

May 16-19, 2018

MEETING
PROGRAM

IID 2018

International Investigative Dermatology

Rosen Shingle Creek Resort
Orlando, Florida



www.IID2018.org

IID 2018 Program Chairs and Final Reviewers

ESDR - Program Chairs

Michel Gilliet, MD
Matthias Schmuth, MD

ESDR - Final Reviewers

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Menno de Rie, MD/PhD
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Manabu Ohyama, MD/PhD
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ACKNOWLEDGEMENTS

The organizers of IID 2018 gratefully acknowledge the many exhibitors and sponsors whose attendance has helped make this meeting possible.

WELCOME



Michel Gilliet, MD
ESDR President

As President of the ESDR, I would like to cordially welcome you to Orlando for IID 2018. The three (3) sister societies SID, JSID and ESDR have organized a terrific program full of excellent skin science from throughout the world. We have selected the top ranked abstracts for oral presentation from over 1500 submissions and invited exceptional international scientists as guest lecturers. Besides great science, the meeting will also provide a unique setting for social interactions with international friends and colleagues during our Welcome Reception or social gathering. I look forward to seeing you at the Rosen Shingle Creek Resort, in what promises to be an unforgettable event!



Akimichi Morita, MD/PhD
JSID President

Every five (5) years, members of all the investigative dermatology and cutaneous biology societies throughout the world gather together to exchange information and facilitate collaboration. The combination of high-quality science, outstanding interactions with international colleagues, and the enjoyable city of Orlando will make this a valuable and unforgettable experience. As neither of the three (3) sister societies, the European Society for Dermatological Research (ESDR), the Society for Investigative Dermatology (SID), and the Japanese Society for Investigative Dermatology (JSID), will have a meeting of their own in 2018, the International Investigative Dermatology (IID) Meeting will definitely be the hot-spot of dermatologic and cutaneous science in 2018! This will be the final IID Meeting with the current format. On May 9, 2013 during IID 2013, representatives of the SID, ESDR, and JSID signed a memorandum of understanding to form a new organization, International Societies for Investigative Dermatology (ISID) in Edinburgh, Scotland. The mission of the ISID is to unite all international organizations of scientists dedicated to investigative dermatology and cutaneous biology with the purpose of encouraging and facilitating international collaborations. The first ISID International Meeting will be held in "Asia/Oceania" in 2023. Therefore, the success of IID 2018 is important and definitely leads to ISID transition and future breakthroughs in investigative dermatology and cutaneous biology. I hope to see many of you at this special event this week in Orlando!



Russell P. Hall, MD
SID President

On behalf of the Society for Investigative Dermatology (SID), our colleagues at the European Society for Dermatological Research (ESDR) and the Japanese Society for Investigative Dermatology (JSID), we are pleased that you're able to attend the 7th and final International Investigative Dermatology (IID) Meeting in Orlando. The IID Meeting is a unique opportunity, occurring only once every five (5) years bringing together basic, translational and clinical scientists... all focused on advancing our understanding of skin biology and disease. Scientists from across the globe will gather to discuss the latest in cutting edge science. Our venue here at Rosen Shingle Creek will bring us all together at one beautiful site; facilitating scientific interactions and collaboration. As always, highlights of the meeting include the numerous opportunities for international camaraderie; from the Welcome Reception to the MUCH anticipated Social Event at Harry Potter™, to the Young Investigator Pool Party, to the Closing Ceremonies (where the city and venue for the new International Society for Investigative Dermatology (ISID) 2023 Meeting will be announced). I welcome you to IID 2018 and hope that you enjoy the excellent science, reconnecting with long time colleagues and meeting many new friends from all over the world.

Meeting-At-A-Glance

Wednesday, May 16, 2018

International Trainee Retreat Program By Invitation Only	7:00 am - 2:00 pm Conway
Registration	8:00 am - 7:00 pm Gatlin Foyer Registration Counter
Academic Industry Partnership Project (AIPP)	12:00 pm - 4:00 pm Panzacola G-1
Future Leaders Symposium	2:00 pm - 4:00 pm Gatlin D-E
LEO Foundation Awards	4:00 pm - 5:00 pm Gatlin D-E
Opening Ceremonies	5:00 pm - 5:30 pm Gatlin D-E
SID Rising Star Lecture <i>Sexual Dimorphism in Autoimmunity</i> Johann Gudjonsson, MD/PhD	5:30 pm - 5:50 pm Gatlin D-E
JSID Rising Star Lecture <i>Skin Research Provides a Window into New Aspects of Systemic Disease Pathogenesis</i> Yoshihide Asano, MD/PhD	5:50 pm - 6:10 pm Gatlin D-E
ESDR Rising Star Lecture <i>The Aged Skin Microenvironment</i> Amaya Viros, MD/PhD	6:10 pm - 6:30 pm Gatlin D-E
Welcome Reception	6:30 pm - 9:30 pm Terrace

Thursday, May 17, 2018

Lilly Symposium <i>Taltz: Perspectives from Dual Specialties</i> Alice Bendix Gottlieb, MD/PhD	7:00 am - 8:30 am Gatlin D-E
Promoting Diversity & Inclusion: A Conversation for Trainees and Leadership	7:00 am - 8:30 am Panzacola G-1
Registration	8:00 am - 4:30 pm Gatlin Foyer Registration Counter
Plenary Session I	8:45 am - 9:45 am Gatlin D-E
SID Herman Beerman Lecture <i>The Skin Microbiome: At the Interface between Human and Environmental Microbiomes</i> Rob Knight, PhD	9:45 am - 10:15 am Gatlin D-E
Plenary Session II	10:15 am - 11:15 am Gatlin D-E
Come See My Poster Session I Poster #'s 179, 161, 292, 301, 931, 972, 1271, 1287, 1407, 1422, 655, 798	11:15 am - 11:30 am Gatlin D-E
Poster Session I/Coffee Break • Odd Poster #'s 001-491 • Even Poster #'s 494-982 • Odd Late-Breaking Poster #'s LB1475-LB1615 Coffee Break Sponsored by Syntimmune	11:45 am - 1:45 pm Gatlin A-C

Aclaris Therapeutics Symposium <i>JAK 'Be Nimble': New Applications of JAK Inhibitors in Dermatology</i>	12:00 pm - 1:30 pm Gatlin D-E
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Selected ePoster Discussions I	12:15 pm - 1:15 pm Gatlin Foyer Kiosk #1
• Carcinogenesis and Cancer Genetics	
• Clinical Research: Epidemiology of Skin Diseases	Gatlin Foyer Kiosk #2
• Epithelial Biology	Gatlin Foyer Kiosk #3
• Innate Immunity, Microbiology, Inflammation	Gatlin Foyer Kiosk #4
• Skin of Color	Gatlin Foyer Kiosk #5
• Tissue Regeneration and Wound Healing	Gatlin Foyer Kiosk #6

Sponsored by: Rodan & Fields

ESDR Rudi Corman Lecture <i>Above and Beyond: New Frontiers in Cutaneous Immunology</i> Tilo Biedermann, MD	2:00 pm - 2:30 pm Gatlin D-E
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JSID Tanioku Kihei Memorial Lecture <i>Environment and Skin</i> Jean Krutmann, MD	2:30 pm - 3:00 pm Gatlin D-E
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Concurrent Mini-Symposia	3:15 pm - 5:45 pm
1. Carcinogenesis and Cancer Genetics	Panzacola F-3/4
2. Clinical Research: Epidemiology of Skin Diseases	Panzacola F-1/2
3. Innate Immunity, Microbiology, Inflammation	Gatlin D-E
4. Skin of Color	Conway
5. Tissue Regeneration and Wound Healing	Panzacola G-1
6. Interdisciplinary Spotlight: Autophagy/Aging	Panzacola G-2

Imaging in Cutaneous Biology Workshop	6:00 pm - 7:30 pm Panzacola G-2
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Sanofi Genzyme and Regeneron Pharmaceuticals Symposium <i>New Frontiers and Pivotal Investigation-Based Advances in the Pathoimmunobiology and Management of Atopic Dermatitis</i>	6:00 pm - 7:30 pm Panzacola F-3/4
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Social Event The Wizarding World of Harry Potter™ at Universal Orlando Resort™	8:30 pm - 11:30 pm
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Ticketed Event:

Pre-Registration Required

All attendees are to pick up their admission bracelets at the Social Event Registration Desk in the Panzacola Foyer, Thursday, May 17, 2018, starting at 3:30 pm. Buses will depart beginning at approximately 8:00 pm.

Friday, May 18, 2018

Neuroimmunology of the Skin: Regulation of Cutaneous Immunity by the Nervous System	7:00 am - 8:30 am Gatlin D-E
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Registration	8:00 am - 4:30 pm Gatlin Foyer Registration Counter
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ESDR Guest Lecture <i>Fluorescence Microscopy: The Resolution Revolution</i> Nobel Laureate Stefan W. Hell, PhD	8:45 am - 9:15 am Gatlin D-E
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Meeting-At-A-Glance

The American Skin Association (ASA) Awards	9:30 am – 9:40 am Panzacola F-1/2
ESDR General Assembly	9:30 am – 10:15 am Panzacola G-1
JSID General Assembly	9:30 am – 10:15 am Panzacola F-3/4
SID Business Meeting	9:40 am – 10:15 am Panzacola F-1/2
Plenary Session III	10:30 am – 11:30 am Gatlin D-E
Come See My Poster Session II Poster #'s 1278, 055, 489, 392, 876, 879, 1182, 1199, 1357, 1299, 412, 444	11:30 am – 11:45 am Gatlin D-E
Mary Kay Symposium <i>Pollution and Skin Health: New Perspectives and Intervention Strategies</i>	12:00 pm – 1:30 pm Gatlin D-E
Poster Session II/Coffee Break • Odd Poster #'s 983-1473 • Even Poster #'s 002-492 • Even Late-Breaking Poster #'s LB1476-LB1616 Coffee Break Sponsored by: Regeneron/Sanofi Genzyme	12:00 pm – 2:00 pm Gatlin A-C
Selected ePoster Discussions II • Adaptive and Autoimmunity • Clinical Research: Pathophysiology and Therapeutics • Clinical Research 2 • Growth Factors, Cell Adhesion and Matrix Biology • Pigmentation and Melanoma • Skin, Appendages and Stem Cell Biology	12:30 pm – 1:30 pm Gatlin Foyer Kiosk #1 Gatlin Foyer Kiosk #2 Gatlin Foyer Kiosk #3 Gatlin Foyer Kiosk #4 Gatlin Foyer Kiosk #5 Gatlin Foyer Kiosk #6
Sponsored by: Rodan & Fields	
SID William Montagna Lecture <i>Digging Deep: Secrets of the Dermis</i> Valerie Horsley, PhD	2:15 pm – 2:45 pm Gatlin D-E
JSID Guest Lecture <i>Control of Immune Responses by Regulatory T cells</i> Shimon Sakaguchi, MD/PhD	2:45 pm – 3:15 pm Gatlin D-E
Concurrent Mini-Symposia 7. Adaptive and Autoimmunity 8. Clinical Research: Pathophysiology and Therapeutics 9. Growth Factors, Cell Adhesion and Matrix Biology 10. Pigmentation and Melanoma 11. Skin, Appendages and Stem Cell Biology 12. Interdisciplinary Spotlight: Oncology	3:30 pm – 6:00 pm Gatlin D-E Panzacola F-1/2 Conway Panzacola G-1 Panzacola F-3/4 Panzacola G-2
Young Investigator Collegiality Pool Party <i>Ticketed Event: Pre-Registration Required</i>	6:30 pm – 9:30 pm Rosen Shingle Creek Family Pool

Saturday, May 19, 2018

Neuroimmunology of the Skin: Regulation of the Nervous System by the Immune System	7:00 am – 8:30 am Gatlin D-E
Registration	8:00 am – 12:00 pm Gatlin Foyer Registration Counter
Plenary Session IV	8:45 am – 9:45 am Gatlin D-E
JSID Awardee Lecture <i>Decrypting the Complex Barrier System of Mammalian Skin</i> Akiharu Kubo, MD/PhD	9:45 am – 10:15 am Gatlin D-E
Plenary Session V	10:15 am – 11:15 am Gatlin D-E
Come See My Poster Session III Poster #'s 559, 515, 618, 671, 819, 775, 1056, 1060, 1125, 1130, 923, 935	11:15 am – 11:30 am Gatlin D-E
Poster Session III/Coffee Break • Odd Poster #'s 493-981 • Even Poster #'s 984-1474	11:45 am – 1:45 pm Gatlin A-C
Oculus Virtual Reality Symposium <i>New and Emerging Agents for the Management of Moderate-to-Severe Atopic Dermatitis in Adults: A Virtual Reality View</i> Sponsored Symposium by an educational grant from Lilly	12:00 pm – 1:30 pm Gatlin D-E
Selected ePoster Discussions III • Clinical Research: Patient Outcomes Research • Epidermal Structure and Barrier Function • Genetic Disease, Gene Regulation and Gene Therapy • Immunology II • Pharmacology and Drug Development • Photobiology	12:15 pm – 1:15 pm Gatlin Foyer Kiosk #1 Gatlin Foyer Kiosk #2 Gatlin Foyer Kiosk #3 Gatlin Foyer Kiosk #4 Gatlin Foyer Kiosk #5 Gatlin Foyer Kiosk #6
Sponsored by: Rodan & Fields	
ESDR Celgene Lecture <i>Molecules and Mechanisms of Body-Surface Surveillance by Local T cells</i> Adrian Hayday, PhD	2:00 pm – 2:30 pm Gatlin D-E
SID Kligman/Frost Leadership Lecture <i>Decoding The Regulatory Genome</i> Paul A. Khavari, MD/PhD	2:30 pm – 3:00 pm Gatlin D-E
Concurrent Mini-Symposia 13. Clinical Research: Patient Outcomes Research 14. Epidermal Structure and Barrier Function 15. Genetic Disease, Gene Regulation and Gene Therapy 16. Pharmacology and Drug Development 17. Photobiology 18. Interdisciplinary Spotlight: Atopic Dermatitis	3:15 pm – 5:45 pm Panzacola F-3/4 Gatlin D-E Panzacola F-1/2 Conway Panzacola G-1 Panzacola G-2
Closing Ceremonies	6:00 pm – 6:30 pm Gatlin D-E

Associate Groups: Meeting-At-A-Glance

Wednesday, May 16, 2018

PC Project Board Meeting 7:00 am – 11:00 am
Board Members Only St. John's 28-29

The International Pemphigus and Pemphigoid Foundation (IPFF) 8:00 am – 3:00 pm
St. John's 32-34
Pemphigus and Pemphigoid: A New Era of Translational and Clinical Science

International Eczema Council (IEC) 12:00 pm – 3:00 pm
Butler
Phenotype-Genotype Correlations and Personalized Medicine in Atopic Dermatitis

Research in Cutaneous Surgery (RCS) 12:00 pm – 1:00 pm
St. John's 24

International Psoriasis Council (IPC) 1:00 pm – 4:30 pm
St. John's 28-29
The Psoriatic Disease Mechanistic Scenarios

American Acne & Rosacea Society (AARS) 1:00 pm – 4:00 pm
St. John's 22-23

International Society for Cutaneous Lymphomas (ISCL) 1:30 pm – 4:30 pm
Panzacola F-3/4

Thursday, May 17, 2018

Medical Dermatology Society (MDS) 7:00 am – 8:30 am
Conway

2018 International DermatoEpidemiology Association Meeting (IDEA) 6:00 pm – 7:30 pm
St. John's 24-25

International Transplant Skin Cancer Collaborative (ITSCC) 6:00 pm – 7:30 pm
Panzacola G-1

Friday, May 18, 2018

CIRM Consortium Meeting 7:00 am – 8:00 am
By Invitation Only Boardroom

The Pediatric Dermatology Research Alliance (PeDRA) / Society for Pediatric Dermatology (SPD) 7:00 am – 8:30 am
Conway

Women's Dermatologic Society (WDS) 7:00 am – 8:30 am
Networking Breakfast & Panel Discussion St. John's 32-34

National Psoriasis Foundation (NPF) 6:30 pm – 8:00 pm
Reception Sandlake

SATO Scientific Forum at IID 2018 6:30 pm – 9:30 pm
Conway



Notable Meeting Programming

OPENING/CLOSING CEREMONIES

Wednesday, May 16, 2018 5:00 pm - 5:30 pm
 Saturday, May 19, 2018 6:00 pm - 6:30 pm
 Gatlin D-E

Join the leaders of the ESDR, JSID, and SID as the last IID Meeting takes place in Orlando. Celebrate the past IID Meetings with the various groups as they look back at 29 years of IID history...

...and then get ready for the excitement and celebration of a new kind of meeting for the future...ISID 2023! Join the leaders of the ESDR, JSID, KSID, and SID as they announce the site and date of the ISID 2023 Meeting.

FUTURE LEADERS SYMPOSIUM

Wednesday, May 16, 2018 2:00 pm - 4:00 pm
 Gatlin D-E

This session aims to facilitate interaction and collaboration between young ambitious researchers and current leaders in the field of investigative dermatology around the world. The Future Leaders Symposium is open to all IID attendees.

RISING STARS LECTURE

Wednesday, May 16, 2018 5:30 pm - 6:30 pm
 Gatlin D-E

The leaderships of the ESDR, JSID, and SID are proud to recognize lecturers from each society who are poised to emerge as leaders in their field.

SELECTED ePOSTER DISCUSSIONS

In an effort to further increase participation and visibility of abstracts submitted to IID 2018, selected ePoster Discussions will take place during Poster Sessions at iPad Kiosks located outside of the Poster/Exhibit Hall. The discussions will be thematic tours of selected electronic posters accompanied by a presenting author. Each poster presenter will be asked to briefly describe their work (3 min), followed by a short group discussion (3 min), that will be held with the help of a moderator. If your poster has been selected for ePoster Discussions, please join the appropriate group at the relevant ePoster kiosk. Reference daily schedule for dates, times, locations, categories, featured posters and moderators.

Sponsored by: Rodan & Fields



COME SEE MY POSTER

These sessions will give opportunities to select presenting authors of highly scored abstracts to give a brief one-minute/ one slide introduction to their submitted abstract. This rapid paced session is in advance of one of the IID's Poster Sessions, providing both an excellent starting point into the Poster Hall and the generation of excitement for all attendees. See pages 46, 76 and 102 for times and presenters.

YOUNG INVESTIGATOR COLLEGIABILITY POOL PARTY

Friday, May 18, 2018 6:30 pm - 9:30 pm

The IID organizers have arranged for a private pool party at Rosen Shingle Creek Family Pool for those registered as Resident's, Post-Docs, and Students. The evening will feature games, food and drinks and an opportunity to informally network with your peers.

Ticketed Event: Pre-registration required and space is limited. Please visit the IID Meeting Registration Counter in the Gatlin Foyer for availability. Admission bracelets will be distributed upon entry to this event.



Going Mobile

Navigate the IID 2018 Meeting from your mobile device! In partnership with Cadmus CD, the organizers of IID 2018 are proud to present the IID 2018 Mobile App. This year's app will make it easy for attendees, exhibitors, and speakers to connect. Attendees can access their personal schedules right from the palm of their hand. They can track the exhibitors they've visited,

see all the full text abstracts, have access to the meeting schedule and floor plans, apply for CME credit, take notes, call for an Uber ride, check the weather, check-in with their airline, access social media sites, and interact with fellow attendees to name just a few of the features. Download the IID 2018 Mobile App from the Apple iTunes and the Google Play Stores.



Get the app!



Download the "eventScribe" app from the Apple App Store or Google Play Store.

Find your event app by searching for "IID 2018" in the "Search for an Event" field.



As long as you have an internet connection, you can access the app through your laptop via this link:

<https://tinyurl.com/2018-IIDmeeting>



*Download before you get On-Site WiFi service can affect the functionality of the app.



CME Statement and Objectives

The University of Rochester School of Medicine and Dentistry presents:

COMMERCIAL SUPPORT STATEMENT

Commercial Support Acknowledgment: This CME activity is supported by educational grants. A complete list of supporters will be published in the course syllabus.

STATEMENT OF NEED

The educational programming of IID 2018 is designed to develop, maintain, and/or increase the abilities, skills, and professional performance of its target audiences. IID 2018 CME activities will:

- 1) 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.

- 2) Provide target audiences with a relevant forum for the exchange of cutting-edge scientific ideas, information, and methodology.

- 3) Advance the science involved in basic skin biology and clinical care of patients with skin disease.

- 4) 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 IID 2018 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:

Alice P. Pentland, MD

Chair, Department of Dermatology

University of Rochester

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 of Commercial Support of CME, the University of Rochester School of Medicine and Dentistry 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 University of Rochester 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 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 www.cme.urmc.edu and select "My Certificate." From the course listing, please find the course you attended.

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 University of Rochester School of Medicine and Dentistry and the Society for Investigative Dermatology. The University of Rochester School of Medicine and Dentistry is accredited by the ACCME to provide continuing medical education for physicians.

AMA CREDIT STATEMENT

The University of Rochester School of Medicine and Dentistry designates this live activity for a maximum of 20.0 AMA PRA Category 1 Credit(s)[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Planning Committee/Speaker Declarations

All of the planning committee members* and speakers listed below have disclosed that they have no relevant financial interests/arrangements or affiliations with organization(s) that could be perceived as a real or apparent conflict of interest in the context of the subject of their presentation(s).

Hasan Abaci, PhD
Crystal Aguh, MD
Maggi Ahmed Refat, MD/MSc
Feras Al Ghazawi, MD/PhD
Yasmeen Ali, MD
Amir Ameri, BS
Niroshana Anandasabapathy, MD/PhD
Velina Atanasova, BSc
Scott Atwood, PhD
Emily Avitan-Hersh, MD
Kwabena Badu-Nkansah
Erika Baird, MD Candidate
Sophie Bellanger, PhD
Elizabeth Berry, MD
Leah Biggs, PhD
Katia Boniface, PhD
Marie-Charlotte BrÄggen, MD/PhD
Donna Brennan-Crispi, PhD
Erin Brettmann, PhD
Brian Capell, MD/PhD
Irene Castellano, PhD
Anna Celli, PhD
Yu Ling Chang, BA
James Chen, PhD
Anissa Chikh, PhD
David Chiliza
Elena Chiticariu
Rachael Clark, MD/PhD
Ruzica Conic, MD
Tingting Cui, PhD
Oliver Culley, BSc
Wei Dai, MD/Candidate for PhD
Lopa Das, PhD
Ishani Das, MTech
Cristina de Guzman Strong, PhD
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Jeremy Di Domizio, PhD
Anushka Dikshit
Tatsuya Dokoshi, PhD
Yanne Doucet, PhD
Ryan Driskell, PhD
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Beatrice Dyring-Andersen, MD/PhD
Leopold Eckhart, PhD
Sarah El-Heis, DM
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Stephanie Erjavec, PhD
Gary Fisher, PhD
Gillian Fitz, BA
Itay Fogel, MD
Harumi Fujita, PhD
Yasuyuki Fujita, MD/PhD
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Valerie Horsley, PhD
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Kindra Kelly-Scumpia, PhD
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Arianna Kim, PhD
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Tadahiro Kobayashi, MD/PhD
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Nikhil Kulkarni, PhD
Satendra Kumar
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Abigail Langton, PhD
Lu Le, MD/PhD
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Chunying Li, MD
Luowei Li, PhD
Xi Li, MD
Yun Liang, PhD
Chung-Ping Liao, PhD
Marc Liggins, PhD
Loukia Lili, PhD
Young Lim, BS
Lise M Lindahl, MD/PhD
Langni Liu, PhD Candidate
Vanessa Lopez-Pajares, PhD
Hiroshi Maeno, PhD
Marc Majora, PhD
Mary Elizabeth Mathyer, BA
Tiago Matos, MD/MSc
Costner McKenzie, BA
Sarah Meidinger
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Ka Wai Mok, PhD
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Nabanita Mukherjee, PhD
Alessio Mylonas, PhD
Peggy Myung, MD/PhD
Chisa Nakashima, MD/PhD
Teruaki Nakatsuji, PhD
Shinsuke Nakazawa, MD

Hanna Niehues, PhD
Wenxiu Ning, PhD
Hisashi Nomura, MD
Dennis Oh, MD/PhD
Yuji Ota
Atsushi Otsuka, MD/PhD
Andrew Overmiller, PhD
Youdong Pan, PhD
Sangbum Park, PhD
Jatin Patel, PhD
Jillian Pattison, PhD
Ana Brandusa Pavel, PhD
Maryna Pavlova, PhD
Alon Peled
Sirrku Peltonen, MD/PhD
*Alice Pentland, MD
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Markus Plomann, PhD
Satyamaanasa Polubothu, MD
Lisa Prussick, BSc
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Watcharee Rungapiromnan, MSc
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Jutamas Uttagomol, PhD Candidate
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Huy Luong Vu, MD/PhD
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Katherine Whang, BS
Ramon Whitson, PhD
Michael Williams, PhD Candidate
Thet Su Win, MD/PhD
Xuesong Wu, MD/PhD

Planning Committee/Speaker Declarations

Tianchi Xin, PhD
Hui Xu, PhD
Sayuri Yamazaki, MD/PhD
Luting Yang, Doctoral Candidate
Seungwon Yang, PhD
Chao Yang, MD
Catherine Yao, BS
Yi Yao, PhD
Morgan Ye, MPH
Zenas Yiu, MBChB/BSc
Zili Zhai, PhD
Lingjuan Zhang, PhD
Lisa Zhou, BA

*Planning Committee Members

The following planning committee members* and speakers have disclosed financial interests/arrangements or affiliations with organization(s) that could be perceived as a real or apparent conflict of interest in the context of the subject of their presentation(s). Only current arrangements/interests are included:

Trine Bertelsen, MD, Grant/Research Support: Novartis. Speakers' Bureau: Eli Lilly.

Angela Christiano, PhD, Grant/Research Support: Pfizer. Consultant: Aclaris Therapeutics Dermira. Shareholder: Aclaris Therapeutics. Other: Aclaris Therapeutics has licensed patents from Columbia University.

Oliver Culley, BSc (Hons), Grant/Research Support: BBSRC-Unilever CASE studentship.

Donna Culton, MD/PhD, Consultant: Genentech. Other Financial or Material Support: Syntimmune (Principal investigator, clinical trial).

*Manabu Fujimoto, MD, Other: My spouse is an employee of Pfizer, Inc.

Harumi Fujita, PhD, Grant/Research Support: KOSE Corporation, Maruho Co., Ltd.

Mayumi Fujita, Consultant: Maruho Co., Ltd, Olatec Industries LLC.

Toshiharu Fujiyama, MD, Grant/Research Support: Novartis.

Joel Gelfand, MD MSCE, Grant/Research Support: Abbvie, Janssen, Novartis Corp, Sanofi, Celgene, Ortho Dermatologics, and Pfizer Inc. Consultant: BMS, Boehringer Ingelheim, GSK, Janssen Biologics, Menlo Therapeutics, Novartis Corp, Regeneron, Dr. Reddy's labs, UCB (DSMB), Sanofi and Pfizer Inc.

*Michel Gilliet, MD, Grant/Research Support: Roche Pharma, Amgen, Lilly, Janssen, Novartis, Leo Pharma, Galderma, AbbVie, Almirall, La Roche-Posay, Pierre Fabre, Avene, Galderma, Meda, GSK, Pfizer, Louis Widmer, Dermapharm AG, Boehringer, Chanel. Consultant: Debiopharm Inc., Medimmune Inc, Galderma, Nestle Skin Health, Sienna Therapeutics. Speakers' Bureau: Boehringer, AbbVie, Novartis, Amgen, Nestle.

Melinda Gooderham, MSc/MD/FRCPC, Grant/Research Support: AbbVie, Amgen, Akros, Arcutis, Boehringer Ingelheim, Celgene, Dermira, Eli Lilly, Galderma, GSK, Janssen, Kyowa Kirin, Medimmune, Merck, Novartis, Pfizer, Roche, Regeneron, Sanofi Genzyme, UCB, Valeant. Consultant: AbbVie, Amgen, Boehringer Ingelheim, Celgene, Eli Lilly, Galderma, Janssen, Novartis, Pfizer, Sanofi Genzyme, Sun Pharma, Valeant. Speakers' Bureau: AbbVie, Amgen, Boehringer Ingelheim, Celgene, Eli Lilly, Galderma, Janssen, Novartis, Pfizer, Sanofi Genzyme, Valeant.

Kristie Grebe, PhD, Grant/Research Support: Boehringer Ingelheim funded the study (NCT02054481), contributed to its design and participated in data collection. AbbVie participated in data analysis and interpretation of the data, and in writing, review, and approval of the publication. Other (please identify): Pakozdi T, Georgantas RW, Grebe KM, Davis J Wade: salaried employees of AbbVie, and may have also received stocks and/or stock options.

Emma Guttman, MD/PhD, Grant/Research Support: Glenmark, ASANA, Regeneron, Pfizer, Abbvie, Eli Lilly, Novan, Dermavant, Ralexar, DBV, Innovaderm, UCB, Novartis, Galderma, Leo, Janssen, Vitae/Allergan, Sienna. Consultant: Glenmark, ASANA, Regeneron, Pfizer, Abbvie, Eli Lilly, Novan, Dermavant, Ralexar, DBV, Innovaderm, UCB, Novartis, Galderma, Leo, Janssen, Kyowa-Kirin, Kiniksa, Dermavant, Kymab, Escalier, Allergan, Sienna.

Nikolas Haass, MD/PhD, Grant/Research Support: This work was supported by project grants to K.A.B. (1051996, Priority-driven collaborative cancer research scheme/Cancer Australia/Cure Cancer Australia Foundation) and to N.K.H. (RG 13-06, Cancer Council New South Wales; APPI003637 and APPI084893, National Health and Medical Research Council).

Jennifer Hamilton, PhD, Other Financial or Material Support: Employee and Shareholder of Regeneron Pharmaceuticals, Inc.

Sari Ipponjima, PhD, Grant/Research Support: JST CREST (Grant Number JPMJCR15D2). Speakers' Bureau: Shiseido Co., Ltd. Other Financial or Material Support: Shiseido Co., Ltd.

Mayumi Ito, PhD, Major Stock Shareholder: Follica.

Youn Kim, MD, Grant/Research Support: Eisai, Kyowa Hakkō Kirin, Merck, Millennium/Takeda, Seattle Genetics, Soligenix, mirage, Forty Seven Inc., Neumedicine, Innate, Portola Pharma, Horizon, Merck. Consultant: Actelion. Other Financial or Material Support: Medivir.

Akihiko Kitoh, MD/PhD, Grant/Research Support: LEO Pharma Lapan Blood Products Organization.

Shawn Kwatra, MD, Other: Advisory Board (Menlo Therapeutics and Trevi Therapeutics).

Felix Lauffer, MD, Grant/Research Support: Galapagos NV, Mechelen, Belgium MorphoSys AG, Planegg, Germany Novartis AG, Basel, Switzerland Celgene, Summit, USA.

Caroline Le Poole, PhD, Grant/Research Support: recipient of a subcontract to an (NIH supported) SBIR grant awarded to Radikal Therapeutics.

Haoming Liu, PhD, Grant/Research Support: Exicure, Inc.

Minglin Liu, MD/PhD, Grant/Research Support: Lupus Research Alliance.

M. Peter Marinkovich, MD, Grant/Research Support: Fibrocell. Consultant: Fibrocell.

Kayleigh Mason, PhD, Other: Honoraria from Janssen (2015; 2016) and Eli Lilly (2016) for delivering presentations.

*Manabu Ohshima, MD/PhD, Grant/Research Support: Maruho Co. Ltd. (Osaka, Japan), Shiseido Co. Ltd. (Tokyo, Japan). Consultant: Scientific advisor for LION Co. Ltd. (Tokyo, Japan), Glaxosmithkline Co. Ltd. (Japan Branch, Tokyo, Japan).

Todd Ridky, MD/PhD, Major Stock Shareholder: Linnaeus Therapeutics, Inc.

*Matthias Schmutz, MD, Grant/Research Support: ExpanScience.

Kathleen Smith, PhD, Grant/Research Support: AbbVie funded this study. Dr. Smith is an employee of AbbVie. Major Stock Shareholder: AbbVie.

Robert Spencer, PhD, Other Financial or Material Support: Employee of Cara Therapeutics, Inc.

Viktor Todorovic, PhD, Major Stock Shareholder: AbbVie. Other Financial or Material Support: AbbVie.

*Nicole Ward, PhD, Consultant: Allergan. Other Financial or Material Support: Eli Lilly, Amgen.

Mari Wataya-Kaneda, MD/PhD, Consultant: Consulting fee by Nobelpharma Pharmaceutical Company. Other: Implementation of clinical trial by Nobelpharma Pharmaceutical Company.

*Victoria P. Werth, MD, Grant/Research Support: Biogen. Consultant: Biogen. Other Financial or Material Support: Sponsored research.

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ESDR Retreat Attendees

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Marie-Charlotte Brüggén, MD/PhD
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Yao Ke, MD/PhD
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Mari Løset, MD/PhD
Su Lwin, BSc/MBBS/MRCP
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Hanna Niehues, PhD
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Shinsuke Nakazawa, MD
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Tomoko Hirano, MD
Jong Soo Hong, MD
Jin-Bong Hong, MD
Michael Hughes, PhD
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Pan Kang, MS
Yao Ke, MD/PhD
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Jong Hoon Kim, MD/PhD
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Manao Kinoshita, MD/PhD
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Lei Qiu, MD
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Shuai Shao, MD/PhD Candidate
Zhenrui Shi
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Yohya Shigehara, MD
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Ria Carla Siccione
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Zhengwang Sun, PhD
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Chye Tan, PhD
Christina Tan, PhD
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Sayaka Togo, MD
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Rachel Xuan
Kiyoko Yamada, MD
Sachiko Yamaoka
Luting Yang
Chen Zhang, MD
Jieyu Zhang, MD

Retreat Attendees and Travel Awardees

SID/Albert M. Kligman Travel Fellowship Awardees

Alexa Abdelaziz
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Feras Al Ghazawi, MD/PhD
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Amir Ameri
Velina Atanasova
Kwabena Badu-Nkansah
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Gagan Chhabra, PhD
David Chiliza, PhD
Pablo Cirino, MD/PhD
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Michael Copley, MD/PhD
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Amrita Dasgupta, PhD
Thierry De Serres-Bérard
Krisha Desai
K. Sanjana P. Devi, PhD
Anushka Dikshit, PhD
Aaron Drucker, MD
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Nazanin Ehsani-Chimeh, MD
Stephanie Erjavec
Ian Ferguson
Itay Fogel, MD
S. Caleb Freeman
Keitaro Fukuda, MD/PhD
Khusali Gupta
Kelly Haas, PhD
Parker Hollingsworth
Christina Huang
Sixia Huang, PhD
Thomas Huffaker
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Arvin Ighani
Nasif Islam
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Andrew Ji, MD
Stephanie Kao
Michael Kemp, PhD
Arianna Kim, PhD

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Dongwon Kim, PhD
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Charles K. Lee
Jinmin Lee, PhD
Ming Lee, MD
Philippe Lefrançois, MD/PhD
Haoming Liu, PhD
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Lingling Miao, PhD
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Krystal Mitchell
Ka Wai Mok, PhD
Rebecca Moreci
Nabanita Mukherjee, PhD
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Matthew Tsang
Shuai Xu, MD

Seungwon Yang, PhD
Catherine Yao
Yi Yao, PhD
Zili Zhai, PhD
Shufeng Zhou

National Eczema Association (NEA) Travel Awardees

Emily Boozalis
Erin Brettmann, PhD
Tatsuya Dokoshi, PhD
Yajuan Guo
Chelsea Handfield
Mark Jeng, PhD
Nikhil Kulkarni, PhD
Jeffery Kwock
Marc Liggins, PhD
Haiyun Liu, PhD
Laura Mac-Daniel, PhD
Kunal Malik
Sangbum Park, PhD
Ana B. Pavel, PhD
Riana Sanyal
Jutamas Suwanpradid, PhD
Katherine Whang
Michael Williams
Morgan Ye, MPH
Lisa Zhou

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- British Association of Dermatologists
- British Society for Investigative Dermatology
- Deutschen Dermatologischen Gesellschaft
- Hungarian Dermatological Society
- Society for Investigative Dermatology

The JSID wishes to acknowledge the following for their generous support in providing Travel Grants to IID 2018.

- Society for Investigative Dermatology

The SID wishes to acknowledge the following for their generous support in providing Travel Grants to IID 2018.

- Albert M. Kligman Foundation
- National Eczema Association

Abstract Presentation Information

ORAL TYPE PRESENTATIONS

All oral presentations and lectures will take place at the Rosen Shingle Creek.

Plenary and Concurrent Mini-Symposium Oral presentations are scheduled at the rate of five (5) per hour. This allows ten (10) minutes for presentation and two (2) minutes for discussion. In order to coordinate sessions, the time limit will be strictly adhered to, or you will be asked to terminate your presentation by the session moderators.

Selected ePoster Discussions: Each poster presenter will be asked to briefly describe their work (3 min), followed by a short group discussion (3 min), that will be held with the help of a moderator. If your poster has been selected for ePoster Discussions, please join the appropriate group at the relevant ePoster kiosk. Reference daily schedule for locations, dates, times, categories, featured posters, and moderators.

The Come See My Poster Sessions give opportunities to select presenting authors of highly scored abstracts to give a brief one-minute (and one slide) introduction to their submitted abstract. See pages 46, 76 and 102 for schedule and presentations.

LCD projectors will be available in each lecture room. There will be resources to display only with IBM- compatible PowerPoint MS Office 2015 or earlier versions. Computer technicians will be able to download ZIP and CD files. **All oral presentations must also be presented as posters.**

All presentations must be uploaded at least six (6) hours prior to your presentation and uploads are to be completed in the Speaker Ready Room Area (Gatlin Registration Desk #2 located outside Gatlin D). Technical support will be available.

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 also displayed on your poster.

SPEAKER READY ROOM WILL BE HELD AT THE GATLIN REGISTRATION DESK #2 LOCATED ON THE LOWER LEVEL OUTSIDE GATLIN D.

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

Wednesday, May 16, 2018	7:00 am – 8:00 pm
Thursday, May 17, 2018	7:00 am – 6:00 pm
Friday, May 18, 2018	7:00 am – 6:00 pm
Saturday, May 19, 2018	7:00 am – 2:00 pm

TO VIEW ALL ABSTRACTS PLEASE DOWNLOAD THE MEETING APP (SEE PAGE 8 FOR INSTRUCTIONS) OR SEE THE MAY 2018 SUPPLEMENT TO THE JOURNAL OF INVESTIGATIVE DERMATOLOGY (JID). LATE-BREAKING ABSTRACT HANDOUTS WILL BE AVAILABLE ONSITE.

POSTER PRESENTATIONS

All poster will be displayed until Saturday, May 19th at 1:45 pm in Gatlin A-C. Posters will be viewed in three (3) sessions as outlined below. Presenters should be at their posters for their entire discussion session. Posters should not be removed early. The organizers of IID 2018 are not responsible for posters left unclaimed as of 2:00 pm on Saturday, May 19, 2018, and unclaimed posters will not be returned.

Install All Posters

Wednesday, May 16, 2018 8:00 am – 5:00 pm

Poster Session I

Thursday, May 17, 2018 11:45 am - 1:45 pm

- Odd Poster #'s 001-491
- Even Poster #'s 494-982
- Odd Late-Breaking Poster #'s LB1475-LB1615

Poster Session II

Friday, May 18, 2018 12:00 pm - 2:00 pm

- Odd Poster #'s 983-1473
- Even Poster #'s 002-492
- Even Late-Breaking Poster #'s LB1476-LB1616

Poster Session III

Saturday, May 19, 2018 11:45 am - 1:45 pm

- Odd Poster #'s 493-981
- Even Poster #'s 984-1474

Dismantle All Posters

Saturday, May 19, 2018 1:45 pm – 2:00 pm

Sponsor and Exhibitor Information

SPONSORS AS OF (April 25, 2018)



COMMERCIAL SUPPORT OF CME SESSIONS AS OF (April 25, 2018)

Janssen Biotech

Lilly

Merck

Pfizer

Valeant

TABLE TOP EXHIBITORS



Pachyonychia Congenita Project
Fighting for a cure. Connecting & helping patients. Empowering research.



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TECHNICAL EXHIBITS

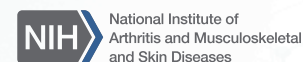
Exhibits will be staffed during the following times in Gatlin A-C

Thursday, May 17, 2018 11:45 am - 1:45 pm

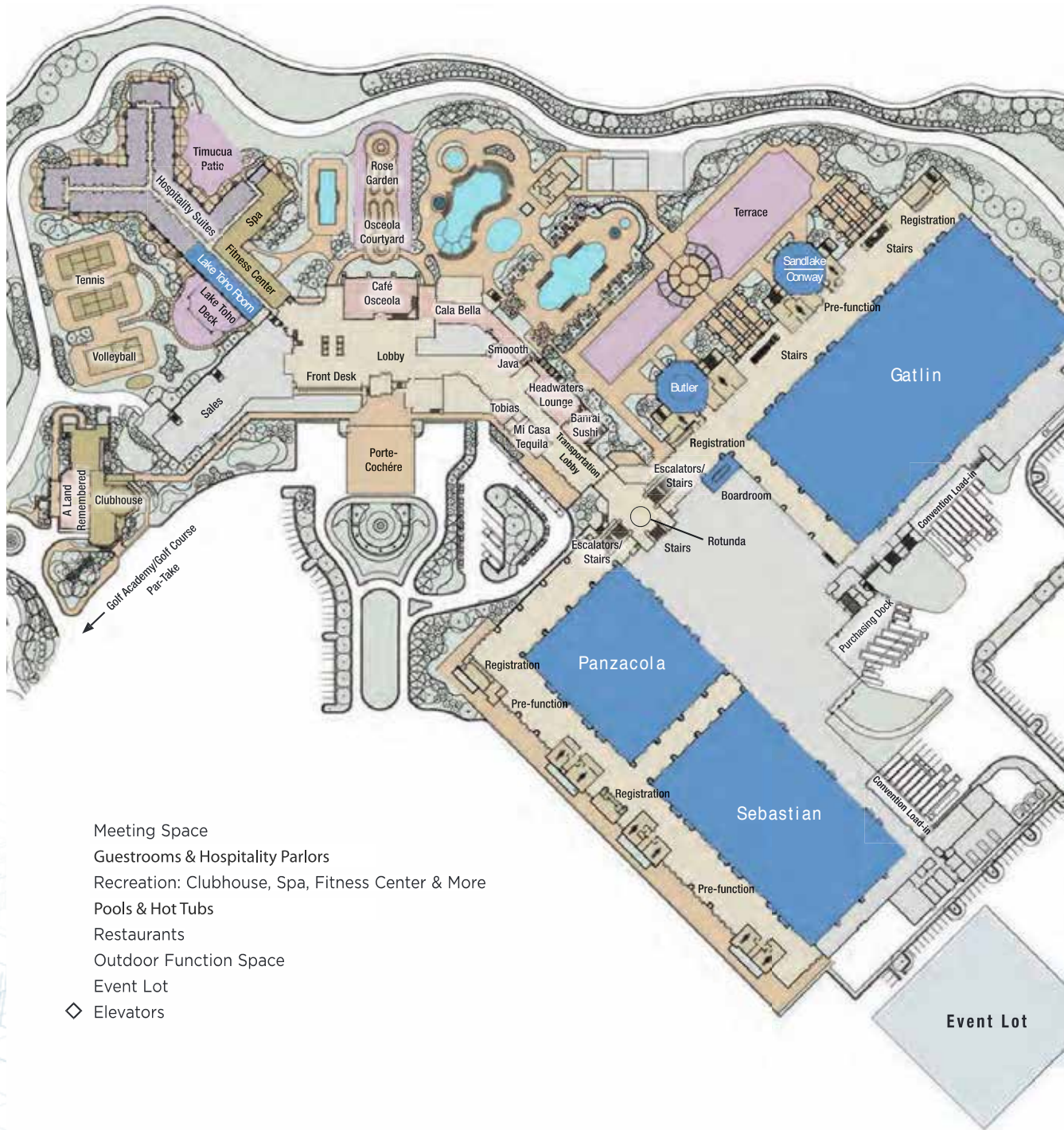
Friday, May 18, 2018 12:00 pm - 2:00 pm

Saturday, May 19, 2018 11:45 am - 1:45 pm

IID 2018 WELCOMES EXHIBITORS FROM THE FOLLOWING ORGANIZATIONS

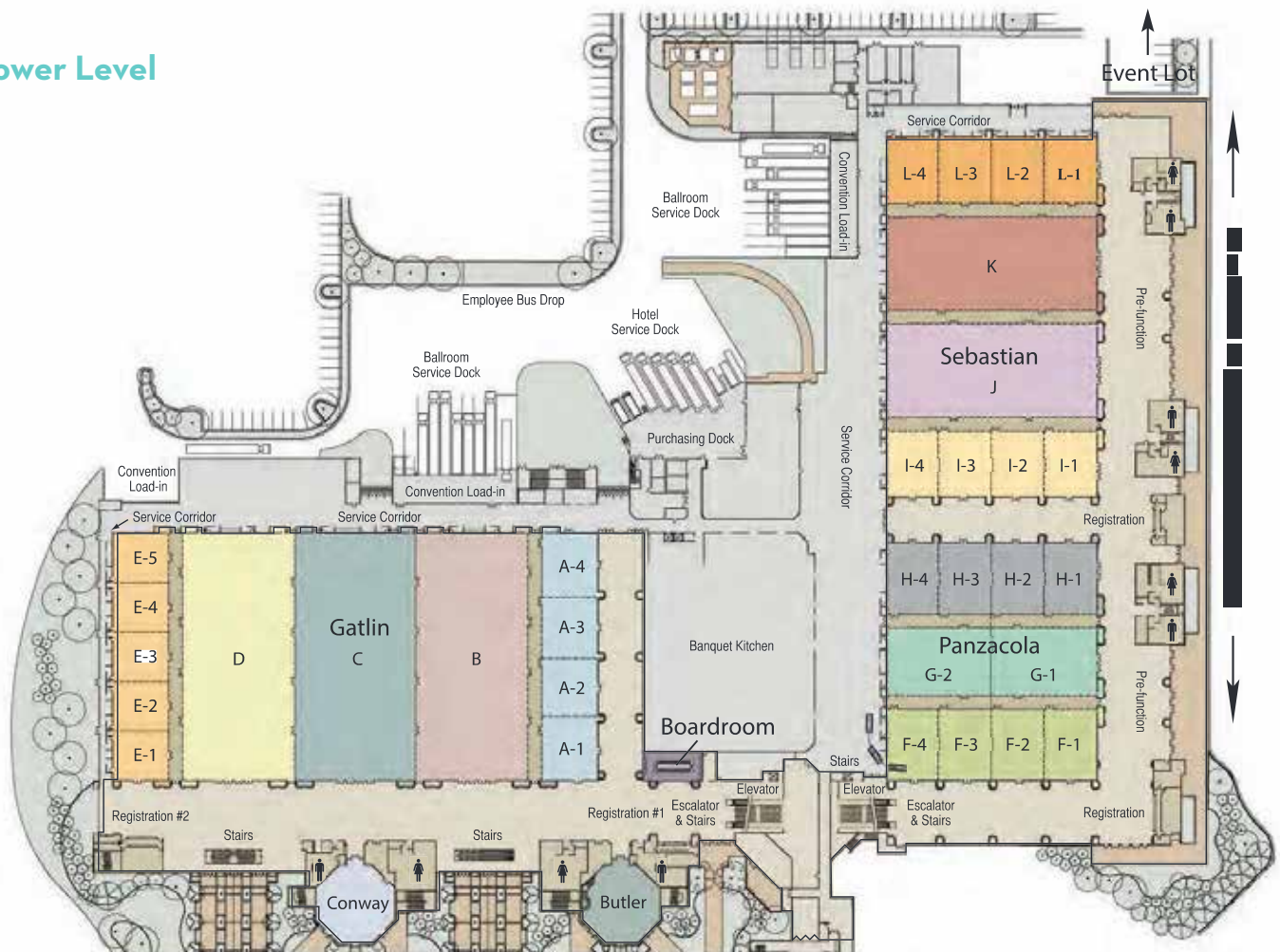


Rosen Shingle Creek Resort Map

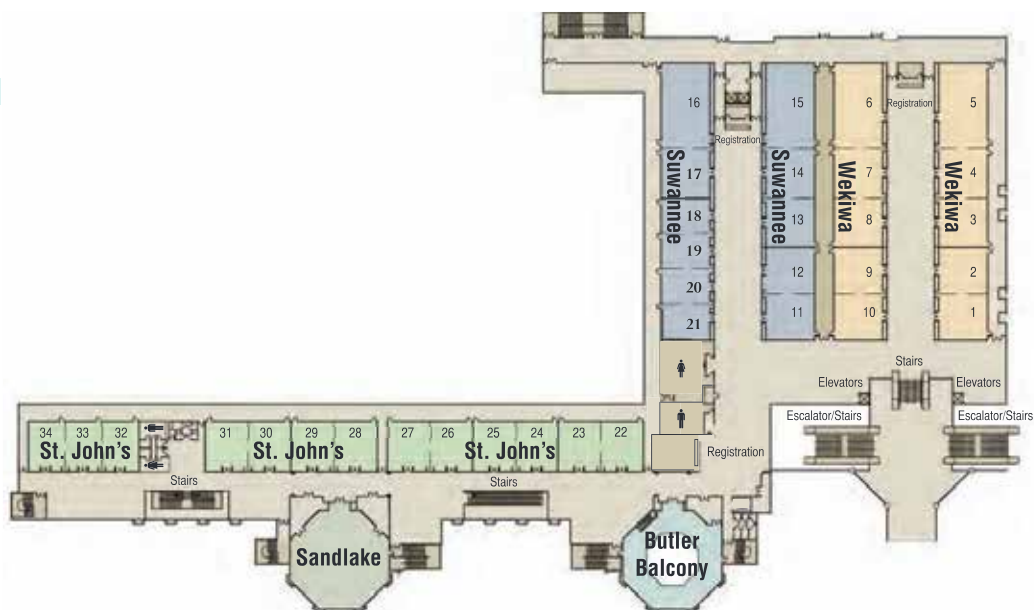


Rosen Shingle Creek Resort Map

Lower Level



Upper Level



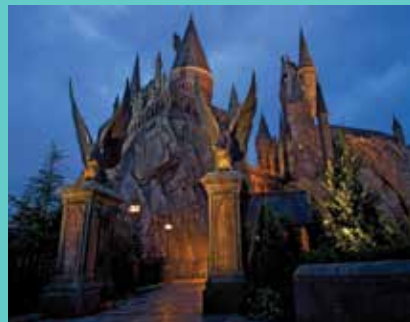
Get ready for one of the biggest parties IID has ever thrown.

Thursday, May 17, 2018
8:30 pm – 11:30 pm

At The Wizarding World of Harry Potter™ at Universal Orlando Resort™

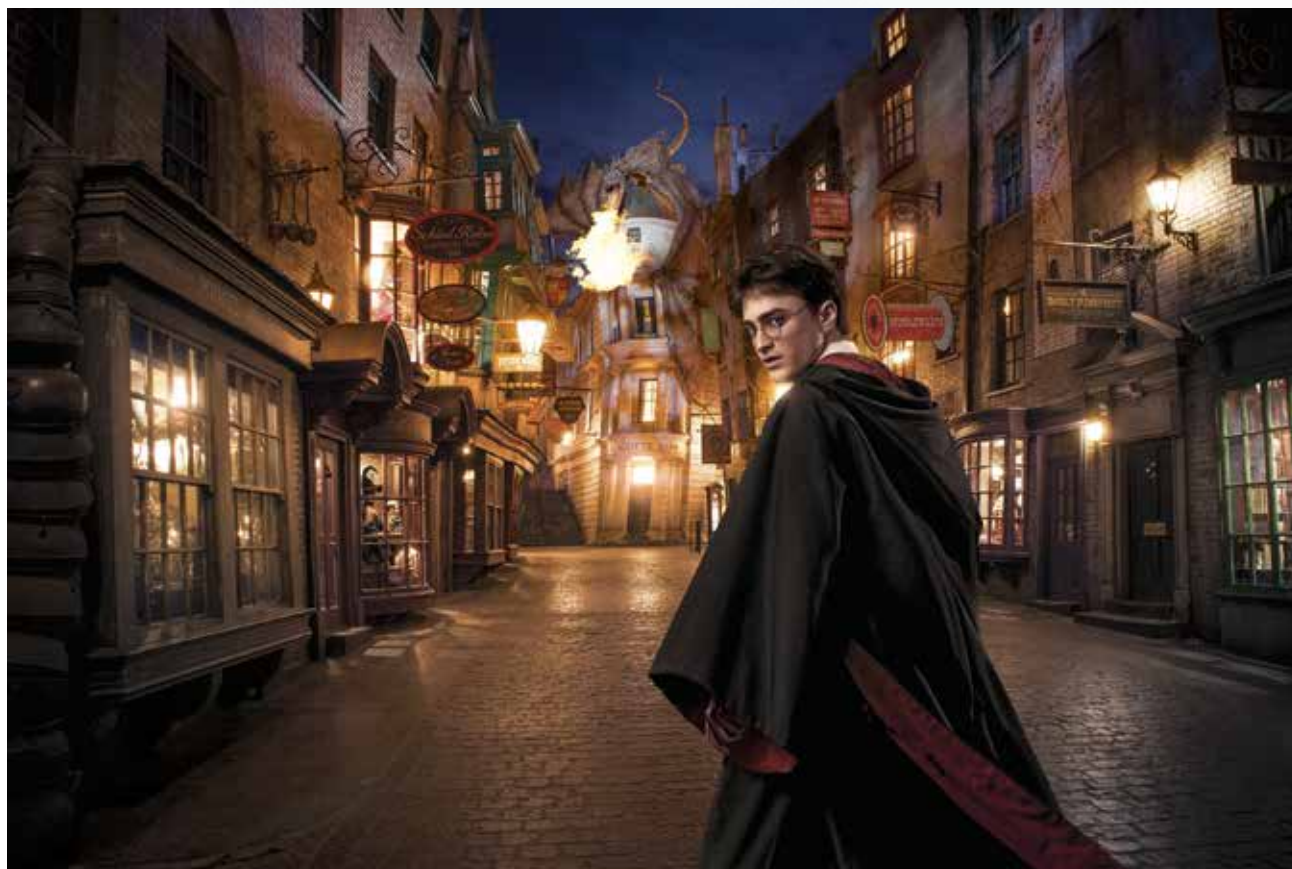
All attendees are to pick up their admission bracelets at the Social Event Registration Desk in the Panzacola Foyer, Thursday, May 17, 2018, starting at 3:30 pm. Buses will depart beginning at approximately 8:00 pm.

This is a Ticketed Event: Pre-registration is required. Please visit the IID Meeting Registration Counter in the Gatlin Foyer for availability.



It's a night of unforgettable magic and excitement – and it's all yours!

We've reserved The Wizarding World of Harry Potter™ at Universal Orlando Resort™ just for you! All night long, you'll have unlimited access to Diagon Alley™ at Universal Studios Florida™, and Hogsmeade™ at Universal's Islands of Adventure™. Explore Hogwarts™ castle, see a wand choose a wizard at Ollivanders™, experience the multi-dimensional thrill ride Harry Potter and the Escape from Gringotts™, and more. Plus, you'll be able to travel between the two lands on the Hogwarts™ Express!



Meeting Information and Policies

REPRODUCTION AND PHOTOGRAPHY POLICY

Any photography, filming, taping, recording or reproduction in any medium of any of the programs, exhibits, or lectures (oral or posters) presented at IID 2018 without written permission is strictly forbidden. Failure to comply with this rule may lead to the removal of your meeting credentials.



ON-SITE REGISTRATION

On-site registration will take place at the IID Registration Counter in the Gatlin Foyer during the following hours:

Wednesday, May 16, 2018	8:00 am - 7:00 pm
Thursday, May 17, 2018	8:00 am - 4:30 pm
Friday, May 18, 2018	8:00 am - 4:30 pm
Saturday, May 19, 2018	8:00 am - 12:00 pm

BADGES

Badges for both pre- and on-site registration can be picked up at the IID Registration Counter in the Gatlin Foyer. Meeting attendees are required to wear their badges at all times for entry to all sessions and other meeting activities.

SPECIAL SERVICES FOR THE PHYSICALLY CHALLENGED

The Rosen Shingle Creek is fully accessible to the physically challenged. If you have any special needs, please stop at the IID 2018 Registration Counter upon arrival.

WI-FI

Wi-Fi will be available in all the IID Meeting spaces.

Network: IID2018

Password: dermatology

Sponsored by: Glenmark



DISCOUNTS/CONCESSIONS AT ROSEN SHINGLE CREEK

- Spa-15% discount (excluding gratuities, tax and spa packages)
- Golf-Discounted rate of \$69.00 + tax for individual play, based on availability.
- Dining-15% discount at:

- Café Osceola
- A Land Remembered
- Cala Bella
- Tobias Burgers & Brews
- Mi Casa Tequila Taqueria
- Banrai Sushi
- 18 Monroe Street Market

Exclusive of any applicable taxes, service charges and/or gratuities. Not valid on alcoholic beverages, pre-packaged grocery items or apparel. Cannot be combined with any other discount, coupon or special. Excludes pre-fixed menus and group dining.

- Complimentary access to the Fitness Center
- Complimentary self-parking

CELLPHONE CHARGING LOCKER

The organizers of IID 2018 are pleased to provide free and secure cellphone charging lockers. These lockers will be located within the main meeting areas of IID 2018.

Sponsored by: Aclaris Therapeutics



Wednesday Sessions

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OPEN TO ALL MEETING ATTENDEES

CME CREDITS: 0

Welcome Reception

Wednesday, May 16, 2018

6:30 pm – 9:30 pm

Rosen Shingle Creek Terrace

All registered IID 2018 Meeting Attendees are invited to come to the Welcome Reception to kick off IID 2018! Gather with your colleagues on the Rosen Shingle Creek Terrace immediately following the Rising Stars Lectures.

Fun, food, and entertainment will be the order of the night.

This event is free of charge (beverage tokens can be found in your meeting registration packet). Companions are welcome to attend for a cost of \$50. Please purchase the Companion ticket at the Registration Counter.

WHAT TO EXPECT...

Enjoy local Florida cuisine including:

- Bayou Salad
- Pearly Mae's Gator Tail
- Low Country Boil
- Chicken Empanadas
- Swamp Carved Churrasco Beef
- Catfish Fish Po'Boy
- Buttermilk Biscuits with Honey
- Louisiana Bread Pudding
- Florida Key Lime Pie

Prepare for an explosion of unusual proportions. Volcano Joe & the Hot Lava Band have burst onto the scene with the hottest beach party music. Good times will flow all night as Volcano Joe leads attendees in an unforgettable beach ball volleyball game on the dance floor, a first-class conga line, and other interactive features throughout the night!



Unleash your inner rock star!

It's time to sing your heart out and rock the night away at IID 2018 Karaoke!

*Located in the Butler Room
(adjacent to the terrace).*

Meeting-At-A-Glance

Wednesday, May 16, 2018

PC Project Board Meeting Board Members Only	7:00 am – 11:00 am St. John's 28-29	JSID Rising Star Lecture <i>Skin Research Provides a Window into New Aspects of Systemic Disease Pathogenesis</i> Yoshihide Asano, MD/PhD	5:50 pm – 6:10 pm Gatlin D-E
International Trainee Retreat Program By Invitation Only	7:00 am – 2:00 pm Conway	ESDR Rising Star Lecture <i>The Aged Skin Microenvironment</i> Amaya Viros, MD/PhD	6:10 pm – 6:30 pm Gatlin D-E
The International Pemphigus and Pemphigoid Foundation (IPFF) <i>Pemphigus and Pemphigoid: A New Era of Translational and Clinical Science</i>	8:00 am – 3:00 pm St. John's 32-34	Welcome Reception	6:30 pm – 9:30 pm Terrace
Academic Industry Partnership Project (AIPP)	12:00 pm – 4:00 pm Panzacola G-1		
International Eczema Council (IEC) <i>Phenotype-Genotype Correlations and Personalized Medicine in Atopic Dermatitis</i>	12:00 pm – 3:00 pm Butler		
Research in Cutaneous Surgery (RCS)	12:00 pm – 1:00 pm St. John's 24		
International Psoriasis Council (IPC) <i>The Psoriatic Disease Mechanistic Scenarios</i>	1:00 pm – 4:30 pm St. John's 28-29		
American Acne & Rosacea Society (AARS)	1:00 pm – 4:00 pm St. John's 22-23		
International Society for Cutaneous Lymphomas (ISCL)	1:30 pm – 4:30 pm Panzacola F-3/4		
Future Leaders Symposium	2:00 pm – 4:00 pm Gatlin D-E		
LEO Foundation Awards	4:00 pm – 5:00 pm Gatlin D-E		
Opening Ceremonies	5:00 pm – 5:30 pm Gatlin D-E		
SID Rising Star Lecture <i>Sexual Dimorphism in Autoimmunity</i> Johann Gudjonsson, MD/PhD	5:30 pm – 5:50 pm Gatlin D-E		

Associate Groups are Highlighted

The International Pemphigus and Pemphigoid Foundation

Pemphigus and Pemphigoid: A New Era of Translational and Clinical Science



Wednesday, May 16, 2018

8:00 am - 3:00 pm

St. John's 32-34

8:00 am Breakfast and Poster Viewing Session

Clinical Trials of Novel Cellular Therapies for Pemphigus

Moderators: Detlef Zillikens (Lübeck, Germany), Donna Culton (Raleigh, USA)

9:30 am Immune tolerance in pemphigus. Rüdiger Eming, MD, Philipps-Universität Marburg, Marburg, Germany

9:45 am Gene-engineered cell therapies in pemphigus. Aimee Payne, MD/PhD, University of Pennsylvania, Philadelphia, USA

10:00 am Autologous regulatory T cells for treatment of autoimmune diseases. Haley Naik, MD, University of California, San Francisco, USA

10:15 am Panel discussion of cellular therapies for pemphigus

Emerging therapies in clinical development in P/P

Moderators: Peter Marinkovich (Stanford, USA), Soo-Chan Kim (Seoul, Korea)

10:45 am Unmet needs in pemphigoid diseases: an international survey amongst patients, clinicians and Researchers.

Marcel Jonkman, MD/PhD, University Medical Center Groningen, Netherlands

11:00 am Dimethyl fumarate in bullous pemphigoid. Ralf Ludwig, MD/PhD, University of Lübeck, Lübeck, Germany

11:15 am The C5a-LTB4 axis in bullous pemphigoid diseases- opening the door for granulocytes into the Skin.

Christian Sadik, MD, University of Lübeck, Lübeck, Germany

11:30 am Panel discussion of emerging therapies in P/P

12:00 pm Lunch

Pre-IID Spotlight with Lunch

Moderators: Aimee Payne (Philadelphia, USA) and Victoria Werth (Philadelphia, USA)

1:00 pm Defining Treatment Efficacy and Potential Biomarkers Following Rituximab Therapy in Patients with Bullous Pemphigoid. Ron Feldman, MD/PhD (Atlanta, USA)

1:08 pm Effectiveness and safety of rituximab in recalcitrant pemphigoid diseases. Aniek Lamberts, MD (Groningen, Netherlands)

1:16 pm PC111: a monoclonal anti-Fas Ligand antibody for the treatment of pemphigus. Roberta Lotti, MD (Modena, Italy)

1:24 pm miR-223-3p is upregulated by IgG of pemphigus and activates the p38 MAPK pathway through direct inhibition of DUSP10. Gabriel Cipolla, PhD (Curitiba, Brazil)

1:32 pm Efficacy of omalizumab therapy in bullous pemphigoid and mucous membrane pemphigoid. Catherine Prost, MD (Bobigny, France)

1:40 pm T cell subsets shape the clinical phenotype in autoimmunity against desmosomal and hemidesmosomal adhesion molecules. Farzan Solimani, MD (Marburg, Germany)

1:54 pm Come See My Poster Pre-IID Spotlight (2 minutes each)

- Vildagliptin significantly increases the risk of bullous pemphigoid: A Finnish nationwide registry study. Kaisa Tasanen, MD (Oulu, Finland)
- Prevalence of pruritus and pemphigoid in nursing home residents (SSENIOR): a cross-sectional study of an unmet need. Joost Meijer, MD (Groninger, Netherlands)
- Factors predictive of complete remission off therapy after a single cycle of rituximab for pemphigus. Carolyn Kushner, BS (Philadelphia, USA)
- The role of circadian clocks in a murine model of antibody-induced skin inflammation. Jennifer Hundt, MD (Lübeck, Germany)
- An Oral Disease Severity Score validated for use in Mucous Membrane Pemphigoid. Jane Setterfield, MD (London, England)
- Sensitive and specific assays for the serological diagnosis of anti-laminin 332 mucous membrane pemphigoid. Stephanie Goletz, MD (Lübeck, Germany)
- Comparative analysis of occurrence of IgG antibodies to BP180/BP230 and so-called IgG anti-neuronal antibodies in bullous pemphigoid coexistent with neurodegenerative diseases. Marian Dmochowski, MD (Poznan, Poland)
- Development of a Digital Solution to Facilitate Patient Physician Interactions in Pemphigus. Animesh Sinha, MD/PhD (Buffalo, USA)

2:15 pm Meeting Wrap Up: Aimee S. Payne, MD/PhD

POSTER PRESENTATIONS:

The Progressive Response of Repeated Rituximab Doses in the Treatment of Pemphigus Vulgaris. Sharon Baum, MD (Tel Aviv, Israel)

Assessing the "Quality" of Quality of Life Surveys in Autoimmune Blistering Disease. Carolyn Kushner, BS (Philadelphia, USA):

Cross-tumoral evolution of bullous pemphigoid after PD-1 inhibition. Johann Bauer, MD (Vienna, Austria)

Diagnostic strategy for bullous and nonbullous pemphigoid: a paired multivariable diagnostic accuracy study. Marcel Jonkman, MD/PhD (Groningen, Netherlands)

Dew drops on spider web appearance is a newly named, diagnostically valuable, pattern of Th2-dependent IgG4 deposition in pemphigus

diseases at an active-stage with direct immunofluorescence techniques: Implications for treatment. Marian Dmochowski, MD (Poznan, Poland)

Epidermolysis Bullosa Acquisita: a Prospective Multidisciplinary Study. Valeria Aoki, MD (São Paulo, Brazil)

A Pilot Phase 2a Study of the Safety and Efficacy of Bertilimumab, an Anti-Eotaxin-1 Antibody, in Bullous Pemphigoid. Tony Fiorino, MD (Englewood Cliffs, USA)

Organizing committee members:

Marc Yale, Director, International Pemphigus and Pemphigoid Foundation (IPPF), marc@pemphigus.org

Aimee Payne, MD/PhD, Associate Professor of Dermatology, University of Pennsylvania, aimee.payne@uphs.upenn.edu

Victoria Werth, MD, Professor of Dermatology, University of Pennsylvania, werth@pennmedicine.upenn.edu

Russell Hall, MD, Professor and Chair of Dermatology, Duke University, russell.hall@duke.edu

Academic Industry Partnership Project (AIPP)

Wednesday, May 16, 2018

12:00 pm - 4:00 pm

Panzacola G-1

12:00 pm

William Ju, MD and Neal Walker, DO

Opening Remarks

12:10 pm

William Ju, MD

Advancing Innovation in Mendham, NJ

What is Involved with Bringing Technology Out of Academia into Industry?

Dr. Ju is a board-certified dermatologist with over 20 years of experience in the biopharmaceutical industry within a wide variety of therapeutic areas (including dermatology), and in a broad range of entities at different stages of organizational development. This includes leadership positions in business startups to Fortune 100 companies and in nonprofits. Dr. Ju is currently President and a founding trustee of Advancing Innovation in Dermatology, Inc.



1:00 pm

Eugene Bauer, MD

Dermira, Meno Park, CA

Alfred T. Lane, MD

Stanford University, Stanford, CA

David Woodley, MD

Northwestern University, Evanston, IL



Dr. Eugene Bauer received a BS in medicine and an MD from Northwestern University. He is a co-founder of Dermira, Chief Medical Officer and a member of the board of directors. Before initiating his career in industry, he served as the Dean of the Stanford University School of Medicine and as Chair of the Department of Dermatology at the Stanford University School of Medicine.

Dr. Alfred T. Lane is a Professor of Dermatology and Pediatrics (Emeritus) at Stanford University Medical School. He graduated from the University of Dayton and The Ohio State University Medical School. He joined the faculty of Stanford University Medical School in 1990 as an Associate Professor of Dermatology and Pediatrics. In 1996 he was promoted to Professor of Dermatology and Pediatrics and became Chair of the Department of Dermatology until 2010.

Dr. Woodley completed his undergraduate degree in English Literature at Washington University in St. Louis and his medical school education at the University of Missouri in Columbia, Missouri. He completed his dermatology residency training at the University of North Carolina in Chapel Hill, North Carolina, and in 1989 went on to become Professor and Associate Chair of the Department of Dermatology at Stanford University. In 1992, he was appointed the Walter Hamlin Professor and Chair of Dermatology at Northwestern University. In 1999, he joined the medical faculty at the Keck School of Medicine of the University of Southern California (USC) and in 2004, he was named as the Founding Chair of the USC Department of Dermatology.

How a Career in Academia Can Lead to Relationships with Industry-One Department's Heritage.

2:00 pm

Break

2:15 pm

Neal Walker, DO

Aclaris Therapeutics, Inc., Malvern, PA

Defining Demographics-The Importance of Incidence/Prevalence

Dr. Neal Walker co-founded Aclaris Therapeutics and has served as President and Chief Executive Officer and a member of the Board of Directors since its inception in 2012. He is a board-certified dermatologist and serial entrepreneur with over 20 years of experience in the life science industry. He began his pharmaceutical industry career at Johnson & Johnson, Inc. Dr. Walker co-founded NeXption, LLC, a biopharmaceutical assets management company, in August 2012. Prior to Aclaris, he co-founded and served as President and Chief Executive Officer and a member of the Board of Directors of Vicept Therapeutics, Inc., a dermatology-focused specialty pharmaceutical company, from 2009 until its acquisition by Allergan, Inc. in July 2011. Previously, Dr. Walker co-founded and led a number of life science companies, including Octagon Research Solutions, Inc., a software and services provider to biopharmaceutical companies (acquired by Accenture plc), Trigenesis Therapeutics, Inc., a specialty dermatology company, where he served as Chief Medical Officer (acquired by Dr. Reddy's Laboratories Inc.), and Cutix Inc., a commercial dermatology company. He also co-founded and serves on the Board of Directors of the Dermatology Summit, Dermatology Innovation Forum, and Advancing Innovation in Dermatology. Dr. Walker is a director of Alderya Therapeutics, Inc., a publicly held biotechnology company, and on the Board of Directors of Life Sciences Pennsylvania, as well as several private companies. In 2016, Dr. Walker was awarded the Frank Baldino Bioscience CEO of the Year award, and the Ernst & Young Entrepreneur of the Year Greater Philadelphia award. He is a Fellow of the American Academy of Dermatology, received his M.B.A. degree from The Wharton School, University of Pennsylvania, his Doctor of Osteopathic Medicine degree from the Philadelphia College of Osteopathic Medicine, and a BA degree in Biology from Lehigh University.



2:45 pm

Iltefat Hamzavi, MD

Hamzavi/Dermatology Specialists and Henry Ford Hospital, Clinton, MI

Building the Clinical Path: The Example of Hidradenitis Suppurativa

Dr. Iltefat Hamzavi has practiced dermatology since 2001. In addition to general dermatology he specializes in photodermatology, hidradenitis suppurativa, vitiligo and ethnic dermatology. Dr. Hamzavi earned his Bachelor of Arts degree with honors in Sociology from the University of Michigan, Ann Arbor. He received his medical degree from the University of Michigan Medical School. Dr. Hamzavi completed his residency in dermatology at Wayne State University and completed a photomedicine fellowship at the University of British Columbia in Vancouver. Dr. Hamzavi splits his time between Hamzavi/Dermatology Specialists and Henry Ford Hospital. As Vice President and physician liaison of Hamzavi/Derm Spec he has helped grow the group from 2 offices to 10 and from 2 physicians to 16 physicians and 10 midlevels. He directs the investigator initiated research group at Henry Ford. The group has built nationally recognized specialty clinics and has over 100 publications and over 2000 citations. These publications are in some of the highest impact journals in medicine. He has served as the President of Hidradenitis Suppurativa Foundation and Co-chair of the Global Vitiligo Foundation. He serves on the board of multiple non-profits and cherishes time with his family and service to his home state of Michigan.



3:30 pm

Concluding Remarks

William Ju, MD and Neal Walker, DO

IID 2018



International Eczema Council (IEC)

Phenotype-Genotype Correlations and Personalized Medicine in Atopic Dermatitis

Wednesday, May 16, 2018

12:00 pm - 3:00 pm

Butler

LUNCH WILL BE SERVED

12:00 pm

Welcome and Overview

Emma Guttman-Yassky, New York, NY

12:05 pm



Wilson Liao, MD

San Francisco, CA

Genetic Mechanisms of Skin Barrier Failure in AD

12:35 pm



Stephan Weidinger, MD/MaHM

Kiel, Germany

Genetic Mechanisms of Immune Dysregulation and Comorbidities in AD

1:05 pm



Kenji Kabashima, MD/PhD

Kyoto, Japan

Skin Barrier, Immune Dysregulation and Itch-Therapeutic Implications

1:35 pm



Emma Guttman-Yassky, MD/PhD

New York, NY

Differences in Immune Dysregulation in Various AD Phenotypes and the Road to Personalized Medicine

2:00 pm

Q & A with Plenary Speakers

2:15 pm

Abstract Presentations

Integrating serum and skin biomarkers to assess disease extent beyond clinical scores, advancing precision therapeutics. Kunal Malik et al., Mount Sinai, New York, NY, Abstract #555

ASNOO2 a dual oral inhibitor of JAK/SYK signaling improves clinical outcomes and associated cutaneous inflammation in moderate-to-severe atopic dermatitis patients. Emma Guttman et al., Mount Sinai, New York NY, Abstract #559

Atopic Cytokines IL4/13 Perturb iPSC-Derived Itch-Specific Sensory Neurons. Zongyou Guo et al., Columbia University, New York, NY, Abstract #1446

Skin microbiome profiles of atopic dermatitis patients segregate into two community composition types that are stable before and after therapy. John Common et al., A*STAR, Singapore, Abstract #1039

Special thanks to the International Eczema Council for supporting this session.

Research in Cutaneous Surgery (RCS)

Wednesday, May 16, 2018

12:00 pm – 1:00 pm

St. John's 24

The Research in Cutaneous Surgery Mini-Symposium is a forum for clinically relevant, patient-directed research in dermatologic surgery, including cancer surgery, laser surgery, and cosmetic surgery. With a primary emphasis on clinical research, the symposium aims to highlight clinical trials on procedure safety and effectiveness, as well as epidemiologic investigations. As research in cutaneous surgery is a growing field, the symposium also serves to bring together investigators to facilitate future collaborations. Pilot studies and early work are appropriate for submission. Those interested in directing an abstract to this session next year are encouraged to contact any of the co-moderators for more information.

Moderator: Murad Alam, MD

Co-Moderator: Abigail Waldman, MD

- | | |
|-----------------|--|
| 12:00 pm | Anti-BCC efficacy of a topical Hedgehog inhibitor without adverse effects in BCNS patients in a Phase 2 Randomized controlled trial.
Ervin Epstein. <i>Abstract #139</i> |
| 12:07 pm | Three-dimensional modeling and comparison of nasal flap designs.
Daniel Sepe. <i>Abstract #520</i> |
| 12:14 pm | Patient scar assessment correlates with quality of life (QOL) after Mohs micrographic surgery (MMS).
William Fix. <i>Abstract #525</i> |
| 12:21 pm | Virtual reality to improve the experience of the Mohs patient.
Shera Feinstein. <i>Abstract #612</i> |
| 12:28 pm | Randomized, single-blinded, split-face comparison of superficial chemical peel vs. Nd: YAG laser for the treatment of melisma.
Daniel Schlessinger. <i>Abstract #1191</i> |
| 12:35 pm | 5-fluorouracil improves the appearance of pigmented facial lesions in older Caucasian men: Measurements using a newly developed Facial Pigmented Lesion Scale (FPLS).
Alex Means. <i>Abstract #511</i> |
| 12:42 pm | Treatment of acne-induced post-inflammatory hyperpigmentation with topical bakuchiol cream.
Amanda Nahhas. <i>Abstract #505</i> |
| 12:49 pm | A review of the use of platelet rich plasma for the treatment of androgenic alopecia.
Christina Stamatiou. <i>Abstract #573</i> |
| 12:56 pm | Questions |

International Psoriasis Council

The Psoriatic Disease Mechanistic Scenarios

Wednesday, May 16, 2018

1:00 pm – 4:30 pm

St. John's 28-29

Program Co-Chairs:



Hervé Bachelez, MD/PhD
Hôpital Saint-Louis & Sorbonne Paris
Cité Université, Paris, France

Johann Gudjonsson, MD/PhD
University of Michigan, Ann Arbor, MI

1:00 pm



Jonathan Barker, MD/ FRCP/FRCPath
St. John's Institute of Dermatology, London, UK
*The Immunogenetics of Plaque Psoriasis and Psoriatic Arthritis:
Where Are We Now?*

1:25 pm



Johann Gudjonsson, MD/PhD
University of Michigan, Ann Arbor, MI
*Transcriptomics Studies in Psoriasis: From Functional Genomics to
Patient Stratification*

1:50 pm



Nicole Ward, PhD
Case Western Reserve University, Cleveland, OH
Modeling Psoriatic Inflammation

2:15 pm



Kazumitsu Sugiura, MD/PhD
Fujita Health University School of Medicine, Toyoake, Japan
The Genetics of Pustular Psoriasis

2:40 pm

Panel Discussion and Summary

3:10 pm

Break

3:25 pm

Selected poster presentations

IL-21 regulates the balance of Th17 and Treg in psoriasis. Zeyu Chen. Shanghai, China. Abstract #406

miR-146a and miR-146b regulate members of the IL-1 family in human primary keratinocytes. Helen Hermann, MSc. Estonia. Abstract #764

CARD14 gain-of-function mutation alone is sufficient to drive IL-23/IL-17-mediated psoriasiform skin inflammation in vivo. Mark Mellett, PhD. Zurich, Switzerland. Abstract #993

Investigating a causal relationship between body mass index and inflammatory skin disease using mendelian randomization. Sara Brown, MD/ FRCPE. Dundee, Scotland. Abstract #432

The stigma of psoriasis: Public and healthcare professional perceptions. Marilyn Wan, MBChB/ MPH. Pennsylvania, US. Abstract #551

Tissue-resident Memory T Cells in Psoriasis Recurrence. Zhu Shen, MD. Sichuan, China. Abstract #097

Neutrophil-derived exosome drives the autoinflammatory responses of generalized pustular psoriasis via activating NOD2 in keratinocytes. Shuai Shao, PhD student. Xijing, China. Abstract #037

Mechanical stretch exacerbates psoriasis by promoting cell proliferation and amplifying pro inflammatory effects of keratinocytes. Pei Qiao, MSc. Xijing, China. Abstract #047

4:25 pm

Closing Remarks

American Acne and Rosacea Society (AARS) 7th Annual AARS Scientific Symposium



Wednesday, May 16, 2018

1:00 pm - 4:00 pm

St. John's 22-23

Complimentary Luncheon Served

(Titles and Presenters May Be Subject to Change)

- 1:00 pm** **Welcome and AARS Announcements.** Diane Thiboutot, MD, AARS Past President, Hershey, PA, USA.
- 1:15 pm** **Antimicrobial Activity of Cytolytic Th17 Cells Targeting Propionibacterium Acnes.** George Agak, PhD, University of California, Los Angeles, David Geffen School of Medicine, Los Angeles, CA, USA. *Abstract #051*
- 1:30 pm** **Distinct C. Acnes Strains Isolated from Lesional and Non-Lesional Regions of Acne Promote Differential Immune Responses.** Alan O'Neill, PhD, University of California, Los Angeles, Department of Medicine, Dermatology, Los Angeles, CA, USA. *Abstract #1023*
- 1:45 pm** **The Acne Microbiome Response to Isotretinoin Therapy.** William H. McCoy, IV, MD/PhD, Research Instructor in Medicine, Department of Medicine, Division of Dermatology, Washington University School of Medicine, St. Louis, MO, USA. *Abstract #992*
- 2:00 pm** **Lysis by Bacteriophage Can Modulate Cutibacterium Acnes-Induced Immune Responses.** Laura Marinelli, MD, UCLA Department of Medicine, Dermatology, Los Angeles, CA, USA. *Abstract #1016*
- 2:15 pm** **An In Vivo Model for Post-Inflammatory Hyperpigmentation.** Taylor Braunberger, MD, Dermatology Clinical Research Fellow, Department of Dermatology, Henry Ford Hospital Systems, Detroit, MI, USA. *Abstract #1279*
- 2:30 pm** **P. Acnes Carbohydrates from Acne-Associated Phylotypes Induce Distinct Inflammatory Response in Comparison to Carbohydrates from Healthy Phylotypes: A Potential Ligand Implicated in Acne Disease Pathogenesis.** Evyatar Evron, PhD, University of California, Los Angeles, David Geffen School of Medicine, Los Angeles, CA, USA. *Abstract #1040*
- 2:45 pm** **Both Lesional and Non-Lesional Skin from Acne Patients Shows Robust IL-17 Skewing and Upregulation of Antimicrobial Peptides.** Ning Zhang, PhD, College of Medicine, SUNY Downstate, Flushing, NY, USA. *Abstract #1318*
- 3:00 pm** **Frequency of acne in lactose intolerant patients: A Cross-Sectional Study within a Large US Patient Population.** Kelsey Orrell, MD, Department of Dermatology, Northwestern University, Chicago, IL, USA. *Abstract #240*
- 3:15 pm** **Koebnerisin (S100A15) - A Novel Player in the Pathogenesis of Rosacea.** Aleksandra Batycka-Baran, MD/ PhD, Department of Dermatology, Wroclaw Medical University, Wroclaw, Dolnoslaskie, Poland. *Abstract #1027*
- 3:30 pm** **Demodex Mites Modulate Skin Inflammation: Potential Role in Rosacea.** Solene Gatault, PhD/PharmD, Charles Institute of Dermatology, University College of Dublin, Belfield, Dublin, Ireland. *Abstract #1009*
- 3:45 pm** **Closing Comments**

Visit www.acneandrosacea.org to register for the symposium!
(888) 744-DERM (3376) • info@aarsmember.org

International Society for Cutaneous Lymphomas

ISCL Cutaneous Lymphoma Symposium


Wednesday, May 16, 2018
1:30 pm – 4:30 pm
Panzacola F-3/4

ISCL Program Committee: Joan Guitart-CHAIR, Martine Bagot, Larisa Geskin, Sam Hwang, Ramon Pujol, Gary Wood

Refining and Redefining Blood Involvement in MF/SS

1:30 pm

Welcome & Introduction

The American Clinician's Perspective

Joan Guitart, MD/FAAD, Program Chair and ISCL President
Chief of Dermatopathology in the Department of Dermatology; Professor of Dermatology and Pathology, Northwestern University Feinberg School of Medicine, Illinois, USA

1:40 pm

State-of-the-Art Lecture: The Hematopathologist's Perspective

Fiona E. Craig, MD, Professor of Laboratory Medicine and Pathology, Mayo Clinic, Arizona, USA

2:25 pm

The European Perspective

Julia Scarisbrick, MBChB/FRCP/MD, Consultant Dermatologist, University Hospital, Birmingham, U.K.

2:35 pm

Q&A and Discussion

2:40 pm

ISCL General Membership Business Meeting

2:45 pm

Coffee Break

Cutaneous Lymphoma Foundation Young Investigator Award and Presentation

3:00 pm

Skin Commensals as Instigators of Cutaneous T cell Lymphoma, Carina Dehner

Abstracts Presentations

8 minutes for presentation + 2 minutes for Q&A and change of speaker

3:15 pm

BET inhibition markedly inhibits CTCL cell viability and is synergistically potentiated by BCL2 or HDAC inhibition. Sa Rang Kim, *Abstract #452*

3:25 pm

Preclinical studies support combined inhibition of BET family proteins and histone deacetylases as epigenetic therapy for cutaneous T-cell lymphoma. Lei Zhao, *Abstract #400*

3:35 pm

Gentian violet induces pro-apoptotic and anti-proliferative effects in cutaneous T-cell lymphoma (CTCL): Preclinical studies. Jianqiang Wu, *Abstract #423*

3:45 pm

Targeting the vitamin B6 pathway as a novel therapeutic strategy for cutaneous T-cell lymphoma. Cynthia Chen, *Abstract #163*

3:55 pm

Sézary syndrome patient-derived xenografts for 21-color flow cytometry immunophenotyping and CART cell therapeutic testing. Karl Staser, *Abstract #441*

4:05 pm

PUVA and maintenance treatment in mycosis fungoides: Systemic aberrant cytokine expression is a predictor of outcome. Pablo Vieyra-Garcia, *Abstract #579*

4:15 pm

Successful identification of copy number variations using next generation sequencing with a tumour panel in plaque/tumour mycosis fungoides. J Yoo, *Abstract #146*

4:25 pm

Differences in the miRNA expression profiles of erythrodermic Mycosis Fungoides and Sézary Syndrome. Anne Hald Rittig, *Abstract #473*

Visit www.cutaneouslymphoma.org for more information about the ISCL and membership!

Future Leaders Symposium

Wednesday, May 16, 2018

2:00 pm - 4:00 pm

Gatlin D-E

2:00 pm

Welcome and Introduction

Brian S. Kim, MD/MTR/ FAAD

2:05 pm

Introduction: Peggy Myung, MD/PhD



Mayumi Ito, PhD

NYU School of Medicine, New York, NY

Wound Healing and Regeneration in the Skin

Mayumi Ito studied at Nagoya University, Japan where she completed her PhD. Dr. Ito did her Post-Doctoral training with Dr. George Cotsarelis Department of Dermatology, University of Pennsylvania School of Medicine. She is currently Associate Professor at The Ronald O. Perleman Department of Dermatology, Department of Cell Biology, New York University School of Medicine.

2:25 pm

Introduction: Amy Foulkes, BMedSci (Hons), BMBS/ PhD/MRCP



Zenas Yiu, PhD Student

University of Manchester, Manchester, England

An Investigation into the Association and Prediction of Serious Infection in Patients on Biologic Therapies for Psoriasis

Dr. Zenas Yiu is a National Institute for Health Research (NIHR) Doctoral Research Fellow in Dermatology at the University of Manchester, UK, and a Specialty Registrar in Dermatology at Salford Royal NHS Foundation Trust, working under Professors Chris Griffiths, Richard Warren and Darren Ashcroft. His research interests lie in Pharmacoepidemiology and Evidence-Based Dermatology, and he takes a particular interest in the evaluation of the safety and effectiveness of novel therapeutics for chronic inflammatory skin conditions. He was heavily involved in the systematic review process underpinning the recommendations in the British Association of Dermatologists' guidelines for biological therapy for Psoriasis 2017, and he currently serves as an Associate Editor for the Evidence-Based Dermatology section in the British Journal of Dermatology. His current area of doctoral research aims to quantify the risk of serious infections associated with biologic therapies for psoriasis, utilizing the rich resource that is the British Association of Dermatologists' Biologic Interventions Register (BADBIR).

2:40 pm

Introduction: Hideyuki Ujiie, MD/PhD



Hisashi Nomura, MD

Keio University, Tokyo, Japan

Desmoglein in 3-Specific B cells Stay in the State of Clonal Ignorance in the Pathogenic Anti-Desmoglein 3 Antibody Knock-In Mice

Dr. Nomura is an Instructor in the Department of Dermatology of Keio University School of Medicine. He joined the Department of Dermatology at Keio University in 2011, where he completed his residency. He subsequently worked at the Keio-affiliated hospital in Department of Dermatology. He joined the PhD program of Department of Dermatology in Keio University in 2014, and completed the program without degree in 2018.

2:55 pm

Introduction: Attilia Gábor Szöllősi, MD/PhD



Hanna Niehues, PhD

Radboud University Medical Center, Nijmegen, The Netherlands

LCE3B/C Deletion - More Than Just a Loss of Two Proteins

Hanna Niehues was born in Germany and moved to The Netherlands in 2007 to study Medical Biology. After her Master's Degree she started her graduation research at the Experimental Dermatology lab of Prof. Dr. Joost Schalkwijk at the Radboud University Medical Center in Nijmegen in 2012. In 2017 she obtained her PhD degree with Cum Laude distinction and now she follows-up her research on inflammatory skin diseases as a Postdoc at that Department. Hanna's research is focused on the understanding of genetic risk factors for chronic inflammatory skin diseases like psoriasis and atopic dermatitis. Using organotypic 3D skin models of genotypically defined primary keratinocytes Hanna and colleagues investigate the impact of genetic polymorphisms of keratinocyte-expressed proteins on skin development, morphology and function. Recent studies aim to investigate the cross-talk between keratinocytes and other skin components, like immune cells or skin microbiota to determine how defects in one or more of these compartments can disturb skin balance leading to disease or disease susceptibility.

Continued on next page

(Continued) Future Leaders Symposium

Wednesday, May 16, 2018

2:00 pm – 4:00 pm

Gatlin D-E

3:10 pm

Introduction: Hideyuki Ujiie, MD/PhD

**Tetsuro Kobayashi, DVM/PhD**

NIAMS, NIH, Bethesda, MD

Dissecting Atopic Inflammation of Adam17/Sox9 Mice by Microbiome and Single Cell Transcriptome Analysis

Dr. Kobayashi obtained a Doctor of Veterinary Medicine degree from Tokyo University of Agriculture and Technology in 2007 and a PhD degree from Gifu University in 2010. Dr. Kobayashi conducted a postdoctoral training as a research fellow of Japan Society for the Promotion of Science at Keio University School of Medicine in Japan between 2011 and 2014. Dr. Kobayashi joined Dr. Keisuke Nagao's laboratory at Keio University School of Medicine (Tokyo, Japan) in 2011 and has conducted research on the skin immunity, particularly in the context of atopic dermatitis. He re-joined Dr. Nagao's laboratory at the NIH in 2014 as Dr. Nagao made his transition. Dr. Kobayashi has studied mechanisms involved in the interactions between immune cells and microbiome in skin. He currently extends his area of focus to understand how the skin microbiota is regulated and maintained by host-immunity in both steady state and diseased conditions.

3:25 pm

Introduction: Brian S. Kim, MD/MTR/ FAAD

**Tamia Harris-Tyron, MD/PhD**

University of Texas, Southwestern, Dallas, TX

Resistin-Like Molecule α (RELM α) Provides Vitamin A-Dependent Antimicrobial Protection of the Skin

Dr. Harris-Tyron is a magna cum laude graduate of Haverford College in Pennsylvania. After completing her undergraduate studies, she entered the Johns Hopkins University's Medical Scientist Training Program. She completed her graduate training in the lab of Charles Lowenstein MD and her work elucidated the function of an endothelial microRNA, miR-126, in vascular inflammation. In 2014, Dr. Harris-Tyron joined the Department of Dermatology at UT Southwestern and returned to the bench as a postdoctoral fellow in the lab of Dr. Lora Hooper, an internationally recognized leader in mechanistic studies of the host /microbe interface. Dr. Harris-Tyron expanded the focus of the lab to include skin. The long-term goal of her work is to understand how the microbiota and the diet regulate skin immunity.

3:40 pm

Introduction: Atsushi Otsuka, MD/PhD

**Yoshihide Asano, MD/PhD**

University of Tokyo, Tokyo, Japan

A Road from Basic Research to Clinical Trials -to Meet Patients' DesiReS-

Dr. Asano is an Associate Professor of Dermatology at the Graduate School of Medicine, University of Tokyo. Dr. Asano received his MD in 1998 at the University of Tokyo and completed his PhD training in 2004, also at the University of Tokyo. Dr. Asano has been with the University since 1998 and also spent two years of training as a Post-Doctoral Fellow at the Division of Rheumatology and Immunology at the Medical College of South Carolina from 2006-2008. Dr. Asano's research interest is in basic and clinical studies on scleroderma.

LEO Foundation Awards



LEO FOUNDATION

Wednesday, May 16, 2018

4:00 pm - 5:00 pm

Gatlin D-E

The LEO Foundation will donate one Gold award of 1,000,000 DKK and one Silver award of 500,000 DKK to two young researchers.



Session Chair

Jesper Mailind, MBA
CEO, LEO Foundation
Copenhagen, Denmark



LEO Foundation Testimonial

Emma Guttman-Yassky, MD/PhD
Icahn School of Medicine at Mount Sinai Medical Center
New York, NY, USA



Gold Award Winner

Hayato Takahashi, MD/PhD
Keio University School of Medicine
Tokyo, Japan
Dissection and Understanding of T cell Biology Towards Cure of Intractable Skin Diseases



Silver Award Winner

Tiffany Scharschmidt, MD
University of California San Francisco School of Medicine
San Francisco, CA, USA
Living at Peace with Our Skin Bacteria: Early Life Lessons

Opening Ceremonies

Wednesday, May 16, 2018

5:00 pm - 5:30 pm

Gatlin D-E

**Join the Presidents of the
ESDR, JSID, and SID
as they welcome attendees of the
IID Conference to Orlando.**

Highlights of the opening ceremony include a spotlight
on the previous six Tri-Continental/IID Meetings,
acknowledgements of those from places all over the world,
and a rundown of the meeting highlights.

*We look forward to
seeing you there!*



Rising Stars Lectures

Wednesday, May 16, 2018

5:30 pm - 6:30 pm

Gatlin D-E

5:30 pm

SID Guest Lecture

Introduction by: Nicole Ward, PhD



Johann Gudjonsson, MD/PhD

University of Michigan, Ann Arbor, MI

Sexual Dimorphism in Autoimmunity

Johann Gudjonsson, MD/PhD is a graduate of the University of Iceland Medical School. He completed his internship and dermatology residency training at the University of Michigan. In 2008, Dr. Gudjonsson joined the faculty of the University of Michigan Department of Dermatology. Dr. Gudjonsson sees general dermatology patients at the University of Michigan Taubman Center and directs the inpatient consultation service. Dr. Gudjonsson came to the U-M in 2003 as part of an innovative research residency training program. Building upon investigative dermatology training completed in Iceland, Dr. Gudjonsson has been performing basic immunological and genetic work on psoriasis at the U-M. Dr. Gudjonsson's primary research focus is basic immunological and genetic research on psoriasis, with projects directed at improving the diagnosis and treatment of psoriasis. Dr. Gudjonsson is the Frances and Kenneth Eisenberg Emerging Scholar of the Taubman Medical Research Institute. He received the Young Investigator Award from the American Academy of Dermatology in 2007 and his work has earned several research awards, including awards from the American Skin Association, the Dermatology Foundation, Doris Duke Foundation and the NIH.

5:50 pm

JSID Guest Lecture

Introduction by: Akimichi Morita, MD/PhD



Yoshihide Asano, MD/PhD

University of Tokyo, Tokyo, Japan

Skin Research Provides a Window into New Aspects of Systemic Disease Pathogenesis

Dr. Asano is an Associate Professor of Dermatology at the Graduate School of Medicine, University of Tokyo. Dr. Asano received his MD in 1998 at the University of Tokyo and completed his PhD training in 2004, also at the University of Tokyo. Dr. Asano has been with the University since 1998 and also spent two years of training as a Post-Doctoral Fellow at the Division of Rheumatology and Immunology at the Medical College of South Carolina from 2006-2008. Dr. Asano's research interest is in basic and clinical studies on scleroderma.

6:10 pm

ESDR Guest Lecture

Introduction by: Chris Griffiths, MD



Amaya Viros, MD/PhD

The University of Manchester, Manchester, UK.

The Aged Skin Microenvironment

Amaya Viros obtained her degree in Medicine and Surgery at the University of Barcelona. She completed her training as a dermatologist and venereologist at Vall d'Hebrón University Hospital, Spain. She then obtained a Fulbright Scholarship to become a Fellow in the Department of Dermatology and Pathology at the University of California, San Francisco, in the laboratory of Boris Bastian. She then moved to Richard Marais' laboratory, first to the Institute of Cancer Research and then at the CRUK Manchester Institute where she obtained a PhD. Amaya has combined her research with clinical work as a dermatologist at St. George's Hospital in London, and Salford Royal Foundation Trust in Manchester. Her research has focused on the mechanisms driving secondary keratinocytic tumours in metastatic melanoma patients treated with the BRAF inhibitor vemurafenib, as well as on dissecting the specific contribution of ultraviolet radiation to distinct subtypes of melanoma defined by their driver oncogene. In 2016, she became a Wellcome Trust Intermediate Clinician Scientist Fellow and won the Wellcome-Beit Award. Her lab focuses on how ageing influences melanoma initiation and progression, and on developing rationales of adjuvant care for patients at high risk for melanoma progression.

LECTURESHIP HISTORY

The 2018 Rising Stars Lectures celebrate the best of emerging dermatological science throughout the world. Program committees from SID, JSID and ESDR have selected one prominent young researcher engaged in high-impact science in their respective regions to provide a short overview on their current work.

Thursday Sessions

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45	Plenary Session II
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48 - 53	Selected ePoster Discussions I <ul style="list-style-type: none">• Carcinogenesis and Cancer Genetics• Clinical Research: Epidemiology of Skin Diseases• Epithelial Biology• Innate Immunity, Microbiology, Inflammation• Skin of Color• Tissue Regeneration and Wound Healing
54	ESDR Rudi Cormane Lecture
55	JSID Tanioku Kihei Memorial Lecture
56	Concurrent Mini-Symposium 1: Carcinogenesis and Cancer Genetics
57	Concurrent Mini-Symposium 2: Clinical Research: Epidemiology of Skin Diseases
58	Concurrent Mini-Symposium 3: Innate Immunity, Microbiology, Inflammation
59	Concurrent Mini-Symposium 4: Skin of Color
60	Concurrent Mini-Symposium 5: Tissue Regeneration and Wound Healing
61	Concurrent Mini-Symposium 6: Interdisciplinary Spotlight: Autophagy/Aging
62	Imaging in Cutaneous Biology Workshop
63 - 64	Sanofi Genzyme and Regeneron Pharmaceuticals Symposium
65	2018 International DermatoEpidemiology Association Meeting (IDEA)
66	International Transplant Skin Cancer Collaborative (ITSCC)

Making Dining an Adventure at Rosen Shingle Creek

Complemented with numerous options to choose from, the luxurious Rosen Shingle Creek® offers guests a wide selection of cuisines fit for any appetite. Discover new dishes or delight in old favorites just an elevator ride away—or delivered to your door 24 hours a day. And all within the beautiful setting of turn-of-the-century Spanish Revival architecture.



Smoooth Java

Conveniently located in the Lobby, Smoooth Java serves a wide assortment of coffees, smoothies and fresh pastries. Open daily at 6:00 am



Cala Bella

Cala Bella Italian Restaurant provides a romantic atmosphere under high arch vaulted ceilings. Beautiful Italian artwork paired with the restaurant's presentation bar and open kitchen provide elegance and energy. As the Orlando Florida sky turns to soft shades of pink and grey, gaze through grand, antique wood-shuttered windows as night falls over the resort's lush pool deck and pristine 18-hole golf course. Open nightly for dinner at 5:30 pm



A Land Remembered

A legendary Orlando steakhouse named after the late Patrick Smith's rich novel featuring Florida's historical moments and landscapes. Serving a variety of cuisine and accompanying wine list as succulent and filling as its namesake. Proudly serving Harris Ranch all Natural Prime Black Angus Beef, as well as menu items catering to all tastes. Located in the Golf Clubhouse. Open nightly for dinner. Evening resort attire recommended. Reservations recommended. Open nightly for dinner at 5:30 pm



18 Monroe Street Market

The 18 Monroe Street Market is open 24/7 with hot and cold dishes, round-the-clock snacks, to-go meals, beverages and more.



Café Osceola & Osceola Bar

Savor freshly prepared buffet chef cooking stations and a la carte menu items complemented by magnificent floor-to-ceiling views and the elegant décor of Spanish-revival colors of blue and gold. Open daily at 6:30 am

Mi Casa Tequila Taqueria

Welcome to our little casa con sabor mexicano! Where guacamole is prepared fresh to your personal taste at your table, hand-crafted margaritas are a specialty, and authentic flavors satisfy more than your appetite. Don't forget to try our Jefe margarita!! Open daily at 11:30 am

Banrai Sushi

Banrai which means "many guests" in Japanese, is Rosen Shingle Creek®'s ever popular time out for sushi! Experience the perfect combination of flavors and textures to put your mind at ease, including traditional sushi, signature rolls, specialty sakes and inspired cocktails. Open nightly for dinner at 5:00 pm

Tobias Burgers & Brews

This welcoming gathering spot for hungry guests serves gourmet burgers, specialty flats, craft beers and bourbon. Open daily at 11:30 am

Headwaters Lounge

Headwaters' central location is a great place to network, or mingle with friends over a casual drink. Open daily at 3:00 pm

Creek Ice Creamery

Have a refreshing treat while enjoying the pool activities. With so many mouthwatering flavors to choose from, we're sure to have your favorite. Open daily at 12:00 pm

Cat-Tails Pool Bar & Grille

Cat-Tails serves a selection of beverages and light menu items to enjoy while you relax by the pool. Open daily at 11:00 am

Shingle Creek Clubhouse Grille

Open daily for lunch at 11:00 am

Meeting-At-A-Glance

Thursday, May 17, 2018

Lilly Symposium 7:00 am – 8:30 am
Taltz: Perspectives from Dual Specialties Gatlin D-E
 Alice Bendix Gottlieb, MD/PhD

**Promoting Diversity & Inclusion:
 A Conversation for Trainees and
 Leadership** 7:00 am – 8:30 am
 Panzacola G-1

Medical Dermatology Society (MDS) 7:00 am – 8:30 am
 Conway

Plenary Session I 8:45 am – 9:45 am
 Gatlin D-E

SID Herman Beerman Lecture 9:45 am – 10:15 am
The Skin Microbiome: At the Interface between Gatlin D-E
Human and Environmental Microbiomes
 Rob Knight, PhD

Plenary Session II 10:15 am – 11:15 am
 Gatlin D-E

Come See My Poster Session I 11:15 am – 11:30 am
 Poster #'s 179, 161, 292, 301, 931, Gatlin D-E
 972, 1271, 1287, 1407, 1422, 655, 798

Poster Session I/Coffee Break 11:45 am – 1:45 pm
 • Odd Poster #'s 001-491 Gatlin A-C
 • Even Poster #'s 494-982
 • Odd Late-Breaking Poster #'s LB1475-LB1615

Coffee Break Sponsored by: Syntimmune

Aclaris Therapeutics Symposium 12:00 pm – 1:30 pm
JAK 'Be Nimble': New Applications of Gatlin D-E
JAK Inhibitors In Dermatology

Selected ePoster Discussions I 12:15 pm – 1:15 pm
 • Carcinogenesis and Cancer Gatlin Foyer Kiosk #1
 Genetics
 • Clinical Research: Epidemiology of Gatlin Foyer Kiosk #2
 Skin Diseases
 • Epithelial Biology Gatlin Foyer Kiosk #3
 • Innate Immunity, Microbiology, Gatlin Foyer Kiosk #4
 Inflammation
 • Skin of Color Gatlin Foyer Kiosk #5
 • Tissue Regeneration and Wound Gatlin Foyer Kiosk #6
 Healing

Sponsored by: Rodan & Fields

ESDR Rudi Corman Lecture 2:00 pm – 2:30 pm
Above and Beyond: New Frontiers in Gatlin D-E
Cutaneous Immunology
 Tilo Biedermann, MD

JSID Tanioku Kihei Memorial Lecture 2:30 pm – 3:00 pm
Environment and Skin Gatlin D-E
 Jean Krutmann, MD

Concurrent Mini-Symposia 3:15 pm – 5:45 pm
 1. Carcinogenesis and Cancer Genetics Panzacola F-3/4
 2. Clinical Research: Epidemiology of Panzacola F-1/2
 Skin Diseases
 3. Innate Immunity, Microbiology, Inflammation Gatlin D-E
 4. Skin of Color Conway
 5. Tissue Regeneration and Wound Healing Panzacola G-1
 6. Interdisciplinary Spotlight: Autophagy/Aging Panzacola G-2

Imaging In Cutaneous Biology Workshop 6:00 pm – 7:30 pm
 Panzacola G-2

**Sanofi Genzyme and Regeneron
 Pharmaceuticals Symposium** 6:00 pm – 7:30 pm
*New Frontiers and Pivotal Investigation- Panzacola F-3/4
 Based Advances in the Pathoimmunobiology
 And Management Of Atopic Dermatitis*

**2018 International DermatoEpidemiology
 Association Meeting (IDEA)** 6:00 pm – 7:30 pm
 St. John's 24-25

**International Transplant Skin Cancer
 Collaborative (ITSCC)** 6:00 pm – 7:30 pm
 Panzacola G-1

Social Event 8:30 pm – 11:30 pm
The Wizarding World of Harry Potter™
at Universal Orlando Resort™

Ticketed Event:
Pre-Registration Required
 All attendees are to pick up their admission bracelets at the
 Social Event Registration Desk in the Panzacola Foyer,
 Thursday, May 17, 2018, starting at 3:30 pm. Buses will depart
 beginning at approximately 8:00 pm.

Associate Groups are Highlighted

Lilly Symposium

Taltz: Perspectives from Dual Specialties



Thursday, May 17, 2018

7:00 am – 8:30 am

Gatlin D-E

Overview

Lilly will be sponsoring a speaker event featuring Dr. Alice Gottlieb discussing the management of plaque psoriasis and psoriatic arthritis. The event will include a clinical overview of disease manifestations of these diseases and clinical efficacy and safety outputs from the relevant pivotal trials. The Facilitator will provide clinical insights and be available for a live question and answer session after the promotional educational presentation.



Alice Bendix Gottlieb, MD/PhD

Chair of Dermatology
Dermatologist-in-Chief
Tufts Medical Center
New York, New York

Dr. Gottlieb is an internationally recognized expert and leader in the field of psoriasis, psoriatic arthritis, and hidradenitis suppurativa. She obtained her MD from Cornell Medical School and her PhD in immunology from the Rockefeller University, where she studied in the laboratory of Henry Kunkel and was one of the first females admitted to Rockefeller University's joint MD/PhD program.

She was one of the first scientists to demonstrate that psoriasis is a T-cell mediated disease. Dr. Gottlieb has received numerous awards for her work, including the American Skin Association's Psoriasis Research Award, the Honorary Fellowship Award of the American College of Clinical Pharmacology, and the National Psoriasis Foundation's Outstanding Educator in Psoriatic Disease Award. In November 2015, she was the first female scientist featured on the cover in the Journal of Investigative Dermatology's series on translational research scientists.

Her research using targeted immunobiologics as pathogenic probes provided new understanding of the pathogenesis of psoriasis and provided the foundation for biologic drug development in psoriasis and psoriatic arthritis. Her translational research provided the first double-blind, randomized, placebo-controlled study of the efficacy of TNF blockers as monotherapy for moderate to severe psoriasis (published in Lancet in 2001). Most recently, she co-authored the phase 3 studies of a TNF blocker, adalimumab, for treatment of hidradenitis suppurativa, which were published in the New England Journal of Medicine. She is triple boarded in dermatology, rheumatology, and internal medicine, and is one of only a handful of doctors in the US to be certified in all three of these specialties. Currently, Dr. Gottlieb's research centers on developing new treatments for psoriasis and psoriatic arthritis, developing better outcome measures for psoriasis, and on understanding the mechanisms of action of these novel agents. Additionally, she is working on initiatives to prevent disability due to psoriatic arthritis and to develop outcome measures useful to all stakeholders and useful in clinical practice.

Dr. Gottlieb was on the Board of Directors of the American Academy of Dermatology for 2011-2015. She is the founder and President of the Board of the International Dermatology Outcome Measures (IDEOM) group, active in the autoimmune disease community as a councilor of the International Psoriasis Council, a member of the Executive and Steering Committees of GRAPPA (an international psoriatic arthritis coalition), a Medical Advisory Board member and Co-Editor of the Journal of Psoriasis and Psoriatic Arthritis, and on the editorial board of Dermatology.

Promoting Diversity and Inclusion: A Conversation for Trainees and Leadership

Thursday, May 17, 2018

7:00 am - 8:30 am

Panzacola G-1

7:00 am



Russell P. Hall, MD
President, SID
Duke University Medical Center
Durham, NC



Nicole Ward, PhD
Secretary-Treasurer, SID
Case Western Reserve University
Cleveland, OH

What is the SID doing to Promote Diversity and Inclusion?

7:10 am



Lynn Cornelius, MD
Washington University School of Medicine, St. Louis, MO
Introduction of Keynote Speaker Robyn Klein, MD/PhD

7:15 am



Robyn Klein, MD/PhD
Washington University School of Medicine, St. Louis, MO
Speaking Out About Gender Imbalance in Invited Speakers Improves Diversity.

Robyn S. Klein, MD/PhD is Professor, Departments of Medicine, Anatomy & Neurobiology, Pathology & Immunology at Washington University School of Medicine St. Louis. She obtained her BA from Barnard College, in 1985. She continued her education at Albert Einstein College of Medicine where she obtained her MD/PhD in Neuroscience in 1993. She did her Residency at Brigham & Women's Hospital, Boston, MA (1996) followed by a Clinical Fellowship, Infectious Diseases: Massachusetts General Hospital, Boston, MA (1997) and then a Research Fellowship, Infectious Diseases: Massachusetts General Hospital, Boston, MA (2000). Research in the Klein laboratory focuses on the pathogenesis of neuroinflammatory diseases of the central nervous system (CNS). In particular, they have been interested in the cellular and molecular mechanisms that orchestrate inflammation during both viral and autoimmune encephalitides via endothelial-immune cell interactions. Their studies over the past few years have led them to focus on the roles of cytokines and chemokines in the regulation of blood-brain barrier permeability to protective versus pathogenic leukocytes, and to West Nile virus (WNV), a positive strand flavivirus that may enter the CNS and cause encephalitis. These inflammatory cues also regulate CNS repair by neural stem cells (NSCs) in mice with viral infection or demyelinating diseases. Aspects related to NSC-mediated repair include defining the localizing, proliferative and differentiation cues that lead to successful repair of damaged neurons and myelin.

7:35 am



Valentina Greco, PhD
SID Board of Director
Yale University,
New Haven, CT



Cory Simpson, MD/PhD
SID Board of Director
University of Pennsylvania,
Philadelphia, PA

Q & A

7:40 am

Introduction of Panel Format and Panel Members

7:45 am

Panel Discussion of Pre-Authorized Questions



Ponciano Cruz, MD
Incoming President, SID
University of Texas Southwestern
Dallas, TX



Robyn Klein, MD/PhD
Washington University
School of Medicine
St. Louis, MO



Richard L. Gallo, MD/PhD
Secretary-Treasurer, SID
University of California, San Diego
San Diego, CA



Sarah Millar, PhD
Incoming Vice-President, SID
University of Pennsylvania
Philadelphia, PA



Akemi Ishida-Yamamoto, MD/PhD
Chair of JSID D&I Committee
Asahikawa Medical University
Asahikawa, Japan



Carien Niessen, PhD
ESDR Representative
University of Cologne
Cologne, Germany

8:10 am



Valerie Horsley, PhD
Yale University, New Haven, CT
Introduction of SID Toolkit for Diversity and Inclusion

8:25 am

Closing Remarks
Nicole Ward, PhD, Secretary-Treasurer, SID
Case Western Reserve University, Cleveland, OH



Medical Dermatology Society (MDS)

Thursday, May 17, 2018

7:00 am – 8:30 am

Conway



Daniela Kroshinsky, MD/MPH
MDS Immediate Past-President
Massachusetts General Hospital



Janet Fairley, MD
MDS Past-President
University of Iowa Hospitals and Clinics



Adela Rambí Cardones, MD
MDS Board of Directors
Duke University

7:00 am Introduction and Welcome

7:05 am CD72^{low} CD19⁺B subset associated with antibody production and corticosteroids resistance in bullous pemphigoid. Yao Ke, MD/PhD, Xijing Hospital, Fourth Military Medical University. *Abstract #070*

7:17 am Demographic and serologic features differentiate bullous pemphigoid with and without preceding neurologic disease. Kelly Messingham, University of Iowa. *Abstract #096*

7:29 am Do oro-pharyngeal symptoms correlate with endoscopic findings in patients with pemphigus vulgaris? Michal Bohdanowicz, MD/PhD, University of Toronto. *Abstract #262*

7:41 am Prevalence and relative risk of microscopic colitis and chronic diarrhea in dermatomyositis. David Pearson, MD, University of Pennsylvania. *Abstract #274*

7:52 am Calciphylaxis: Important issues in the pathologic diagnosis of a still under-recognized entity Erik Williams, MD, Massachusetts General Hospital. *Abstract #501*

8:04 am Impact of Cyclosporine in the management of SJS/TEN. Radhika Shah, PharmD, Massachusetts General Hospital. *Abstract #502*

8:16 am The role of surgery in hidradenitis suppurativa management. Charles Puza, MD, Duke University School of Medicine. *Abstract #1280*

8:28 am Discussion and Concluding Remarks

Members of the Medical Dermatology Society (MDS) represent the heart and soul of our specialty: Medical Dermatology. The MDS is made up of the thought leaders of clinical dermatology and the teachers of the next generation of practicing dermatologists. Our members include academicians, private practitioners, and resident physicians. We specialize in the care of patients with serious dermatologic diseases. Our mission is to improve the care of patients with these conditions.

Dermatologists are encouraged to pursue a career in medical dermatology by:

- Encouraging resident presentations at our Annual Meeting
- Developing Advanced Medical Dermatology Rotations for residents to work with experts in our field across the country
- Encouraging dermatology programs to sponsor 5-year combined Internal Medicine/Dermatology training programs
- Coordinating and providing lectures and sessions on medical dermatology topics at major dermatology meetings
- Providing lectures, discussions and case presentations at the annual Medical Dermatology Society Meeting

Plenary Session I

Thursday, May 17, 2018

8:45 am – 9:45 am

Gatlin D-E

Presiders: Masayuki Amagai, MD/PhD
Michel Gilliet, MD
Victoria Werth, MD

1. **Human central memory T cells generate superior numbers of resident memory T cells in skin.** T. Matos, A. Gehad, J. Teague, B. Dyring-Andersen, C. Yang, J. O'Malley, R. Watanabe, T. Kupper and R. Clark. Amsterdam, Netherlands and Boston, MA. 8:45 am, Abstract #071
2. **Cholesterol 25-hydroxylase expressing CD4⁺ T cell regulates skin inflammation.** H. Takahashi, H. Nomura, H. Iriki, A. Kubo, M. Mukai, T. Sasaki, Y. Mikami, J. O'Shea and M. Amagai. Toyko, Japan and Bethesda, MA. 8:57 am, Abstract #013
3. **Paving the road to explain melanocyte loss in vitiligo: An uncovered role of matrix metalloprotease MMP9.** N. Boukhedouni, C. Martins, A. Darrigade, C. Barrault, J. Garnier, J. Rambert, A. Taieb, F. Bernard, J. Seneschal and K. Boniface. Bordeaux, France. 9:09 am, Abstract #1225
4. **Blockade of CX3CL1-CX3CR1 pathway attenuates skin inflammation, fibrosis, and vascular injury in experimental mouse models of systemic sclerosis.** L. Vu Huy, T. Chino, N. Oyama, T. Matsushita, T. Obara, Y. Kuboi, N. Ishii, A. Machinaga, H. Ogasawara, W. Ikeda, T. Imai and M. Hasegawa. Eiheiiji, Fukui, Japan; Kanazawa, Ishikawa, Japan; Tokyo, Japan and Kobe, Hyogo, Japan. 9:21 am, Abstract #848
5. **Clinical improvement in atopic dermatitis following autologous application of microbiome therapy targeting *Staphylococcus aureus*.** T. Nakatsuji, T. Yun, A. Butcher, A. Hayashi, K. Chun, F. Shafiq, J. Kim, L. Zaramela, K. Zengler, T. Hata and RL. Gallo. San Diego, CA and La Jolla, CA. 9:33 am, Abstract #426

SID Herman Beerman Lecture

The Skin Microbiome: At the Interface between Human and Environmental Microbiomes

Thursday, May 17, 2018

9:45 am - 10:15 am

Gatlin D-E

Introduction by:

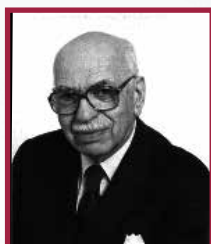
Richard Gallo, MD/PhD



Rob Knight, PhD

University of California, San Diego, San Diego, CA

Rob Knight is the founding Director of the Center for Microbiome Innovation and Professor of Pediatrics and Computer Science & Engineering at UC San Diego. Before that, he was Professor of Chemistry & Biochemistry and Computer Science in the BioFrontiers Institute of the University of Colorado at Boulder, and an HHMI Early Career Scientist. He is a Fellow of the American Association for the Advancement of Science and of the American Academy of Microbiology. In 2015 he received the Vilcek Prize in Creative Promise for the Life Sciences. He is the author of "Follow Your Gut: The Enormous Impact of Tiny Microbes" (Simon & Schuster, 2015), coauthor of "Dirt is Good: The Advantage of Germs for Your Child's Developing Immune System" (St. Martin's Press, 2017) and spoke at TED in 2014. His lab has produced many of the software tools and laboratory techniques that enabled high-throughput microbiome science, including the QIIME pipeline (cited ~8000 times as of this writing) and UniFrac (cited ~5000 times). He is co-founder of the Earth Microbiome Project, the American Gut Project, and the company Biota, Inc., which uses DNA from microbes in the subsurface to guide oilfield decisions. His work has linked microbes to a range of health conditions including obesity and inflammatory bowel disease, has enhanced our understanding of microbes in environments ranging from the oceans to the tundra, and made high-throughput sequencing techniques accessible to thousands of researchers around the world. Dr. Knight can be followed on Twitter (@knightlabnews) or on his web site <http://knightlab.ucsd.edu/>.



LECTURESHIP 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.

Plenary Session II

Thursday, May 17, 2018

10:15 am - 11:15 am

Gatlin D-E

Presiders: Lloyd Miller, MD/PhD
Shinichi Sato, MD/PhD
Matthias Schmith, MD

1. **Endovascular progenitors initiate and drive de novo vascularisation in melanoma.** J. Patel, J. Dight, P. Donovan, H. Wong and K. Khosrotehrani. Brisbane, Australia. 10:15 am, Abstract #1240
2. **Dermal Wnt/ β -catenin activation tunably controls hair follicle initiation.** K. Gupta, D. Chen, J. Levinsohn, K. Choate, M. Taketo and P. Myung. New Haven, CT and Kyoto, Japan. 10:27 am, Abstract #1338
3. **The role of Fgf20 in establishing the hair follicle dermal condensate.** LC. Biggs, OJM. Mäkelä, S. Myllymäki, R. Das Roy, K. Närhi and ML. Mikkola. Helsinki, Finland. 10:39 am, Abstract #1362
4. **FcRn blockade with SYNT001 for the treatment of pemphigus.** VP. Werth, D. Culton, L. Blumberg, J. Humphries, R. Blumberg and R. Hall. Philadelphia, PA; Chapel Hill, NC; New York, NY; Alexandria, VA; Boston, MA and Durham, NC. 10:51 am, Abstract #538
5. **KMT2D epigenetically regulates p63 target enhancers to coordinate epithelial homeostasis.** E. Lin-Shiao, Y. Lan, A. Anderson, C. Simpson, R. Saffie, G. Donahue, P. Sen, L. Busino, BA. Garcia, S. Berger and B. Capell. Philadelphia, PA. 11:03 am, Abstract #624

Come See My Poster Session I

Thursday, May 17, 2018

11:15 am - 11:30 am

Gatlin D-E

President: Marjana Tomic-Canic, PhD

The Come See My Poster sessions give opportunities to select presenting authors of highly scored abstracts to give a brief one-minute (and one slide) introduction to their submitted abstract. This rapid paced session leads right into one of the IID 2018 Poster Sessions, providing both an excellent starting point into the Poster Hall and the generation of excitement for all attendees.

1. **Drug resistance in basal cell carcinoma identifies the inner nuclear membrane as a critical GLII regulatory checkpoint.** A. Mirza, SA. McKeller and AE. Oro. Palo Alto, CA and Stanford, CA. 11:15 am, Abstract #179
2. **KRAS regulation by small non-coding RNAs and SNARE proteins.** Y. Che and P. Khavari. Stanford, CA. 11:16 am, Abstract #161
3. **Comparison of wage earnings between psoriasis patients on biologics versus oral therapies in the United States.** N. Ehsani-Chimeh, N. Salame and A. Armstrong. Los Angeles, CA and Irvine, CA. 11:17 am, Abstract #292
4. **Antihypertensive medications and risk of keratinocyte carcinoma.** FM. Shaw, W. Li and MA. Weinstock. Providence, RI. 11:18 am, Abstract #301
5. **Pathogenic role for KLK5 LL37 pDC type I interferon axis linking *B. oleronius* to flare ups of rosacea.** A. Mylonas, H. Hawerkamp, Y. Wang, S. Meller, B. Homey, J. Di Domizio, M. Gilliet, A. Hovnanian and C. Conrad. Lausanne, Switzerland; Düsseldorf, Germany and Paris, France. 11:19 am, Abstract #931
6. **Deep mining of the diversity of eukaryotic viruses colonizing human skin.** O. Tirosh, S. Conlan, C. Deming, C. Ng, S. Lee-Lin, N. Program, A. Freeman, H. Su, J. Segre and H. Kong. Bethesda, MD. 11:20 am, Abstract #972
7. **The expression of phosphatidylinositol glycan, class K gene (PIGK) correlates with tyrosinase activity in human melanocytes.** K. Okamura, M. Hayashi, Y. Abe, Y. Araki, Y. Hozumi and T. Suzuki. Yamagata, Japan. 11:21 am, Abstract #1271
8. **Enhanced susceptibility to UVR induced damage in skin melanocytes from hispanic donors.** A. Dasgupta, VM. Harvey and J. Chan. Hampton, VA. 11:22 am, Abstract #1287
9. **Single-cell transcriptomics of human mesenchymal stem cells reveal age-related cellular subpopulation depletion and impaired regenerative gene expression.** S. Khong, M. Lee, D. Khong, N. Kosaric, D. Duscher, Y. Dong, R. Schäfer and G. Gurtner. Palo Alto, CA; Boston, MA; Cambridge, MA and Tübingen, Germany. 11:23 am, Abstract #1407
10. **A novel S100A8/A9 induced fingerprint of mesenchymal stem cells is associated with enhanced wound healing.** A. Basu, S. Munir, M. Mulaw, K. Singh, B. Herold, D. Crisan, A. Sindrilaru, N. Treiber, M. Wlaschek, M. Huber-Lang, F. Gebhard and K. Scharffetter-Kochanek. Ulm, Germany. 11:24 am, Abstract #1422
11. **Origin and functions of the corneocyte lipid envelope.** D. Crumrine, D. Khnykin, P. Krieg, M. Man, A. Celli, T. Mauro, G. Menon, E. Mauldin, J. Miner, A. Brash, E. Sprecher, F. Radner, K. Choate, DR. Roop, Y. Uchida, R. Gruber, M. Schmuth and P. Elias. San Francisco, CA; Oslo, Norway; Heidelberg, Germany; Philadelphia, PA; St. Louis, MO; Nashville, TN; Tel Aviv, Israel; Graz, Austria; New Haven, CT; Aurora, CO and Innsbruck, Austria. 11:25 am, Abstract #655
12. **Biallelic COL7A1 editing in iPSCs via CRISPR/Cas9 for recessive dystrophic epidermolysis bullosa mutations.** J. Jackow, Z. Guo, H. Abaci, Y. Doucet, J. Shin, C. Hansen, J. Salas and A. Christiano. New York, NY and Monterrey, Mexico. 11:26 am, Abstract #798



Aclaris Therapeutics Symposium

JAK 'Be Nimble': New Applications of JAK Inhibitors in Dermatology

Thursday, May 17, 2018

12:00 pm - 1:30 pm

Gatlin D-E

12:00 pm John Harris, MD/PhD

University of Massachusetts Medical School, Worcester, MA



Welcome and Introduction: What a Difference a Year Makes

John E. Harris, MD/PhD, is an Associate Professor of Dermatology at the University of Massachusetts Medical School (UMMS) in Worcester, MA. He serves as Director of the Vitiligo Clinic and Research Center at UMMS, focusing both on the clinical management of vitiligo patients as well as research into new therapeutic strategies. His approach includes basic, translational, and clinical studies that incorporate the use of mouse models, human tissues, and small clinical trials that determine disease mechanisms of vitiligo, identify quantifiable markers of disease activity, and test new treatments. Previous work from his research team revealed that the IFN- γ signaling pathway is central to both the progression and maintenance of vitiligo, and recent studies in both mice and humans have demonstrated efficacy of new immunotherapies that target this pathway. Ongoing research seeks to better characterize the mechanism of action of these new treatments and to identify new targets in order to design an optimal therapeutic strategy for vitiligo patients, who currently have no FDA-approved treatment options. Long-term goals are to bring new treatments with better safety and efficacy into the clinic, to develop more durable, long-lasting treatments, and ultimately to find a cure for this psychologically devastating disease.

12:05 pm Paul Changelian, PhD

Aclaris Therapeutics, Inc., Wayne, PA



Confluence Discovery Sciences, St. Louis, MO

JAK Inhibitors 101

Paul Changelian is an immunologist and research leader with over 25 years' experience in drug discovery. His work has focused on several areas, including renal transplantation, autoimmune disease, mitochondrial metabolism and oncology. He has experience in both large pharma (Pfizer) and small biotechnology companies (Lycera Corp. and Infinity Pharmaceutical). During his 18 years at Pfizer, his laboratory was responsible for the preclinical candidate delivery and development of tofacitinib in rheumatoid arthritis, psoriasis, IBD and renal transplant. This drug was approved in 2012 as the first new oral drug for RA in over ten years (Xeljanz). Paul obtained his degrees from the University of Michigan in Ann Arbor (BS chemistry), Harvard University in Cambridge (PhD in Immunology) and Washington University in St. Louis (postdoctoral fellowship in neurobiology).

12:20 pm **New Indications for JAK Inhibitors in Dermatology**

Moderator: John Harris, MD/PhD

Tofacitinib for recalcitrant cutaneous dermatomyositis. Abeer Alsarheed, Cambridge, MA. Abstract #503

CXCL9 drives morphea pathogenesis in mice. Druhmil Patel, Worcester, MA. Abstract #102

Photosensitivity and heightened type I IFN responses in cutaneous lupus are driven by elevated interferon kappa. Mrinal Sarkar, Ann Arbor, MI. Abstract #072

Tofacitinib leads to increased infections by downregulation of antiviral immune defense. Heike C. Hawerkamp, Dusseldorf, Germany. Abstract #1056

RAGE mediates UVB-induced persistent DNA Damage Response (DDR) and resistance to apoptosis in human melanocytes. Lynn A. Cornelius, St. Louis, MO. Abstract #1215

Efficacy of topical tofacitinib in promoting hair growth in non-scarring alopecia. Jindapa Thummakriengkrai, Thammasat University, Thailand. Abstract #1311

Efficacy of oral tofacitinib in the treatment of lichen planopilaris. Brigitte Sallee, MD, New York, NY. Abstract #491

1:25 pm **Concluding Remarks**

Stuart D. Shanler, MD/FAAD/FACMS



Aclaris Therapeutics, Inc., Wayne, PA

Stuart D. Shanler, MD co-founded Aclaris Therapeutics, Inc. and has served as their Chief Scientific Officer since their inception in July 2012. Dr. Shanler co-invented a topical rosacea drug for, and co-founded and served as Chief Scientific Officer of Vicept Therapeutics, Inc. from 2009 until its acquisition by Allergan, Inc. in July 2011. Previously, Dr. Shanler was a dermatologic surgeon in private practice. Dr. Shanler is a board-certified dermatologist and received his MD degree from Albany Medical College of Union University and received BS degrees in Biology and the Biological Basis of Behavior from the University of Pennsylvania.

Selected ePoster Discussions I

Carcinogenesis and Cancer Genetics

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

Thursday, May 17, 2018

12:15 pm - 1:15 pm

Gatlin Foyer Kiosk #1

Moderator: John Seykora, MD/PhD

- Drug resistance in basal cell carcinoma identifies the inner nuclear membrane as a critical GLI1 regulatory checkpoint.** A. Mirza, SA. McKeller and AE. Oro. Palo Alto, CA and Stanford, CA. 12:15 pm, Abstract #179
- KRAS regulation by small non-coding RNAs and SNARE proteins.** Y. Che and P. Khavari. Stanford, CA. 12:21 pm, Abstract #161
- Frequent basal cell cancer development is a clinical marker for inherited cancer susceptibility.** H. Cho, K. Kuo, S. Li, I. Bailey-Healy, S. Aasi, A. Chang, AE. Oro, E. Epstein, J. Tang and KY. Sarin. Stanford, CA; Redwood City, CA and Oakland, CA. 12:27 pm, Abstract #164
- Targeting of estrogen receptor- α 36 suppresses growth of cutaneous squamous cell carcinoma.** S. Freeman, Z. Wang and L. Hansen. Omaha, NE and Beijing, China. 12:33 pm, Abstract #215
- A skin cancer nursery: Hair follicles harbor epidermal neoplasms from immune surveillance.** B. Kubick and DR. Roop. Aurora, CO. 12:39 pm, Abstract #219
- Notch signaling modulates BCC persistence in response to anti-hedgehog therapy.** M. Eberl, A. Dlugosz and S. Wong. Ann Arbor, MI. 12:45 pm, Abstract #138
- Syk kinase activity is required for Δ Np63 α -driven nuclear c-Rel accumulation associated with Δ Np63 α /v-RasHA mediated carcinogenesis.** K. King, S. Park, W. Wilson, L. Ha, R. Ponnampuruma, N. Sakakibara, S. Jay and W. Weinberg. Silver Spring, MD and Bethesda, MD. 12:51 pm, Abstract #172
- RIPK4 maintains epidermal homeostasis and prevents skin cancer by suppressing mitogenic signaling.** G. Tanghe, C. Urwyler-Rösselet, P. De Groote, M. Devos, B. Gilbert, K. Lemeire, C. Blanpain, P. Vandenabeele and W. Declercq. Ghent, Belgium and Brussels, Belgium. 12:57 pm, Abstract #208
- Single-cell dynamics maintain an intrinsic drug-resistant state in cutaneous lymphoma.** H. Khan, S. Roy, A. Anshu, W. Kittipongdaja and SM. Schieke. Madison, WI and Milwaukee, WI. 1:03 pm, Abstract #218
- CCL21 induces mTOR-dependent malat-1 expression, leading to cell migration in cutaneous T cell lymphoma.** C. Hong, S. Lin and C. Lee. Kaohsiung, Taiwan. 1:09 pm, Abstract #151

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Selected ePoster Discussions I

Clinical Research: Epidemiology of Skin Diseases

Thursday, May 17, 2018

12:15 pm - 1:15 pm

Gatlin Foyer Kiosk #2

Moderator: Robert Dellavalle, MD/PhD

1. **Comparison of wage earnings between psoriasis patients on biologics versus oral therapies in the United States.** N. Ehsani-Chimeh, N. Salame and A. Armstrong. Los Angeles, CA and Irvine, CA. 12:15 pm, Abstract #292
2. **Antihypertensive medications and risk of keratinocyte carcinoma.** FM. Shaw, W. Li and MA. Weinstock. Providence, RI. 12:21 pm, Abstract #301
3. **Doxycycline effects on the gut and skin microbiomes and lipidome in acne.** K. Haas, M. Notay, W. Rodriguez, M. Rolston, A. Clark, W. Burney, J. Newman, T. Pedersen, R. Crawford, S. Dandekar and R. Sivamani. Davis, CA and Amherst, MA. 12:27 pm, Abstract #383
4. **Facial lentigines formation results from a complex interplay between solar ultraviolet radiation (sUVR) and ambient particulate matter (PM).** A. Hüls, D. Sugiri, K. Fuks, U. Krämer, J. Krutmann and T. Schikowski. Düsseldorf, Germany. 12:33 pm, Abstract #231
5. **Risk of nonmelanoma skin cancer after exposure to statin drugs: A report from the RADAR (Research on Adverse Drug events and Reports) project.** V. Singam, KA. Orrell, KR. Patel, S. Rastogi, RC. Kelm, SM. Rangel, AE. Laumann, DP. West and B. Nardone. Chicago, IL. 12:39 pm, Abstract #242
6. **Different prevalence of sensitization against galactose- α -1,3-galactose between Shimane and Miyagi in Japan.** O. Tsendendorj, Y. Chinuki, K. Ueda, K. Yamasaki, K. Kikuchi, Y. Ito, S. Aiba and E. Morita. Izumo, Shimane, Japan and Sendai, Miyagi, Japan. 12:45 pm, Abstract #249
7. **Comparison of psychological distress between psoriasis patients on biologic versus oral therapies: An epidemiologic study of moderate-to-severe psoriasis patients in the U.S.** N. Salame, N. Ehsani-Chimeh and AW. Armstrong. Irvine, CA and Los Angeles, CA. 12:51 pm, Abstract #252
8. **Atopic dermatitis: Prevalence and impact of disease severity on quality of life in US adults.** Z. Chiesa and P. Ong. Philadelphia, PA and Los Angeles, CA. 12:57 pm, Abstract #375
9. **Global melanoma burden: an update from the global burden of disease 2016 study.** BA. Urso, P. Hollingsworth, C. Aksut, C. Dunnick and RP. Dellavalle. Orlando, FL; Kent, OH; Denver, CO and Aurora, CA. 1:03 pm, Abstract #377
10. **Disparities in outpatient dermatologic health care access and utilization in the United States.** R. Tripathi, KD. Knusel and JS. Bordeaux. Cleveland, OH. 1:09 pm, Abstract #285

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Selected ePoster Discussions I

Epithelial Biology

Thursday, May 17, 2018

12:15 pm – 1:15 pm

Gatlin Foyer Kiosk #3

Moderator: My Mahoney, PhD

1. **Origin and functions of the corneocyte lipid envelope.** D. Crumrine, D. Khnykin, P. Krieg, M. Man, A. Celli, T. Mauro, G. Menon, E. Mauldin, J. Miner, A. Brash, E. Sprecher, F. Radner, K. Choate, DR. Roop, Y. Uchida, R. Gruber, M. Schmuth and P. Elias. San Francisco, CA; Oslo, Norway; Heidelberg, Germany; Philadelphia, PA; St. Louis, MO; Nashville, TN; Tel Aviv, Israel; Graz, Austria; New Haven, CT; Aurora, CO and Innsbruck, Austria. 12:15 pm, Abstract #655
2. **Biallelic COL7A1 editing in iPSCs via CRISPR/Cas9 for recessive dystrophic epidermolysis bullosa mutations.** J. Jackow, Z. Guo, H. Abaci, Y. Doucet, J. Shin, C. Hansen, J. Salas and A. Christiano. New York, NY and Monterrey, Mexico. 12:21 pm, Abstract #798
3. **Alternative splicing factor Esrp1 controls homeostasis of skins by regulating barrier formation and function.** S. Lee and R. Carstens. Philadelphia, PA. 12:27 pm, Abstract #647
4. **The effect of neutrophils on Th17 expansion is monocyte-dependent.** S. Lambert, A. Johnston, RP. Nair and JT. Elder. Ann Arbor, MI. 12:33 pm, Abstract #800
5. **Enhancer connectome functionally interrogates GWAS-identified intergenic SNPs associated with inflammatory skin conditions.** MY. Jeng, MR. Mumbach, JM. Granja, AT. Satpathy, H. Chang and A. Chang. Menlo Park, CA; Stanford, CA and Redwood City, CA. 12:39 pm, Abstract #823
6. **Functional genomic analysis of the IL2RA susceptibility region in alopecia areata.** A. Abdelaziz, S. Erjavec, L. Petukhova, S. Gelfman, I. Ionita-Laza and AM. Christiano. New York, NY. 12:45 pm, Abstract #824
7. **Safety outcomes for first-in-man intradermal injections of lentiviral-engineered COL7A1-supplemented autologous fibroblasts in adults with recessive dystrophic epidermolysis bullosa.** SM. Lwin, F. Syed, W. Di, A. Petrova, T. Kadiyirire, JE. Mellerio, A. Hovnanian, W. Qasim and J. McGrath. London, England, United Kingdom and Paris, France. 12:51 pm, Abstract #738
8. **Suprabasal acantholytic blisters in oral mucosa caused by homozygous nonsense mutation in desmoglein 3 gene.** J. Kim, S. Kim, H. Park, S. Lee, S. Lee and S. Kim. Seoul, Republic of Korea. 12:57 pm, Abstract #739
9. **TALEN-mediated inactivation of dominant-negative keratin alleles results in the formation of a stable functional cytoskeleton and phenotypic alleviation of epidermolytic ichthyosis.** OP. March, T. Kocher, T. Lettner, M. Ablinger, N. Lackner, S. Hainzl, P. Peking, M. Aushev, U. Koller and J. Reichelt. Salzburg, Austria, and Newcastle, England, United Kingdom. 1:03 pm, Abstract #813
10. **Systemic delivery of HMGB1 promotes tissue regeneration by activating PDGFR α cells in a mouse model of epidermolysis bullosa.** T. Shimbo, E. Sasaki, T. Kitayama, S. Yamazaki, M. Nishida, Y. Ouchi, R. Yamamoto, L. Bruckner-Tuderman, J. Uitto, Y. Kikuchi, I. Katayama, Y. Kaneda and K. Tamai. Osaka, Japan; Freiburg, Germany and Philadelphia, PA. 1:09 pm, Abstract #843

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Selected ePoster Discussions I

Innate Immunity, Microbiology, Inflammation

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

Thursday, May 17, 2018

12:15 pm - 1:15 pm

Gatlin Foyer Kiosk #4

Moderator: Heidi Kong, MD

1. **β -Defensin 103 characterizes a distinct molecular phenotype of human acral melanoma, by its correlated expression with IL-17A & IFN γ -mediated immune genes, as well as MC1R-mediated pigmentation signatures.** J. Kim, J. Lee, A. Kim, J. Jeon, C. Oh, S. Seo, I. Kim and J.G. Krueger. New York, NY and Seoul, Republic of Korea. 12:15 pm, Abstract #888
2. **Pathogenic role for KLK5 LL37 pDC type I interferon axis linking *B. oleronius* to flare ups of rosacea.** A. Mylonas, H. Hawerkamp, Y. Wang, S. Meller, B. Homey, J. Di Domizio, M. Gilliet, A. Hovnanian and C. Conrad. Lausanne, Switzerland; Düsseldorf, Germany and Paris, France. 12:21 pm, Abstract #931
3. **Targeted activation of lymphatic vessels in inflamed skin potently inhibits skin inflammation.** S. Schwager, S. Zraggen, T. Hemmerle, S. Proulx, C. Halin, D. Neri and M. Detmar. Zurich, Switzerland. 12:27 pm, Abstract #936
4. **STAT3 deficiency in keratinocytes promotes serum IgE production in response to *Staphylococcus aureus* epicutaneous exposure.** H. Liu, N. Archer, C. Dillen, Y. Wang, R. Ortines, E. Zhang, R. Miller, M. Marchitto and L.S. Miller. Baltimore, MD. 12:33 pm, Abstract #946
5. **Deep mining of the diversity of eukaryotic viruses colonizing human skin.** O. Tirosh, S. Conlan, C. Deming, C. Ng, S. Lee-Lin, N. Program, A. Freeman, H. Su, J. Segre and H. Kong. Bethesda, MD. 12:39 pm, Abstract #972
6. **Inflammasome signaling and translocation of apoptotic speck-like protein containing a caspase activation and recruitment domain (ASC) in psoriatic keratinocytes.** S. Cai, K.S. Robinson, E. Tan, H. Tey, B. Reversade and F. Zhong. Singapore, Singapore. 12:45 pm, Abstract #901
7. **Keratinocyte alpha7 nicotinic acetylcholine receptor (CHRNA7) is the primary nicotinic receptor involved in impaired TLR2-dependent innate immunity: implications for AD pathogenesis and infection.** L. Mac-Daniel, M. Kishibe, M. Denning and K.A. Radek. Maywood, IL and Asahikawa, Hokkaido, Japan. 12:51 pm, Abstract #937
8. **Intracellular TLR7/9 signalling in infected dendritic cells is responsible for the generation of protective immunity against *Leishmania major*.** S. Lopez Kostka, B. Lorenz, K. Dietze-Schwonberg, B. Clausen and E. von Stebut. Mainz, Germany and Cologne, Germany. 12:57 pm, Abstract #986
9. **ATP from human keratinocytes by mechanical stretching is one of the causes of Koebner phenomenon.** T. Okamoto, Y. Ogawa, S. Shimada and T. Kawamura. Chuo, Yamanashi, Japan. 1:06 pm, Abstract #969
10. **Targeting metabolism reprogramming of keratinocytes improves psoriasis-like skin inflammation.** F. Lou, Y. Sun and H. Wang. Shanghai, China. 1:09 pm, Abstract #990

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Selected ePoster Discussions I

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.

Thursday, May 17, 2018

12:15 pm – 1:15 pm

Gatlin Foyer Kiosk #5

Moderator: Neil Rajan, MD/PhD

1. **Necroptosis is a novel way of melanocyte death in oxidative-related vitiligo pathogenesis.** B. Li, X. Yi, W. Guo, S. Li, J. Chen, L. Liu, C. Li and T. Gao. Xi'an, Shaanxi, China. 12:15 pm, Abstract #1268
2. **The expression of phosphatidylinositol glycan, class K gene (PIGK) correlates with tyrosinase activity in human melanocytes.** K. Okamura, M. Hayashi, Y. Abe, Y. Araki, Y. Hozumi and T. Suzuki. Yamagata, Japan. 12:21 pm, Abstract #1271
3. **Ex-vivo evaluation of cytotoxicity and melanocyte viability of Fitzpatrick V skin after A-101 hydrogen peroxide topical solution 40% or cryosurgery treatment in Seborrheic Keratosis lesions.** S. Kao, A. Kiss, T. Efimova and A. Friedman. Washington, DC. 12:27 pm, Abstract #1281
4. **Somatic GNAQ mutation in different structures of Port-wine Macrocheilia.** G. Ma, F. Liu, R. Cai, Y. Liu and X. Lin. Shanghai, China. 12:33 pm, Abstract #1283
5. **Enhanced susceptibility to UVR induced damage in skin melanocytes from hispanic donors.** A. Dasgupta, VM. Harvey and J. Chan. Hampton, VA. 12:39 pm, Abstract #1287
6. **Activation Of RHOJ signaling in human hair follicle bulge melanocytes is a key-factor In NBUBV induction of vitiligo repigmentation.** N. Goldstein, J. Pakieser, M. Wright, C. Caldwell, A. Krug, M. Koster, K. Jones, B. Gao, B. Ward, S. Venkataraman, K. Lambert, Y. Shellman, M. Fujita, DR. Roop, D. Norris and S. Birlea. Aurora, CO. 12:45 pm, Abstract #1187
7. **CCN1/Cyr61 stimulates melanogenesis through integrin $\alpha 6 \beta 1$, p38 MAPK and ERK1/2 signaling pathways in normal human epidermal melanocytes (NHEMs).** Z. Xu, L. Chen, M. Jiang, Q. Wang, C. Zhang and L. Xiang. Shanghai, China. 12:51 pm, Abstract #1177
8. **Demethylation of TRPM2 induced by oxidative stress triggers mitochondria-dependent apoptosis of melanocytes.** P. Kang, S. Li, X. Chen, G. Wang, T. Gao and C. Li. Xi'an, Shaanxi, China. 12:57 pm, Abstract #1190
9. **Despite abnormal vitamin D receptor expression in keloid scars, keloid keratinocytes can respond to vitamin D treatment in vitro.** DM. Supp and JM. Hahn. Cincinnati, OH. 1:03 pm, Abstract #1290

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

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Selected ePoster Discussions I

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.

Thursday, May 17, 2018

12:15 pm - 1:15 pm

Gatlin Foyer Kiosk #6

Moderator: Alexander Marneros, MD/PhD

1. **Single-cell transcriptomics of human mesenchymal stem cells reveal age-related cellular subpopulation depletion and impaired regenerative gene expression.** S. Khong, M. Lee, D. Khong, N. Kosaric, D. Duscher, Y. Dong, R. Schäfer and G. Gurtner. Palo Alto, CA; Boston, MA; Cambridge, MA and Tübingen, Germany. 12:15 pm, Abstract #1407
2. **A novel S100A8/A9 induced fingerprint of mesenchymal stem cells is associated with enhanced wound healing.** A. Basu, S. Munir, M. Mulaw, K. Singh, B. Herold, D. Crisan, A. Sindrilaru, N. Treiber, M. Wlaschek, M. Huber-Lang, F. Gebhard and K. Scharffetter-Kochanek. Ulm, Germany. 12:21 pm, Abstract #1422
3. **Atopic cytokines IL4/13 perturb iPSC-derived itch-specific sensory neurons.** Z. Guo, C. Tong, Y. Doucet, H. Abaci, J. Jackow, W. Zeng, C. Hansen, E. Lumpkin and A. Christiano. New York, NY. 12:27 pm, Abstract #1446
4. **Development of immune-competent human skin constructs to model inflammatory skin diseases.** J. Shin, H. Abaci, Z. Guo, F. Magrelli, A. Pappalardo, Y. Doucet, J. Jackow and A. Christiano. New York, NY. 12:33 pm, Abstract #1448
5. **Mesenchymal stem cells sense and shape their environment at the wound site.** S. Munir, K. Singh, A. Basu, F. Ferreira and K. Scharffetter-Kochanek. Ulm, Germany. 12:39 pm, Abstract #1413
6. **Mechanical tension regulates exosome production by fibroblasts to influence heterogeneity in cutaneous scarring.** A. Blum, N. Templeman, H. Li, X. Wang, P. Bollyky, S. Keswani and S. Balaji. Houston, TX and Stanford, CA. 12:45 pm, Abstract #1464
7. **Capillaries just below the epidermis control dermal elasticity.** Y. Matsumoto, Y. Hara and K. Kajiya. Yokohama, Kanagawa, Japan. 12:51 pm, Abstract #1397
8. **High-glucose environment induces M1 macrophage polarization that impairs keratinocyte migration via TNF- α : A novel therapeutic approach promoting diabetic wound healing.** C. Lan, S. Huang and C. Wu. Kaohsiung, Taiwan. 12:57 pm, Abstract #1403
9. **Role of fibroblast DPP4 in wound healing, scarring and regeneration.** RA. Ferrer, MD. Ordieres, S. Franz, Y. Zhen, G. Cotsarelis and JC. Simon. Leipzig, Germany and Philadelphia, PA. 1:03 pm, Abstract #1434
10. **Hair-follicle-associated pluripotent (HAP) stem cells captured on polyvinylidene fluoride membranes promote functional recovery of spinal cord injury.** K. Obara, N. Tohgi, K. Shirai, S. Mii, Y. Hamada, N. Arakawa, R. Aki, RM. Hoffman and Y. Amoh. Sagamihara, Kanagawa, Japan and San Diego, CA. 1:09 pm, Abstract #1394

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IID 2018

ESDR Rudi Cormane Lecture

Above and Beyond: New Frontiers in Cutaneous Immunology

Thursday, May 17, 2018

2:00 pm - 2:30 pm

Gatlin D-E

Introduction by:

Matthias Schmuth, MD



Tilo Biedermann, MD

TUM School of Medicine, Munich, Germany

Dr. Biedermann is the Chair of Dermatology and Allergy at TUM School of Medicine, Munich, Germany. The research of Professor Biedermann focuses on the biology of the skin and different levels of immune regulation from innate to adaptive immunity and including tumor immunology, microbial driven inflammation and tolerance in eczema, autoimmunity and allergies. His research activities range from basic research to translating his findings into clinical applications. Professor Biedermann studied medicine at LMU Munich where he also completed his training leading to German medical board certification in dermatology and allergology. During this time he joined the immunology research group of Professor Röcken. As a recipient of a DFG grant he then went to Vienna where he acquired his postdoctoral teaching qualification (habilitation) in 2001. In 2003 he was appointed to a C3 professorship position in the Department of Dermatology at the University Hospital of Tübingen where he stayed until 2014. In 2014 he was appointed Professor (W3) and head of department at the TUM School of Medicine. He has been president of the ESDR and at present he is Secretary General of the German Society of Dermatology.

LECTURESHIP HISTORY

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

JSID Tanioku Kihei Memorial Lecture

Environment and Skin

Thursday, May 17, 2018

2:30 pm - 3:00 pm

Gatlin D-E

Introduction by:

Akimichi Morita, MD/PhD



Jean Krutmann, MD

University Hospital for Dermatology, Düsseldorf, Germany

Jean Krutmann, MD was born in 1959 in Germany and obtained his MD from the University of Münster in 1986. After several stays abroad (postdoc at Case Western Reserve University, Cleveland, Ohio, USA and DFG stipend at the University Hospital for Dermatology in Vienna, Austria) he became Resident/Assistant/Associate Professor at the University Hospital for Dermatology in Freiburg, Germany. From 1994 until 2001 he was Full Professor/Deputy Director of the University Hospital for Dermatology Düsseldorf, Germany. In 2001 he was appointed Chair of Environmental Medicine at the Medical Faculty of Heinrich Heine University Düsseldorf and thereby also Director of IUF. Under his directorship in 2011 the institute became a member of the Leibniz Association and was renamed IUF - Leibniz Research Institute for Environmental Medicine.

His research focuses on dermatotoxicology, immunodermatology and photodermatology with a special emphasis on environmentally-induced skin diseases and skin aging. His scientific contributions include the development of UVA1 phototherapy, the discovery that infrared A radiation and air pollution contribute to skin aging, and that the aryl hydrocarbon receptor is involved in skin stress responses including photocarcinogenesis. He is author/coauthor of more than 400 contributions to scientific journals and books as well as editor of 8 textbooks.

Jean Krutmann was awarded several national and international prizes: Arnold Rikli Award, Albrecht Fleckenstein Award, Paul Gerson Unna Award, Oscar Gans Award, CE.R.I.E.S. Research Support Award and the Dermopharmacy Innovation Award. Since 2010, he is member of the Leopoldina, the German National Academy of Science. Since 2012, he is coordinator of the Leibniz Research Alliance "Healthy Ageing". He is also Visiting / Adjunct Professor at CWRU, Cleveland, Ohio, USA, at Nagoya City University, Nagoya, Japan, and at Fudan University, Shanghai, China.

LECTURESHIP HISTORY

The Tanioku Kihei Memorial Award was established through contributions from dermatologists from Okayama University, in honor of the late Kihei Tanioku, professor emeritus of Okayama University, who aided in the Society's founding. The Award is presented every year at the Meeting of the Japanese Society for Investigative Dermatology or the Meeting of the International Investigative Dermatology to a domestic or foreign researcher who has made noteworthy lifetime achievements in dermatology or closely related research fields.

Concurrent Mini-Symposium 1

Carcinogenesis and Cancer Genetics

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

Thursday, May 17, 2018

3:15 pm - 5:45 pm

Panzacola F-3/4

Presiders: Fu-Tong Liu, MD/PhD
Eli Sprecher, MD/PhD
Kenneth Tsai, MD/PhD

1. **Single-cell RNA-sequencing reveals SCC intratumoral heterogeneity.** A. Ji, A. Rubin, S. Hollmig, S. Aasi and P. Khavari. Stanford, CA. 3:15 pm, Abstract #182
2. **Nucleoporins are frequently mutated in SCCIS and loss of function promotes UV-induced neoplasia.** Q. Zheng, X. Yang, H. Maeno, C. Marshall, S. Prouty, C. O'Day, C. Yeh, V. Anagnos, A. Chen, P. Barriera, H. Bashir, M. Pack, M. Capelson and J. Seykora. Philadelphia, PA. 3:27 pm, Abstract #213
3. **Master regulators of immune infiltrate recruitment improve efficacy of immune checkpoint inhibitor therapy in melanomas.** J. Chen, R. Perez-Lorenzo and A. Christiano. New York, NY. 3:39 pm, Abstract #216
4. **TGF β inhibition enhances the antitumor response to PD-L1 blockade in Smad4-mutant squamous cell carcinoma.** A. Strait and X. Wang. Denver, CO. 3:51 pm, Abstract #176
5. **Postnatal initiation of MCC-like tumor development in mice co-expressing Merkel cell polyomavirus T antigens and ATOH1.** M. Verhaegen, D. Mangelberger, P. Harms, D. Wilbert, H. Zabawa, J. Van Goor, M. Kelly, P. Chen and A. Dlugosz. Ann Arbor, MI; Bethesda, MD and Atlanta, GA. 4:03 pm, Abstract #195
6. **MRTF inhibition displays promising therapeutic potential in human BCC patient explants.** R.J. Whitson, A. Mirza, C.Y. Yao, S.A. McKeller, S. Hollmig, S. Aasi, K.Y. Sarin, J. Tang and A.E. Oro. Palo Alto, CA and Stanford, CA. 4:15 pm, Abstract #210
7. **Characterizing the accessible chromatin landscape of resistant basal cell carcinoma.** C.Y. Yao, R.J. Whitson, G. Shankar and A.E. Oro. Stanford, CA and Palo Alto, CA. 4:27 pm, Abstract #225
8. **Regulation of keratinocyte differentiation and proliferation by heterotrimeric G proteins.** P. Pedro, N. Salinas Parra and R. Iglesias-Bartolome. Bethesda, MD. 4:39 pm, Abstract #144
9. **Bromodomain-containing proteins BRD7 and BRD9 are novel interacting regulators of BCC resistance.** A.L. Kim, G.C. Jin, Y. Zhu and D.R. Bickers. New York, NY. 4:51 pm, Abstract #227
10. **IL-33 - T regulatory cell axis triggers development of a cancer-promoting immune environment in chronic inflammation.** A. Ameri, S. Moradi Tuchayi, A. Zaalberg, K. Ngo, T. Cunningham, M. Colonna, D. Mathis, R. Lee and S. Demehri. Boston, MA; Memphis, TN and St. Louis, MO. 5:03 pm, Abstract #132
11. **ARP-T1 is a protein associated with a novel ciliopathy in inherited basal cell cancer of Bazex-Dupré-Christol Syndrome.** H. Park, E. Chiticariu, D. Bachmann, A. Smahi, P. Vabres, M. Huber and D. Hohl. Lausanne, Switzerland; Paris, France and Dijon, France. 5:15 pm, Abstract #205
12. **Mutational landscape of extramammary Paget disease.** Y. Ishida, N. Iga, A. Otsuka and K. Kabashima. Kyoto, Japan. 5:27 pm, Abstract #131

Concurrent Mini-Symposium 2

Clinical Research: Epidemiology of Skin Diseases

Thursday, May 17, 2018

3:15 pm – 5:45 pm

Panzacola F-1/2

Presiders: Norito Katoh, PhD
Joseph Merola, MD
Tamar Nijsten, MD/PhD

1. **RNA-seq genomic analysis demonstrated the molecular efficacy of Risankizumab in a moderate-to-severe plaque psoriasis phase 2 clinical study.** T. Pakozdi, R. Georgantas, K. Grebe and W. Davis. North Chicago, IL and Worcester, MA. 3:15 pm, Abstract #350
2. **Patterns of atopic eczema activity in childhood and adulthood: Results from 2 national prospective British cohort studies.** M. Ye, Y. Yew, SM. Langan and K. Abuabara. San Francisco, CA; Singapore, Singapore and London, England, United Kingdom. 3:27 pm, Abstract #247
3. **Histological subtype and anatomical location in pediatric malignant melanoma (MM): A population-based study from the surveillance, epidemiology, and end results (SEER) program.** RC. Kelm, Y. Ali, KA. Orrell, SM. Rangel, LL. Kruse, A. Wagner, P. Gerami, DP. West and B. Nardone. Chicago, IL. 3:39 pm, Abstract #290
4. **Severe and predominantly active adult atopic eczema is a risk factor for cardiovascular disease: a UK population-based cohort study.** R. Silverwood, H. Forbes, K. Abuabara, S. Schmidt, M. Schmidt, A. Ascott, L. Smeeth and SM. Langan. London, England, United Kingdom; San Francisco, CA; Aarhus, Denmark and Brighton, England, United Kingdom. 3:51 pm, Abstract #372
5. **Nevus count is an independent risk factor for basal cell carcinoma and melanoma, but not squamous cell carcinoma.** EX. Wei, X. Li and H. Nan. Boston, MA and Indianapolis, IN. 4:03 pm, Abstract #233
6. **Epidemiological characteristics and anatomical presentation of cutaneous malignant melanoma in Canada: 19-Year analysis.** FM. Al Ghazawi, E. Rahme, S. Glassman, D. Sasseville and I. Litvinov. Kanata, ON, Canada; Montreal, PQ, Canada and Ottawa, ON, Canada. 4:15 pm, Abstract #236
7. **The risk of keratinocyte carcinoma (KC) in psoriasis patients receiving biologic therapy compared to conventional systemic therapy: Results from The British Association of Dermatologists Biologic Interventions Register (BADBIR).** KJ. Mason. Manchester, England, United Kingdom. 4:27 pm, Abstract #238
8. **Prevalence of dementia in psoriasis patients: A cross-sectional study in a large US population.** KN. Mitchell, Y. Ali, R. Yousif, K. Ramsey, S. Amin, AE. Laumann, DP. West and B. Nardone. Chicago, IL. 4:39 pm, Abstract #241
9. **Early detection of chemotherapeutic skin toxicities in social health networks using deep learning.** JD. Ransohoff, A. Nikfarjam, B. Kwong, N. Shah and KY. Sarin. Stanford, CA and Palo Alto, CA. 4:51 pm, Abstract #248
10. **Modeling the value of risk stratified skin cancer screening by dermatologists in the U.S. population.** R. Hartman, Y. Xue, T. Markossian, C. Joyce and A. Mostaghimi. Boston, MA and Chicago, IL. 5:03 pm, Abstract #253
11. **A genome-wide association study identifies a novel susceptibility locus for total IgE in a Japanese population from Tohoku Medical Megabank cohort study.** K. Shido, K. Kojima, K. Yamasaki, O. Gervais, W. Yen, M. Nagasaki and S. Aiba. Sendai, Miyagi, Japan. 5:15 pm, Abstract #299
12. **Risk of myocardial infarctions is increased in patients with neurofibromatosis type 1.** S. Peltonen, R. Kallionpää, H. Ylä-Outinen and J. Peltonen. Turku, Finland. 5:27 pm, Abstract #278

Concurrent Mini-Symposium 3

Innate Immunity, Microbiology, Inflammation

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

Thursday, May 17, 2018

3:15 pm - 5:45 pm

Gatlin D-E

Presiders: Lloyd Miller, MD/PhD
Kerstin Steinbrink, MD
Sayuri Yamazaki, MD/PhD

1. **Retinoids improve innate immune defense by enhancing reactive dermal adipogenesis.** MC. Liggins, L. Zhang and RL. Gallo. San Diego, CA and La Jolla, CA. 3:15 pm, Abstract #885
2. **Neonatal priming shapes preferential capacity for immune tolerance to skin commensal vs. pathogenic bacteria.** JM. Leech, K. Chu, EG. Leitner, JJ. Moon, BA. Diep and TC. Scharschmidt. San Francisco, CA and Boston, MA. 3:27 pm, Abstract #925
3. **Innate antiviral immunity is activated upon skin injury via an IL-27/STAT1 axis.** J. Kwock, C. Handfield, J. Suwanpradid, P. Hoang, L. Pontius, J. Maycock and A. MacLeod. Durham, NC. 3:39 pm, Abstract #926
4. **ILC2s and Type 2 immunity influence hair follicle stem cell proliferation and skin homeostasis.** R. Ricardo-Gonzalez, S. Van Dyken and R. Locksley. San Francisco, CA. 3:51 pm, Abstract #940
5. **Origin of type 2 innate lymphoid cells in the skin.** J. Lee, C. Schneider, H. Liang, R. Ricardo-Gonzalez, J. Nussbaum, L. Smith, S. Villeda and R. Locksley. San Francisco, CA. 4:03 pm, Abstract #1021
6. **Ablation of basophils reduces ILC2-dependent atopic dermatitis-like inflammation in mice overexpressing interleukin-33 in the skin.** Y. Imai, M. Nagai, M. Kusakabe, K. Yasuda, K. Nakanishi, T. Yoshimoto and K. Yamanishi. Nishinomiya, Hyogo, Japan. 4:15 pm, Abstract #902
7. **Tmem79 deficient mice sequentially develop dermatitis associated with S.aureus non-dominant and dominant dysbioses.** T. Sasaki, A. Shiohama, K. Matsuda, H. Watanabe, T. Yamada, H. Kawasaki, A. Kubo and M. Amagai. Tokyo, Japan. 4:27 pm, Abstract #942
8. **Synergistic effect of EGFR/MEK inhibitors and Propionibacterium acnes in the induction of IL-36γ-mediated cutaneous adverse reactions.** TK. Satoh, M. Mellett, E. Contassot and LE. French. Zurich, Switzerland. 4:39 pm, Abstract #970
9. **Type I immunity induces a senescence-like growth arrest in malaria parasites.** D. Sossau, D. Mazier and M. Rocken. Tübingen, Germany and Paris, France. 4:51 pm, Abstract #1008
10. **Peripheral nerves are involved in the development of Staphylococcus aureus-induced skin inflammation possibly via recruiting basophils.** C. Nakashima, A. Otsuka and K. Kabashima. Kyoto, Japan. 5:03 pm, Abstract #927
11. **Adaptive responses to skin microbe control the pathogenesis of experimental psoriasis.** C. Hurabielle, S. Nakajima, S. Han, O. Harrison, S. Tamoutounour, E. Merrill, M. Lionakis, MJ. Kaplan and Y. Belkaid. Bethesda, MD and Kyoto, Japan. 5:15 pm, Abstract #953
12. **Endoplasmic reticulum stress defines immature myeloid cell functional plasticity in leprosy.** K. Kelly-Scumpia and R. Modlin. Los Angeles, CA. 5:27 pm, Abstract #1025

Concurrent Mini-Symposium 4

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.

Thursday, May 17, 2018

3:15 pm – 5:45 pm

Conway

Presiders: Donald Glass, MD/PhD
Julien Seneschal, MD/PhD
Tamio Suzuki, MD/PhD

1. **The potential of patient iPSC-derived melanocytes in vitiligo therapy.** L. Liu and Y. Li. Zhenjiang, Jiangsu, China. 3:15 pm, Abstract #1274
2. **Ethnic differences and comorbidities of 909 Prurigo nodularis patients: A cohort study at Johns Hopkins Hospital.** E. Boozalis, O. Tang, S. Patel, YR. Semenov and S. Kwatra. Baltimore, MD and St. Louis, MO. 3:27 pm, Abstract #1273
3. **Oxidative stress induced melanocytes release of HMGB1 is critical for keratinocyte production of proinflammatory cytokines in vitiligo.** T. Cui, P. Song, W. Zhang, S. Li, X. Yi, Z. Jian, L. Liu, T. Gao and C. Li. Xian, Shaanxi, China. 3:39 pm, Abstract #1276
4. **Atopic dermatitis in African American patients is T_H2/T_H22-driven with T_H1/T_H17 attenuation and downregulation of loricrin.** RD. Sanyal, AB. Pavel, TC. Chan, X. Zheng, J. Glickman and E. Guttman-Yassky. New York, NY and Taipei, Taiwan. 3:51 pm, Abstract #1285
5. **Aging in skin of color: Organization of the dermal matrix impacts skin function.** AK. Langton, S. Alessi, AL. Chien, S. Kang, CEM. Griffiths and REB. Watson. Manchester, England, United Kingdom and Baltimore, MD. 4:03 pm, Abstract #1277
6. **Comparative study of the immunological profile in stable segmental and non segmental vitiligo patients undergoing melanocyte keratinocyte transplantation.** MA. Refat, JP. Strassner, ML. Frisoli, M. Rashighi, E. Nada, R. Saleh, M. Ali, B. Mahmoud, D. Goldberg and JE. Harris. Worcester, MA and Cairo, Egypt. 4:15 pm, Abstract #1292
7. **Recent and independent emergences of population-specific enhancer eQTLs that modulate Involucrin gene expression for human skin barrier calibration.** E. Brettmann, Z. Goodwin, A. Quiggle and C. de Guzman Strong. St. Louis, MO. 4:27 pm, Abstract #724
8. **Stem cell factor dictates the distribution of melanogenic melanocytes in the skin.** C. Liao and L. Le. Dallas, TX. 4:39 pm, Abstract #1286
9. **CD26⁺ FAP⁺ fibroblasts increase ECM expression in keloid scarring.** S. Meidinger, A. Brooks, K. Lehnert, V. Feisst, M. Locke and R. Dunbar. Auckland, New Zealand. 4:51 pm, Abstract #1289
10. **Gender and racial differences in patient perception of pruritus: Evidence from a single institution and National Ambulatory Medical Care Survey data.** KA. Whang and SG. Kwatra. Baltimore, MD. 5:03 pm, Abstract #1296
11. **Approach for the derivation of melanocytes from induced pluripotent stem (iPS) cells.** T. Kawakami, M. Itoh and K. Jimbow. Kawasaki, Kanagawa, Japan; Tokyo, Japan and Sapporo, Hokkaido, Japan. 5:15 pm, Abstract #1269
12. **Fibroproliferative genes are preferentially expressed in central centrifugal cicatricial alopecia.** C. Aguh, O. Dina and L. Garza. Baltimore, MD. 5:27 pm, Abstract #1270

Concurrent Mini-Symposium 5

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.

Thursday, May 17, 2018

3:15 pm – 5:45 pm

Panzacola G-1

Presiders: Andrew Baird, PhD
Edel O'Toole, MD/PhD
Katsuto Tamai, MD/PhD

- Dynamic morphogen-p63 chromatin interactions that guide epigenetic changes and p63 activity in surface ectoderm commitment.** J. Pattison, S. Melo, S. Piekos, J. Torkelson, MR. Mumbach, A. Rubin, L. Li, H. Zhen, H. Chang, P. Khavari and AE. Oro. Stanford, CA and Palo Alto, CA. 3:15 pm, Abstract #1435
- Unique transcriptional signature primes oral mucosa for rapid wound healing in humans.** R. Iglesias-Bartolome, A. Uchiyama, R. Graf, AA. Molinolo, L. Abusleme, SR. Brook, J. Callejas-Valera, D. Edwards, C. Doci, M. Asselin-Labat, MW. Onaitis, N. Moutsopoulos, J. Gutkind and MI. Morasso. Bethesda, MD and La Jolla, CA. 3:27 pm, Abstract #1395
- Induction of human hair growth using vascularized 3D hair follicle constructs.** H. Abaci, A. Coffman, Y. Doucet, J. Chen, J. Jackow, E. Wang, Z. Guo and A. Christiano. New York, NY. 3:39 pm, Abstract #1415
- Topical glucosylceramide synthase inhibitor speeds wound healing in diabetic mice.** I. Fogel, MI. Guerrero-Zayas, XQ. Wang, X. Cheng and A. Paller. Chicago, IL. 3:51 pm, Abstract #1421
- Regulation of skin regeneration by non-coding RNA sensing.** N. Islam, R. Silverman and L. Garza. Baltimore, MD and Cleveland, OH. 4:03 pm, Abstract #1450
- The role of cutaneous nerves in skin regeneration by live imaging.** S. Huang, M. Brewster, Q. Zheng, T. Dentchev, E. Grice, B. Capell and P. Rompolas. Philadelphia, PA. 4:15 pm, Abstract #1452
- Optimization/characterization of a Focal Dermal Hypoplasia mouse model to test potential treatments.** D. Chiluliza, P. Hsieh and S. Divito. Boston, MA. 4:27 pm, Abstract #1465
- Activation of nociceptive fibers following acute skin injury triggers innate antiviral immunity.** C. Handfield, J. Kwock, P. Hoang, J. Suwanpradid, Q. Han, R. Ji and A. MacLeod. Durham, NC. 4:39 pm, Abstract #1401
- Non-coding double stranded RNA induces retinoic acid synthesis and retinoid signaling to control regeneration.** D. Kim, R. Chen, S. Kim, A. Park, B. Evans, V. Yu, E. Oh, LS. Miller, S. Kang, G. Ghaur, J. Yu, W. Huang, M. Kane and L. Garza. Baltimore, MD. 4:51 pm, Abstract #1410
- Mapping the establishment of fibroblast heterogeneity during skin development and wound repair.** RR. Driskell and L. Salz. Pullman, WA. 5:03 pm, Abstract #1424
- Recombinant TSG-6 restores defects in inflammation during cutaneous wound healing in TSG-6 null mice.** S. Shakyia, JA. Mack and EV. Maytin. Cleveland, OH. 5:15 pm, Abstract #1449
- The role of microRNA-34 in skin wound healing.** J. Wu, X. Li, D. Li, E. Herter, M. Qian, J. Wikström, X. Ye and N. Xu Landén. Stockholm, Sweden; Wenzhou, China and Shanghai, China. 5:27 pm, Abstract #1453

Concurrent Mini-Symposium 6

Interdisciplinary Spotlight: Autophagy/Aging

Abstracts with an emphasis on the mechanisms and biological implications of intracellular degradation and aging.

Thursday, May 17, 2018

3:15 pm - 5:45 pm

Panzacola G-2

Presiders: Chris Griffiths, MD
Robert Modlin, MD
Daisuke Tsuruta, MD

1. **Secretion of TGFβ1 by fibroblasts and macrophages is executed by secretory autophagy.** J. Nuechel, S. Ghatak, A. Zuk, A. Illerhaus, M. Moergelin, G. Sengle, T. Krieg, M. Plomann and B. Eckes. Cologne, Germany and Lund, Sweden. 3:15 pm, Abstract #867
2. **The mitophagy receptor NIX induces mitochondrial fragmentation during epidermal differentiation in an LC3-independent manner.** C. Simpson and ELF. Holzbaur. Philadelphia, PA. 3:27 pm, Abstract #668
3. **Keratinocyte cornification requires autophagy for efficient degradation of non-cytoskeletal proteins.** K. Jaeger, S. Sukserree, S. Zhong, V. Mlitz, E. Tschachler, RH. Rice and L. Eckhart. Vienna, Austria and Davis CA. 3:39 pm, Abstract #1344
4. **Autophagy pathways regulate UV-induced skin tumorigenesis through promoting protumorigenic inflammatory microenvironment.** L. Qiang, A. Sample, P. Shah, C. Shea, K. Soltani, K. Macleod and Y. He. Chicago, IL. 3:51 pm, Abstract #1168
5. **Lysosomes support the degradation, signaling, and mitochondrial metabolism necessary for human epidermal differentiation.** C. Monteleon, T. Agnihotri, A. Dahal, M. Liu, V. Rebecca, G. Beatty, R. Amavaradi and T. Ridky. Philadelphia, PA. 4:03 pm, Abstract #644
6. **Role of the autophagy protein, Syntaxin 17 (STX17), in melanogenesis and alopecia areata.** S. Erjavec, A. Abdelaziz, A. Patel, L. Petukhova and A. Christiano. New York, NY. 4:15 pm, Abstract #827
7. **Functional role of merkel cell polyomavirus T-antigen regulated microRNAs in merkel cell carcinoma.** S. Kumar, H. Xie, H. Shi, L. Lee, V. Björnhagen, A. Höög, C. Larsson and W. Lui. Stockholm, Sweden and Tianjin, China. 4:27 pm, Abstract #134
8. **Keratinocyte autophagy regulates wound healing through MCP-1-mediated keratinocyte migration and fibroblast activation.** S. Yang, L. Qiang, P. Shah and Y. He. Chicago, IL. 4:39 pm, Abstract #1463
9. **Aging suppresses skin-derived circulating SDF1 to promote full-thickness tissue regeneration.** MH. Nishiguchi, C. Spencer and T. Leung. Philadelphia, PA. 4:51 pm, Abstract #1425
10. **Reversal of UV-induced skin inflammation by vitamin D via activation of KLF4-PPARγ pathway to promote macrophage polarization.** LM. Das, ZP. Traylor, AM. Binko and KQ. Lu. Cleveland, OH. 5:03 pm, Abstract #1445
11. **Age-dependent loss of the stemness and antimicrobial defense function of dermal fibroblasts is mediated by TGFβ.** L. Zhang, CF. Guerrero-Juarez, F. Li, S. Chen, T. Yun, M. Li, T. Hata, M. Plikus and R.L. Gallo. La Jolla, CA; Irvine CA; San Diego, CA and Nanjing, Jiangsu, China. 5:15 pm, Abstract #1325
12. **Advanced age impairs self-renewal and biases fate choice of hair follicle dermal stem cells.** W. Shin, W. Rahmani, S. Sinha, S. Abbasi, J. Stratton and J. Biernaskie. Calgary, AB, Canada. 5:27 pm, Abstract #1314

Imaging in Cutaneous Biology Workshop

Thursday, May 17, 2018

6:00 pm – 7:30 pm

Panzacola G-2

6:00 pm **Introductions: John Seykora, MD/PhD**

6:05 pm **Masayuki Amagai, MD/PhD**

Keio University, Tokyo, Japan



3D in Vivo Imaging of Skin Barrier

Masayuki Amagai, MD/PhD is Professor and Chair, Department of Dermatology, Keio University School of Medicine (2005-), and Dean, Keio University School of Medicine (2017-). He is also Team Leader, Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences (2013-). He did a postdoctoral fellowship at Dermatology Branch, NCI, NIH with guidance of Dr. John R. Stanley (1989-1992). Dr. Amagai has served professional societies in leadership positions including as President of Japanese Society for Investigative Dermatology (2012-14), and Vice President of Japanese Dermatological Association (2016-18). He has also been serving a number of international journals, including as Consulting Editor for the Journal of Clinical Investigation (2007-) and Section Editor for Journal of Investigative Dermatology (2002-2017). He is an International Member of the National Academy of Medicine (2016-).

6:25 pm **Valentina Greco, PhD**

Yale University, New Haven, CT



Capturing Tissue Dynamics and Function by Live Imaging

Valentina Greco was born in Palermo, Italy and earned her undergraduate degree in Molecular Biology at the University of Palermo, Italy. She earned her PhD with Suzanne Eaton at the EMBL/MPI-CBG, Germany (1998-2002) and her post-doc with Elaine Fuchs at the Rockefeller University (2003-2009). Dr. Greco is currently an Associate Professor in the Genetics, Cell Biology and Dermatology Departments, and a member of the Yale Stem Cell Center and Yale Cancer Center at the Medical School of Yale University (2009-present).

6:45 pm **Deborah Fowell, PhD**

University of Rochester Medical Center, Rochester, NY



T cell Search Strategies in the Inflamed Dermis

Deborah Fowell, PhD is the Dean's Professor, Department of Microbiology and Immunology, and member of the Center for Vaccine Biology and Immunology at the University of Rochester Medical School. She was awarded her PhD from Oxford University, UK, with Dr. Don Mason and did a postdoctoral fellowship with Dr. Richard Locksley at UCSF. She currently heads the Program for Advanced Immune Bioimaging at the University of Rochester that focuses on the development of intra-vital imaging approaches and optogenetic tools to study immune responses in inflamed and infected tissues. Her research seeks to understand the dynamic interactions between immune cells, tissue stroma and the inflammatory milieu in the skin, in the steady-state and in immune-mediated skin pathologies.

7:05 pm **Sara A. Wickström, MD/PhD**

University of Helsinki, Finland and Max Planck Institute for Biology of Ageing, Germany



Imaging Approaches to Study the Role of Mechanical Forces in Skin Development and Maintenance

Sara Wickström studied medicine at the University of Helsinki, Finland, receiving her MD in 2001 and PhD in 2004. After postdoctoral training with Reinhard Fässler at the Max Planck Institute for Biochemistry in Munich, Germany, she was appointed as Group Leader at the Max Planck Institute for Biology of Ageing in Cologne, Germany in 2010. In 2018 her laboratory moved to the newly founded Helsinki Institute for Life Science at the University of Helsinki, Finland. Research in the Wickström Lab aims to establish quantitative principles of epidermal stem cell niche self-organization, and how mechanical forces and cellular interactions integrate single cell behaviors to generate and maintain global patterns of a multicellular tissue.

7:25 pm **Q & A**

New Frontiers and Pivotal Investigation-Based Advances in the Pathoimmunobiology and Management of Atopic Dermatitis



Thursday, May 17, 2018

6:00 pm - 7:30 pm

Panzacola F-3/4

6:00 pm Emma Guttman-Yassky, MD/PhD (Program Chair)
Mount Sinai, New York, NY



The Translational Path for a Cytokine-Targeting Therapeutic Approach in Atopic Dermatitis

Emma Guttman-Yassky, MD/PhD, the Sol and Clara Kest Professor of Dermatology, is Vice Chair for Research at the Department of Dermatology, Director of the Center for Excellence in Eczema, and the Laboratory of Inflammatory Skin Diseases at the Icahn School of Medicine at Mount Sinai Medical Center, New York. She earned her MD from Sackler in Tel-Aviv, and a PhD from Bar-Ilan, Israel. After her Israeli Board certification in dermatology at the Rambam Medical Center at the Technion, Dr. Guttman moved to the U.S. to pursue a postdoctoral fellowship at Laboratory for Investigative Dermatology at The Rockefeller University and a second dermatology residency at Weill-Cornell, NY. Dr. Guttman's major focus is atopic dermatitis (AD) or eczema. She made paradigm-shifting discoveries on the immunologic basis of AD/eczema in humans, enriching the understanding of its pathophysiology, opening the door to new therapeutics. Dr. Guttman has developed comprehensive molecular maps of AD, defining skin differentiation and immune-circuits characterizing this disease. She has established the reversibility of the AD phenotype and defined a series of biomarkers that are now accelerating testing of novel pathway-specific drugs for AD. Her research on atopic dermatitis/eczema has contributed directly to the recently developed treatments for this disease, earning her a unique place in dermatology and immunology worldwide. She is now testing (both clinically and mechanistically) multiple targeted therapeutics for atopic dermatitis that target Th2, Th22, and Th17/IL-23 axis. She has recently also extended her research interest to alopecia areata in which her findings are also translated to possible novel therapeutic targets. She has Co-Founded the International Eczema Council (IEC), for which she functions as President-Elect. She was elected to the American Society for Clinical Investigation/ASCI, the American Dermatological Society/ADA, and received the Young Investigator Award (2011) from the AAD, as well as several other awards. She has recently been elected to serve on the board of the American Skin Association. Dr. Guttman is considered one of the world's leading experts in inflammatory skin diseases and authored more than 120 articles. She has also been featured as keynote speaker in many international and national meetings. Her achievements have been highlighted by the media including the New York Times, CBS News, Daily News, Reuters, Wall Street Journal, NY1, and others.

6:20 pm Jonathan I. Silverberg, MD/PhD/MPH
Northwestern University Feinberg School of Medicine, Chicago, IL



The Disease Burden, Quality-of-Life Impairment, and Comorbidities of AD and The Implications for Treatment for Patients with Moderate-to-Severe Disease

Jonathan Silverberg, MD/PhD/MPH Assistant Professor of Dermatology, Medical Social Sciences and Preventive Medicine, is a pioneer in identifying the increased cardiovascular risks associated with atopic dermatitis. As new therapies become available that counteract the systemic inflammation associated with inflammatory skin diseases, he hopes to observe the potential related reduction in cardiovascular risk. In 2014, Dr. Silverberg founded Northwestern Medicine's Multidisciplinary Eczema Center, and as its Director, he has been able to advance research by investigating the burdens of atopic dermatitis and testing cutting-edge therapeutic approaches in addition to helping patients with eczema and their comorbidities.

6:40 pm Eric Simpson, MD
Oregon Health and Science University, Portland, OR



The Therapeutic Landscape of Atopic Dermatitis: Th2 Targeting and Beyond

Dr. Simpson practices medical dermatology with special interests in chronic inflammatory skin diseases and skin cancer. He is actively involved in clinical research and is currently funded by the National Institutes of Health and industry partners to study new approaches to chronic skin disease treatment and prevention. Dr. Simpson's collaborations are global in scope and he has been invited to present his research and approach to patient care at international conferences in Europe, North and South America, and Asia. He has published over 80 scientific articles in several high-impact peer-reviewed journals including the New England Journal of Medicine and The Lancet. Dr. Simpson supports patient advocacy by serving as the Co-Chair of the Scientific Advisory Committee for the National Eczema Association. He also serves on the Executive Committee of the Harmonizing Outcome Measures in Eczema (HOME)- a volunteer group of patients, providers, and other stakeholders whose mission is to improve the quality of eczema research to better suit the needs of patients and policy-makers. Outside of work, Dr. Simpson enjoys spending time with his wife and children, playing squash, camping, hiking, fishing, and biking.

Continued on next page

Continued

New Frontiers and Pivotal Investigation-Based Advances in the Pathoimmunobiology and Management of Atopic Dermatitis



Thursday, May 17, 2018

6:00 pm - 7:30 pm

Panzacola F-3/4

7:00 pm Amy S. Paller, MD/MSci

Northwestern University Feinberg School of Medicine, Chicago, IL



Bringing the Pathogenic Advances and Novel Treatments to Children with AD: What have we Learned?

Dr. Paller is the Walter J. Hamlin Professor and Chair of the Department of Dermatology and Professor of Pediatrics at Northwestern University's Feinberg School of Medicine. She also serves as Principal Investigator of the NIH-funded Skin Disease Research Center at Northwestern. An author of more than 400 original publications, Dr. Paller is an NIH-funded investigator who currently serves on the Council for the National Institutes for Arthritis, Musculoskeletal, and Skin Diseases. Her laboratory focuses on topically delivered gene therapy using nanotechnology, diabetic wound healing, and cutaneous innervation. Dr. Paller has directed the Pediatric Dermatology Clinical Trials Unit at Northwestern University/ the Lurie Children's Hospital of Chicago for the past 20 years, and has been the lead investigator on several landmark trials. Her major clinical research interests are genetic skin disorders and pediatric cutaneous immunologic disorders, including atopic dermatitis. She has discovered skin and blood biomarkers of pediatric (vs. adult) atopic dermatitis, is developing wireless sensors to replace actigraphy, and is testing new tools to measure itch and stigma in atopic dermatitis. She has served on the Board of Directors of the American Academy of Dermatology, the Society for Investigative Dermatology, the Society for Pediatric Dermatology, the Women's Dermatologic Society, The American Board of Dermatology, and the American Dermatological Association. She has been President of the Society for Pediatric Dermatology, Society for Investigative Dermatology, and the Women's Dermatologic Society, and inaugural Co-Chair of the Pediatric Dermatology Research Alliance. She is currently President of the International Eczema Council and the International Society for Pediatric Dermatology. She co-authors Hurwitz's Clinical Pediatric Dermatology and has served as an editor of the Journal of Investigative Dermatology. Among recently received honors are the Clarence S. Livingood, MD Memorial Award from the American Academy of Dermatology, Mentor of the Year, Rose Hirschler, and the Wilma Bergfeld, MD Visionary & Leadership awards from the Women's Dermatological Society, Founder's Award from the Chicago Dermatological Society, Stephen Rothman Award from the Society for Investigative Dermatology, and the inaugural Paula Stern Outstanding Women in Science and Medicine Award from Northwestern University.

7:20 pm Emma Guttman-Yassky, MD/PhD (Program Chair)

The Disease Burden, Quality-of-Life Impairment, and Comorbidities of AD and Implications for Treatment for Patients with Moderate-to-Severe Disease— A Year 2018 Investigation-to-Application Update

7:25 pm Interactive Question and Answer Session

2018 International DermatoEpidemiology Association (IDEA) Meeting

Thursday, May 17, 2018

6:00 pm - 7:30 pm

St. John's 24-25

Moderators: Eleni Linos, MD/DrPh
Maryam Asgari, MD/MPH
Tamar Nijsten, MD/PhD
Sinead Langan, FRCP/PhD

- 6:00 pm** **Welcome**
- 6:05 pm** **Global Leader Award**
- 6:20 pm** **Utilization and cost of actinic keratosis destruction in Medicare Part B fee-for-service beneficiaries in 1998-2016.** Marissa Baranowski, Emory University. *Abstract #326*
- 6:30 pm** **The effect of rejection episodes on squamous cell carcinoma (SCC) in transplant patients.** Charles Puza, Duke University. *Abstract #291*
- 6:40 pm** **Genetic ancestry does not influence atopic dermatitis susceptibility or disease activity among African Americans.** Katrina Abuabara, MD, UCSF. *Abstract #269*
- 6:50 pm** **High prevalence of axial and peripheral spondyloarthritis features in patients with hidradenitis suppurativa.** Angelique Rondags, MD, UMCG. *Abstract #318*
- 7:00 pm** **Prospective study of toenail trace metal levels and risk of cutaneous basal cell carcinoma.** Eunyoung Cho, ScD, Brown University. *Abstract #244*
- 7:10 pm** **Business Meeting**
- 7:20 pm** **Wine & Networking**



International Transplant Skin Cancer Collaborative

Thursday, May 17, 2018

6:00 pm - 7:30 pm

Panzacola G-1

www.itscc.org

ITSCC's Mission: To integrate and support basic scientific and clinical research to address the special needs of immunosuppressed patients and organ transplant recipients with skin cancer in order to improve quality of care. To educate patients, scientists, primary care doctors and specialist physicians on the unique needs and clinical care issues in immunosuppressed and transplant patients.

Friday Sessions

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75	Plenary Session III
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85	SID William Montagna Lecture
86	JSID Guest Lecture
87	Concurrent Mini-Symposium 7: Adaptive and Autoimmunity
88	Concurrent Mini-Symposium 8: Clinical Research: Pathophysiology and Therapeutics
89	Concurrent Mini-Symposium 9: Growth Factors, Cell Adhesion and Matrix Biology
90	Concurrent Mini-Symposium 10: Pigmentation and Melanoma
91	Concurrent Mini-Symposium 11: Skin, Appendages and Stem Cell Biology
92	Concurrent Mini-Symposium 12: Interdisciplinary Spotlight: Oncology
93	National Psoriasis Foundation (NPF)
94	SATO Scientific Forum at IID 2018

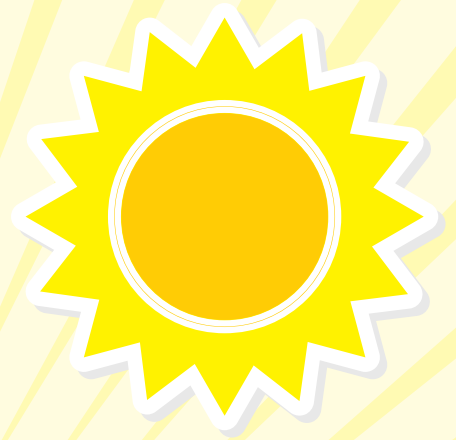
YOUNG INVESTIGATOR COLLEGIALITY POOL PARTY

FRIDAY, MAY 18, 2018, 6:30 pm - 9:30 pm

The IID organizers have arranged for a private pool party at Rosen Shingle Creek Family Pool for those registered as Resident's, Post-Docs, and Students. The evening will feature games, a DJ, beach food from the grill, drinks and an opportunity to informally network with your peers.

Ticketed Event: Pre-registration required. Space is limited.
Casual Attire.

Please visit the IID Meeting Registration Counter in the Gatlin Foyer for availability. Admission bracelets will be distributed upon entry to the event.



Meeting-At-A-Glance

Friday, May 18, 2018

**Neuroimmunology of the Skin:
Regulation of Cutaneous Immunity
by the Nervous System** 7:00 am - 8:30 am
Gatlin D-E

CIRM Consortium Meeting 7:00 am - 8:00 am
By Invitation Only Boardroom

**The Pediatric Dermatology Research
Alliance (PeDRA)/ Society for Pediatric
Dermatology (SPD)** 7:00 am - 8:30 am
Conway

Women's Dermatologic Society (WDS) 7:00 am - 8:30 am
Networking Breakfast & Panel Discussion St. John's 32-34

ESDR Guest Lecture 8:45 am - 9:15 am
*Fluorescence Microscopy: The Resolution
Revolution*
Nobel Laureate Stefan W. Hell, PhD Gatlin D-E

**The American Skin Association (ASA)
Awards** 9:30 am - 9:40 am
Panzacola F-1/2

ESDR General Assembly 9:30 am - 10:15 am
Panzacola G-1

JSID General Assembly 9:30 am - 10:15 am
Panzacola F-3/4

SID Business Meeting 9:40 am - 10:15 am
Panzacola F-1/2

Plenary Session III 10:30 am - 11:30 am
Gatlin D-E

Come See My Poster Session II 11:30 am - 11:45 am
Poster #'s 1278, 055, 489, 392, 876,
879, 1182, 1199, 1357, 1299, 412, 444 Gatlin D-E

Mary Kay Symposium 12:00 pm - 1:30 pm
*Pollution and Skin Health: New Perspectives
and Intervention Strategies* Gatlin D-E

Poster Session II/Coffee Break 12:00 pm - 2:00 pm
• Odd Poster #'s 983-1473 Gatlin A-C
• Even Poster #'s 002-492
• Even Late-Breaking Poster #'s LB1476-LB1616
Coffee Break Sponsored by: Regeneron/Sanofi Genzyme

Selected ePoster Discussions II 12:30 pm - 1:30 pm
• Adaptive and Autoimmunity Gatlin Foyer Kiosk #1
• Clinical Research: Pathophysiology and Therapeutics Gatlin Foyer Kiosk #2
• Clinical Research II Gatlin Foyer Kiosk #3
• Growth Factors, Cell Adhesion and Matrix Biology Gatlin Foyer Kiosk #4
• Pigmentation and Melanoma Gatlin Foyer Kiosk #5
• Skin, Appendages and Stem Cell Biology Gatlin Foyer Kiosk #6

Sponsored by: Rodan & Fields

SID William Montagna Lecture 2:15 pm - 2:45 pm
Digging Deep: Secrets of the Dermis
Valerie Horsley, PhD Gatlin D-E

JSID Guest Lecture 2:45 pm - 3:15 pm
*Control of Immune Responses by
Regulatory T cells*
Shimon Sakaguchi, MD/PhD Gatlin D-E

Concurrent Mini-Symposia 3:30 pm - 6:00 pm
7. Adaptive and Autoimmunity Gatlin D-E
8. Clinical Research: Pathophysiology and Therapeutics Panzacola F-1/2
9. Growth Factors, Cell Adhesion and Matrix Biology Conway
10. Pigmentation and Melanoma Panzacola G-1
11. Skin, Appendages and Stem Cell Biology Panzacola F-3/4
12. Interdisciplinary Spotlight: Oncology Panzacola G-2

Young Investigator Collegiality Pool Party 6:30 pm - 9:30 pm
Ticketed Event: Pre-Registration Required
Rosen Shingle Creek Family Pool

National Psoriasis Foundation (NPF) 6:30 pm - 8:00 pm
Reception Sandlake

SATO Scientific Forum at IID 2018 6:30 pm - 9:30 pm
Conway

Associate Groups are Highlighted

Neuroimmunology of the Skin: Regulation of Cutaneous Immunity by the Nervous System

Friday, May 18, 2018

7:00 am - 8:30 am

Gatlin D-E

7:00 am **Welcome: Richard D. Granstein, MD**

7:05 am **Yonatan Ganor, PhD**
Cochin Institute, Paris, France



Calcitonin gene-related peptide inhibits Langerhans Cell-mediated HIV-1 transmission

Yonatan Ganor, PhD, earned his degree in Life Sciences, Department of Neurobiology, Feinberg Graduate School of the Weizmann Institute of Science, Rehovot, Israel. He completed his thesis, 'Glutamate receptor immunity and autoimmunity in physiological neuro-immune interactions and autoimmune-mediated epilepsy', under the supervision of Prof Vivian Teichberg and Dr. Mia Levite. He was a postdoctoral fellow in the laboratory of Dr. Morgane Bomsel in the Department of Cell Biology and Host-Pathogen Interactions, Cochin Institute, Paris, France. He is currently a Research Associate (CRCN) at CNRS, in the Department of Infection, Immunity and Inflammation, Cochin Institute, Paris, France. His research is aimed at investigating the mechanisms of neuro-immune control of mucosal viral infections.

7:25 am **Nicole Ward, PhD**
Case Western Reserve University, Cleveland, OH



Animal Models of Psoriasisiform Dermatitis: Influence of the Nervous System

Nicole Ward, PhD, earned her Bachelors of Science degree in Biology/Psychology at the University of Winnipeg followed by a Masters of Science in Neuroscience at McMaster University and a PhD in Anatomy & Neurobiology from Dalhousie University. She then completed a post-doctoral fellowship at the University of Toronto, Sunnybrook Research Institute focused on angiogenesis and molecular genetics and a visiting post-doctoral fellowship in Neuroscience at the University of Manitoba. Dr. Ward is an Associate Professor of Dermatology and Director of the Morphology Core of the Skin Diseases Research Center in the Department of Dermatology at Case Western Reserve University and University Hospitals Cleveland Medical Center. Her work has primarily focused on three unique, but overlapping, conceptual areas in psoriasis pathogenesis. They are: 1) skin inflammation drives remote vascular inflammation and thrombosis, 2) the neural activation of skin inflammation and proliferation, and 3) elucidating a role for IL-17c and IL-17RE signaling in psoriasis pathogenesis.

7:45 am **Daniel Kaplan, MD/PhD**
Case Western Reserve University, Cleveland, OH



Nociceptive Nerves and Defense Against Cutaneous Candida Infection

Dr. Kaplan did his Dermatology training and research fellowship at Yale School of Medicine and is currently a Professor of Dermatology and Immunology at the University of Pittsburgh. His lab focuses on intercellular communication between skin-resident immune cells (e.g. dendritic cells, resident memory T cells) and non-immune cell types such as keratinocytes and cutaneous afferent nerves. The goal is to better understand mechanisms of counter regulation between these cell types in health and disease.

8:05 am **Richard D. Granstein, MD**
Weill Cornell Medicine, New York



Nervous System Regulation of Cutaneous Immunity Through Actions on Endothelial Cells

Richard D. Granstein, MD trained in dermatology at Massachusetts General Hospital and Harvard Medical School. As a research fellow, he studied immunology and tumor biology at the National Cancer Institute and in the Department of Pathology at Harvard. Dr. Granstein joined the Harvard faculty in 1984. In 1995, Weill Cornell and the New York-Presbyterian Hospital successfully recruited him. Dr. Granstein is the George W. Hambrick, Jr. Professor of Dermatology at the Weill Cornell Medical College and Dermatologist-in-Chief at the New York Weill Cornell Campus of the New York-Presbyterian Hospital. Dr. Granstein's clinical interests include skin disorders resulting from abnormal immune system activity. His research interests center on the regulation of immune processes within the skin. He and his colleagues were the first to demonstrate that immune cells within the epidermis have an anatomic relationship with nerves and can be regulated by proteins produced by those nerves.

8:25 am **Questions and Discussion**

The Pediatric Dermatology Research Alliance (PeDRA)/ Society for Pediatric Dermatology (SPD)



Friday, May 18, 2018

7:00 am - 8:30 am

Conway

7:00 am

Yvonne Chiu, MD

Medical College of Wisconsin

Amy Paller, MD

Northwestern University

Welcome

7:05 am

Yvonne Chiu, MD

Medical College of Wisconsin

Pediatric Dermatology Roadmap

7:20 am

Leena Bruckner-Tuderman, MD

Freiburg Institute for Advanced Studies

Novel Approaches to Treat Recessive Dystrophic Epidermolysis Bullosa

7:50 am

Peter Elias, MD, et al.

Veteran Affairs Medical Center/University of California San Francisco

Abnormalities in skin barrier status correlate with autism in a murine model: could assessments of skin barrier function assist in early diagnosis of autism? Abstract #719

8:00 am

Patrick Brunner, MD, et al.

The Rockefeller University

The barrier abnormality of early-onset pediatric atopic dermatitis results from abnormalities in tight junctions and epidermal lipids, but not differentiation proteins. Abstract #648

8:10 am

Shoshanna Blumenthal, et al.

Medical College of Wisconsin

The phenotypic spectrum of vascular anomalies associated with postzygotic mosaic variants in G-proteins. Abstract #766

8:20 am

Mor Pavlovsky, MD, et al.

Tel Aviv Medical Center

A new phenotype combining hidradenitis suppurativa with Dowling-Degos disease caused by a founder mutation in PSENEN. Abstract #775

Special thanks to the Society for Pediatric Dermatology (SPD) and the Pediatric Dermatology Research Alliance (PeDRA) for supporting this session.

Women's Dermatologic Society

WDS Networking Breakfast & Panel Discussion

**Friday, May 18, 2018****7:00 am - 8:30 am****St. John's 32-34**

The Women's Dermatologic Society (WDS) invites you to join us for a Networking Breakfast and Panel Discussion. The breakfast is open to all WDS Members and IID Meeting Attendees and will offer an opportunity to network and take part in an engaging panel discussion.

The panel discussion, moderated by Dr. Niroshana Anandasabapathy, will focus on overcoming adversity and bias. Drs. Ronda Farah, Maria Hordinsky, and Tamia Harris-Tryon will share experiences in their career when they have had to overcome adversity and bias and provide tips that helped them do this. Audience participation is encouraged!

7:00 am Breakfast & Networking**7:30 am Panel Discussion & Audience Questions****Niroshana Anandasabapathy, MD/PhD**

Assistant Professor
Meyer Cancer Center and Weill Cornell Medicine

**Ronda Farah, MD**

Assistant Professor
University of Minnesota, Department of Dermatology

**Maria K. Hordinsky, MD**

Professor and Chair
University of Minnesota, Department of Dermatology

**Tamia A. Harris-Tryon, MD/PhD**

Assistant Professor
UT Southwestern Medical Center, Department of Dermatology

ESDR Guest Lecture

Fluorescence Microscopy: The Resolution Revolution

Friday, May 18, 2018

8:45 am – 9:15 am

Gatlin D-E

Introduction by:

Sirkku Peltonen, MD/PhD



Nobel Laureate Stefan W. Hell, PhD

Max Planck Institute for Biophysical Chemistry, Heidelberg, Germany

Stefan W. Hell (born in 1962) received his doctorate in physics from the University of Heidelberg in 1990, followed by a research stay at the European Molecular Biology Laboratory in Heidelberg. From 1993 to 1996, he worked as a senior researcher at the University of Turku, Finland, where he developed the principle of STED microscopy. In 1997, he moved to the Max Planck Institute for Biophysical Chemistry in Göttingen, Germany, where he set up his current research group dedicated to sub-diffraction-resolution microscopy. He was appointed a Max Planck Director in 2002 and currently leads the Department of NanoBiophotonics at the Max Planck Institute for Biophysical Chemistry and the Department of Optical Nanoscopy at the German Cancer Research Center in Heidelberg, Germany. He is an Honorary Professor of experimental physics at the University of Göttingen and Adjunct Professor of physics at the University of Heidelberg. On October 08, 2014 he was awarded the Nobel Prize in Chemistry. He shares the prize with Eric Betzig and William E. Moerner. With the award, the Royal Swedish Academy of Sciences honors their pioneering work in the field of ultra high resolution fluorescence microscopy. Stefan Hell succeeded in radically overcoming the resolution limit of conventional optical microscopes – a breakthrough that has enabled new ground-breaking discoveries in biological and medical research.

American Skin Association (ASA) Awards



Friday, May 18, 2018

9:30 am – 9:40 am

Panzacola F-1/2

David Martin Carter Mentor Award

ASA's David Martin Carter Mentor Award honors a member of the dermatology community who embodies the characteristics of the late David Martin Carter, MD/PhD that made him an inspiration to many dermatologists/investigators, colleagues and medical students throughout the world.

American Skin Association is delighted to present its'
2018 David Martin Carter Mentor Award to:

Kathleen Green, PhD

Feinberg School of Medicine at Northwestern University

Research Achievement Awards

Instituted in 1989 to identify established scientists in investigative dermatology and cutaneous biology and to recognize those who have greatly advanced work related to autoimmune and inflammatory skin diseases, skin cancer and melanoma, psoriasis, public policy and medical education, or vitiligo and pigment cell disorders.

American Skin Association is delighted to present its'
2018 Research Achievement Awards to:

April Armstrong, MD/MPH

Keck School of Medicine, University of Southern California

Research Achievement Award in Psoriasis

Lisa Beck, MD

University of Rochester

Research Achievement Award in Autoimmune & Inflammatory Skin Disorders Research

Allan Halpern, MD

Memorial Sloan Kettering

Research Achievement Award in Melanoma & Skin Cancer Research

John Harris, MD/PhD

Massachusetts Worcester Medical School

Research Achievement Award in Vitiligo and Pigment Cell Biology Research

Jack Resneck, MD

University of California San Francisco School of Medicine

Research Achievement Award in Public Policy & Medical Education

Plenary Session III

Friday, May 18, 2018

10:30 am - 11:30 am

Gatlin D-E

Presiders: Daniel Kaplan, MD/PhD
David Kelsell, MD/PhD
Shinji Shimada, MD/PhD

1. **Live imaging of granular cells during cornification in the epidermal equivalent model.** S. Ipponjima, Y. Umino, M. Nagayama and M. Denda. Sapporo, Hokkaido, Japan and Yokohama, Kanagawa, Japan. 10:30 am, Abstract #628
2. **The p63 - iRHOM2 signalling axis in the keratinocyte stress response.** A. Chikh, P. Arcidiacono, C. Webb, M. Brooke, H. Zhou and D. Kelsell. London, England, United Kingdom and Nijmegen, Netherlands. 10:42 am, Abstract #784
3. **Mosaic RAS/MAPK variants cause sporadic vascular malformations which respond to targeted therapy.** S. Polubothu, L. Al-Olabi, K. Dowsett, K. Andrews, P. Stadnik, R. Knox, W. Baird, M. Glover, C. Moss, A. Thomas, L. Biesecker, R. Semple, E. Patton and V. Kinsler. London, England, United Kingdom; Edinburgh, Scotland, United Kingdom; Cambridge, England, United Kingdom; Birmingham, England, United Kingdom and Bethesda, MD. 10:54 am, Abstract #755
4. **BIIB059, a monoclonal antibody targeting BDCA2, decreases Type I Interferon-related genes transcriptional activity in subjects with systemic lupus erythematosus (SLE) and active cutaneous LE (CLE).** VP. Werth, JF. Merola, R. Furie, TL. Reynolds, L. Stevenson, W. Wang, C. Musselli, R. Christmann, S. Hamann, X. Zhang, C. Barbey, D. Rabah and N. Franchimont. Philadelphia, PA; Boston, MA; New York, NY; Cambridge, MA and Zug, Switzerland. 11:06 am, Abstract #1081
5. **Ultraviolet radiation induced senescent cells and senescence associated secretory phenotype have key roles in the induction of immune tolerance.** S. Das, X. He and H. Xu. Birmingham, AL. 11:18 am, Abstract #1164

Come See My Poster Session II

Friday, May 18, 2018

11:30 am - 11:45 am

Gatlin D-E

Presider: David Kelsell, MD/PhD

The Come See My Poster sessions give opportunities to select presenting authors of highly scored abstracts to give a brief one-minute (and one slide) introduction to their submitted abstract. This rapid paced session leads right into one of the IID 2018 Poster Sessions, providing both an excellent starting point into the Poster Hall and the generation of excitement for all attendees.

1. **Targeting IL-15 signaling with an anti-CD122 antibody durably reverses vitiligo.** JM. Richmond, JP. Strassner, L. Zapata, M. Garg, M. Rashighi, RL. Riding, MA. Refat, KI. Essien, L. Pell, P. Agarwal, N. Tsurushita, J. Tso and JE. Harris. Worcester, MA. 11:30 am, Abstract #1278
2. **Development of contact dermatitis in mice requires T cell signaling via the neurokinin 1 receptor at the site of dendritic cell T cell synapse.** T. Sumpter, D. Rojas-Canales, O. Tkacheva, W. Shufesky, LD. Falo Jr., A. Morelli and A. Larregina. Pittsburgh, PA. 11:31 am, Abstract #055
3. **Dupilumab efficacy in atopic dermatitis in four randomized phase 3 trials (LIBERTY AD SOLO 1&2, CHROMOS, CAFE).** EL. Simpson, T. Bieber, M. de Bruin-Weller, A. Blauvelt, Z. Chen, M. Ardeleanu, B. Shumel, B. Akinlade and T. Hultsch. Portland, OR; Bonn, Germany; Utrecht, Netherlands; Tarrytown, NY and Cambridge, MA. 11:32 am, Abstract #489
4. **Next-generation sequencing identifies epidermal miRNAs deregulated in psoriasis skin.** A. Srivastava, F. Meisgen, L. Pasquali, M. Stahle, N. Xu Landén, A. Pivarsci and E. Sonkoly. Stockholm, Sweden. 11:33 am, Abstract #392
5. **Imaging nanoscale changes in desmosome protein organization.** E. Bartle, T. Urner, T. Rao, AP. Kowalczyk and AL. Mattheyses. Birmingham, AL and Atlanta, GA. 11:34 am, Abstract #876
6. **IL-9 mediated human primary keratinocytes invasion is dependent on MLC controlled contractility and independent of MMP activity.** S. Das, S. Srinivasan, A. Srivastava, S. Kumar, G. Das, S. Das, A. Gupta, C. Nayak and R. Purwar. Bombay, Mumbai, India. 11:35 am, Abstract #879
7. **Melanospheres identify microRNA-519d as a promoter of melanoma progression by modulating EphA4.** Y. Liao, K. Hua, H. Huang and J. Chen. Taipei, Taiwan. 11:36 am, Abstract #1182
8. **The regulatory role of lncRNA CD27-AS1 on CD27 contributes to melanomagenesis.** J. Ma, P. Xu, S. Guo, Q. Shi and C. Li. Xi'an, Shaanxi, China. 11:37 am, Abstract #1199
9. **β -Catenin regulation in Krox20 lineage hair follicle epithelial cells.** C. Liao and L. Le. Dallas, TX. 11:38 am, Abstract #1357
10. **Live imaging of keratin network in stratum granulosum reveals dynamic cytoskeletal changes during cornification in mice in vivo.** T. Matsui, K. Usui, Y. Furuichi, N. Kadono, H. Kawasaki, T. Okada and M. Amagai. Yokohama, Kanagawa, Japan. 11:39 am, Abstract #1299
11. **High amphiregulin expression is a high-risk feature of acute graft-versus-host disease of the skin.** B. Schultz, D. Miller, T. DeFor and S. Holtan. Minneapolis, MN. 11:40 am, Abstract #412
12. **Demethylzeylasteral inhibits the skin trafficking of CD8⁺ T cells in patients with vitiligo through the inactivation of IFN- γ -JAK-STAT1-CXCL10 signaling pathway in keratinocytes.** Y. Chang, W. Zhang and C. Li. Xi'an, Shaanxi, China. 11:41 am, Abstract #444

Mary Kay Symposium

*Pollution and Skin Health: New Perspectives
and Intervention Strategies*

MARY KAY®

Friday, May 18, 2018

12:00 pm - 1:30 pm

Gatlin D-E

Lunch will be provided on a first come, first served basis



Max Costa, PhD

New York University School of Medicine, New York, NY

Global Air Pollution and Skin Toxicity

Dr. Costa is the Professor & Chairman of Department of Environmental Medicine at New York University School of Medicine. In addition, he also holds multiple positions that include Professor of Biochemistry and Molecular Pharmacology at New York University School of Medicine, Program Leader, Environmental & Molecular carcinogenesis at NYU Cancer Center and Director of Core Center of Excellence in Environmental Health Sciences from NIEHS. Dr. Costa has been working in the area of epigenetics and cancer for over 20 years. He has studied how carcinogenic metals affect the epigenetic program through inhibition of histone demethylases. In particular, Dr. Costa has studied how Arsenic, Nickel and Chromate alter histone posttranslational modifications in chromatin using cell culture and in human PBMCs. Dr. Costa has also conducted ChIP-Seq using several histone marks and RNA-Seq following carcinogenic metal treatment of cells. He has been working on the mechanism of metal carcinogenesis for over 40 years. Dr. Costa has published around 400 peer reviewed papers in journals of international repute and is a recipient of many prestigious awards including the Kenneth Morgareidge Award for outstanding contribution to toxicology, Recipient of a Lifetime Achievement Award from the metals specialty section of the Society of Toxicology, Salt Lake City 2010.



Jean Krutmann, MD

University Hospital for Dermatology, Düsseldorf, Germany

Air Pollution and Skin: State-of-the Art

Jean Krutmann, MD was born in 1959 in Germany and obtained his MD from the University of Münster in 1986. After several stays abroad (postdoc at Case Western Reserve University, Cleveland, Ohio, USA and DFG stipend at the University Hospital for Dermatology in Vienna, Austria) he became Resident/Assistant/Associate Professor at the University Hospital for Dermatology in Freiburg, Germany. From 1994 until 2001 he was Full Professor/Deputy Director of the University Hospital for Dermatology Düsseldorf, Germany. In 2001 he was appointed Chair of Environmental Medicine at the Medical Faculty of Heinrich Heine University Düsseldorf and thereby also Director of IUF. Under his directorship in 2011 the institute became a member of the Leibniz Association and was renamed IUF - Leibniz Research Institute for Environmental Medicine. His research focuses on dermatotoxicology, immunodermatology and photodermatology with a special emphasis on environmentally-induced skin diseases and skin aging. His scientific contributions include the development of UVA1 phototherapy, the discovery that infrared A radiation and air pollution contribute to skin aging, and that the aryl hydrocarbon receptor is involved in skin stress responses including photocarcinogenesis. He is author/coauthor of more than 400 contributions to scientific journals and books as well as editor of 8 textbooks. Jean Krutmann was awarded several national and international prizes: Arnold Rikli Award, Albrecht Fleckenstein Award, Paul Gerson Unna Award, Oscar Gans Award, C.E.R.I.E.S. Research Support Award and the Dermopharmacy Innovation Award. Since 2010, he is member of the Leopoldina, the German National Academy of Science. Since 2012, he is coordinator of the Leibniz Research Alliance "Healthy Ageing". He is also Visiting / Adjunct Professor at CWRU, Cleveland, Ohio, USA, at Nagoya City University, Nagoya, Japan, and at Fudan University, Shanghai, China.

Continued on next page

Continued Mary Kay Symposium

*Pollution and Skin Health: New Perspectives
and Intervention Strategies*

MARY KAY®

Friday, May 18, 2018

12:00 pm - 1:30 pm

Gatlin D-E



Liang Liu, PhD

Columbia University, New York, NY

Antioxidants: A Key Approach to Combat the Effects of PAH Pollution on Human Skin

Dr. Liu has a long-standing research interest in studying genetic and epigenetic mechanisms underlying gene-environment interactions during normal development and disease pathogenesis. He obtained his PhD in developmental biology and molecular genetics from Uppsala University in Sweden, followed by a Post-Doc Fellowship and subsequent Research Assistant Professorship in cancer biology and aging research at the University of Alabama at Birmingham. In 2010, Dr. Liu joined Dr. Christiano's lab at Columbia University to pursue advanced training in skin biology. He was promoted to Assistant Professor of Dermatology at Columbia University in 2015. His current research focuses on elucidating the molecular pathways underlying the adverse effects of environmental agents such as UV irradiation and air pollution on skin health. Dr. Liu's research has been recognized and funded by the American Institute for Cancer Research, the National Institutes of Health, the Dermatology Foundation, and the American Skin Association.



Wendy E. Roberts, MD/FAAD

Loma Linda University Medical Center, Loma Linda, CA

Air Pollution: A Silent but Visible Factor in Skin Pigmentation and Photoaging

Wendy E. Roberts, MD is a graduate of Stanford Medical School with three post graduate degrees, which include Surgery Internship and Residency PGY2 & Dermatology Residency and Dermatopathology fellowship at New York University Medical Center. Dr. Roberts is Double Board Certified in Dermatology and Dermatopathology. She is Founding Director of Dermatopathology at Loma Linda University Medical Center. She alone, pioneered and developed Generational Dermatology™ which is a detailed system of age management. She is also a Founder and Chair of the Generational Dermatology Symposium which has become a national meeting venue for Dermatologists and Plastic Surgeons. Dr. Roberts developed "the Roberts Skin type Classification System® as seen on The Today Show™". Her skin type system is used by Doctors around the globe to keep skin of color patients safe while undergoing cosmetic procedures. Dr. Roberts has authored numerous articles and contributed book chapters for the following subjects. Acne, Chemical Peeling, Melasma, Pigmentation disorders, Skintype, Aesthetics, Skin of Color, Generational Dermatology, Geriatric Dermatology, Sunscreen Protection, Skin Cancer in Ethnic Skin of Color and Pollution of the Skin. She is Frequently quoted in national magazines, radio, television and news that includes NBC, New Beauty, W, WebMD, ReachMD, Oprah Magazine, CNN, Fox News Live, Self, Allure, Sisters to Sisters, Prevention, Readers Digest, Los Angeles Times, PS Life. She was cited by Essence Magazine as the Dermatologist to watch. Dr. Roberts was named "Rockstar Dermatologist" by Glamour magazine and penned "The Youth Booster" and embraced by celebrities because under her comprehensive care, her patients do not age, and actually begin to look younger. She is a past president of both the Women's Dermatologic Society which is the third largest Dermatology organization in the country, and CALDERM, the California State Dermatologic Society. She is also a member of the American Dermatological Association which is an honor society for Dermatologists. She was Chair of the Geriatric session at the World Congress of Dermatology in Vancouver 2015. Known by the specialty for her innovation and energy she has been in her private practice in Rancho Mirage, CA since 1994. Active in her local medical community as well, Dr. Roberts has been voted as "Best Doctor" by her colleagues for the last 12 years by the Palm Springs Life Magazine. Dr. Roberts was just selected as a Leading Physicians of the World by the prestigious International Association of HealthCare Professionals.

Selected ePoster Discussions II

Adaptive and Autoimmunity

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

Friday, May 18, 2018

12:30 pm – 1:30 pm

Gatlin Foyer Kiosk #1

Moderator: Hayato Takahashi, MD/PhD

1. **Targeting IL-15 signaling with an anti-CD122 antibody durably reverses vitiligo.** JM. Richmond, JP. Strassner, L. Zapata, M. Garg, M. Rashighi, RL. Riding, MA. Refat, KI. Essien, L. Pell, P. Agarwal, N. Tsurushita, J. Tso and JE. Harris. Worcester, MA. 12:30 pm, Abstract #1278
2. **Development of contact dermatitis in mice requires T cell signaling via the neurokinin 1 receptor at the site of dendritic cell T cell synapse.** T. Sumpter, D. Rojas-Canales, O. Tkacheva, W. Shufesky, LD. Falo Jr., A. Morelli and A. Larregina. Pittsburgh, PA. 12:36 pm, Abstract #055
3. **PD-L1 on radio-resistant cells negatively regulates effector CD8⁺ T-cell activation during the elicitation phase of contact hypersensitivity.** T. Hirano, T. Honda, K. Tamada, L. Chen and K. Kabashima. Kyoto, Japan; Ube, Yamaguchi, Japan and New Haven, CT. 12:42 pm, Abstract #021
4. **Inducible endothelial cell (EC)-specific RAMP1 knock-out (KO) mice have immunity biased away from IL-17A and toward IFN γ and IL-22 expression.** RD. Granstein, W. Ding, LL. Stohl, D. Mehta and J. Wagner. New York, NY. 12:48 pm, Abstract #023
5. **Detection of lipid-specific T cells in human skin using CD1 tetramers.** GC. Monnot, W. Zeng, C. Rohde and A. de Jong. New York, NY. 12:54 pm, Abstract #026
6. **Activated ILC3 cells suffice to induce psoriasis in human skin in vivo.** A. Gilhar, A. Keren, A. Schrum and R. Paus. Haifa, Israel; Columbia, MO and Manchester, England, United Kingdom. 1:00 pm, Abstract #063
7. **Impaired peripheral tolerance leads to AIBD phenotype with pathogenic antibodies and blister formation.** S. Haeberle, X. Wei, K. Bieber, S. Goletz, R. Ludwig, E. Schmidt, A. Enk and E. Hadaschik. Heidelberg, Germany; Lübeck, Germany; Hamburg, Germany and Schleswig-Holstein, Germany. 1:06 pm, Abstract #064
8. **Highly functional skin NKG2D⁺ CD8⁺ effector memory T cells in vitiligo.** C. Jacquemin, C. Martins, A. Taieb, J. Seneschal and K. Boniface. Bordeaux, France. 1:12 pm, Abstract #067
9. **IL-1 β antibody blockade as a novel approach in cancer immunotherapy.** T. Tian, S. Loftus, Y. Pan, C. Stingley, R. Lock, K. Liu and T. Kupper. Boston, MA. 1:18 pm, Abstract #076
10. **The role of T cell immunity in the suppression of papillomavirus.** JD. Strickley, S. Demehri, A. Jenson, S. Ghim and J. Joh. Louisville, KY and Boston, MA. 1:24 pm, Abstract #077

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IID 2018

Selected ePoster Discussions II

Clinical Research: Pathophysiology and Therapeutics

Friday, May 18, 2018

12:30 pm - 1:30 pm

Gatlin Foyer Kiosk #2

Moderator: Hideyuki Ujiie, MD/PhD

1. **Dupilumab efficacy in atopic dermatitis in four randomized phase 3 trials (LIBERTY AD SOLO 1&2, CHROMOS, CAFE).** EL. Simpson, T. Bieber, M. de Bruin-Weller, A. Blauvelt, Z. Chen, M. Ardeleanu, B. Shumel, B. Akinlade and T. Hultsch. Portland, OR; Bonn, Germany; Utrecht, Netherlands; Tarrytown, NY and Cambridge, MA. 12:30 pm, Abstract #489
2. **Next-generation sequencing identifies epidermal miRNAs deregulated in psoriasis skin.** A. Srivastava, F. Meisgen, L. Pasquali, M. Stahle, N. Xu Landén, A. Pivarcsi and E. Sonkoly. Stockholm, Sweden. 12:36 pm, Abstract #392
3. **Optimization of gentamicin therapy for recessive dystrophic epidermolysis bullosa patients harboring nonsense mutations.** D. Woodley, J. Cogan, Y. Hou, V. Lincoln, D. Keene, M. Hirsch, N. Pironon, M. Titeux, A. Hovnanian and M. Chen. Los Angeles, CA; Portland, OR and Paris, France. 12:42 pm, Abstract #425
4. **CD8⁺ T cell skin infiltration predicts disease progression in CTCL patients.** E. Seger, J. O'Malley, A. De Masson, J. Teague, E. Lowry, A. Gehad, A. Vromans, T. Kupper and R. Clark. Boston, MA. 12:48 pm, Abstract #458
5. **CD8⁺CD103⁺ skin resident memory T cells are a subpopulation of CD8⁺MDR-1⁺ cells in lesional skin of psoriasis and correlate with the clinical course.** K. Kurihara, T. Fujiyama, T. Itou and Y. Tokura. Hamamatsu, Shizuoka, Japan. 12:54 pm, Abstract #401
6. **Characteristic of circulating dendritic cells in patients with cutaneous adverse drug reaction.** N. Takamura, Y. Yamaguchi, T. Watanabe, Y. Watanabe and M. Aihara. Yokohama, Kanagawa, Japan. 1:00 pm, Abstract #428
7. **Phase 2 trial of a neurokinin-1 receptor antagonist for the treatment of chronic itch in epidermolysis bullosa patients.** A. Chiou, S. Choi, M. Barriga, Y. Dutt-Singh, D. Solis, J. Nazaroff, I. Bailey-Healy, S. Li, M. Joing, P. Kwon and J. Tang. Redwood City, CA and Stanford, CA. 1:06 pm, Abstract #438
8. **The role of IL-37 in psoriasis.** K. Rønholt, A. Langkilde, C. Johansen, R. Vales, C. Dinarello and L. Iversen. Aarhus, Denmark; Barcelona, Spain and Aurora, CO. 1:12 pm, Abstract #439
9. **EZH2-dependent epigenetic modulation of histone H3 lysine-27 contributes to psoriasis by promoting keratinocyte proliferation.** T. Zhang, Y. Ke, L. Yang and G. Wang. Xi'an, Shaanxi, China. 1:18 pm, Abstract #443
10. **Microvesicles induce pro-inflammatory cytokines in dermatomyositis.** K. Desai, M. Zeidi, M. Liu and VP. Werth. Philadelphia, PA. 1:24 pm, Abstract #476

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Selected ePoster Discussions II

Clinical Research II

Friday, May 18, 2018

12:30 pm – 1:30 pm

Gatlin Foyer Kiosk #3

Moderator: Mauro Picardo, MD

1. **High amphiregulin expression is a high-risk feature of acute graft-versus-host disease of the skin.** B. Schultz, D. Miller, T. DeFor and S. Holtan. Minneapolis, MN. 12:30 pm, Abstract #412
2. **Sézary syndrome patient-derived xenografts for 21-color flow cytometry immunophenotyping and CART cell therapeutic testing.** K. Staser, M. Cooper, J. Choi, A. Chukka, K. Ashami, K. Harrill, S. Li, A. Cashen, A. Musiek and JF. DiPersio. St. Louis, MO. 12:36 pm, Abstract #441
3. **Demethylzeylasteral inhibits the skin trafficking of CD8+ T cells in patients with vitiligo through the inactivation of IFN- γ -JAK-STAT1-CXCL10 signaling pathway in keratinocytes.** Y. Chang, W. Zhang and C. Li. Xi'an, Shaanxi, China. 12:42 pm, Abstract #444
4. **Ruxolitinib inhibits cyclosporine a (CSA) induced proliferation of squamous cell carcinoma (SCC): Implications for treating catastrophic SCC in organ transplant recipients (OTRs).** MR. Abikhair, N. Roudiani, J. Chen, A. Santana, NA. Doudican, C. Proby, D. Felsen and JA. Carucci. New York, NY and Dundee, Scotland, United Kingdom. 12:48 pm, Abstract #454
5. **Molecular correlation with clinical outcomes in an open label clinical trial of oral tofacitinib in patients with alopecia areata.** A. Bitterman, A. Jabbari, J. Chen, A. de Jong, R. Clynes, J. Mackay-Wiggan and A. Christiano. New York, NY. And Iowa City, IA. 12:54 pm, Abstract #455
6. **A tension-based skin explant model.** MJ. Conneely, S. Roque, TG. McWilliams, D. Lunny, Y. Cheah, M. Bjorklund, W. McLean and RP. Hickerson. Dundee, Scotland, United Kingdom; Helsinki, Finland and Singapore, Singapore. 1:00 pm, Abstract #499
7. **Identifying adalimumab cellular and molecular targets in psoriasis.** R. Andres Ejarque. London, England, United Kingdom. 1:06 pm, Abstract #553
8. **Integrating serum and skin biomarkers to assess disease extent beyond clinical scores, advancing precision therapeutics.** K. Malik, T. Czarnowicki, H. Wen, S. Noda, AB. Pavel, S. Nakajima, T. Honda, JU. Shin, H. Lee, JG. Krueger, K. Lee, K. Kabashima and E. Guttman-Yassky. New York, NY; Kyoto, Japan and Seoul, Republic of Korea. 1:12 pm, Abstract #555
9. **Anti-pruritic properties of remetinostat (SHAPE), a topical histone deacetylase inhibitor (HDACi); data from a randomized phase 2 study in patients with stage IA- IIA mycosis fungoides.** M. Duvic, J. Guitart, A. Huen, P. Porcu, NR. LeBoeuf, J. Skolnik, K. Owen, J. Ohd and YH. Kim. Houston, TX; Chicago, IL; Philadelphia, PA; Boston, MA; Plymouth Meeting, PA; Huddinge, Stockholms Lan, Sweden and Stanford, CA. 1:18 pm, Abstract #607
10. **A novel method of objectively quantifying cutaneous sclerosis.** AR. Cardones, S. Lee, J. Hooten, R. Hall, K. Sullivan and M. Palmeri. Durham, NC. 1:24 pm, Abstract #611

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IID 2018

Selected ePoster Discussions II

Growth Factors, Cell Adhesion and Matrix Biology

Studies on growth factors and the interactions of cells with their local cellular and extracellular environment that affect signaling, adhesion, migration and development.

Friday, May 18, 2018

12:30 pm - 1:30 pm

Gatlin Foyer Kiosk #4

Moderator: Matthew Caley, PhD

1. **Imaging nanoscale changes in desmosome protein organization.** E. Bartle, T. Urner, T. Rao, AP. Kowalczyk and AL. Mattheyses. Birmingham, AL and Atlanta, GA. 12:30 pm, Abstract #876
2. **IL-9 mediated human primary keratinocytes invasion is dependent on MLC controlled contractility and independent of MMP activity.** S. Das, S. Srinivasan, A. Srivastava, S. Kumar, G. Das, S. Das, A. Gupta, C. Nayak and R. Purwar. Bombay, Mumbai, India. 12:36 pm, Abstract #879
3. **Elevated expression of osteopontin splice variants in nonmelanoma skin cancer compared to normal skin and adult keratinocytes.** C. Chou, C. Huang and P. Chang. Birmingham, AL. 12:42 pm, Abstract #874
4. **Immunoglobulin G of bullous pemphigoid patient directly influence motility and adherence of cultured human keratinocytes via Rac1 signaling.** D. Tie, X. Da, Y. Chinuki and E. Morita. Izumo, Shimane, Japan. 12:48 pm, Abstract #846
5. **EGFR proteomics reveals novel EphA2-dependent trafficking and signaling pathways in epidermal keratinocytes.** C. Cable, N. Kaplan, A. Balu, S. Bhatt, M. Sia and BE. Perez White. Chicago, IL. 12:54 pm, Abstract #860
6. **VE-cadherin internalization coordinates endothelial cell functions during vascular development.** C. Grimsley-Myers, C. Cadwell, R. Isaacson, J. Campos, W. Giang and AP. Kowalczyk. Atlanta, GA. 1:00 pm, Abstract #864
7. **Hypoxia induced Cyr61 productions involved in the pathogenesis of infantile hemangioma.** P. Wu, Z. Yu, X. Lin and G. Ma. Shanghai, China. 1:06 pm, Abstract #868
8. **IL-17 promotes human primary keratinocyte invasion potential by controlling cell mechanics: A novel MMP-independent mechanobiology pathway.** S. Srinivasan, S. Das, A. Srivastava, S. Kumar, G. Das, S. Das, A. Gupta, C. Nayak and R. Purwar. Bombay, Mumbai, India. 1:12 pm, Abstract #869
9. **E-cadherin binds desmoglein to facilitate desmosome assembly.** M. Ruebsam, O. Shafraz, S. Stanley, AP. Kowalczyk, C. Niessen and S. Sivasankar. Cologne, Germany; Ames, IA and Atlanta, GA. 1:18 pm, Abstract #870
10. **Epithelial integrin $\alpha 3$ impacts the composition of the cellular microenvironment.** Y. He, K. Thriene, M. Boerries, H. Busch, J. Dengjel and C. Has. Freiburg, Germany; Lübeck, Germany and Fribourg, Switzerland. 1:24 pm, Abstract #872

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Selected ePoster Discussions II

Pigmentation and Melanoma

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

Friday, May 18, 2018

12:30 pm - 1:30 pm

Gatlin Foyer Kiosk #5

Moderator: Atsushi Otsuka, MD/PhD

1. **Post-diagnosis aspirin use and overall survival in patients with melanoma.** S. Rachidi, K. Wallace, H. Li, T. Lautenschlaeger and Z. Li. Baltimore, MD; Charleston, SC and Indianapolis, IN. 12:30 pm, Abstract #1178
2. **Melanospheres identify microRNA-519d as a promoter of melanoma progression by modulating EphA4.** Y. Liao, K. Hua, H. Huang and J. Chen. Taipei, Taiwan. 12:36 pm, Abstract #1182
3. **Immune surveillance and evasion in the progression from common melanocytic nevi to dysplastic nevi to malignant melanoma.** B.Y. Yan, S. Garcet, N. Gulati, H. Mitsui, F. Kiecker and J.G. Krueger. New York, NY; Chuo, Yamanashi, Japan and Berlin, Germany. 12:42 pm, Abstract #1188
4. **Forced expression of the reprogramming factors leads to attenuation of melanoma malignancy through MET-like transdifferentiation and suppression of MAPK and AKT pathways.** M. Takaishi and S. Sano. Nankoku, Kochi, Japan. 12:48 pm, Abstract #1196
5. **The regulatory role of lncRNA CD27-AS1 on CD27 contributes to melanomagenesis.** J. Ma, P. Xu, S. Guo, Q. Shi and C. Li. Xi'an, Shaanxi, China. 12:54 pm, Abstract #1199
6. **POU3F2 is a radioprotector and a tumor suppressor.** M. Hamm, M. Le Coz and L. Larue. Orsay, France. 1:00 pm, Abstract #1224
7. **Role of CC-chemokine receptor 6 (CCR6) and CC-chemokine ligand 20 (CCL20) mediated immunosurveillance in malignant melanoma.** D. Martín-García, A. Enk and A.S. Lonsdorf. Heidelberg, Germany. 1:06 pm, Abstract #1226
8. **Escape from adaptive drug tolerance through OGT and TET1 mediated H3K4me3 remodeling in MAPKi-resistant melanoma.** D. Ravindran Menon, H. Hammerlindl, A. Emran, J. Torrano, S. Hammerlindl, G. Zhang, L. Krause, R. Somasundaram, R. Sturm, N.K. Haass, K. Flaherty, M. Herlyn and H. Schaidt. Aurora, CO; Brisbane, Queensland, Australia; Philadelphia, PA and Boston, MA. 1:12 pm, Abstract #1237
9. **Plk1 phosphorylates Numb and promotes EMT in melanoma.** G. Chhabra, C.K. Singh, M.A. Ndiaye and N. Ahmad. Madison, WI. 1:18 pm, Abstract #1258
10. **The role of planar cell polarity gene FZD6 in melanoma progression.** B. Dong, S. Vold and H. Chang. Madison, WI. 1:24 pm, Abstract #1266

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IID 2018

Selected ePoster Discussions II

Skin, Appendages and Stem Cell Biology

Studies on the hair follicle, sebaceous gland, and other skin appendages; developmental biology of skin and hair; roles of stem cells in pre and post-natal growth and development.

Friday, May 18, 2018

12:30 pm - 1:30 pm

Gatlin Foyer Kiosk #6

Moderator: Ohsang Kwon, MD

1. **β -Catenin regulation in Krox20 lineage hair follicle epithelial cells.** C. Liao and L. Le. Dallas, TX. 12:30 pm, Abstract #1357
2. **Live imaging of keratin network in stratum granulosum reveals dynamic cytoskeletal changes during cornification in mice in vivo.** T. Matsui, K. Usui, Y. Furuichi, N. Kadono, H. Kawasaki, T. Okada and M. Amagai. Yokohama, Kanagawa, Japan. 12:36 pm, Abstract #1299
3. **A microtubule catastrophe factor regulates stem cell position and number in the skin.** R. Moreci, J. Underwood and T. Lechler. Durham, NC. 12:42 pm, Abstract #1308
4. **The de novo DNA methyltransferase DNMT3A is required for epidermal homeostasis.** IM. Ferguson, DY. Chen and TJ. Ley. St. Louis, MO. 12:48 pm, Abstract #1336
5. **Hair follicle growth and pigmentation during ageing.** C. Clavel. Singapore, Singapore. 12:54 pm, Abstract #1363
6. **Trichodysplasia spinulosa small T antigen drives ectopic hair follicle development in adult transgenic mice.** L. Syu, D. Wilbert, E. van der Meijden, M. Feltkamp and A. Dlugosz. Ann Arbor, MI and Leiden, Netherlands. 1:00 pm, Abstract #1386
7. **Hes1 regulates anagen initiation and hair follicle regeneration through modulation of hedgehog signaling.** H. Lin, P. Lin and L. Yang. Zhunan, Miaoli, Taiwan. 1:06 pm, Abstract #1326
8. **Inhibition of sebocyte HDAC activity promotes cytokine expression: An epigenetic model for acne pathogenesis by *Propionibacterium acnes*.** JA. Sanford, A. O'Neill, CC. Zouboulis and RL. Gallo. La Jolla, CA; San Diego, CA and Dessau, Germany. 1:12 pm, Abstract #1353
9. **Regulation of bmp signalling in melanogenesis, pigment transfer and melanocyte migration.** J. Lim, K. Ng, D. Quek, Z. Lim, T. Knyein, S. Sim and C. Clavel. Singapore, Singapore. 1:18 pm, Abstract #1360
10. **Lower proximal cup cells but not bulge stem cells regenerate hair follicles after chemotherapy injury.** W. Huang, J. Hong, M. Chang, C. Chen and S. Lin. Taipei, Taiwan and New York, NY. 1:24 pm, Abstract #1393

In an effort to further increase participation and visibility of abstracts submitted to IID 2018, the organizers are pleased to include this feature to the meeting.

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

Sponsored by:

SID William Montagna Lecture

Digging Deep: Secrets of the Dermis

Friday, May 18, 2018

2:15 pm - 2:45 pm

Gatlin D-E

Introduction by:

Kevin Wang, MD/PhD



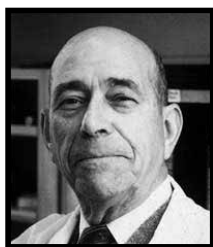
Valerie Horsley, PhD

Yale University, New Haven, CT

Valerie Horsley began her scientific training as an undergraduate at Furman University and was awarded her PhD from Emory University. After completing a Damon Runyon Cancer Research Foundation postdoctoral fellowship in Elaine Fuchs' laboratory at Rockefeller University, Valerie started her independent laboratory at Yale University in the Department of Molecular Cellular and Developmental Biology. Horsley's lab uses the mouse as a genetic model system to study how adult stem cells within epithelial tissues maintain tissue homeostasis, can contribute to wound healing, and can be a factor in cancer formation. She is now the Maxine F. Singer Associate Professor of Molecular, Cellular, and Developmental Biology at Yale, has received a number of awards including the Pew Scholar Award, Presidential Early Career Award for Scientists and Engineers, and the Rosalind Franklin Young Investigator Award.

LECTURESHIP HISTORY

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



JSID Guest Lecture*Control of Immune Responses by Regulatory T cells***Friday, May 18, 2018****2:45 pm - 3:15 pm****Gatlin D-E****Introduction by:****Akimichi Morita, MD/PhD****Shimon Sakaguchi, MD/PhD**

Osaka University, Osaka, Japan

Shimon Sakaguchi is a Professor at the Immunology Frontier Research Center (IFReC) at Osaka University, Japan. He is an immunologist recognized particularly for his discovery of regulatory T cells, an indispensable constituent of the immune system for the maintenance of immune self-tolerance and homeostasis. Sakaguchi obtained an MD in 1976 and a PhD in 1982 from Kyoto University, Japan, where he was trained as a pathologist and immunologist. After performing postdoctoral studies at Johns Hopkins University and Stanford University as a Lucille P. Markey Scholar, he served as an Assistant Professor in the Department of Immunology at the Scripps Research Institute. He returned to Japan in 1991 and continued his immunology research as the Head of the Department of Immunopathology at Tokyo Metropolitan Institute of Gerontology, Tokyo. From 1998 to 2011, he was a Professor of Institute for Frontier Medical Sciences Kyoto University and served as the Director of the Institute for several years. In 2011, his lab moved to Osaka University. He was awarded the Medal with Purple Ribbon from the Emperor in 2009, elected to Foreign Member of National Academy of Sciences USA in 2012, and has been awarded with many international prizes including Cancer Research Institute's William B. Coley Award for Basic Immunology and Tumor Immunology in 2004, Keio Medical Science Prize in 2008, Canada Gairdner International Award in 2015 and the Crafoord Prize in 2017.

Concurrent Mini-Symposium 7

Adaptive and Autoimmunity

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

Friday, May 18, 2018

3:30 pm – 6:00 pm

Gatlin D-E

Presiders: Niroshana Anandasbapathy, MD/PhD
Olivier Gaide, MD/PhD
Tatsuyoshi Kawamura, MD/PhD

- Sensory nerves promote cutaneous immune reaction by promoting dendritic cell functions.** A. Otsuka, C. Nakashima and K. Kabashima. Kyoto, Japan and Kyoto City, Japan. 3:30 pm, Abstract #035
- Lipid scavenger molecule CD36 regulates free fatty acid uptake and peripheral maintenance of tissue resident memory T cells.** Y. Pan, T. Tian, C. Park, C. Stingley, G. Hotamisligil, R. Clark and T. Kupper. Boston, MA. 3:42 pm, Abstract #053
- Keratinocytes affect biology of Langerhans cells through mRNA transfer.** Q. Su and B. Igyártó. Dallas, TX. 3:54 pm, Abstract #080
- IL-27 signaling is relevant for IL-15 production and T cell cluster maintenance in allergic contact hypersensitivity.** J. Suwanpradid, P. Hoang, L. Pontius, J. Kwok and A. MacLeod. Durham, NC. 4:06 pm, Abstract #087
- TGFβ producing macrophages support the differentiation of resident memory T cells in human dermis.** C. Yang, A. Gehad, J. Teague, J. O'Malley, E. Seger, J. Crouch and R. Clark. Boston, MA. 4:18 pm, Abstract #108
- miRNAs are required for embryonic development of skin immune cells.** Y. Yao, L. Zhou and Q. Mi. Detroit, MI. 4:30 pm, Abstract #117
- FcγRIIb deficiency accelerates immunoglobulin class switch and pemphigus phenotype development in pathogenic anti-desmoglein 3 antibody knock-in mice.** H. Nomura, H. Takahashi, Y. Kase, J. Yamagami, N. Wada, S. Koyasu and M. Amagai. Tokyo, Japan and Tsurumi City, Kanagawa, Japan. 4:42 pm, Abstract #017
- KLK6-PAR1 signaling drives psoriasiform manifestations in skin and bone.** Y. Fritz, J. Ludwig, R. Rozic, W. Swindell, R. Midura, J. Gudjonsson and N. Ward. Cleveland, OH and Ann Arbor, MI. 4:54 pm, Abstract #019
- The female-biased factor VGLL3 drives lupus-like skin inflammation in vivo.** Y. Liang, J. Fullmer, M. Verhaegen, S. Wolf, X. Xing, P. Harms, N. Ward, JM. Kahlenberg, A. Dlugosz and JE. Gudjonsson. Ann Arbor, MI and Cleveland, OH. 5:06 pm, Abstract #041
- Paradoxical psoriasis induced by anti-TNF is dependent on unabated type-I interferon driven innate IL22 overexpression.** A. Mylonas, J. Di Domizio, M. Gilliet and C. Conrad. Lausanne, Switzerland. 5:18 pm, Poster #044
- A dual role of IL-37 in adaptive immunity.** D. Osborne, J. Domenico, C. Dinarello and M. Fujita. Aurora, CO. 5:30 pm, Abstract #118
- Indispensable role of CD1d in natural IgE production.** A. Kitoh and K. Kabashima. Kyoto, Japan. 5:42 pm, Abstract #125

Concurrent Mini-Symposium 8

Clinical Research: Pathophysiology and Therapeutics

Including studies involving human tissue and human cells that furthers our understanding of skin disease.

Friday, May 18, 2018

3:30 pm – 6:00 pm

Panzacola F-1/2

Presiders: Herve Bachelez, MD/PhD
Anna Di Nardo, MD/PhD
Leihong Flora Xiang, MD/PhD

1. **A trial to determine the effect of psoriasis treatment (adalimumab, phototherapy, and placebo) on cardiometabolic disease: The vascular inflammation in psoriasis (VIP) trial.** JM. Gelfand, A. Joshi, D. Shin, A. Dey, D. Torrigian, D. Rader, M. Playford, M. Ahlman, A. Alavi and NN. Mehta. Philadelphia, PA and Bethesda, MD. 3:30 pm, Abstract #393
2. **NETosis-necroptosis axis mediated by LL-37 initiates and exacerbates Stevens-Johnson Syndrome (SJS) / Toxic Epidermal Necrolysis (TEN).** M. Kinoshita, Y. Ogawa, I. Ujiie, N. Hama, Y. Fujita, R. Abe, S. Shimada and T. Kawamura. Chuo, Yamanashi, Japan; Sapporo, Hokkaido, Japan and Niigata, Japan. 3:42 pm, Abstract #409
3. **IL-17C: Checkpoint in innate skin immunology.** F. Lauffer, V. Baghin, C. Albanesi, S. Madonna, S. Steidl, N. Vandeghinste, T. Biedermann and K. Eyerich. Munich, Germany; Rome, Italy; Planegg, Germany and Mechelen, Belgium. 3:54 pm, Abstract #415
4. **Anti-CCR4 monoclonal antibody, mogamulizumab (Moga), demonstrates superior efficacy compared to vorinostat (Vor) in patients with previously treated cutaneous T-cell lymphoma (CTCL): results of the phase 3 MAYORIC study.** YH. Kim, M. Bagot, AH. Rook, S. Whittaker and M. Duvic. Stanford. CA; Paris, France; Philadelphia, PA; London, England, United Kingdom and Houston, TX. 4:06 pm, Abstract #459
5. **Preclinical development of desmoglein chimeric autoantibody receptor (CAAR) T cells for pemphigus therapy.** J. Lee, CT. Ellebrecht, X. Mao, A. Nace, EJ. Choi, MC. Milone and AS. Payne. Philadelphia, PA. 4:18 pm, Abstract #461
6. **Benign T cells drive visible inflammation in cutaneous T cell lymphoma.** P. Vieyra-Garcia, J. OMalley, J. Crouch, E. Seger, J. Teague, E. Lowry, A. Gehad, T. Kupper, P. Wolf and R. Clark. Graz, Austria and Boston, MA. 4:30 pm, Abstract #481
7. **Mechanisms in residual plaques in patients with an overall good response to biologics.** KM. Smith, S. Mashiko, R. Edelmayer, Y. Bi, V. Kaimal, L. Olson, S. Huang, J. Wetter, K. Salte, J. Wang, X. Li, S. Garcet, A. Kannan, S. Cao, C. Maari, E. St-Cyr Proulx, Z. Liu, J. Krueger, M. Sarfati and R. Bissonnette. Worcester, MA; Montreal, PQ, Canada; Chicago, IL and New York, NY. 4:42 pm, Abstract #484
8. **Molecular analysis differentiates inflammatory dermatoses from skin rejection in face transplant recipients.** T. Win, B. Dyring-Andersen, J. Teague, L. Riella, B. Pomahac and R. Clark. Boston, MA. 4:56 pm, Abstract #486
9. **Induction of T cell exhaustion by JAK1/3 inhibition in the treatment of alopecia areata.** Z. Dai and AM. Christiano. New York, NY. 5:06 pm, Abstract #487
10. **Decrease of epidermal galectin-3 contribute to the pathogenesis of psoriasis by promoting keratinocyte activation.** Z. Shi, G. Tan and L. Wang. Guangzhou, Guangdong, China. 5:18 pm, Abstract #396
11. **Exploring molecular transformation in psoriatic patients during 84 days of anti-IL-17A treatment.** T. Bertelsen, C. Ljungberg, L. Iversen and C. Johansen. Aarhus, Denmark. 5:30 pm, Abstract #446
12. **Metformin exerts anti-neoplastic effects against human and murine squamous cell carcinoma.** T. Welponer, L. Trattner, JW. Bauer, J. Reichelt, B. Kofler, J. Piñón Hofbauer and C. Guttman-Gruber. Salzburg, Austria. 5:42 pm, Abstract #498

Concurrent Mini-Symposium 9

Growth Factors, Cell Adhesion and Matrix Biology

Studies on growth factors and the interactions of cells with their local cellular and extracellular environment that affect signaling, adhesion, migration and development.

Friday, May 18, 2018

3:30 pm – 6:00 pm

Conway

Presiders: Radhika Atit, PhD

Sabine Eming, MD

Hironobu Ihn, MD/PhD

1. **Identification of a novel pathway linking TGF- β , fibronectin and integrin $\alpha 5\beta 1$ that promotes invasion in basal cell carcinoma.** F. Kuonen, I. Kuonen, M. Dontenwill, C. Rüegg, AE. Oro, M. Gilliet and O. Gaide. Stanford, CA; Lausanne, Switzerland; Strasbourg, France and Fribourg, Switzerland. 3:30 pm, Abstract #844
2. **Absence of collagen VII binding to thrombospondin 1 promotes activation of TGF-beta in recessive dystrophic epidermolysis bullosa.** VS. Atanasova, R. Russel, TG. Webster, P. Agarwal, S. Krishnan, J. Salas, A. Fertala and AP. South. Philadelphia, PA and Pittsburgh, PA. 3:42 pm, Abstract #862
3. **Targeting hyaluronan in the skin alters reactive adipogenesis in the colon.** T. Dokoshi and RL. Gallo. San Diego, CA and La Jolla, CA. 3:54 pm, Abstract #856
4. **CCN2/Connective tissue growth factor regulates G1 to S phase cell cycle progression in human skin fibroblasts.** T. Quan, Z. Qin, T. Purohit, Y. Shao, J. Baldassare, JJ. Voorhees and GJ. Fisher. Ann Arbor, MI and St. Louis, MO. 4:06 pm, Abstract #861
5. **Enhancement of cutaneous wound healing by Dsg2-augmented uPAR secretion.** AM. Overmiller, F. Cooper, A. Loder, DM. Brennan-Crispi, KP. McGuinn, MR. Marous, TA. Freeman, LD. Siracusa and MG. Mahoney. Philadelphia, PA; Hershey, PA and Danville, PA. 4:18 pm, Abstract #849
6. **Short-term ozone exposure stimulates both IGF1R and EGFR to promote diabetic wound healing.** XQ. Wang, J. Lu, H. Mannam, Y. Joo, L. Gao and AS. Paller. Chicago, IL and Changsha, Hunan, China. 4:30 pm, Abstract #852
7. **Dermal fibroblasts control mast cell reactivity to commensal bacteria.** Y. Chang, K. Sriram, Z. Wang, S. Igawa, PA. Insel and A. Di Nardo. La Jolla, CA. 4:42 pm, Abstract #853
8. **Fibroblast heterogeneity in human adult dermis: IGF-1/TGF- β 1 signal modification to rejuvenate reticular fibroblasts.** OJ. Culley, G. Jenkins, RC. Siow and FM. Watt. London, England, United Kingdom and Sharnbrook, England, United Kingdom. 4:54 pm, Abstract #857
9. **A "splicing switch" provides dual layer control of laminin alpha3: Implications for squamous cell carcinoma.** LD. Troughton, V. Barrera, L. Brown, T. Zech, CE. Willoughby, JM. Risk and KJ. Hamill. Liverpool, England, United Kingdom and Coleraine, Northern Ireland, United Kingdom. 5:06 pm, Abstract #865
10. **A novel animal model of Desmoglein 1 (Dsg1) deficiency reveals an essential role for Dsg1 in epidermal barrier formation.** LM. Godsel, GN. Fitz, JL. Koetsier and KJ. Green. Chicago, IL. 5:18 pm, Abstract #875
11. **Pemphigus foliaceus IgG autoantibodies block heterophilic trans-interaction of desmoglein 1 and desmocollin 1 without intracellular signaling.** K. Ishii, K. Yoshida, JR. Stanley and A. Ishiko. Tokyo, Japan and Philadelphia, PA. 5:30 pm, Abstract #850
12. **Desmoglein 3 acts as a mechanosensor in keratinocytes.** J. Uttagomol, A. Águedo, J. Connelly and H. Wan. London, England, United Kingdom. 5:42 pm, Abstract #858

Concurrent Mini-Symposium 10

Pigmentation and Melanoma

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

Friday, May 18, 2018

3:30 pm – 6:00 pm

Panzacola G-1

Presiders: Ramiro Iglesias-Bartolome, PhD
Nikolas Haass, MD/PhD
Lionel Larue, PhD

1. **UBE2N promotes melanoma growth by maintaining MEK and FRA1 signaling.** A. Dikshit, J. Jin, S. Degan, J. Huang, M. Foste, A. Moseley, C. Li and J. Zhang. Durham, NC. 3:30 pm, Abstract #1231
2. **AIM2-deficient dendritic cell vaccination improves adoptive T-cell therapy via the activation of type I IFN signaling through STING.** K. Fukuda, RL. Riding and JE. Harris. Worcester, MA. 3:42 pm, Abstract #1203
3. **Label-free high-throughput photoacoustic imaging of circulating melanoma tumor cells in patients in vivo.** P. Hai, L. Shmuylovich, Y. Qu, LA. Cornelius and L. Wang. Pasadena, CA and St. Louis, MO. 3:54 pm, Abstract #1204
4. **PD-1 blockade impedes tumor growth in the immunogenic YUMMER1.7 mouse melanoma model.** N. Turner, W. Damsky, J. Wang, K. Meeth, K. Blenman and M. Bosenberg. New Haven, CT. 4:06 pm, Abstract #1245
5. **ATF4-dependent regulation of vemurafenib resistance in melanoma by NLRP1.** Z. Zhai, JM. Samson and M. Fujita. Aurora, CO. 4:18 pm, Abstract #1255
6. **CDK1 phosphorylates Sox2 and enhances tumor initiation and stemness in human melanoma.** D. Ravindran Menon, Y. Luo, J. Arcaroli, D. Osborne, W. Robinson, W. Messersmith and M. Fujita. Aurora, CO. 4:30 pm, Abstract #1260
7. **Effects of MTH1 inhibitor TH1579 on cutaneous melanoma.** I. Das, H. Gad, L. Pudelko, L. Bräutigam, R. Tuominen, T. Helleday, J. Hansson, S. Brage and U. Berglund. Stockholm, Sweden. 4:42 pm, Abstract #1180
8. **ATP-citrate lyase contributes to melanoma growth and MAPK inhibitors resistance by epigenetically regulating MITF and oxidative phosphorylation.** W. Guo, J. Ma, S. Guo, T. Gao and C. Li. Xi'an, Shaanxi, China. 4:54 pm, Abstract #1198
9. **RNF4 ubiquitin ligase drives melanoma progression.** E. Avitan-Hersh, Y. Feng, Y. Zohar, T. Zhang, K. Brown, R. Bergman, ZA. Ronai and A. Orian. Haifa, Israel; La Jolla, CA and Bethesda, MD. 5:06 pm, Abstract #1207
10. **High Rab27a expression is associated with poor melanoma prognosis and promotes melanoma cell invasion and metastasis via regulation of pro-invasive exosomes.** D. Guo, GY. Lui, S. Tikoo, W. Weninger, KA. Beaumont and N.K. Haass. Sydney, Australia and Brisbane, Australia. 5:18 pm, Abstract #1243
11. **Activation of G protein-coupled estrogen receptor signaling inhibits melanoma and improves response to immune checkpoint blockade.** C. Natale, J. Li, J. Zhang, A. Dahal, T. Dentchev, B. Stanger and T. Ridky. Philadelphia, PA. 5:30 pm, Abstract #1244
12. **HSP70i^{Q435A}-encoding DNA repigments vitiligo lesions in Sinclair swine.** S. Henning, M. Fernandez, J. Mahon, R. Duff, F. Azarafrooz, Y. Guy, A. Salzman and C. Le Poole. Chicago, IL and West Tisbury, MA. 5:42 pm, Abstract #1262

Concurrent Mini-Symposium 11

Skin, Appendages and Stem Cell Biology

Studies on the hair follicle, sebaceous gland, and other skin appendages; developmental biology of skin and hair; roles of stem cells in pre and post-natal growth and development.

Friday, May 18, 2018

3:30 pm – 6:00 pm

Panzacola F-3/4

Presiders: Peggy Myung, MD/PhD
Manabu Ohyama, MD/PhD
Ralf Paus, MD

1. **Flexible fate determination ensures robust differentiation in the skin hair follicle.** T. Xin and V. Greco. New Haven, CT. 3:30 pm, Abstract #1330
2. **Fzd2 controls multiple aspects of epidermal development through distinct signaling mechanisms.** DM. Brennan-Crispi, M. Xu, J. Horrell, M. Frankfurter, Y. Zhang, EE. Morrissey and SE. Millar. Philadelphia, PA and Cincinnati, OH. 3:42 pm, Abstract #1313
3. **Beyond goosebumps: Interactions between the hair follicle, the arrector pili muscle, and the sympathetic nerve during development and hair follicle regeneration.** Y. Shwartz, M. Gonzalez Celeiro, C. Chen, S. Lin and Y. Hsu. Cambridge, MA and Taipei, Taiwan. 3:54 pm, Abstract #1334
4. **Maintenance of epidermal progenitor function through the mRNA degradation and translation pathways.** G. Sen. La Jolla, CA. 4:06 pm, Abstract #1335
5. **Single cell transcriptome profiling of human interfollicular epidermis reveals robust heterogeneity and divergent differentiation lineages.** M. Drummond, S. Wang, A. MacLean, G. Gutierrez, Q. Nie and S. Atwood. Irvine, CA. 4:18 pm, Abstract #1337
6. **Hair growth is induced by blockade of macrophage-derived oncostatin M and downstream JAK-STAT5 signaling in hair follicle stem cells.** E. Wang and A. Christiano. New York, NY. 4:30 pm, Abstract #1359
7. **Molecular mechanisms of donor dominance in androgenetic alopecia.** Y. Doucet, J. Chen, H. Erbil Abaci, C. Jahoda and A. Christiano. New York, NY and Durham, England, United Kingdom. 4:42 pm, Abstract #1381
8. **Identifying the key niche signals for hair follicle formation.** K. Mok, Z. Wang, R. Sennett, A. Rezza, N. Heitman, A. Ma'ayan and M. Rendl. New York, NY. 4:54 pm, Abstract #1387
9. **Lineage-committed fibroblast populations are more efficient at regenerating hair follicles in chamber grafting assays when compared to undifferentiated embryonic fibroblasts.** L. Salz and RR. Driskell. Pullman, WA. 5:06 pm, Abstract #1390
10. **Roles for differentiated cells in epidermal development and morphogenesis.** W. Ning and T. Lechler. Durham, NC. 5:18 pm, Abstract #1309
11. **Identification of two distinct stem cell clusters, Lrig1-derived and Wnt/CD44-dependent, in corneal epithelium.** L. Barnes, A. Moulin and G. Kaya. Geneva, Switzerland and Lausanne, Switzerland. 5:30 pm, Abstract #1378
12. **CENPV is a novel CYLD-interacting molecule regulating ciliary acetylated tubulin.** E. Chiticariu, M. Huber and D. Hohl. Lausanne, Switzerland. 5:42 pm, Abstract #1329

Concurrent Mini-Symposium 12

Interdisciplinary Spotlight: Oncology

Abstracts focusing on melanoma and non-melanoma skin cancers.

Friday, May 18, 2018

3:30 pm – 6:00 pm

Panzacola G-2

Presiders: Minoru Hasegawa, MD/PhD
Anthony Oro, MD/PhD
Thomas Tueting, MD

1. **T cell specific microRNA-155 regulates the immune landscape of B16f10 melanoma.** T. Huffaker and R. O'Connell. Salt Lake City, UT. 3:30 pm, Abstract #004
2. **T_{RM} recall is critically governed by PD-1:PD-L1/2 cross-talk with classical DCs.** K. Devi, T. Kim, C. Nirschl, Y. Liu, K. Haitz, N. Gulati, P. Wu, J. Fuentes-Duculan, C. Schmults, JG. Krueger, C. Yoon, P. Sage, A. Sharpe and N. Anandasabapathy. Boston, MA and New York, NY. 3:42 pm, Abstract #121
3. **A small molecule CCR2 antagonist depletes tumor macrophages and stimulates CD8 T cell accumulation in a murine model of cutaneous T cell lymphoma (CTCL).** X. Wu, R. Singh, JJ. Campbell and ST. Hwang. Sacramento, CA and Mountain View, CA. 3:54 pm, Abstract #429
4. **High PD-1 expression in T_{RM}-like TILs in a spontaneous melanoma model.** K. Devi, Y. Liu, S. Ostrowski, D. Fisher and N. Anandasabapathy. Boston, MA; New York, NY and Charlestown, MA. 4:06 pm, Abstract #119
5. **Tumor-infiltrating CD5⁺ regulatory B1 cells suppress melanoma tumor immunity via inhibiting cytokine production of tumor-infiltrating CD8⁺ T cells.** T. Kobayashi, T. Matsushita, Y. Hamaguchi, M. Fujimoto and K. Takehara. Kanazawa, Ishikawa, Japan and Tsukuba, Ibaraki, Japan. 4:18 pm, Abstract #002
6. **DRP1 Inhibition as an adjuvant for BH3 mimetics in melanoma.** N. Mukherjee, A. Strosnider, B. Vagher, K. Lambert, C. Amato, W. Robinson, D. Norris and Y. Shellman. Aurora, CO. 4:30 pm, Abstract #1193
7. **Applying FACS-seq to study mouse Merkel cell development.** L. Miao, M. Kelly, S. Barkdull, M. Kelley and I. Brownell. Bethesda, MD. 4:42 pm, Abstract #1388
8. **High-throughput small-molecule and RNAi screens identify Aurora kinase B inhibitors as a novel treatment for Merkel cell carcinoma.** T. Gelb, D. Urban, A. Coxon, B. Gryder, Y. Xiao, R. Glavin, S. Chakka, O. Lee, M. Shen, M. Lal-Nag, M. Hall and I. Brownell. Bethesda, MD and Rockville, MD. 4:54 pm, Abstract #1104
9. **Prognostic miRNA classifier in early-stage mycosis fungoides: Development and validation in a Danish nationwide study.** L. Lindahl, S. Besenbacher, A. Rittig, C. Johansen, N. Odum and L. Iversen. Aarhus, Denmark and Copenhagen, Denmark. 5:06 pm, Abstract #531
10. **An integrated approach to predict and detect Merkel cell carcinoma recurrences.** KS. Lachance, HJ. Thomas, AM. McEvoy, DS. Hippe and P. Nghiem. Seattle, WA. 5:18 pm, Abstract #594
11. **Epidermal tissue differentiation requires the uncharacterized protein RED1.** C. Tommasi, DT. Sessions, A. Mah, M. Lee, JY. Shen and CS. Lee. Stanford, CA. 5:30 pm, Abstract #697
12. **Tsc2 haploinsufficiency accelerates tumor progression in a mouse model of TSC skin tumors.** P. Klover, S. Li, J. Kato, J. Wang, J. Moss and T. Darling. Bethesda, MD. 5:42 pm, Abstract #790

National Psoriasis Foundation Reception at IID



Friday, May 18, 2018

6:30 pm – 8:00 pm

Sandlake

*Join us for an exciting opportunity to
network and learn about
NPF's research grants and fellowships,
patient engagement in research,
and membership opportunities.*

*Hosted bar and light hors d'oeuvres
will be provided.*

*Questions please email us at
research@psoriasis.org*

SATO Pharmaceutical CO., LTD.,
Tokyo JAPAN
SATO Scientific Forum at IID 2018



Friday, May 18, 2018

6:30 pm – 9:30 pm

Conway



Amy S. Paller, MD/MSci

Walter J. Hamlin Professor and Chair of Dermatology
 Professor of Pediatrics
 Director, Skin Disease Research Center
 Northwestern University Feinberg School of Medicine
 Chicago, Illinois, USA

Atopic Dermatitis - How our Increasing Understanding of Pathogenesis is Translating into New and Emerging Therapies

Dr. Paller is the Walter J. Hamlin Professor and Chair of the Department of Dermatology and Professor of Pediatrics at Northwestern University's Feinberg School of Medicine. She also serves as Principal Investigator of the NIH-funded Skin Disease Research Center at Northwestern. An author of more than 400 original publications, Dr. Paller is an NIH-funded investigator who currently serves on the Council for the National Institutes for Arthritis, Musculoskeletal, and Skin Diseases. Her laboratory focuses on topically delivered gene therapy using nanotechnology, diabetic wound healing, and cutaneous innervation. Dr. Paller has directed the Pediatric Dermatology Clinical Trials Unit at Northwestern University/ the Lurie Children's Hospital of Chicago for the past 20 years, and has been the lead investigator on several landmark trials. Her major clinical research interests are genetic skin disorders and pediatric cutaneous immunologic disorders, including atopic dermatitis. She has discovered skin and blood biomarkers of pediatric (vs. adult) atopic dermatitis, is developing wireless sensors to replace actigraphy, and is testing new tools to measure itch and stigma in atopic dermatitis. She has served on the Board of Directors of the American Academy of Dermatology, the Society for Investigative Dermatology, the Society for Pediatric Dermatology, the Women's Dermatologic Society, The American Board of Dermatology, and the American Dermatological Association. She has been President of the Society for Pediatric Dermatology, Society for Investigative Dermatology, and the Women's Dermatologic Society, and inaugural co-Chair of the Pediatric Dermatology Research Alliance. She is currently President of the International Eczema Council and the International Society for Pediatric Dermatology. She co-authors Hurwitz's Clinical Pediatric Dermatology and has served as an editor of the Journal of Investigative Dermatology. Among recently received honors are the Clarence S. Livingood, MD Memorial Award from the American Academy of Dermatology, Mentor of the Year, Rose Hirschler, and the Wilma Bergfeld, MD Visionary & Leadership awards from the Women's Dermatological Society, Founder's Award from the Chicago Dermatological Society, Stephen Rothman Award from the Society for Investigative Dermatology, and the inaugural Paula Stern Outstanding Women in Science and Medicine Award from Northwestern University.

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29 Years of IID History

IID 1989 - Washington, DC

IID 1993 - Kyoto, Japan

IID 1998 - Cologne, Germany

IID 2003 - Miami, Florida

IID 2008 - Kyoto, Japan

IID 2013 - Edinburgh, Scotland

IID 2018 - Orlando, Florida

**The IID Organizers and Leaders of
ESDR, JSID, and SID
would like to thank you for attending**

IID 2018
International Investigative Dermatology



Meeting-At-A-Glance

Saturday, May 19, 2018

**Neuroimmunology of the Skin:
Regulation of the Nervous System
by the Immune System** 7:00 am - 8:30 am
Gatlin D-E

Plenary Session IV 8:45 am - 9:45 am
Gatlin D-E

JSID Awardee Lecture 9:45 am - 10:15 am
*Decrypting the Complex Barrier System
of Mammalian Skin*
Akiharu Kubo, MD/PhD Gatlin D-E

Plenary Session V 10:15 am - 11:15 am
Gatlin D-E

Come See My Poster Session III 11:15 am - 11:30 am
Poster #'s 559, 515, 618, 671, 819,
775, 1056, 1060, 1125, 1130, 923, 935 Gatlin D-E

Poster Session III/Coffee Break 11:45 am - 1:45 pm
• Odd Poster #'s 493-981 Gatlin A-C
• Even Poster #'s 984-1474

Oculus Virtual Reality Symposium 12:00 pm - 1:30 pm
*New and Emerging Agents for the
Management of Moderate-to-Severe Atopic
Dermatitis in Adults: A Virtual Reality View*
Gatlin D-E
Sponsored Symposium by an educational grant from Lilly

Selected ePoster Discussions III 12:15 pm - 1:15 pm
• Clinical Research: Patient Outcomes Research Gatlin Foyer Kiosk #1
• Epidermal Structure and Barrier Function Gatlin Foyer Kiosk #2
• Genetic Disease, Gene Regulation and Gene Therapy Gatlin Foyer Kiosk #3
• Immunology II Gatlin Foyer Kiosk #4
• Pharmacology and Drug Development Gatlin Foyer Kiosk #5
• Photobiology Gatlin Foyer Kiosk #6

Sponsored by: Rodan & Fields

ESDR Celgene Lecture 2:00 pm - 2:30 pm
*Molecules and Mechanisms of Body-Surface
Surveillance by Local T cells*
Gatlin D-E
Adrian Hayday, PhD

SID Kligman/Frost Leadership Lecture 2:30 pm - 3:00 pm
Decoding The Regulatory Genome
Gatlin D-E
Paul A. Khavari, MD/PhD

Concurrent Mini-Symposia 3:15 pm - 5:45 pm
13. Clinical Research: Patient Outcomes Research Panzacola F-3/4
14. Epidermal Structure and Barrier Function Gatlin D-E
15. Genetic Disease, Gene Regulation and Gene Therapy Panzacola F-1/2
16. Pharmacology and Drug Development Conway
17. Photobiology Panzacola G-1
18. Interdisciplinary Spotlight: Atopic Dermatitis Panzacola G-2

Closing Ceremonies 6:00 pm - 6:30 pm
Gatlin D-E

Neuroimmunology of the Skin: Regulation of the Nervous System by the Immune System

Saturday, May 19, 2018

7:00 am - 8:30 am

Gatlin D-E

7:00 am **Welcome: Ethan Lerner, MD/PhD**

7:05 am **Sarina Elmariah, MD/PhD**



Massachusetts General Hospital, Boston, MA

Atopic Dermatitis: The Itch that Rashes

Sarina B. Elmariah, MD/PhD is on the dermatology faculty at Harvard Medical School and Massachusetts General Hospital (MGH). She received her BA, MD and PhD degrees from the University of Pennsylvania. Her PhD is in developmental neuroscience, also from Penn. She completed her dermatology residency at New York University. In 2010, Dr. Elmariah joined the clinical and research faculty at the Massachusetts General Hospital in Boston where she specializes in treating patients with chronic itching and severe inflammatory disorders including refractory atopic dermatitis, psoriasis, allergic skin reactions, and cutaneous lymphomas. As a physician-scientist, her basic science research is directed toward understanding why people itch and how cutaneous nerves affect skin function and disease. She has published in *Cell*, *Nature Communications*, *JAMA Internal Medicine*, the *Journal of the American Academy of Dermatology*, the *British Journal of Dermatology*, and the *Journal of Neuroscience*. She serves as a reviewer for multiple journals and has authored several online publications and book chapters. She lectures regularly to trainees in the Harvard Combined Dermatology Residency and annually at the American Academy of Dermatology.

7:25 am

Brian Kim, MD/PhD



Washington University, St. Louis, MO

IL-4 and the Neuro-Immune Connection

Dr. Brian Kim is Assistant Professor of Dermatology, Anesthesiology, Pathology and Immunology, and Co-Director of the Center for the Study of Itch at Washington University School of Medicine in St. Louis. His laboratory focuses on innate immune mechanisms that underlie skin inflammation and the sensation of itch. Specifically, the Kim Lab identified previously unrecognized contributions of group 2 innate lymphoid cells (ILC2s) and basophils to the pathogenesis of atopic dermatitis (AD) in both mice and humans. These cells have emerged as critical sources of the type 2 cytokines IL-4, IL-5, and IL-13, which are now among the most important targets for biologic therapy in AD and other allergic disorders. More recently, the Kim Lab was the first to identify functionality of IL-4 receptor alpha (IL-4R α) and Janus kinases (JAKs) in sensory neurons as master regulators of chronic itch in AD and other disorders. These studies have immediate clinical implications as type 2 cytokine and JAK blockade have emerged as some of the most efficacious therapeutics in AD. His research on the immune regulation of AD and itch has led to awards and funding from the National Institutes of Health, Doris Duke Charitable Foundation, American Skin Association, American Academy of Dermatology, and the American Society for Clinical Investigation.

7:45 am

Junichi Hachisuka, MD/PhD



University of Pittsburgh, Pittsburgh, PA

How the Spinal Cord Interprets and Modulates itch

Dr. Hachisuka completed his dermatology and electrophysiology training at Kyushu University in Japan. He is currently at University of Pittsburgh where he developed a new electrophysiology technique to understand the microcircuit of itch and pain in the spinal cord.

8:05 am

Ethan Lerner, MD/PhD



Massachusetts General Hospital, Charlestown, MA

Connectivity Between the Immune and Nervous Systems with a Focus on Mast Cells

Ethan Lerner is interested in the mechanisms that underlie the sensation of itch. His studies are directed toward the interplay between the nervous and immune systems in skin biology. He is a leader in the identification of mediators and receptors necessary for itch. He obtained his BA in chemistry from Penn, MD and PhD in Cell Biology and Immunology at Yale, followed by two years of residency in internal medicine at the University of Washington. He moved to Boston to train in dermatology where he runs a research group at Massachusetts General Hospital and serves on the faculty of Harvard Medical School.

8:25 am

Questions and Discussion

Plenary Session IV

Saturday, May 19, 2018

8:45 am – 9:45 am

Gatlin D-E

Presiders: Bernhard Homey, MD
Peggy Myung, MD/PhD
Yoshiki Tokura, MD/PhD

1. **Subcutaneous adipose tissue harbors a leukocyte compartment distinct from skin.** M. Brueggen, J. Strobl, G. Stary, H. Kiprov, L. French and G. Stingl. Zurich, Switzerland and Vienna, Austria. 8:45 am, Abstract #433
2. **BCC to SCC pathway switching during tumor evolution and the role of the primary cilium.** F. Kuonen, N. Huskey, G. Shankar, KY. Sarin and AE. Oro. Stanford, CA. 8:57 am, Abstract #221
3. **Features of pustular psoriasis observed in 863 patients: Clinical and genetic analysis of a multi-ethnic cohort.** S. Twelves, A. Mostafa, Z. Bata-Csörg, M. Szell, CEM. Griffiths, D. Burden, S. Choon, C. Smith, A. Navarini, J. Barker and F. Capon. London, England, United Kingdom; Zurich, Switzerland; Szeged, Hungary; Manchester, England, United Kingdom; Glasgow, Scotland, United Kingdom and Johor, Malaysia. 9:09 am, Abstract #317
4. **Deep Ackerman a novel deep learning method to develop dermatopathology diagnosis by artificial intelligence.** Y. Ota, K. Shido, K. Kojimako, K. Yamasaki, M. Nagasaki and S. Aiba. Sendai, Miyagi, Japan. 9:21 am, Abstract #297
5. **Small non-coding RNAs control the MAPK/ERK pathway.** Z. Siprashvili, R. Marthappa Shenoy, L. Elcavage and P. Khavari. Stanford, CA. 9:33 am, Abstract #160

JSID Awardee Lecture

Decrypting the Complex Barrier System of Mammalian Skin

Saturday, May 19, 2018**9:45 am - 10:15 am****Gatlin D-E****Introduction by:****Kenji Kabashima, MD/PhD****Akiharu Kubo, MD/PhD**

Keio University School of Medicine, Tokyo, Japan

Akiharu Kubo received his MD from Osaka University in 1994, followed by dermatology residency training at Osaka University and cell biologist training at Kyoto University. He received his PhD from Osaka University in 2000. In 2006, he moved to Keio University School of Medicine, where he has made seminal discoveries on the roles of tight junctions in the skin barrier and homeostasis. He is the head physician of the outpatient clinic of Dermatology in Keio University Hospital since 2013, leads genetic analyses and counseling of genodermatoses in Japan, and has determined new disease-causative genes for genodermatoses. He is a board member of JSID from 2015 and has contributed to the JSID Young Academician-Fostering Seminars (Kisaragi Juku) and the JSID Summer School (Aoba Juku) to recruit and encourage young physicians/researchers. He has received several awards to his research contribution including The Japanese Dermatological Association Seigo Minami Memorial Award for his research on the epidermal tight junction barrier.

LECTURESHIP HISTORY

The JSID Award was established to enhance the motivation of junior researchers. With notable awardees in the past, this prestigious award is bestowed to Dr. Akiharu Kubo from Keio University this year, based on his last 5-year achievements.

Plenary Session V

Saturday, May 19, 2018

10:15 am – 11:15 am

Gatlin D-E

Presiders: Jin Ho Chung, MD/PhD
Ethan Lerner, MD/PhD
Caterina Missero, PhD

1. **Skin resident innate lymphoid cells play an integral role in homeostatic regulation of sebaceous glands via TNF/Lymphotoxin receptor signaling to maintain microbial equilibrium.** T. Kobayashi, D. Kim, B. Voisin, T. Doebel, A. Truong, J. Lee, J. Jo, E. Kennedy, H. Kong and K. Nagao. Bethesda, MA. 10:15 am, Abstract #916
2. **IKK/NF- κ B signaling in keratinocytes controls TNF-dependent necroptosis- and apoptosis-mediated skin inflammation.** S. Kumari, T. Van and M. Pasparakis. Cologne, Germany. 10:27 am, Abstract #973
3. **Keratinocyte-fibroblast crosstalk via extracellular vesicles reveals interplay of miRs that inhibit FGF7 signaling in diabetic foot ulcers.** I. Jozic, A. Ferreira, I. Pastar, H. Ramirez, M. Garcia-Contreras, J. McBride, R. Kirsner and M. Tomic-Canic. Miami, FL. 10:39 am, Abstract #1460
4. **Vildagliptin significantly increases the risk of bullous pemphigoid: A Finnish nationwide registry study.** O. Varpuluoma, A. Försti, J. Jokelainen, M. Turpeinen, M. Timonen, L. Huilaja and K. Tasanen. Oulu, Finland. 10:51 am, Abstract #270
5. **Skin commensal bacteria drive the wound healing response by initiating pDC recruitment and activation in injured skin.** J. Di Domizio, C. Belkhodja, P. Chenuet, T. Murray, O. Demaria, C. Conrad, D. Speiser, B. Ryffel and M. Gilliet. Lausanne, Switzerland and Orleans, France. 11:03 am, Abstract #997

Come See My Poster Session III

Saturday, May 19, 2018

11:15 am - 11:30 am

Gatlin D-E

Presider: Yukie Yamaguchi, MD/PhD

The Come See My Poster sessions give opportunities to select presenting authors of highly scored abstracts to give a brief one-minute (and one slide) introduction to their submitted abstract. This rapid paced session leads right into one of the IID 2018 Poster Sessions, providing both an excellent starting point into the Poster Hall and the generation of excitement for all attendees.

1. **ASNOO2 a dual oral inhibitor of JAK/SYK signaling improves clinical outcomes and associated cutaneous inflammation in moderate-to-severe atopic dermatitis patients.** E. Guttman-Yassky, AB. Pavel, T. Song, H. Kim, D. Zammit, S. Tokar and N. Rao. New York, NY; Flushing, NY and Princeton, NJ. 11:15 am, Abstract #559
2. **Assessing the quality of quality of life measurement tools in autoimmune blistering disease.** C.J. Kushner, D. Pearson, M. Tarazi, RG. Gaffney, R. Feng, AS. Payne and VP. Werth. Philadelphia, PA. 11:16 am, Abstract #515
3. **Aging-associated decline of epidermal PSMD8 contributes to impaired skin function.** M. Ishii, K. Miyachi, B. Cheng and B. Sun. La Jolla, CA. 11:17 am, Abstract #618
4. **Cross-talk between covalent DNA modifications and chromatin architecture: DNA dioxygenase Tet2 mediates the effects of chromatin architectural protein CTCF on epidermal barrier maintenance, inflammation and tumorigenesis.** I. Malashchuk, J. Rudolf, T. Vafaei, K. Poterlowicz, A. Sharov, M. Fessing, T. Kohwi-Shigematsu, G. Xu, A. Mardaryev and V. Botchkarev. Bradford, England, United Kingdom; Boston, MA; San Francisco, CA and Shanghai, China. 11:18 am, Abstract #671
5. **Inhibition of tissue-nonspecific alkaline phosphatase prevents ectopic mineralization in the *Abcc6*^{-/-} mouse model of PXE.** D. Wang, J. Huang, A. Pinkerton, J. Millan, B. van Zelst, J. Uitto and Q. Li. Philadelphia, PA; La Jolla, CA and Rotterdam, Netherlands. 11:19 am, Abstract #819
6. **A new phenotype combining hidradenitis suppurativa with Dowling-Degos disease caused by a founder mutation in *PSENEN*.** M. Pavlovsky, O. Sarig, M. Eskin-Schwartz, N. Malchin, R. Bochner, A. Peled, J. Mohamad, Y. Hilerowicz, A. Gat, A. Hafner and E. Sprecher. Tel Aviv, Israel. 11:20 am, Abstract #775
7. **Tofacitinib leads to increased infections by downregulation of antiviral immune defense.** HC. Hawerkamp, A. Domdey, L. Radau, B. Homey and S. Meller. Düsseldorf, Germany. 11:21 am, Abstract #1056
8. **JAK inhibitor CTP-543: Modeled exposure-response profile suggests improved therapeutic window.** K. Hogan, V. Uttamsingh, C. Hamilton, A. Aslanian, C. Brummel, V. Braman, J. Cassella and D. Wong. Lexington, MA. 11:22 am, Abstract #1060
9. **A wearable, flexible, conformable and depth-modulated phototherapy device: Initial application in morphea.** S. Xu, H. Zhang, H. Zhao, AS. Paller, X. Zhao, J. Zhao and JA. Rogers. Chicago, IL; Evanston, IL and Urbana, IL. 11:23 am, Abstract #1125
10. **UV increases skin-derived 1 α ,25-dihydroxyvitamin D₃ production, leading to MMP-1 expression.** M. Shin, M. Kim, Y. Lee, D. Lee and J. Chung. Seoul, Republic of Korea. 11:24 am, Abstract #1130
11. **AHR-dependent CYP1A isoenzymes metabolize Imiquimod: Implications for psoriasis research.** M. Mescher, J. Tigges, J. Krutmann, D. Lang and T. Haarmann-Stemann. Duesseldorf, Germany and Wuppertal, Germany. 11:25 am, Abstract #923
12. **Scavenger receptors regulate responses of toll-like receptor 3 to double-stranded DNA/RNA.** DM. Dam and AS. Paller. Chicago, IL. 11:26 am, Abstract #935

Oculus Virtual Reality Symposium

New and Emerging Agents for the Management of Moderate-to-Severe Atopic Dermatitis in Adults:

A Virtual Reality View

Sponsored Symposium by an educational grant from Lilly



Saturday, May 19, 2018

12:00 pm – 1:30 pm

Gatlin D-E



Steven R. Feldman, MD/PhD

Wake Forest School of Medicine, Winston-Salem, NC

Dr. Steven R. Feldman received his MD and PhD degrees from Duke University and completed dermatology residency at the University of North Carolina at Chapel Hill and dermatopathology residency at the Medical University of South Carolina. He is editor of the Journal of Dermatological Treatment. Dr. Feldman leads the Center for Dermatology Research, a health services research center whose mission is to improve the care of patients with skin disease. Dr. Feldman's chief clinical interest is psoriasis, a chronic, physically & psychosocially disabling condition. His passion is to help guide how patients with psoriasis are treated. He has served on the Medical Board of the National Psoriasis Foundation and directed psoriasis education programs for the American Academy of Dermatology. Feldman has also done ground breaking work on addiction to tanning beds and on patients' adherence to their medication treatment regimens. Feldman's work in psoriasis led him to an interest in patient satisfaction. Feldman created the www.DrScore.com doctor rating/patient satisfaction website. He analyzes data from that website to better inform doctors on how to enhance the care of their patients. He has given more than 700 invited lectures to dermatology groups and organizations around the world including the Pan Arab Dermatology Meeting held in Riyadh, Saudi Arabia, the Iranian Dermatology Society meeting in Tehran, Iran, and the Pan Asian Dermatology Meeting held in Seoul, Korea. Feldman's experiences in medicine has led him to try to see how others perceive things, leading to his book *Compartments*. His research has been published in over 800 articles in peer-reviewed journals. Feldman also serves as the editor of the Journal of Dermatology and Dermatological and as chief medical editor of *The Dermatologist*.

Learning Objectives

- Review recent pathophysiological findings in AD that have informed the selection of new therapeutic targets
- Identify best practices for assessing disease severity and diagnosing moderate-to-severe AD in adult patients
- Describe the clinical profiles and mechanisms of action of new and emerging agents for the treatment of adults with AD

I. AD in Adults: An Overview

II. Pathology of Disease: Recent findings

III. Challenges in the Diagnosis of AD in Adults

III. Challenges in the Management of AD in Adults

IV. Newly-approved and Emerging Therapeutic Agents for the Management of AD in Adults

V. Case Study

VII. Questions and Answers

Selected ePoster Discussions III

Clinical Research: Patient Outcomes Research

Includes interventional trials, and patient outcomes research.

Saturday, May 19, 2018

12:15 pm - 1:15 pm

Gatlin Foyer Kiosk #1

Moderator: Sinead Langan, MD/PhD

1. **ASNOO2 a dual oral inhibitor of JAK/SYK signaling improves clinical outcomes and associated cutaneous inflammation in moderate-to-severe atopic dermatitis patients.** E. Guttman-Yassky, AB. Pavel, T. Song, H. Kim, D. Zammit, S. Toker and N. Rao. New York, NY; Flushing, NY and Princeton, NJ. 12:15 pm, Abstract #559
2. **Assessing the "quality" of quality of life measurement tools in autoimmune blistering disease.** C.J. Kushner, D. Pearson, M. Tarazi, RG. Gaffney, R. Feng, AS. Payne and VP. Werth. Philadelphia, PA. 12:21 pm, Abstract #515
3. **Changes in blood involvement in Sezary syndrome positively correlate with skin severity but not in mycosis fungoides.** A. Wernham, R. Stranzenbach, R. Stadler, P. Ortiz, E. Guenova, P. Quaglini, E. Hodak, E. Papadavid, U. Wehkamp, F. Evison, M. Bagot and J. Scarisbrick. Birmingham, England, United Kingdom; Minden, Germany; Madrid, Spain; Zurich, Switzerland; Turin, Italy; Tel Aviv, Israel; Athens, Greece; and Paris, France. 12:27 pm, Abstract #542
4. **Development and validation of a risk prediction model for serious infection in patients with psoriasis using the British Association of Dermatologists Biologic Interventions Register (BADBIR).** Z. Yiu, M. Lunt, DM. Ashcroft, CEM. Griffiths and RB. Warren. Manchester, England, United Kingdom. 12:33 pm, Abstract #510
5. **Global collaboration for establishment of a prognostic index in mycosis fungoides & Sezary Syndrome.** J. Scarisbrick, P. Quaglini, M. Vermeer, H. Prince, E. Papadavid, E. Hodak, S. Whittaker, M. Bagot, P. Ortiz, R. Stadler, R. Knobler, F. Evison, E. Hong, R. Willemze and YH. Kim. Birmingham, England, United Kingdom; Turin, Italy; Leiden, Zuid-Holland, Netherlands; Melbourne, Australia; Athens, Greece; Tel Aviv, Israel; London, England, United Kingdom; Paris, France; Madrid, Spain; Minden, Germany; Vienna, Austria and Stanford, CA. 12:39 pm, Abstract #516
6. **DRB1 is the primary genetic locus contributing to susceptibility to dermatomyositis positive for anti-TIF1γ antibody in Japanese.** Y. Yamaguchi, M. Kuwana, M. Kanaoka, T. Watanabe, N. Okiyama, T. Gono, M. Kidera, T. Kambara, Y. Hamaguchi, M. Seishima, K. Takehara, M. Fujimoto and M. Aihara. Yokohama, Kanagawa, Japan; Tokyo, Japan; Tsukuba, Ibaraki, Japan; Nagoya, Aichi, Japan and Gifu, Japan. 12:45 pm, Abstract #521
7. **Improved keratinocyte carcinoma outcomes with annual dermatology assessment after solid organ transplantation: Population-based cohort study.** A. Chan, K. Fung, PC. Austin, S. Kim, LG. Singer, NN. Baxter, R. Alhusayen and PA. Rochon. Toronto, ON, Canada. 12:51 pm, Abstract #522
8. **Predicting response to ustekinumab in patients with psoriasis: A multicentre prospective observational cohort study.** T. Tsakok and C. Smith. London, England, United Kingdom. 12:57 pm, Poster #537
9. **Digital assessment of hidradenitis suppurativa disease activity.** A. Wiala, M. Schöllhammer, S. Singh, K. Rappersberger, H. Schnidar and C. Posch. Vienna, Austria. 1:03 pm, Abstract #541
10. **Using the localized scleroderma cutaneous assessment tool to classify morphea by severity and identify clinically significant change in disease.** N. Teske and H. Jacobe. Dallas, TX. 1:09 pm, Abstract #598

In an effort to further increase participation and visibility of abstracts submitted to IID 2018, the organizers are pleased to include this feature to the meeting.

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Selected ePoster Discussions III

Epidermal Structure and Barrier Function

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

Saturday, May 19, 2018

12:15 pm - 1:15 pm

Gatlin Foyer Kiosk #2

Moderator: Wim Declercq, PhD

1. **Aging-associated decline of epidermal PSMD8 contributes to impaired skin function.** M. Ishii, K. Miyachi, B. Cheng and B. Sun. La Jolla, CA. 12:15 pm, Abstract #618
2. **Three-dimensional ultrastructural analysis of spatial relationship between granular cells and Langerhans cells in human epidermis.** H. Yamanishi, T. Soma, J. Hosoi, J. Kishimoto and A. Ishida-Yamamoto. Yokohama, Kanagawa, Japan and Asahikawa, Hokkaido, Japan. 12:21 pm, Abstract #632
3. **Peroxisomes contribute to inflammation in atopic dermatitis.** P. Pavel, G. Leman, M. Hermann, R. Rühl, M. Schmuth and S. Dubrac. Innsbruck, Austria and Debrecen, Hungary. 12:27 pm, Abstract #652
4. **Cross-talk between covalent DNA modifications and chromatin architecture: DNA dioxygenase Tet2 mediates the effects of chromatin architectural protein CTCF on epidermal barrier maintenance, inflammation and tumorigenesis.** I. Malashchuk, J. Rudolf, T. Vafaei, K. Poterlowicz, A. Sharov, M. Fessing, T. Kohwi-Shigematsu, G. Xu, A. Mardaryev and V. Botchkarev. Bradford, England, United Kingdom; Boston, MA; San-Francisco, CA and Shanghai, China. 12:33 pm, Abstract #671
5. **TRPV1 positive peripheral sensory nerves are required for prompt skin barrier repair.** K. Usui, A. Otsuka, C. Nakashima, R. Katsumoto, N. Konishi, M. Hayashi and K. Kabashima. Kyoto, Japan; Osaka, Japan and Kyoto City, Japan. 12:39 pm, Abstract #674
6. **Site-specific microarray evaluation of spontaneous dermatitis in flaky tail mice.** T. Sakai, C. Aoki, Y. Mori and Y. Hatano. Yufu, Oita, Japan. 12:45 pm, Abstract #678
7. **The role of the WFDC [WAP (Whey acidic protein) four-disulfide core] family members in the epidermis.** P. Kalininga, M. Buchberger, B. Lengauer, B. Golabi, L. Beer, E. Tschachler and M. Mildner. Vienna, Austria. 12:51 pm, Abstract #683
8. **Dysfunctional stress response in psoriatic keratinocytes.** R. Hannen, I. Leigh and M. Philpott. London, England, United Kingdom. 12:57 pm, Abstract #717
9. **Topographical differences in immune and barrier functions of human skin.** Z. Dajnoki, G. Béke, A. Kapitány, K. Gáspár, S. Pólska, Z. Hendrik, Z. Péter, D. Töröcsik, T. Bíró and A. Szegedi. Debrecen, Hungary. 1:03 pm, Abstract #720
10. **The polarity protein atypical kinase C controls desmosome organization and adhesive strength.** F. Tellkamp, M. Ruebsam, H. Nolte, M. Rinschen, K.J. Green, M. Krüger and C. Niessen. Cologne, Germany and Chicago, IL. 1:09 pm, Abstract #731

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IID 2018

Selected ePoster Discussions III

Genetic Disease, Gene Regulation and Gene Therapy

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

Saturday, May 19, 2018

12:15 pm - 1:15 pm

Gatlin Foyer Kiosk #3

Moderator: Hajime Nakano, MD/PhD

- Inhibition of tissue-nonspecific alkaline phosphatase prevents ectopic mineralization in the *Abcc6*^{-/-} mouse model of PXE.** D. Wang, J. Huang, A. Pinkerton, J. Millan, B. van Zelst, J. Uitto and Q. Li. Philadelphia, PA; La Jolla, CA and Rotterdam, Netherlands. 12:15 pm, Abstract #819
- Intravenous allogeneic mesenchymal stromal cell therapy in adults with recessive dystrophic epidermolysis bullosa is safe, improves quality of life and reduces itch.** E. Rashidghamat, T. Kadiyirire, JE. Mellerio and J. McGrath. London, England, United Kingdom. 12:21 pm, Abstract #736
- Filaggrin 2 deficiency causes generalized peeling of the skin.** J. Mohamad, O. Sarig, A. Peled, N. Malchin, R. Bochner, D. Vodo, T. Rabinowitz, M. Pavlovsky, S. Tiaber, M. Fried, M. Eskin-Schwartz, N. Shomron, J. Uitto, J. Koetsier, L. Godsel, K. Green, R. Bergman and E. Sprecher. Tel Aviv, Israel; Philadelphia, PA; Chicago, IL and Hefa, Israel. 12:27 pm, Abstract #769
- A new phenotype combining hidradenitis suppurativa with Dowling-Degos disease caused by a founder mutation in *PSENEN*.** M. Pavlovsky, O. Sarig, M. Eskin-Schwartz, N. Malchin, R. Bochner, A. Peled, J. Mohamad, Y. Hilerowicz, A. Gat, A. Hafner and E. Sprecher. Tel Aviv, Israel. 12:33 pm, Abstract #775
- Genetic modifiers for ectopic mineralization: The paradigm of PXE.** Q. Li, D. Wang, J. Uitto and JP. Sundberg. Philadelphia, PA and Bar Harbor, ME. 12:39 pm, Abstract #788
- Postzygotic dominant-negative mutations of *RHOA* cause a mosaic neuroectodermal syndrome.** P. Vabres, A. Sorlin, S. Kholmanskikh, Y. Duffourd, P. Kuentz, V. Carmignac, D. Bessis, W. Dobyns, S. Polubothu, F. Faravelli, V. Kinsler, L. Faivre, M. Ross and J. Rivière. Dijon, Bourgogne, France; New York, NY; Montpellier, France; Seattle, WA and London, England, United Kingdom. 12:45 pm, Abstract #794
- Exome, genome, and cDNA sequencing reveal *KDSR* mutations cause two forms of ichthyosis and identify retinoids as pathogenesis-directed therapy.** L. Boyden, N. Vincent, J. Zhou, R. Hu, A. Paller, R. Lifton, S. Baserga and K. Choate. New Haven, CT and Chicago, IL. 12:51 pm, Abstract #799
- A circulus vitiosus causes loss of proteostasis in Cockayne syndrome.** M. Costel Alupe, P. Maity, P. Ralf Eber, I. Krikki, F. Tuorto, M. Penzo, R. Parlato, A. Schelling, V. Laugel, L. Montanaro, K. Scharffetter-Kochanek and S. Iben. Ulm, Germany; Freiburg, Germany; Heidelberg, Germany; Bologna, Italy and Strasbourg, France. 12:57 pm, Abstract #806
- Ex vivo *COL7A1* correction for recessive dystrophic epidermolysis bullosa using CRISPR/Cas9 and homology directed repair.** A. Izmiryan, C. Ganier, M. Bovolenta, A. Schmitt, F. Mavilio and A. Hovnanian. Paris, France; Genethon, Evry, France and Modena, Italy. 1:03 pm, Abstract #808
- A genome-wide association study identifies novel loci associated with severe acne and implicates hair follicle development in acne molecular pathogenesis.** MA. Simpson, C. Petridis, AA. Navarini, C. Smith and J. Barker. London, England, United Kingdom. 1:09 pm, Abstract #833

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Selected ePoster Discussions III

Immunology II

Saturday, May 19, 2018

12:15 pm - 1:15 pm

Gatlin Foyer Kiosk #4

Moderator: Richard Granstein, MD

1. **CXCR4-expressing skin-resident NKT cells develop allergic inflammation in atopic dermatitis.** Z. Sun, J. Kim, S. Kim, H. Kim, M. Ko, B. Kim, Y. Pan, C. Park, T. Kupper and K. Lee. Seoul, Republic of Korea and Boston, MA. 12:15 pm, Abstract #083
2. **Pathogenic role of interleukin (IL)-26 producing Th17 cells in the acute forms of psoriasis.** A. Fries, J. Di Domizio, O. Demaria, C. Triboulet and M. Gilliet. Lausanne, Switzerland. 12:21 pm, Abstract #100
3. **The role of circadian clocks in a murine model of antibody-induced skin inflammation.** R. Pfündl, C. Koch, A. Kasprick, D. Zillikens, R. Ludwig, H. Oster and J. Hundt. Lübeck, Germany. 12:27 pm, Abstract #123
4. **Vitiligo severity is suppressed by type I interferon signaling in radioresistant cells.** RL. Riding, JM. Richmond, K. Fukuda and JE. Harris. Worcester, MA. 12:33 pm, Abstract #082
5. **AHR-dependent CYP1A isoenzymes metabolize Imiquimod: Implications for psoriasis research.** M. Mescher, J. Tigges, J. Krutmann, D. Lang and T. Haarmann-Stemann. Duesseldorf, Germany and Wuppertal, Germany. 12:39 pm, Abstract #923
6. **Scavenger receptors regulate responses of toll-like receptor 3 to double-stranded DNA/RNA.** DM. Dam and AS. Paller. Chicago, IL. 12:45 pm, Abstract #935
7. **Resistin-like molecule provides vitamin A-dependent antimicrobial protection of the skin.** T. Harris-Tryon, S. Gattu, D. Propher, Z. Kuang, S. Bel, K. Ruhn, J. Jo, CC. Zouboulis, H. Kong, J. Segre and L. Hooper. Dallas, TX; Bethesda, MD and Dessau, Germany. 12:51 pm, Abstract #945
8. **Targeting pathogenic interactions between Rac1 and NCK1 in psoriasis.** MCG. Winge, M. Nasrallah, JM. Fuhrman, M. Ramanathan, A. Azameera, N. Nguyen, M. Inayathullah, J. Rajadas, P. Khavari, AJ. Butte and M. Marinkovich. Stanford, CA; Boston, MA and San Francisco, CA. 12:57 pm, Abstract #947
9. **Sphingosine 1-phosphate receptor 1 and 2 control proinflammatory cytokine response to S. aureus in normal human keratinocytes.** S. Igawa, Z. Wang, Y. Chang, C. Wu, J. Choi, A. Ishida-Yamamoto and A. Di Nardo. La Jolla, CA and Asahikawa, Hokkaido, Japan. 1:03 pm, Abstract #974
10. **Inflammatory skin phenotype in the Mpl3 knockout mice.** P. Hirt, LJ. Borda, LI. Romero, D. Garcia, N. Strbo and TC. Wikramanayake. Miami, FL. 1:09 pm, Abstract #975

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Selected ePoster Discussions III

Pharmacology and Drug Development

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

Saturday, May 19, 2018

12:15 pm - 1:15 pm

Gatlin Foyer Kiosk #5

Moderator: TBD

1. **Tofacitinib leads to increased infections by downregulation of antiviral immune defense.** HC. Hawerkamp, A. Domdey, L. Radau, B. Homey and S. Meller. Düsseldorf, Germany. 12:15 pm, Abstract #1056
2. **JAK inhibitor CTP-543: Modeled exposure-response profile suggests improved therapeutic window.** K. Hogan, V. Uttamsingh, C. Hamilton, A. Aslanian, C. Brummel, V. Braman, J. Cassella and D. Wong. Lexington, MA. 12:21 pm, Abstract #1060
3. **Topically applied NanoFlares to measure gene expression in vivo: Proof-of-concept.** AS. Paller, D. Yeo, C. Wiraja, C. Mirkin and C. Xu. Chicago, IL Singapore, Singapore and Evanston, IL. 12:27 pm, Abstract #1063
4. **Biodegradable bioadhesive nanoparticle delivery of camptothecin for the treatment of PDV squamous cell carcinoma.** AK. Lee, H. Suh, E. Yin, J. Lewis, W. Saltzman and M. Girardi. New Haven, CT. 12:33 pm, Abstract #1070
5. **Analysis of the activation of TRPV1, TRPA1 and PAR-2 receptors with a cytokine profile and electrophysiological response in a re-innervated skin explant model to study pruritus.** N. Lebonvallet, C. Le Gall-Ianotto, C. Brun, T. Oddos and L. Misery. Brest, France; Val de reuil, France and Issy-les-Moulineaux, France. 12:39 pm, Abstract #1090
6. **Fibroblast culture model of dysregulated collagen homeostasis in aged human skin: Identification of natural compounds with restorative activity.** T. He, JJ. Voorhees and GJ. Fisher. Ann Arbor, MI. 12:45 pm, Abstract #1107
7. **Non-invasive tape sampling reveals a type I interferon RNA signature in cutaneous lupus erythematosus that distinguishes affected from unaffected and healthy volunteer skin.** JF. Merola, CG. Wager, S. Hamann, X. Zhang, A. Thai, C. Roberts, C. Lam, C. Musselli, G. Marsh, D. Rabah, C. Barbey, N. Franchimont and TL. Reynolds. Boston, MA; Cambridge, MA and Zug, Switzerland. 12:51 pm, Abstract #1096
8. **IL36-mediated skin inflammation requires signaling through chemokine receptor CCR6.** JJ. Campbell, K. Ebsworth, LS. Ertl, J. McMahon, S. Yau, Y. Wang, S. Lui, T. Dang, P. Zhang, TJ. Schall and R. Singh. Mountain View, CA. 12:57 pm, Abstract #1058
9. **Anti-inflammatory and wound healing activities of calophyllolide isolated from *Calophyllum inophyllum* Linn.** C. Bui, B. Nguyen, D. Trinh and N. Vo. Hochiminh, Ho Chi Minh, Vietnam and Okinawa, Japan. 1:03 pm, Abstract #1077
10. **Selective protection against bacterial adhesion by a natural second-skin film: Maintenance of *S. epidermidis*/*S. aureus* balance.** P. Rouaud-Tinguely, C. Mainzer, S. Peyrat, M. Dana, S. Borde and B. Closs. St. Viance, France and Hazlet, NJ. 1:09 pm, Abstract #1093

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Selected ePoster Discussions III

Photobiology

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

Saturday, May 19, 2018

12:15 pm - 1:15 pm

Gatlin Foyer Kiosk #6

Moderator: Emi Nishida, MD/PhD

1. **A wearable, flexible, conformable and depth-modulated phototherapy device: Initial application in morphea.** S. Xu, H. Zhang, H. Zhao, AS. Paller, X. Zhao, J. Zhao and JA. Rogers. Chicago, IL; Evanston, IL and Urbana, IL. 12:15 pm, Abstract #1125
2. **UV increases skin-derived 1 α ,25-dihydroxyvitamin D3 production, leading to MMP-1 expression.** M. Shin, M. Kim, Y. Lee, D. Lee and J. Chung. Seoul, Republic of Korea. 12:21 pm, Abstract #1130
3. **Melanin may mediate visible light induced phototoxicity in darker skin types.** HY. Lim, ML. Kerns, S. Kang and AL. Chien. Cebu, Philippines and Baltimore, MD. 12:27 pm, Abstract #1144
4. **Analysis of the interaction of different wavelengths present in natural sunlight.** K. Sondenheimer, C. Neumann, M. Majora, A. Rapp, R. Greinert, P. Boukamp and J. Krutmann. Düsseldorf, Germany; Darmstadt, Germany and Buxtehude, Germany. 12:33 pm, Abstract #1155
5. **UVB irradiation mediates mitochondrial changes via Poly (ADP-ribose) polymerase 1.** C. Hegeds, G. Boros, E. Anna Janka, T. Juhász, G. Nikolett Kis, G. Emri, P. Bai and Remenyik. Debrecen, Hungary and Mainz, Germany. 12:39 pm, Abstract #1159
6. **Identification of potential targets of dietary grape-mediated chemoprevention of photocarcinogenesis in SKH-1 hairless mice using global proteomics.** C. Mintie, CK. Singh, MA. Ndiaye, G. Barrett-Wilt and N. Ahmad. Madison, WI. 12:45 pm, Abstract #1166
7. **Physiologic doses of ultraviolet light activate nonvisual phototransduction to trigger lysosomal exocytosis in human melanocytes.** B. Law, J. Tam, D. Fisher and R. Anderson. Boston, MA and Charlestown, MA. 12:51 pm, Abstract #1118
8. **5-aminolaevulinic acid-based photodynamic therapy pretreatment inhibits ultraviolet B-induced skin photodamage.** D. Luo, B. Zhou, H. Hua and J. Cheng. Nanjing, Jiangsu, China. 12:57 pm, Abstract #1127
9. **Role of nucleotide excision repair pathway in insulin-like growth factor-1-mediated keratinocyte photoresponses.** M. Andrade, K. Satyamoorthy, Z. Upton and D. Van Lonkhuyzen. Brisbane, Queensland, Australia; Manipal, India and Singapore, Singapore. 1:03 pm, Abstract #1128
10. **High wavelengths of blue light induce damages in human skin.** M. Frechet, D. Garandeau, F. Joly and H. Chajra. Toulouse, France and Puteaux, France. 1:09 pm, Abstract #1139

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IID 2018

ESDR Celgene Lecture

Molecules and Mechanisms of Body-Surface Surveillance by Local T cells

Saturday, May 19, 2018

2:00 pm - 2:30 pm

Gatlin D-E

Introduction by:

Michel Gilliet, MD



Adrian Hayday, PhD

King's College London, London, England

Adrian Hayday, PhD is Kay Glendinning Professor, King's College London, and Senior Group Leader, the Francis Crick Institute. Professor Hayday's laboratory employs molecular biology approaches to understand how lymphocytes function within tissues, and how those functions may contribute to human health and disease. The laboratory's basic research includes model systems that permit fundamental questions about immune surveillance to be asked. The molecules and mechanisms identified by those studies are then examined for human counterparts that may teach us about pathogenesis, and provide new tools for application in clinical trials that we undertake. Likewise, we undertake innovative sponsored research agreements relating to the development of novel immunotherapeutics. Although each researcher in the laboratory pursues a clearly defined project, great emphasis is placed on the synergies that can be realized through small teams of researchers working together on the following areas.

LECTURESHIP HISTORY

The Celgene ESDR Guest Lecture is given by internationally renowned scientists whose work has had significant impact on dermatology and immunology.

Past speakers include Federica Sallusto (2017), Brigitta Stockinger (2016), Kathy Green (2015), Yasmine Belkaid (2014), Bruce Beutler (2012), Richard Flavell (2011)

SID Albert M. Kligman / Phillip Frost Leadership Lecture

Decoding the Regulatory Genome

Saturday, May 19, 2018

2:30 pm - 3:00 pm

Gatlin D-E

Introduction by:

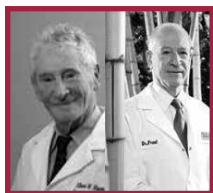
William Eaglstein, MD



Paul Khavari, MD/PhD

Stanford University School of Medicine, Stanford, 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 earned his undergraduate degree at Stanford and MD at Yale. After dermatology residency at Yale, he completed PhD and Post-Doctoral fellowship training with Jerry Crabtree in the Howard Hughes Medical Institute at Stanford then joined the Stanford faculty in 1993. His research applies multi-omics to study regulatory networks that control epidermal homeostasis and cancer, with a focus on developing new methodologies in genomics, proteomics, and informatics. His laboratory generated the first corrections of human genodermatoses tissue and the first human tissue models of cancer from defined genetic elements. His group characterized transcription factors and epigenetic regulators that control epidermal differentiation as well as the first long non-coding RNAs controlling mammalian tissue homeostasis. His lab also performed high throughput sequencing of an array of cutaneous malignancies to identify skin-specific oncogenes as well as new protein and RNA regulators of the Ras GTPase. Dr. Khavari received the U.S. Presidential Early Career Award for Scientists and Engineers and the NIH Shannon Award. He also received the Department of Veterans Affairs Young Investigator Award, a Junior Faculty Scholar Award from the Howard Hughes Medical Institute, the American Dermatological Association Young Leader Award, the American Academy of Dermatology Marion B. Sulzberger Award, the SID William Montagna Award, the CERES Award in Skin Biology, the Tanioku Kihei Award of the JSID, and the American Skin Association Lifetime Scientific Achievement Award. He has been elected to the American Society for Clinical Investigation, the American Association of Physicians, and the National Academy of Medicine.



LECTURESHIP HISTORY

Established in 2007 by Dr. Phillip Frost, the lectureship is intended to honor Dr. Albert M. Kligman, whose great commitment to dermatology and numerous contributions to the specialty has inspired generations of researchers and practitioners. The award is made to an individual in acknowledgment of significant contributions in the past five years to the understanding of structure and function of skin.

Concurrent Mini-Symposium 13

Clinical Research: Patient Outcomes Research

Includes interventional trials, and patient outcomes research.

Saturday, May 19, 2018

3:15 pm - 5:45 pm

Panzacola F-3/4

Presiders: Manabu Fujimoto, MD
Chris Griffiths, MD
Eric Simpson, MD

- A phase 1/2 study of genetically-corrected, collagen VII expressing autologous human dermal fibroblasts injected into the skin of patients with recessive dystrophic epidermolysis bullosa (RDEB).** M. Marinkovich, A. Lane, K. Sridhar, D. Keene, A. Malyala and J. Maslowski. Stanford, CA; Portland, OR and Exton, PA. 3:15 pm, Abstract #591
- Association between biologics and major cardiovascular events in adult patients with plaque psoriasis: A cohort study in the British Association of Dermatologists Biologic Interventions Register (BADBIR).** W. Rungapiromnan, K.J. Mason, M. Lunt, K. McElhone, MK. Rutter, RB. Warren, CEM. Griffiths, DM. Ashcroft and B Study Group. Manchester, England, United Kingdom and London, England, United Kingdom. 3:27 pm, Abstract #509
- Effects of the oral janus kinase 1 (JAK1) inhibitor PF-04965842 on patient-reported outcomes (PROs) in adults with moderate to severe atopic dermatitis (AD).** E. Simpson, A. Wollenberg, R. Bissonnette, J. Silverberg, J. Papacharalambous, L. Zhu, W. Zhang, J. Beebe, M. Vincent, E. Peeva, A. Bushmakina, J. Cappelleri and L. Chen. Portland, OR; München, Bayern, Germany; Montreal, PQ, Canada; Chicago, IL; Groton, CT; Collegeville, PA; Cambridge, MA and New York, NY. 3:39 pm, Abstract #517
- Skin-infiltrating Th17/Tc17 and Th1/Tc1 cells are significantly decreased and IL-17+ CD103+ resident memory T cells partly remain after secukinumab treatment.** T. Fujiyama, T. Umayahara, K. Kurihara, T. Shimauchi, T. Itou, H. Hashizume, H. Yagi and Y. Tokura. Hamamatsu, Shizuoka, Japan. 3:51 pm, Abstract #563
- Secukinumab for patients with moderate-to-severe hidradenitis suppurativa.** L. Prussick, B. Rothstein, D. Joshipura, A. Saraiya, Y. Turkowski, A. Alomran, M. Abudu, P. Zancanaro, C. Kachuk, N. Dumont, A. Gottlieb and D. Rosmarin. Boston, MA and New York, NY. 4:03 pm, Abstract #610
- Factors predictive of complete remission off therapy after a single cycle of rituximab for pemphigus.** C.J. Kushner, S. Wang, DE. Tsai, VP. Werth and AS. Payne. Philadelphia, PA. 4:15 pm, Abstract #552
- Cultured epidermal autograft from clinically revertant skin in recessive dystrophic epidermolysis bullosa.** Y. Fujita, W. Matsumura, S. Shinkuma, S. Takashima, S. Suzuki, T. Nomura, H. Nakamura, M. Inoue and H. Shimizu. Sapporo, Hokkaido, Japan; Niigata, Japan and Gamagori, Aichi, Japan. 4:27 pm, Abstract #524
- Association of tumor response to PD-1/PD-L1 immunotherapy and type of dermatitis that arises after the immunotherapy.** C. Lee, S. Li, D. Tran, A. Zhu, J. Kim, B. Kwong and A. Chang. Stanford, CA; Redwood City, CA and Palo Alto, CA. 4:39 pm, Abstract #526
- Cardiovascular risk among psoriasis patients using red cell distribution width and mean platelet volume.** RZ. Conic, R. Xu, C. Zheng, TS. McCormick and KD. Cooper. University Heights, OH and Cleveland, OH. 4:51 pm, Abstract #550
- Role of observation for excisionally biopsied moderately dysplastic nevi with positive histologic margins and risk of development of future melanoma.** CC. Kim, EG. Berry and SC. Chen. Boston, MA and Atlanta, GA. 5:03 pm, Abstract #571
- Distinct molecular signature in melanomas from patients with recurrence.** B. Dyring-Andersen, K. Kallenbach, J. Lock-Andersen, W. Pruessmann, T. Win, J. Teague, A. Gehad, M. Løvendorf, N. Pallisgaard, M. Mann and R. Clark. Boston, MA; Naestved, Denmark; Roskilde, Denmark; Aalborg, Denmark and Copenhagen, Denmark. 5:15 pm, Abstract #580
- Distinct prognostic values of ALDH isoenzymes in human melanoma.** E. Baird, D. Ravindran Menon, A. Tan and M. Fujita. Aurora, CO and Denver, CO. 5:27 pm, Abstract #592

Concurrent Mini-Symposium 14

Epidermal Structure and Barrier Function

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

Saturday, May 19, 2018

3:15 pm -5:45 pm

Gatlin D-E

Presiders: Leopold Eckhart, PhD
Elena Ezhkova, PhD
John Common, PhD

1. **Metabolomic analysis reveals an essential role for glucose in epidermal differentiation.** V. Lopez-Pajares, A. Bhaduri, O. Garcia, A. Guerrero, G. Gowrishankar, Y. Che, A. Sanchez, L. Boxer, S. Gambhir and P. Khavari. Stanford, CA. 3:15 pm, Abstract #727
2. **Capturing the role of epithelial-immune interactions to maintain tissue homeostasis.** S. Park, C. Martone and V. Greco. New Haven, CT. 3:27 pm, Abstract #698
3. **Proximity labeling proteomics of desmosomes reveals novel components essential for epidermal integrity.** K. Badu-Nkansah, J. Underwood and T. Lechler. Durham, NC. 3:39 pm, Abstract #699
4. **Isotype-specific functions of dermokine in skin barrier maintenance and percutaneous immune response.** A. Utsunomiya, T. Chino, N. Oyama, N. Utsunomiya, L. Vu Huy, K. Higashi, K. Saito, D. Tsuruta and M. Hasegawa. Eiheiji, Fukui, Japan and Osaka, Japan. 3:51 pm, Abstract #638
5. **Ahed plays crucial roles in homeostatic maintenance of epidermis.** T. Ishimoto, M. Takaishi, M. Tokunaga, C. Kokubu, J. Takeda and S. Sano. Nankoku, Kochi, Japan, and Osaka, Japan. 4:03 pm, Abstract #645
6. **Dual role of the anaphase promoting complex/cyclosome in regulating stemness and differentiation in human primary keratinocytes.** LS. Quek, N. Grasset, JB. Jasmen, KS. Robinson and S. Bellanger. Singapore, Singapore and Lausanne, Switzerland. 4:15 pm, Abstract #672
7. **Ceramide synthase 4 controls epidermal lipid composition and barrier function.** F. Peters, F. Tellkamp, S. Brodesser, W. Bloch, O. Utermöhlen, M. Krönke and C. Niessen. Cologne, Germany and Köln, Germany. 4:27 pm, Abstract #732
8. **Metabolic reprogramming maintains skin integrity in the absence of glucose transport and identifies a therapeutic vulnerability in psoriasiform hyperplasia.** Z. Zhang, Z. Zi, E. Lee, J. Zhao, AP. South, BF. Chong, T. Vandergriff, GA. Hosler, P. Scherer, M. Mettlen, R. Deberardinis and R. Wang. Dallas, TX and Philadelphia, PA. 4:39 pm, Abstract #639
9. **E3 ligase Trim21 ubiquitylates and stabilizes Keratin 17 to induce STAT3 nuclear transport in psoriasis.** L. Yang, L. Jin, T. Zhang, Y. Ke and G. Wang. Xi'an, Shaanxi, China. 4:51 pm, Abstract #641
10. **Understanding the role of ABCA12 in the pathogenesis of harlequin ichthyosis.** F. Enjalbert, P. Dewan, MP. Caley, B. Fell, M. Morse, D. Kelsell, A. Enright and EA. O'Toole. London, England, United Kingdom; Stevenage, England, United Kingdom and Cambridge, England, United Kingdom. 5:03 pm, Abstract #661
11. **Keratin-14 dependent disulfide bonding contributes to epidermal homeostasis and barrier function through 14-3-3 and Hippo signaling in mouse skin in vivo.** Y. Guo, K. Leacock, V. Ranganathan and P. Coulombe. Ann Arbor, MI and Baltimore, MD. 5:15 pm, Abstract #692
12. **The calcium sensing receptor regulates the calcium response to outside-in stimuli in live epidermis.** A. Celli, T. Mauro, W. Chang and C. Tu. San Francisco, CA. 5:27 pm, Abstract #723

Concurrent Mini-Symposium 15

Genetic Disease, Gene Regulation and Gene Therapy

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

Saturday, May 19, 2018

3:15 pm -5:45 pm

Panzacola F-1/2

Presiders: Vladimir Botchkarev, MD/PhD
Marta Szell, PhD
Akemi Yamamoto, MD/PhD

- Mechanisms of spontaneous genetic reversion in ichthyosis with confetti.** Y. Lim, Y. Lu, H. Mirza, J. Zhou, R. Hu and K. Choate. New Haven, CT. 3:15 pm, Abstract #832
- SMARCD1 haploinsufficiency underlies Hurler Syndrome and associated skin cancer susceptibility.** C. Günther, M. Lee-Kirsch, J. Eckhard, A. Matanovic, F. Rüschendorf, B. Klein, J. Esparza-Gordillo, H. Traupe, E. Delaporte and Y. Lee. Dresden, Germany; Berlin, Germany; Münster, Germany and Lille, Nord-Pas-de-Calais, France. 3:27 pm, Abstract #781
- Efficient reframed gene therapy for recessive dystrophic epidermolysis bullosa using CRISPR/Cas9.** S. Takashima, S. Shinkuma, Y. Fujita, T. Nomura, H. Nakamura and H. Shimizu. Sapporo, Hokkaido, Japan and Niigata, Japan. 3:39 pm, Abstract #734
- Simultaneous gene-editing and reprogramming of epidermolysis bullosa simplex fibroblasts.** M. Pavlova, PS. McGrath, KC. Butterfield, DR. Roop, G. Bilousova and I. Kogut. Aurora, CO. 3:51 pm, Abstract #752
- Topically-delivered gene suppressing nanoconstruct targets IL-17RA for psoriasis.** H. Liu, R. Kang, K. Bagnowski, J. Yu, X. Cheng, S. Radecki, W. Daniel, D. Giljohann and AS. Paller. Chicago, IL and Skokie, IL. 4:03 pm, Abstract #761
- An exceptional mutation in ALX4 results in ectodermal defects.** R. Bochner, M. Eskin-Schwartz, O. Sarig, A. Peled, J. Mohamad, N. Malchin, O. Isakov, G. Fainberg, N. Shomron, M. Bertolini, R. Paus and E. Sprecher. Tel Aviv, Israel; Nordrhein-Westfalen, Germany and Manchester, England, United Kingdom. 4:15 pm, Abstract #770
- Focal facial dermal dysplasia type I caused by a duplication on 1p36.22.** O. Sarig, A. Hafner, N. Malchin, I. Keydar, S. Fishilevich, O. Isakov, G. Fainberg, L. Samuelov, J. Nussbeck, J. Mohamad, S. Tiaber, T. Rabinowitz, N. Shomron, D. Lancet, G. Ast and E. Sprecher. Tel Aviv, Israel; HaMerkaz, Israel and Dublin, Ireland. 4:27 pm, Abstract #774
- Decoding regulatory sequence across skin differentiation with deep learning.** D. Kim, V. Risca, J. Chappell, M. Shi, Z. Zhao, N. Jung, H. Chang, M. Snyder, W. Greenleaf, A. Kundaje and P. Khavari. Stanford, CA. 4:39 pm, Abstract #795
- The EDC enhancer 923 is required for Ivl, Smcp, and Lce6a gene expression and chromatin accessibility.** M. Mathyer, I. Oh, S. Matkovich, Z. Goodwin, R. Lewis and C. de Guzman Strong. St. Louis, MO. 4:51 pm, Abstract #829
- Identification and molecular characterization of a CDC20 mutation in a novel mosaic variegated aneuploidy syndrome with premature aging phenotypes.** H. Fujita, T. Sasaki, T. Miyamoto, T. Mori, K. Nakabayashi, K. Hata, S. Matsuura, Y. Matsubara, M. Amagai and A. Kubo. Tokyo, Japan and Hiroshima, Japan. 5:03 pm, Abstract #733
- Stem cell origin and spatio-temporal loss of heterozygosity give rise to different types of NF1-associated neurofibroma.** Z. Chen and L. Le. Dallas, TX. 5:15 pm, Abstract #762
- Generation and characterization of a mutant rat with targeted ablation in Samd9, the gene responsible for normophosphatemic familial tumoral calcinosis.** J. Huang, D. Wang, E. Sprecher, JP. Sundberg, J. Uitto and Q. Li. Philadelphia, PA; Tel Aviv, Israel and Bar Harbor, ME. 5:27 pm, Abstract #787

Concurrent Mini-Symposium 16

Pharmacology and Drug Development

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

Saturday, May 19, 2018

3:15 pm -5:45 pm

Conway

Presiders: Riichiro Abe, MD/PhD
Raymond Cho, MD/PhD
Menno De Rie, MD/PhD

1. **Sirolimus gel treatment for tuberous sclerosis complex involving facial angiofibromas and cephalic plaques: A multicenter randomized controlled trial.** M. Wataya-Kaneda, Y. Ohno, Y. Fujita, H. Yokozeki, H. Niizeki, M. Ogai, K. Fukai, H. Nagai, Y. Yoshida, I. Hamada, T. Hio, K. Shimizu and H. Murota. Osaka, Japan; Tokyo, Japan; Sapporo, Hokkaido, Japan; Hamamatsu, Shizuoka, Japan; Kobe, Hyogo, Japan and Yonago, Tottori, Japan. 3:15 pm, Abstract #1054
2. **Age-specific changes in the atopic dermatitis molecular phenotype.** L. Zhou, A. Raja, K. Malik, AB. Pavel, J. Glickman and E. Guttman-Yassky. New York, NY. 3:27 pm, Abstract #1071
3. **QR-313, an antisense oligonucleotide, restores expression of functional type VII collagen in DEB patient cells.** I. Haisma, O. Bornert, M. Schuijt, T. Ritsema, J. Swildens and A. Nyström. Leiden, Netherlands and Freiburg, Germany. 3:39 pm, Abstract #1086
4. **Identification of small molecule IL-36 antagonists using a novel high-throughput TR-FRET binding assay and validation with cell based and biophysical assays.** V. Todorovic, B. Putman, S. Kakavas, M. Limary, L. Wang, B. Sielaff, C. Gerstein, B. Shotwell, S. Ramkrishna, C. Sun, S. Gopalakrishnan and V. Scott. North Chicago, IL and Worcester, MA. 3:51 pm, Abstract #1049
5. **Fascin and Cdk2 are synthetic lethal partners with exceptional potential as joint therapeutic targets in malignant melanoma.** SP. Smith. Brinkley, England, United Kingdom. 4:03 pm, Abstract #1067
6. **Promotion of hair growth in normal mouse skin and alopecia areata by topical treatment of HDAC inhibitors.** E. Wang, E. Wang, J. Chen and A. Christiano. New York, NY. 4:15 pm, Abstract #1072
7. **From old king coal to novel therapeutics for inflammatory skin diseases: The aryl hydrocarbon Receptor as a therapeutic target.** E. van den Bogaard, G. Rikken, J. Smits and G. Perdew. Nijmegen, Netherlands and State College, PA. 4:27 pm, Abstract #1075
8. **The glucocorticoid receptor is a master regulator of transcription in human skin.** LN. Lili, B. Readhead, G. Baida, I. Budunova and JT. Duddley. New York, NY and Chicago, IL. 4:39 pm, Abstract #1078
9. **Antipruritic effect of the novel kappa opioid receptor agonist CR845.** RH. Spencer, C. Munera, JW. Stauffer and F. Menzaghi. Stamford, CT. 4:51 pm, Abstract #1089
10. **Evaluating IKK 16 and ACHP as anti-inflammatory agents for treatment of skin inflammation: In vitro and in vivo.** L. Li, C. Cataisson, E. Fraser, B. Flowers and S. Yuspa. Bethesda, MD. 5:03 pm, Abstract #1095
11. **Functional genomic evaluation of targetable pathways in three metastatic cutaneous squamous cell carcinomas.** M. Kulesz-Martin, C. Zheng, D. McClanahan, A. Barling, X. Ouyang and S. McWeeney. Portland, OR and Pittsburgh, PA. 5:15 pm, Abstract #1103
12. **Efficacy of selective next-generation JAK inhibitors in the treatment of alopecia areata.** Z. Dai, W. Zeng and AM. Christiano. New York, NY. 5:27 pm, Abstract #1098

Concurrent Mini-Symposium 17

Photobiology

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

Saturday, May 19, 2018

3:15 pm -5:45 pm

Panzacola G-1

Presiders: Craig Elmets, MD
Seung-Chul Lee, MD/PhD
Lesley E. Rhodes, MD

- Foxp3⁺ regulatory T cells are expanded by ultraviolet B-exposed PD-L1⁺ skin dendritic cell expressing a unique set of genes in a CSF1-independent manner.** S. Yamazaki, M. Odanaka, A. Nishioka, S. Kasuya, H. Shime, M. Imai, D. Riethmacher, H. Hemmi, T. Kaisho, N. Ohkura, S. Sakaguchi and A. Morita. Nagoya, Aichi, Japan; Astana, Kazakhstan; Wakayama, Japan and Osaka, Japan. 3:15 pm, Abstract #1123
- UVB induces release of bioactive microvesicle particles in keratinocytes via platelet-activating factor and acid sphingomyelinase.** L. Liu, K. Fahy, J. Bihl, CM. Rapp and JB. Travers. Dayton, OH. 3:27 pm, Abstract #1147
- Human Xeroderma pigmentosum type A (XPA) fibroblasts express a senescence associated secretory phenotype (SASP) Mechanistical and clinical implications.** M. Majora, M. Knechten and J. Krutmann. Duesseldorf, Germany. 3:39 pm, Abstract #1153
- Endothelin-1 and α -MSH enhance nucleotide excision repair in human melanocytes by activating distinct signaling pathways that converge on common targets in the DNA damage response.** V. Swope, R. Starner, C. Rauck and Z. Abdel-Malek. Cincinnati, OH. 3:51 pm, Abstract #1165
- Spironolactone depletes XPB protein and inhibits the UVB DNA damage response in human skin.** MG. Kemp and JB. Travers. Dayton, OH. 4:03 pm, Abstract #1120
- Cathepsin G causes ultraviolet irradiation-induced basement membrane damages in hairless mouse skin.** N. Kusumaningrum, J. Oh, C. Shin and J. Chung. Seoul, Republic of Korea. 4:15 pm, Abstract #1124
- TIR-domain-containing adapter-inducing interferon- β (TRIF) protects mice from UVB induced suppression of cell-mediated immune responses.** M. Shadab, M. Sherwani, I. Ahmad, MJ. Lewis, S. Johnson, RA. Abed, SM. Michalek, CA. Elmets and N. Yusuf. Birmingham, AL. 4:27 pm, Abstract #1161
- LL-37 acts on dermal microvascular endothelial cells to potentiate non-coding double strandedds RNA induced inflammation. An explanation for photosensitivity in Rosacea.** NN. Kulkarni, C. Adase and RL. Gallo. La Jolla, CA and San Diego, CA. 4:39 pm, Abstract #1170
- Inducible DNA repair of UV photoproducts depends on vitamin D receptor.** A. Scandurra, C. Wong, T. Kaur Oberoi and D. Oh. San Francisco, CA. 4:51 pm, Abstract #1173
- A novel role for NUPR1 in the keratinocyte stress response to UV oxidized phospholipids.** M. Narzt, I. Nagelreiter, O. Oskolkova, V. Bochkov, J. Latreille, M. Fedorova, Z. Ni, F. Sialana, G. Lubec, M. Filzwieser, M. Laggner, M. Bilban, M. Mildner, E. Tschachler, J. Grillari and F. Gruber. Vienna, Austria; Graz, Austria; Pantin, France; Leipzig, Germany and Salzburg, Austria. 5:03 pm, Abstract #1137
- Nuclear translocation of PKC α is important in neutrophil NETosis and UVB induced-skin inflammation.** M. Liu, Y. Li, M. Sharma and VP. Werth. Philadelphia, PA. 5:15 pm, Abstract #1146
- Time for the human epidermal peripheral clock, role of opsins and cryptochromes.** I. Castellano-Pellicena, NE. Uzunbajakava, B. Raafs, V. Botchkarev and M. Julie Thornton. Bradford, England, United Kingdom and Eindhoven, Netherlands. 5:27 pm, Abstract #1157

Concurrent Mini-Symposium 18

Interdisciplinary Spotlight: Atopic Dermatitis

Abstracts focusing on advances in the basic science and clinical treatment of atopic dermatitis.

Saturday, May 19, 2018

3:15 pm -5:45 pm

Panzacola G-2

Presiders: Lawrence F. Eichenfield, MD

Mayumi Komine, MD

Nick Reynolds, MD

1. **Genetic variants in *TLRI*, *TIRAP* and *PSAPLI* are enriched in a specific subgroup of adult atopic dermatitis showing persistent skin manifestation on the face and neck area.** F. Yasuda-Sekiguchi, A. Shiohama, H. Kawasaki, T. Ebihara, A. Kubo, M. Amagai and T. Sasaki. Tokyo, Japan. 3:15 pm, Abstract #404
2. **GBR 830 induces progressive and sustained changes in atopic dermatitis biomarkers in patient skin lesions.** E. Guttman-Yassky, AB. Pavel, Y. Estrada, L. Zhou, Y. Salhi, G. Gudi, V C A, J. Macoin, J. Back, F. Grossman and G. Wolff. New York, NY; Paramus, NJ; Navi Mumbai, India and La Chaux-de-Fonds, Neuchatel, Switzerland. 3:27 pm, Abstract #453
3. **Baseline IL-22 expression in atopic dermatitis patients stratifies therapeutic responses to fezakinumab.** A. Pavel, PM. Brunner, S. Khattri, K. Malik, J. Fuentes-Duculan, S. Garcet, MG. Lebowitz, JG. Krueger and E. Guttman-Yassky. New York, NY. 3:39 pm, Abstract #434
4. **The Janus kinase 1 (JAK1) inhibitor PF-O4965842 reduces signs and symptoms of moderate to severe atopic dermatitis (AD).** M. Gooderham, S. Forman, R. Bissonnette, J. Beebe, W. Zhang, C. Banfield, L. Zhu, J. Papacharalambus, M. Vincent and E. Peeva. Peterborough, ON, Canada; Tampa, FL; Montreal, PQ, Canada and New York, NY. 3:51 pm, Abstract #554
5. **Characterisation of a novel murine model of atopic dermatitis.** L. Smith, S. Gatault, L. Casals-Diaz, C. Métais, M. Campion, S. Coughlin, G. Eissner and M. Steinhoff. Dublin, Ireland and San Francisco, CA. 4:03 pm, Abstract #657
6. **Suprabasin-deficient mice show limited but discernible defective barrier in both skin and upper digestive tract.** S. Nakazawa, M. Aoshima, A. Funakoshi, T. Shimauchi, S. Asakawa, N. Hirasawa and Y. Tokura. Hamamatsu, Shizuoka, Japan and Sendai, Miyagi, Japan. 4:15 pm, Abstract #650
7. **Intrinsic homeostatic mechanism of stratum corneum regulated by pH.** Y. Furuichi, T. Matsui, H. Kawasaki and M. Amagai. Yokohama, Kanagawa, Japan and Tokyo, Japan. 4:27 pm, Abstract #633
8. **Discovery of filaggrin loss-of-function mutations R788X in Hispanic and S3640X in African-American/Native American children with atopic dermatitis.** M. Mathyer, A. Quiggle, CX. Wong, SL. Denil, M. Kumar, H. Ciliberto, K. Ramsey, S. Bayliss, A. Paller, JE. Common and C. de Guzman Strong. St. Louis, MO; Singapore, Singapore and Chicago, IL. 4:39 pm, Abstract #1295
9. **Altered patterns of growth in infants with atopic eczema commence in-utero.** S. El-Heis, S. Crozier, E. Healy and K. Godfrey. Southampton, England, United Kingdom. 4:51 pm, Abstract #234
10. **Atopic dermatitis is associated with fragile homes in US children.** C. McKenzie and JI. Silverberg. Chicago, IL. 5:03 pm, Abstract #264
11. **Quorum sensing between bacterial species on skin protects against barrier disruption and inflammation promoted by *Staphylococcus aureus*.** MR. Williams, JA. Sanford, T. Nakatsuji, AR. Horswill and R.L. Gallo. La Jolla, CA; San Diego, CA and Denver, CO. 5:15 pm, Abstract #920
12. **Biomarkers CCL17/TARC and total IgE do not predict clinical response to dupilumab in atopic dermatitis (AD): A post hoc analysis of pooled phase 3 data (SOLO 1 & 2).** JD. Hamilton, Z. Chen, LA. Beck, EL. Simpson, T. Hultsch, NMH. Graham, G. Pirozzi, M. Ruddy and M. Ardeleanu. Tarrytown, NY; Rochester, NY; Portland, OR; Cambridge, MA and Bridgewater, NJ. 5:27 pm, Abstract #1066

Closing Ceremonies

Saturday, May 19, 2018

6:00 pm -6:30 pm

Gatlin D-E

Join the leaders of the **ESDR, JSID, KSID, and SID**

as they celebrate the end of the

last IID Meeting. The closing ceremony will also be

the stage for the announcement of the

host, venue and dates of the first

International Societies for

Investigative Dermatology (ISID) Meeting.

Finally, join leaders from dermatology societies from

all over the world as they say goodbye to

Orlando and IID 2018 and usher in a new era of

Investigative Dermatology Conferences.





Governance

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ESDR Governance

ABOUT THE ESDR

www.esdr.org

The European Society for Dermatological Research (ESDR) was founded in 1970. ESDR is a non-profit organization based in Switzerland with over 1'200 active members and promotes basic and clinical science related to dermatology.

Annual Meeting

One of the most important activities of ESDR is to promote the presentation of new research data and ideas through oral and poster formats at our annual scientific meetings and clinically oriented symposia. ESDR meetings provide unique perspectives by encouraging the interaction of basic scientists, clinical researchers and practising clinicians.

Other Educational Activities

The ESDR Academy for Future Leaders in Dermatology (FLA) is directed at fostering young researchers by bringing together established leaders in their field with the brightest young scientists, with an emphasis on learning about career paths, experiencing personal interactions and networking. A network of ESDR future leaders alumni has formed since the inception of the FLA in 2011, which in turn is able to provide mentoring to the next wave of outstanding researchers. In 2018, attached to the FLA, the ESDR is introducing a Masterclass on Next-Generation Healthcare.

In collaboration with the European Academy of Dermatology and Venereology (EADV), the EADV-ESDR summer research workshops have been organized since 2010 to introduce early career members to dermatological research.

As a further step, the ESDR is now planning to offer leadership mentoring courses. An ongoing project intends to renew the ESDR's organizational structure and to create an ESDR charter. Over time, this will transform the ESDR from a top-down organization to one that empowers its member base to take active roles in broadening the Society's scope.

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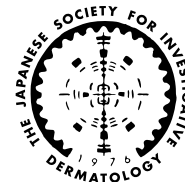
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1998	Tung-Tien Sun
1999	James E. Cleaver
2000	John R. Stanley
2001	Fiona Mary Watt
2002	Thomas Luger
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2004	Vincent J. Hearing
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2006	Kathleen J. Green
2007	Stephen J. Galli
2008	Paul Khavari
2009	George Cotsarelis
2010	W.H. Irwin McLean
2011	Ralf Paus
2012	John A. McGrath
2013	Mark C. Udey
2014	Angela Maria Christiano
2015	Thomas S. Kupper
2016	Alexander H. Enk
2017	Michel Gilliet
2018	Jean Krutmann

JSID Award

2000	Masayuki Amagai
2001	Yoshiki Tokura
2002	Akemi Yamamoto
2003	Shinichi Sato
2004	Daisuke Sawamura
2005	Hironobu Ihn
2006	Shigetoshi Sano
2007	Masashi Akiyama
2008	Koji Sayama
2009	Kenji Kabashima
2010	Tamihiko Kawakami
2011	Riichiro Abe
2012	Naotomo Kambe
2013	Manabu Fujimoto
2014	Tatsuyoshi Kawamura
2015	Makoto Sugaya
2016	Yoshihide Asano
2017	Sei-ichiro Motegi
2018	Akiharu Kubo

JDS Award

1993	Lutz Hegemann et al. Jun Matsunaga et al.
1994	Brian J. Nickoloff et al.
1995	Helena Rizova et al.
1996	Miroslav Blumenberg et al.
1997	Aimin Tang et al.
1998	Nathalie Emonet et al.
1999	Sung Woo Choi et al.

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To achieve scientific excellence in dermatological research, science communication and support for career development of cutaneous biologists from academia and industry, both domestic and overseas

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- Young Investigator Awards
- Peer-reviewed abstract presentations, invited lectures, etc.
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- Publication of official bi-monthly journal, Annals of Dermatology (SCI-E)
- Membership open to domestic and overseas dermatologists, researchers, skin biologists and students (current membership size about 380)
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SID AWARDS

Stephen 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 Beerman
1986	Otto Braun-Falco
1987	Walter Shelley
1988	John Strauss

SID Governance

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 Yuspa
2005	John Voorhees
2006	Thomas Lawley
2007	Barbara Gilchrist
2009	Luis Diaz
2010	Dennis Roop
2011	John Stanley
2012	Paul Bergstresser
2014	Jouni Uitto
2015	Ervin H. Epstein
2016	R. Rox Anderson
2017	Amy Paller

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

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

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 Uitto
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 Gilchrist
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 Cotsarelis
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

Herman Beerman Lectureship

This lecture is given by a distinguished medical scholar, traditionally from fields other than dermatology.

1961	Rene Dubos
1962	Hans Selye
1963	Rupert Billingham
1964	Curt Stern
1965	Albert Szent-Gyorgyi
1966	Jerome Gross
1967	G.J.V. Nossal
1968	John Buettner-Janusch
1969	Henry Kunkel
1970	Norman Wessells
1971	Aiden Breathnach
1972	Frank Dixon
1973	H. Hugh Fudenberg
1974	Charles Cochrane
1975	David Katz
1976	Bert O'Malley
1977	Russell Ross
1978	Hilary Koprowski
1979	Michael Brown
1980	Phil Leder
1981	Pedro Cuatrecasas
1982	Frank Rudd
1983	Lawrence Lichtenstein
1984	Robert Gallo
1985	Thomas Waldmann
1986	Torsten Wiesel
1987	Leroy Hood
1988	Joseph Goldstein
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2003	Thomas Jessell
2004	Robert Weinberg

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2006	Amita Sehgal
2007	Stuart Schreiber
2009	Daniel Kastner
2010	Raymond Schinazi
2011	Jennifer Lippincott-Schwartz
2012	Mina Bissell
2013	Allan Balmain
2014	Hopi Hoekstra
2015	Drew M. Pardoll
2016	Tom Misteli
2017	Alan J. Korman

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

Albert M. Kligman/Phillip Frost Leadership Lecture & Award

This award is made to an individual in acknowledgment of significant contributions to the understanding of structure and function of skin in the past five years.

2008	Jouni Uitto
2009	Stephen Katz
2010	John R. Stanley
2011	Peter Elias
2012	Robert Lavker
2013	Elaine Fuchs
2014	Robert Modlin
2015	Kathleen J. Green
2016	Cheng-Ming Chuong



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44TH JSID

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