal of Investigative Dermatology* (JID) publishes high impact reports describing original research related to all aspects of cutaneous biology and skin disease, including important findings that result from basic, translational or clinical research. Clinical research can include, but is not limited to, interventional trials, genetics studies, epidemiology, and health services research.

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JID Innovations is a new, online-only Open Access journal that provides an international forum for the rapid publication of high-quality, peer reviewed research in the field of skin biology and disease. JID Innovations publishes original scientific articles, clinical trial reports, letters to the Editor, descriptions of methods and new technologies, case reports and case series, and reviews. Topics address all aspects of skin science from molecular studies to population health, including studies addressing the pathogenesis and treatment of skin diseases. Submissions may confirm or challenge current knowledge, inform the community of a new technology or resource, advance a new hypothesis, or challenge existing paradigms (for more detail see the introductory editorial).

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