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ACKNOWLEDGEMENTS
The organizers of the 2022 SID Annual Meeting gratefully acknowledge the sponsors, exhibitors, and participants whose attendance has helped to make this meeting possible.
SID Presidents Welcome

On behalf of the SID administrative office (https://www.sidnet.org/about/staff/), my fellow SID board officers (https://www.sidnet.org/about/leadership/), committee members (https://www.sidnet.org/about/committees/) and the editorial staff and board members of the JID (https://www.jidonline.org/content/edbd) and JID Innovations (https://www.jidinnovations.org/board-of-editors-bios), I would like to welcome you to Portland, Oregon for the first in-person SID meeting in two years and our 80th Annual Meeting. (Our last in-person meeting was May of 2019 in Chicago.) Portland has much to offer if you need a break from the meeting; from the vibrant food-cart scene to beautiful gardens, parks and museums (https://www.jidonline.org/content/edbd) and for the more adventuresome, you can even climb Mt. Hood! At this meeting the SID is born again, like the Phoenix in Greek mythology!

The COVID-19 pandemic has profoundly affected how we live and work, and for too many, how we grieve for those we have lost. Although we are proud of the important role science has played in the response to the COVID-19 pandemic, we have to acknowledge that the pandemic has adversely affected the careers of many scientists (https://doi.org/10.1038/s41467-021-26428-z). Despite these challenges, we are encouraged by the enthusiasm we hear about returning to in-person meetings, which is reflected in the number and quality of abstract submissions for this Portland meeting (1,048 total submissions, with 19% from outside of N. America). These numbers demonstrate the resiliency of our research community despite the restrictions imposed on worksite conditions, supply chain challenges, clinical trial closures/restrictions, remote learning/daycare shutdowns (which disproportionately affected female researchers), not to mention the mental health toll associated with living during a pandemic.

In accordance with the Phoenix analogy, SID has undergone a reawakening triggered by the fire of the COVID pandemic. Business-as-usual was not possible and within months of the March 2020 shutdown, SID pivoted to a wholly virtual meeting platform for the first time in its history and sadly had to repeat this for the 2021 SID annual meeting. Moving forward it is clear that hybrid meetings, like this one in Portland are the new norm. This pivot to a new business model, new processes and assignments has only been possible because of the outside the box thinking of our Chief Operating Officer, Jim Rumsey and Chief Program & Development Officer, Becky Minnillo, dedicated staff (Robyn Cipolletti, Debbie Kovacs & Stephanie Flanagan), the staff of the JID/JIDI (Elizabeth Blalock & Sarah Forgeng), and the continuity of leadership that comes from the six-year tenure of our overlapping SID Secretary-Treasures (Drs. Nicole Ward and Paul Nghiem). We have had many discussions this year about how this new format can expand our reach and ensure greater equity and inclusion of under-represented groups and that this will be reflected in the research as well.

In keeping with this commitment, the SID Board voted to make the Committee on Diversity, Equity, and Inclusion a standing committee. Consistent with these ideals we are trying out a new Social Event (Thursday May 19th 6:30-8:30pm), which is open to all registered individuals. Food and beverage will be plentiful, and Portland’s own Blue Wave Band will provide the evenings entertainment. This event will be embedded within the poster hall in hopes of fostering greater interactions (yes in person), sharing of ideas, as well as fostering new research projects and collaborations.

Thanks to the hardwork of the Committees on Scientific Programs and Education we have a remarkable lineup of speakers and topics for the Named Lectureships, State-of-the Art (SOTA) lectures, oral abstract plenary sessions and concurrent minisymposia. This is the first year that select late breaking abstracts have their own concurrent minisymposia to provide greater exposure to more “hot off the press” science. I sincerely hope you enjoy this 80th SID Meeting and appreciate connecting with old friends and developing new ones, while immersing yourself in the latest skin biology research!

Lisa A. Beck, MD
SID President
Carol and Lowell Goldsmith Professor of Dermatology
Professor of Medicine and Pathology & Laboratory Medicine
University of Rochester Medical Center

[Image of Lisa A. Beck, MD]
# Meeting-At-A-Glance

## WEDNESDAY, MAY 18, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 AM</td>
<td>On-Site Registration</td>
</tr>
<tr>
<td>6:30 AM</td>
<td>Future Leaders Retreat Breakfast: By Invitation Only</td>
</tr>
<tr>
<td>7:00 AM</td>
<td>International Pachyonychia Congenita Consortium (IPCC) Symposium A105-A106</td>
</tr>
<tr>
<td>7:30 AM</td>
<td>Future Leaders Retreat Program: By Invitation Only</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>International Psoriasis Council (IPC) Session Oregon Ballroom 203</td>
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<tr>
<td>10:00 AM</td>
<td>International Eczema Council (IEC) Symposium B117-B119</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>American Acne &amp; Rosacea Society (AARS) Scientific Symposium C123-C124</td>
</tr>
<tr>
<td>1:30 PM</td>
<td>Translational Symposium I: Artificial Intelligence, Big Data, and Medical Informatics Oregon Ballroom 201-202</td>
</tr>
<tr>
<td>2:30 PM</td>
<td>Translational Symposium II: Drug Reactions and Repurposing</td>
</tr>
<tr>
<td>3:30 PM</td>
<td>Clinical Scholars Outcomes: Clinician led Investigation and New Therapies Oregon Ballroom 201-202</td>
</tr>
<tr>
<td>5:00 PM</td>
<td>President’s Welcome: Lisa Beck, MD</td>
</tr>
<tr>
<td>5:10 PM</td>
<td>LEO Foundation Award</td>
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<tr>
<td>5:15 PM</td>
<td>A Tribute to Dr. Stephen I. Katz</td>
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<tr>
<td>5:45 PM</td>
<td>Stephen I. Katz, MD/PhD International Lectureship Award</td>
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<tr>
<td>6:30 PM</td>
<td>Welcome Reception</td>
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## THURSDAY, MAY 19, 2022

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:30 AM</td>
<td>On-Site Registration</td>
</tr>
<tr>
<td>7:00 AM</td>
<td>National Institute of Allergy and Infectious Diseases (NIADD) Session Oregon Ballroom 204</td>
</tr>
<tr>
<td>7:30 AM</td>
<td>SID Diversity, Equity, and Inclusion (DEI) Session A105-A106</td>
</tr>
<tr>
<td>8:45 AM</td>
<td>Eugene Farber Lecture</td>
</tr>
<tr>
<td>8:45 AM</td>
<td>Antibiotics in Dermatology Symposium</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>State-of-the-Art Plenary Lecture 1</td>
</tr>
<tr>
<td>2:45 PM</td>
<td>State-of-the-Art Plenary Lecture 1</td>
</tr>
</tbody>
</table>

## Future Leaders Retreat Breakfast

6:30 AM — 7:00 AM
By Invitation Only
B110-B112

## Welcome Reception

6:30 AM — 8:00 PM
Oregon Ballrooms Poyer

## By Invitation Only

Future Leaders Retreat Program: By Invitation Only
B113-B116

## Oregon Ballroom 201-202

- Lectureship Award
  - Stephen I. Katz, MD/PhD International
  - 5:45 PM — 6:15 PM
- LEO Foundation Award
  - 5:10 PM — 5:15 PM
- Eugene Farber Lecture
  - 11:30 AM — 12:00 PM
- Antibiotics in Dermatology Symposium
  - 12:00 PM — 1:00 PM
- Bristol Myers Squibb Symposium
  - 12:00 PM — 1:15 PM

## Oregon Ballroom 203

- State-of-the-Art Plenary Lecture 2
  - 3:15 PM — 4:15 PM
- William Montagna Lecture
  - 3:45 PM — 4:15 PM
- Mary Kay Awards
  - 4:15 PM — 4:30 PM

## Oregon Ballroom 204

- William Montagna Lecture
  - 4:15 PM — 4:30 PM
- Mary Kay Awards
  - 4:30 PM — 6:30 PM

## Oregon Ballroom 205

- Eugene Farber Lecture
  - 2:45 PM — 3:15 PM
- Antibiotics in Dermatology Symposium
  - 12:00 PM — 1:00 PM
- Bristol Myers Squibb Symposium
  - 12:00 PM — 1:15 PM
- Lunch
  - 12:15 PM — 1:30 PM
- Krystal Biotech Symposium
  - 1:15 PM — 2:45 PM

## Oregon Ballroom 206

- Eugene Farber Lecture
  - 2:45 PM — 3:15 PM
## Meeting-At-A-Glance

### FRIDAY, MAY 20, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 AM</td>
<td>On-Site Registration</td>
<td>Holladay Entrance/Pre-Function A</td>
</tr>
<tr>
<td>7:00 AM</td>
<td>Irvin Blank Forum: Single Cell and Spatial Transcriptomics Technologies</td>
<td>Oregon Ballroom 203</td>
</tr>
<tr>
<td>7:00 AM</td>
<td>FDA Session: Advances in Topical Dosage Form Characterization and Measuring Drug Concentrations in the Skin</td>
<td>Oregon Ballroom 204</td>
</tr>
<tr>
<td>7:00 AM</td>
<td>Research in Cutaneous Surgery (RCS) Meeting</td>
<td>A105-A106</td>
</tr>
<tr>
<td>7:00 AM</td>
<td>Women’s Dermatology Society (WDS) Meeting</td>
<td>B113-B116</td>
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<tr>
<td>7:00 AM</td>
<td>Pediatric Dermatology Research Alliance (PEDRA) Session</td>
<td>C123-C124</td>
</tr>
<tr>
<td>8:45 AM</td>
<td>Concurrent Mini-symposium 7: Carcinogenesis and Cancer Genetics</td>
<td>Oregon Ballroom 203</td>
</tr>
<tr>
<td>8:45 AM</td>
<td>Concurrent Mini-symposium 8: Clinical Research-Sociobehavioral and Health Services Research</td>
<td>Oregon Ballroom 204</td>
</tr>
<tr>
<td>8:45 AM</td>
<td>Concurrent Mini-symposium 9: Innate Immunity, Microbiology, and Microbiome</td>
<td>A105-A106</td>
</tr>
<tr>
<td>8:45 AM</td>
<td>Concurrent Mini-symposium 10: Pigmentation &amp; Melanoma</td>
<td>B113-B116</td>
</tr>
<tr>
<td>8:45 AM</td>
<td>Concurrent Mini-symposium 11: Skin, Appendages, and Stem Cell Biology</td>
<td>C123-C124</td>
</tr>
<tr>
<td>8:45 AM</td>
<td>Concurrent Mini-symposium 12: Tissue Regeneration and Wound Healing</td>
<td>Oregon Ballroom 201-202</td>
</tr>
<tr>
<td>11:30 AM</td>
<td>Herman Beerman Lecture</td>
<td>Oregon Ballroom 201-202</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>Stephen Rothman Award Ceremony</td>
<td>Oregon Ballroom 201-202</td>
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<tr>
<td>12:15 PM</td>
<td>Sanofi and Regeneron Symposium</td>
<td>Oregon Ballroom 204</td>
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<tr>
<td>12:15 PM</td>
<td>Estée Lauder Symposium</td>
<td>Oregon Ballroom 203</td>
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<tr>
<td>12:15 PM</td>
<td>Lunch – On Your Own</td>
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<tr>
<td>1:45 PM</td>
<td>State-of-the-Art Plenary Lecture</td>
<td>Oregon Ballroom 201-202</td>
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### SATURDAY, MAY 21, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM</td>
<td>On-Site Registration</td>
<td>Holladay Entrance/Pre-Function A</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>Julius Stone Lecture</td>
<td>Oregon Ballroom 201-202</td>
</tr>
<tr>
<td>8:30 AM</td>
<td>Concurrent Mini-symposium 13: Adaptive and Auto-Immunity</td>
<td>Oregon Ballroom 203</td>
</tr>
<tr>
<td>9:45 AM</td>
<td>Concurrent Mini-symposium 14: Cell-Cell Interactions in the Skin</td>
<td>Oregon Ballroom 204</td>
</tr>
<tr>
<td>9:45 AM</td>
<td>Concurrent Mini-symposium 15: Clinical Research - Interventional Research</td>
<td>A105-A106</td>
</tr>
<tr>
<td>10:45 AM</td>
<td>Concurrent Mini-symposium 16: Photobiology</td>
<td>B113-B116</td>
</tr>
<tr>
<td>11:45 AM</td>
<td>Concurrent Mini-symposium 17: Skin of Color</td>
<td>C123-C124</td>
</tr>
<tr>
<td>2:45 PM</td>
<td>Plenary Session 2</td>
<td>Oregon Ballroom 201-202</td>
</tr>
<tr>
<td>2:45 PM</td>
<td>Break</td>
<td></td>
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<tr>
<td>3:00 PM</td>
<td>Naomi Kanof Lecture</td>
<td>Oregon Ballroom 201-202</td>
</tr>
<tr>
<td>3:30 PM</td>
<td>State-of-the-Art Plenary Lecture</td>
<td>Oregon Ballroom 201-202</td>
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<tr>
<td>4:00 PM</td>
<td>Business Meeting of the Members</td>
<td>Oregon Ballroom 201-202</td>
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<tr>
<td>4:30 PM</td>
<td>American Skin Association Awards</td>
<td>Oregon Ballroom 201-202</td>
</tr>
<tr>
<td>6:30 PM</td>
<td>Poster Session 2/Happy Hour</td>
<td>Exhibit Hall A/A1/B</td>
</tr>
<tr>
<td>8:00 PM</td>
<td>ePoster Session 2 – Adaptive and Auto-Immunity</td>
<td>Terminal 1 – A108</td>
</tr>
<tr>
<td>8:00 PM</td>
<td>ePoster Session 2 – Clinical Research - Epidemiology and Observational Research</td>
<td>Terminal 2 – A107</td>
</tr>
<tr>
<td>8:00 PM</td>
<td>ePoster Session 2 (Epidermal Structure and Barrier Function)</td>
<td>Terminal 3 – A109</td>
</tr>
<tr>
<td>8:00 PM</td>
<td>ePoster Session 2 (Genetic Disease, Gene Regulation, and Gene Therapy)</td>
<td>Terminal 4 – B110</td>
</tr>
<tr>
<td>8:00 PM</td>
<td>ePoster Session 2 (Translational Studies)</td>
<td>Terminal 5 – B112</td>
</tr>
<tr>
<td>8:30 PM</td>
<td>American DermatoEpidemiology Network (ADEN) Meeting</td>
<td>A105-A106</td>
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<tr>
<td>10:00 PM</td>
<td>American Hair Research Society (AHRS) Meeting</td>
<td>B113-B116</td>
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<tr>
<td>10:00 PM</td>
<td>National Psoriasis Foundation (NPF) Meeting</td>
<td>C123-C124</td>
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<tr>
<td>9:00 PM</td>
<td>Young Investigator Collegiality Reception: Ticketed Event</td>
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<tr>
<td>9:00 PM</td>
<td>Business Meeting</td>
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<tr>
<td>10:00 PM</td>
<td>Business Meeting</td>
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<tr>
<td>11:00 PM</td>
<td>Business Meeting</td>
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</table>
## Associate Groups
**Meeting-At-A-Glance**

### WEDNESDAY, MAY 18, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
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</table>
| 7:00 AM - 1:00 PM | International Pachyonychia Congenita Consortium (IPCC) Hybrid Symposium  
A105 - A106     |
| 9:00 AM - 12:00 PM | International Psoriasis Council (IPC)  
Oregon Ballroom 203 |
| 10:00 AM - 11:15 PM | International Eczema Council (IEC) Microbiome Symposium  
B117 - B119       |
| 11:00 AM - 1:00 PM | American Acne and Rosacea Society (AARS)  
10th Annual Scientific Symposium  
C123 - C124       |

### FRIDAY, MAY 20, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 7:00 AM - 8:30 AM | Pediatric Dermatology Research Alliance (PeDRA)  
C123 - C124       |
| 7:00 AM - 8:30 AM | Research in Cutaneous Surgery (RC5) Mini symposium  
A105 - A106       |
| 7:00 AM - 8:30 AM | Women's Dermatologic Society (WDS) Panel Discussion and Networking Breakfast  
B113 - B116       |
| 7:00 PM - 10:00 PM | American Dermato-Epidemiology Network (ADEN) Annual Meeting  
A105 - A106       |
| 7:00 PM - 10:00 PM | American Hair Research Society (AHRS) Scientific Meeting and Annual General Meeting  
B113 - B116       |
| 7:00 PM - 10:00 PM | National Psoriasis Foundation (NPF) Research Reception  
C123 - C124       |
Notable Annual Meeting Programming

LATE-BREAKING ABSTRACTS ORAL SESSION
For the first time, the SID will be presenting a concurrent oral session that is made up of abstracts submitted during the Late-Breaking abstract period in March 2022. Join your fellow attendees on Thursday, May 19, 2022 in Oregon Ballroom 201/202 from 8:45 am – 11:15 am to see the newest category of papers presented.

POSTER/EXHIBIT/HAPPY HOUR SESSIONS
Thursday, May 19 and Friday, May 20, 2022
4:30 pm - 6:30 pm
Before the unfortunate cancellation of the 2020 Annual Meeting due to COVID-19, the SID was poised to reimagine a different approach to the traditional Poster/Exhibit Sessions. The idea was to encourage additional attendance and conversations during the sessions by including snacks and beverages. Since those plans were scuttled, we are set to try this again during the 2022 Meeting.

Exhibitors will also have a chance to showcase their products in the Exhibit Hall during this time and look forward to your interactions.

Join your fellow attendees in Exhibit Halls A, A1, and B for these sessions during the meeting. There will also be plenty of seating through the halls to sit, relax, and catch up with one another after three SID years away.

Thursday, May 19, 2022: Odd Poster’s Only
Friday, May 20, 2022: Even Poster’s Only

SOCIAL EVENT
With keeping in mind that gathering a large crowd into a smaller venue might not be the best idea at this time, the SID leadership felt it best to put forth a little different Social event for the meeting. First, the event is free to all attendees. Next, it was felt that after several years apart from one another that it would be nice to spend time together and catch up on things. Combined, it was felt that having a lower key event would be a nice way to ease our way back into things. This year’s Social event will focus on getting back together and talking. Talking and enjoying one another’s company. Having extra time to visit the posters and exhibitors. Oh…and enjoying food and beverage along the way. Join us on Thursday, May 19, 2022 in Exhibit Halls A, A1, and B to enjoy food, beverage, the company of others, and the musical stylings of Portland’s Blue Wave Band. See you there...

CONCURRENT SESSIONS
Another experiment that was to be tried in 2020, was to move the concurrent sessions that traditionally held in the afternoons of the Thursday, Friday, and Saturday of the meeting week to the mornings. This helped to pave the way for the Poster Sessions to be in the afternoon and be included in a happy hour time slot. Please see the daily schedules to see which sessions will take place...now in the morning time.

STEPHEN I KATZ LEADERSHIP LECTURE AND AWARD
For the first time, the SID is proud and humbled to present the first Stephen I. Katz Leadership Lecture and Award. A great friend and ambassador to the SID, Dr. Katz (who passed away in December of 2018) will be honored by the SID, ESDR, and JSID at this year’s meeting on Wednesday, May 18th at 5:15 pm in Oregon Ballroom 201/202. The one-hour ling program will start with reflections from those who trained under and worked with Dr. Katz, while the last thirty (30)-minutes will be a lecture by the first recipient of the Katz Lectureship... Dr. Brian Kim. Additional information about the award can be found in the Wednesday tab of this Program Book.

Also, please consider donating to the Katz Lecture Fund via this link https://tinyurl.com/bde6a7u8 that will help support Katz Lectures that will take place at future ESDR, JSID, and SID Meetings
CME Statement and Objectives

Case Western Reserve University School of Medicine 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 the 2022 SID MEETING is designed to develop, maintain, and/or increase the abilities, skills, and professional performance of its target audiences. 2022 SID MEETING 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 2022 SID MEETING CME activities include all of the sectors of the dermatology community, consisting of research investigators, clinicians, research and clinical trainees, members of industry, and community advocates for skin health/disease.

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

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

INSTRUCTIONS ON HOW TO RECEIVE CREDIT
In order to receive CME credit, participants complete the CME evaluation; must sign-in, review the CME information (accreditation, learning objectives, faculty disclosures, etc.) and attend the CME activity. A link to the evaluation and instructions on how to claim credits will be posted on the meeting website, and sent to all attended. The SID Meeting course number: is 50957.

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 (ACCFME) through the joint providership of Case Western Reserve University School of Medicine and the Society for Investigative Dermatology. Case Western Reserve University School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

AMA CREDIT STATEMENT
Case Western Reserve University School of Medicine designates this live activity for a maximum of 21.0 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
DISCLOSURE POLICY
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Khashayar Afsari, MD MPH
Fahad Ahmed, BA
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Watcharee Amornpairoj, MD
*Niroshana Anandasabapathy, MD, PhD
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Kiyoshi Arizumi, PhD
Scott Atwood, PhD
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Dauren Biyashev
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Natalsha Hill, PhD
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Sixia Huang, PhD
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*toshi kawarada, MD
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Shuaitong Liu, MS
Vanessa Lopez-Pajares, PhD
Markham Luke, MD PhD
Yen Luu, BA
Alexandra Maldonado Lopez, BSc
Ruslan Medzhitov, PhD
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Rolando Perez-Lorenzo, PhD
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Jodi So, BA
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Mary Sun, MD
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Yoko Suzuki-Horiuchi, PhD
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Kang-Yu Tai, PhD candidate
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Daniel Kim, PhD
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*Heidi Kong, MD
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*Daniela Krosninsky, MD
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Yoko Suzuki-Horiuchi, PhD
Shira Tabachnick-Cherny, PhD
Lisa Tachiki, MD
Kang-Yu Tai, PhD candidate
Shota Takashima, MD PhD
Planning Committee / Speaker Declarations

Kimberly Tang, BA
Matthew Taylor, BA
Mark Taylor, PhD
Edem Tchegeon, BS
*Marjana Tomic-Canic, PhD
Julia Tomtschik, BS
Marta Torregrossa, PhD student
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Yoshinori Watanabe, MD, PhD
Angela Wei, BS
Haoyang Wei, MS
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Kamina Wilkerson, MD Candidate
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Sijie Wu, PhD
Yang Xu, BS, MS
Seungwon Yang, PhD
Christine Youn, MS/PhD candidate
Soundos Youssuf, MS
**Benjamin Yu, MD, PhD
Sangwon Yun, BS
Lauren Zawacki, BS
Zhaolin Zhang, PhD
Lauren Zawacki, BS
Sangwon Yun, BS
Lauren Zawacki, BS
Zhaolin Zhang, PhD
Xinyuan Zhang, Master
Amanda Zhou, BS

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**Milan Anadkat, MD Consulting Fee: Novocure, Inc, Springworks, BioLineq, Boehringer-Ingelheim, Protagonist Therapeutics, Innovaderm, OnQuality, UCB Biopharma, Abbvie, Eli Lilly
Evgeny Berdyshev, PhD. Grant Research or Support: LEO Pharma, Sanofi
**Anna Bruckner, MD, MSCS, Grant Research or Support: Phoenix Tissue Repair, Phoenics, Amryt Pharma
Jeffrey Cheng, MD, PhD Grant Research or Support: LEO Pharma, Sun Pharma, Sanofi, Enable Medicines
*Jaehyuk Choi, MD, PhD Advisor: Kyowa Kirin
*Benjamin Chong, MD Paid consultant: Beacon Bioscience, Daavlin Corporation, Paid consultant & Consulting fee Biogen Incorporated
Angela Christiano, PhD Stocks or stock options, excluding diversified mutual funds: Aclaris Therapeutics, Intrinsic Medicine, Inc., Pfizer, Inc., Consulting Fee, Arcutis Biotherapeutics, Janssen Pharmaceuticals Inc.
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Jarish Cohen, MD, PhD Consulting Fee: Trex Bio
Sherrie Divito, MD, PhD Consulting Fee: Adaptimmune, MEI Pharma, Sanofi
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Elena Goreva, PhD Grant Research or Support: Sanofi
Melinda Goodham, MSc MD FRCP, Grant Research or Support: Abbvie, Arcutis, Aslan
*Johann Gudjonsson, MD, PhD Advisor: Eli Lilly, Janssen, BMS, Sanofi; Grant Research or Support Eli Lilly, Janssen, Almirall, BMS, Kyorin Kirin
**Emma Guttmann, MD, PhD Grant Research or Support: Amgen, Pfizer, LEO Pharma; Consulting Fee: Abbvie; COLS & Emma Guttmann-Yassky is an employee of Mount Sinai and has received research funds from and/or is a consultant for: Research funds (grants paid to the institution): Amgen, AnaptysBio, Asana Biosciences, AstraZeneca, Boehringer-Ingelheim, Cara Therapeutics, Celgene, Eli Lilly, Novartis, Pfizer, Regeneron Pharmaceuticals; Consultant: Abbvie, Almirall, Amgen, Arena, Asana Biosciences, Aslan Pharmaceuticals, AstraZeneca, Boehringer-Ingelheim, Bristol-Meyers Squibb, Cara Therapeutics, Celgene, Connect Pharma, Eli Lilly, EMD Serono, Eisai, Galderma, Ichos Sciences, Incyte, Janssen Biotech, Kyowa Kirin, Leo Pharma, Pandion Therapeutics, Pfizer, RAPT Therapeutics, Regeneron Pharmaceuticals, Inc., Sanofi, SATO Pharmaceutical, Siolta Therapeutics, Target Pharma Solutions, UCB, Ventyx Biosciences.
Nikolas Haass, MD/PhD Independent Contractor: InterK Sydney
Matthew Hangauer, PhD, Consulting Fee: Ferro Therapeutics
*Tissa Hata, MD Independent Contractor: Bristol-Myers Squibb, Pfizer, Inc.
**Alain Hovnanian, MD, PhD Membership on Advisory Committee or Review Panels: BridgeBio, Boehringer,Aztra; Grant Research or Support: Kamari
*Michael Howell, MD, PhD Salary, Ownership Interest: DermTech; Salary: Incyte
Mayumi Ito, PhD, RoW Patent Royalties or Patent Beneficiary: Follica, , , ,
Susan Kaech, MD Membership on Advisory Committee or Review Panels: Avinas, Pfizer, Affini-T, Evolveimmune; Consulting Fee, Raphael Holdings- Barer Institute
**Brian Kim, MD, MTR Consulting Fee: Abbvie, Pfizer, Lilly, Regeneron, Sanofi, Galderma, Cara Therapeutics, Trevi Therapeutics, Novartis, , , , , BMS, AMGEN, AstraZeneca
Shawn Kwatra, MD Consulting Fee: Abbvie, Galderma; Grant Research or Support Galderma
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David Margolis, MD PhD Membership on Advisory Committee or Review Panels: Pfizer, Janssen, Insmed
Takeshi Matsui, PhD. Grant Research or Support: KOSE Corporation
**Karen McGuire, PhD Ownership: BioMendicls, LLC,
Ian Odel, MD, PhD Grant Research or Support: Abbvie, Inc, Consulting Fee, Rheos Medicines, Fortress Biotech, Inc.
Amy Paller, MD, Grant Research or Support: Abbvie, Grant Research or Support, Eli Lilly, Incyte, Regeneron, Also investigator for: Janssen, KrystalBio, and UC Bi. Abbvie, Acrotech, Almirall, Amgen, Arctis, Arena, Azitra, BioCyst, BiomX, Bridgebio, Bristol Myers Squibb, Castle Biosciences, Catawba, Eli Lilly, Excire, Gilead, Incyte, Janssen, Johnson & Johnson, Kamarli, Leo, Novartis, OM Pharma, Pfizer, Pierre Fabre, RAPT, Regeneron, Sanofi/Cenzyme, Seaneergy, UCB; Consultant with honorarium: Abbvie, Abeona, Bausch, Galderma; Data Safety Monitoring Board: Novan
Elizabeth Phillips, MD Consulting Fee: Janssen, Verve, Biocryst
Todd Ridky, MD/PhD Advisor: Lineaeus Therapeutics
Kavita Sarin, MD PhD Advisor: NFlection Therapeutics, Consulting Fee, Phoenics Therapeutics, DermBiont, Aesovian
Corin Simpson, MD, PhD Employment: United Health Group; Stocks or stock options, excluding diversified mutual funds: United Health Group
**Eric Simpson, MD, MCR Consulting Fee: Abbvie, Arcutis , Arena Pharmaceuticals
*Junko Takeshita, MD, PhD Grant or research support & Consulting fee: Pfizer, Inc.
Joshua Tam, PhD Consulting Fee: Medline Industries, LP
Joyce Teng, MD, PhD Grant Research or Support: Novartis, Pfizer, Palvella, Consulting Fee: Amryt, Syneon, Nobel Pharm
Maxim Tollenaere, PhD. Employment: LEO Pharma A/S
Ken Truitt, MD Employment: Venthera, Inc.
*Kenneth Tsai, MD, PhD Membership on Advisory Committees or Review Panels, Board Membership, etc.: NFlection Therapeutics, Sanofi-Aventis, Sun Pharma, Merck and Company, Inc., 3CC Capital
Chirag Vasavada, PhD Paid Consultant, Stocks or stock options, excluding diversified mutual funds: AstraZeneca

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<td>Khashayar Afshari, MD</td>
<td>University of Massachusetts Chan Medical School</td>
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<td>Corbett Berry, MD, PhD</td>
<td>University of Pennsylvania</td>
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<td>University of Louisiana at Monroe</td>
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<td>Kimberly Breglio MD, PhD</td>
<td>Duke University Medical Center</td>
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<td>Alyssa Calder MD, MS</td>
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<td>Kellen Cavagnero, PhD Candidate/Student</td>
<td>University of California, San Diego</td>
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<td>University of Michigan</td>
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<td>Olivia Justynski PhD Candidate/Student</td>
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<tr>
<td>Jennifer Lo, MD, PhD</td>
<td>Harvard Medical School, Massachusetts General, Brigham and Women’s</td>
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<tr>
<td>Nicholas Love, MD, PhD</td>
<td>University of California, Davis</td>
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<tr>
<td>Rachel Marchalik, MD</td>
<td>Johns Hopkins University School of Medicine</td>
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<tr>
<td>Aubriana McEvoy, MD</td>
<td>Washington University, Saint Louis</td>
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<tr>
<td>Mary Moran, PhD Candidate/Student</td>
<td>University of Rochester</td>
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<tr>
<td>Tomonori Oka, MD, PhD</td>
<td>Massachusetts General Hospital</td>
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<tr>
<td>Elisabeth Pedersen, MD, PhD</td>
<td>University of Michigan</td>
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<tr>
<td>Ge Peng, PhD Candidate/Student</td>
<td>Juntendo University Graduate School of Medicine</td>
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<tr>
<td>Tithi Roy, PhD Candidate/Student</td>
<td>University of Louisiana at Monroe</td>
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<tr>
<td>Joseph Sarhan, MD, PhD</td>
<td>Yale University School of Medicine</td>
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<td>Nishad Sathe, MD</td>
<td>University of Minnesota</td>
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<tr>
<td>Pranali Shah, PhD</td>
<td>Brigham and Women’s Hospital</td>
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<tr>
<td>Jessica Shannon, PhD Candidate/Student</td>
<td>Duke University Medical Center</td>
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<tr>
<td>William Shipman, MD, PhD</td>
<td>Yale University School of Medicine</td>
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<tr>
<td>Neha Shukla, MBBS BSc</td>
<td>Emory University</td>
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<tr>
<td>Roopesh Singh, PhD</td>
<td>Vanderbilt University Medical Center</td>
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<tr>
<td>Jeffrey Smith, MD, PhD</td>
<td>Harvard Medical School/Mass General Brigham</td>
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<tr>
<td>Ashley Snyder, PhD Candidate/Student</td>
<td>University of Utah</td>
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<tr>
<td>Shira Tabachnick-Cherny, PhD</td>
<td>University of Washington</td>
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<tr>
<td>Erin Theisen, MD, PhD</td>
<td>University of California, San Francisco</td>
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<tr>
<td>Rachel Waldemer-Streyer, MD, PhD</td>
<td>Harvard Medical School/Mass General Brigham</td>
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<tr>
<td>Diana Wang, MD, PhD</td>
<td>University of California, Los Angeles</td>
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<tr>
<td>Leo Wang, MD, PhD</td>
<td>University of Pennsylvania</td>
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<tr>
<td>Ellen White, MD, PhD</td>
<td>University of Pennsylvania</td>
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<tr>
<td>Brandyn White, PhD Candidate/Student</td>
<td>Howard University</td>
</tr>
<tr>
<td>Haihan Zhang, PhD Candidate/Student</td>
<td>Brigham and Women’s Hospital</td>
</tr>
</tbody>
</table>

*Note: All affiliations are as of the time of the event.*
ORAL TYPE PRESENTATIONS
All oral presentations will take place at the Oregon Convention Center.

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

Selected ePoster Presentations.
Each poster presenter will be asked to briefly describe their work (one slide only) for up to three (3) minutes, followed by a short group discussion of up to three (3) minutes in length. There will be a moderator to assist with the timing. If your poster has been selected for the ePoster Discussions, please join the assigned category group at the relevant ePoster terminal. Please reference the daily schedule for dates, times, category, locations, featured posters, and moderators.

LCD Projectors will be available in each lecture room. There will be resources to display both IBM and Mac Based platforms and software. The computer technicians will be able to download zip and CD/DVD files. All Oral Presentations are also to be presented as Posters. See schedule below.

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 (A103). 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 displayed on your poster.

SPEAKER READY ROOM WILL BE LOCATED IN ROOM A103, LOCATED ON LOWER LEVEL OF THE OREGON CONVENTION CENTER FLOOR.

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

- Wednesday, May 18, 2022 12:00 PM - 6:00 PM
- Thursday, May 19, 2022 7:00 AM - 6:30 PM
- Friday, May 20, 2022 7:00 AM - 6:30 PM
- Saturday, May 21, 2022 7:00 AM - 12:15 PM

POSTER PRESENTATIONS
All posters will be displayed until Saturday, May 21, 2022 at 12:00 PM in Exhibit Halls A/A1 and B. Posters will be viewed in two (2) sessions as outlined below. Presenters should be at their posters for their entire discussion session and should not be removed early. The organizers of the 2022 Annual Meeting are not responsible for posters left unclaimed as of 12:00 PM on Saturday, May 21, 2022. Unclaimed posters will not be returned.

Install all Posters
Wednesday, May 18, 2022 12:00 PM– 6:00 PM

Poster Session 1
Thursday, May 19, 2022 4:30 PM – 6:30 PM
Odd Poster #’s
Late-Breaking ODD Poster #’s

Poster Session 2
Friday, May 20, 2022 4:30 PM – 6:30 PM
Even Poster #’s
Late-Breaking EVEN Poster #’s

Dismantle All Posters
Saturday, May 21, 2022 By 12:00 PM

POSTER PRESENTATIONS SCHEDULE

ePoster Session 1
Thursday, May 19, 2022 5:00 PM – 6:00 PM
- Carcinogenesis and Cancer Genetics:
  Terminal # 1/Room A108
- Clinical Research – Sociobehavioral and HS Research:
  Terminal # 2/Room A107
- Innate Immunity, Microbiology, and Microbiome:
  Terminal # 3/Room 109
- Skin, Appendages, and Stem Cell Biology:
  Terminal # 4/Room B110
- Tissue Regeneration and Wound Healing:
  Terminal # 5/Room B112

ePoster Session 2
Friday, May 20, 2022 5:00 PM – 6:00 PM
- Adaptive and Auto-Immunity:
  Terminal # 1/Room A108
- Clinical Research – Epidemiology and Observational Research:
  Terminal # 2/Room A107
- Epidermal Structure and Barrier Function:
  Terminal # 3/Room 109
- Genetic Disease, Gene Regulation, and Gene Therapy:
  Terminal # 4/Room B110
- Translational Studies:
  Terminal # 5/Room B112
Meeting Information & Policies

COVID-19 VACCINATION RELATED

All SID attendees, speakers, exhibitors, sponsors, staff, and contracted vendors will be asked to show proof of full vaccination upon arrival at the meeting venue in Portland. If an attendee cannot or will not show proof of vaccination, we then invite you to join us virtually as you will NOT be admitted to the Annual Meeting. A person is considered fully vaccinated two weeks after the second dose of a two-dose series/plus a booster, or two weeks after a single dose of a one-dose vaccine/plus a booster. Available data suggest that patients with mild-to-moderate COVID-19 remain infectious no longer than 10 days after symptom onset. Therefore, we ask that if you are diagnosed with COVID-19 within 10 days of symptom onset and also within 10 days of the start of the Annual Meeting, that you participate in the virtual platform only.

All attendees will be asked to sign a waiver acknowledging the inherent risks associated with the ongoing COVID-19 pandemic. That waiver was made available to all participants upon advanced online registration and will be available at on-site registration.

SID on-site attendees will be asked to provide verification of vaccination to gain admittance to the event. Attendees will also be provided with a choice of different colored badge lanyards that will help identify your preference in interacting with fellow attendees. The color red will denote a preference of maintaining 6 feet of distance, yellow for cautious interactions, and green for a willingness to have close discussions. We ask to respect the wishes of all participants at the time of the event.

All attendees should know we take the coronavirus very seriously and are monitoring local and state updates. For the latest data on the coronavirus’ impacts on Portland, we are monitoring data from both the City of Portland Health Department as well as from the State of Oregon. As the COVID pandemic is an ongoing event requiring consistent monitoring, additional precautions, including but not limited to temperature checks, masking, and health questionnaires, may be enforced.

As of 4/22/2022, the State of Oregon, the City of Portland, and the Oregon Convention Center does NOT have a mask mandate in place. As such, it is up to the meeting attendee on whether they choose to wear a protective mask or not. Masks will be made available to all meeting attendees.

REPRODUCTION AND PHOTOGRAPHY POLICY

Any photography, filming, taping, recording, or reproduction in any medium of any of the Programs, exhibits, or lectures (oral or posters) presented at the 2022 SID Annual Meeting without written permission is strictly prohibited. Failure to comply with this rule may lead to removal of your meeting credentials.

ON-SITE REGISTRATION

On-site registration will take place at the Meeting Registration Counters in the Holladay Entrance Lobby area (on the main level of the Oregon Convention Center) during the following hours:

- Wednesday, May 18, 2022, 6:30 AM – 7:00 PM
- Thursday, May 19, 2022, 6:30 AM – 7:00 PM
- Friday, May 20, 2022, 6:30 AM – 7:00 PM
- Saturday, May 21, 2022, 7:00 AM – 11:00 PM

BADGES

Badges for both pre- and on-site registration can be picked up at the Registration Counters in the Holladay Entrance Lobby area (on the main level of the Oregon Convention Center). Meeting attendees are required to wear their badges for entry into all sessions and meeting activities.

SPECIAL SERVICES FOR THE PHYSICALLY CHALLENGED

The Oregon Convention Center is fully accessible to the physically challenged. Should you have any special needs, please stop at the Registration Counters, and notify available staff.
Meeting Information & Policies

**WI-FI**
Wi-Fi will be available in all the Meeting spaces.

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

**COVID-19 TESTING (FOR POST-MEETING TRAVEL)**
Attendees who need to provide COVID-19 test results as a part of their travels home have the ability to schedule a COVID test while on-site at the Oregon Convention Center. Visit Curative’s COVID testing website at https://book.curative.com/sites/34254 or by CLICKING HERE to schedule an appointment.

**SID 2022 VIRTUAL MEETING**
The SID realizes that many attendees will have been unable to attend the in-person 2022 Annual Meeting in Portland or those who can attend, could not see all the lectures, presentations, and posters that they would have liked.

With this in mind, the SID has asked those presenting both talks and posters for the in-person meeting, to upload a pre-recorded lecture of their talk or image of poster. It is this content (plus sessions recorded in in-person in Portland) that will make up the 2022 SID Virtual Meeting. The accumulated content will be made available beginning June 13, 2022, for sixty (60) days for those who registered (as a part of a “hybrid” ticket to attend both the Portland in-person and virtual content meeting, or to those who would like to register for the soon to occur Virtual Meeting in June. See the SID staff at the Registration Counters for additional information or visit the SID’s Annual Meeting website at www.sidannualmeeting.org and go to the Registration page to view the details.

**CODE OF CONDUCT**
The Society for Investigative Dermatology (SID) welcomes the use of social media during the 2022 Meeting including live tweeting. The SID and Journal of Investigative Dermatology (JID) will employ the use of social media ambassadors throughout the meeting to share highlights of the content that will be presented. Communication in this day and age happens swiftly and has the potential to bring about unforeseen occurrences. To minimize situations that could be perilous, please note the following 2022 Meeting social media guidelines:

**Do:**
- Follow the SID on Twitter (@SocInvestDerm) and use the #SID2022 hashtag to join the conversation about the SID 2022 Annual Meeting.
- Like the SID on Facebook at https://www.facebook.com/sid.sidnet/
- Blog or tweet about what you hear and learn at the meeting but refrain from sharing any content the speaker/presenter explicitly asks not to share. Presenters will be asked to place the words DO NOT POST on their presentations, slides, and pictures that they do not wish to share. Do not share or post specific details or slides (unless otherwise indicated).
- Converse and network with other attendees before, during, and after the meeting.
- Provide feedback to SID leadership, staff, and the Scientific Program Committee – we encourage attendees to post about and discuss topics of interest and ideas for future scientific meetings.
- Communicate with respect and consideration for others and keep criticism constructive.

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

People who participate in social media activity associated with the Virtual Meeting are expected to:
- Maintain a courteous and respectful demeanor in their comments and posts.
- Contribute value and expertise.
- Represent themselves and their organizations truthfully and professionally.
- Recognize that social media conversations include a variety of professionals, patients, policymakers, reporters, and the public. The views and opinions posted on SID’s social media do not necessarily reflect the views, opinions, or policies of the SID, its Board, or staff. The SID reserves the right to remove comments it deems, in its sole discretion, to be inappropriate.

All program meeting content is current as of April 24, 2022.
Sponsor and Exhibitor Information

COMMERCIAL SUPPORT
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Bausch Health
Janssen Immunology
LEO Pharma
Pfizer
Sanofi Regeneron

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Innovaderm Research
Inozyme Pharma
IThera Medical GmbH
Janssen Pharmaceuticals, Inc.
Krystal Biotech
Ten Bio Ltd
TissueVision, Inc.
Zen-Bio, Inc.

Acceptance of funding in support of this program does not constitute endorsement of any product or manufacturer.

TABLETOP EXHIBITORS
LEO Foundation
National Eczema Association
Pachyonychia Congenita Project
Pediatric Dermatology Research Alliance (PeDRA)

Current as of April 24, 2022
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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Page Number</th>
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</thead>
<tbody>
<tr>
<td>6:30 AM — 7:00 PM</td>
<td>On-Site Registration</td>
<td>Holladay Entrance/Pre-Function A</td>
<td></td>
</tr>
<tr>
<td>6:30 AM — 7:30 AM</td>
<td>Future Leaders Retreat Breakfast: By Invitation Only</td>
<td>B110-B112</td>
<td>21-22</td>
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<tr>
<td>7:00 AM — 1:00 PM</td>
<td>International Pachyonychia Congenita Consortium (IPCC) Symposium</td>
<td>A105-A106</td>
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<tr>
<td>7:30 AM — 2:00 PM</td>
<td>Future Leaders Retreat Program: By Invitation Only</td>
<td>B113-B116</td>
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<tr>
<td>9:00 AM — 12:00 PM</td>
<td>International Psoriasis Council (IPC) Session</td>
<td>Oregon Ballroom 203</td>
<td>23</td>
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<tr>
<td>10:00 AM — 1:15 PM</td>
<td>International Eczema Council (IEC) Symposium</td>
<td>B117-B119</td>
<td>24</td>
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<tr>
<td>11:00 AM — 1:00 PM</td>
<td>American Acne &amp; Rosacea Society (AARS) Scientific Symposium</td>
<td>C123-C124</td>
<td>25</td>
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<tr>
<td>1:30 PM — 2:30 PM</td>
<td>Translational Symposium I: Artificial Intelligence, Big Data, and Medical Informatics</td>
<td>Oregon Ballroom 201-202</td>
<td>26</td>
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<tr>
<td>2:30 PM — 3:30 PM</td>
<td>Translational Symposium II: Drug Reactions and Repurposing</td>
<td>Oregon Ballroom 201-202</td>
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<tr>
<td>3:30 PM — 5:00 PM</td>
<td>Clinical Scholars/Outcomes: Clinician-led Investigation and New Therapies</td>
<td>Oregon Ballroom 201-202</td>
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</tr>
<tr>
<td>5:00 PM — 5:10 PM</td>
<td>President’s Welcome: Lisa Beck, MD</td>
<td>Oregon Ballroom 201-202</td>
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<tr>
<td>5:10 PM — 5:15 PM</td>
<td>LEO Foundation Award</td>
<td>Oregon Ballroom 201-202</td>
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<tr>
<td>5:15 PM — 5:45 PM</td>
<td>A Tribute to Dr. Stephen I. Katz</td>
<td>Oregon Ballroom 201-202</td>
<td>32</td>
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<tr>
<td>5:45 PM — 6:15 PM</td>
<td>Stephen I. Katz, MD/PhD International Lectureship Award</td>
<td>Oregon Ballroom 201-202</td>
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</tr>
<tr>
<td>6:30 PM — 8:00 PM</td>
<td>Welcome Reception</td>
<td>Oregon Ballrooms Foyer</td>
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Future SID Annual/ISID Meetings

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

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

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

2026 Annual Meeting
May 13-16, 2026
Hilton Chicago
Chicago, Illinois
# International Pachyonychia Congenita Consortium (IPCC) Symposium

**WEDNESDAY, MAY 18, 2022**  
**7:00 AM – 1:00 PM**  
**A105-A106**

## Footprints: On Our Way To Cure PC

**7:00 AM**  
**BREAKFAST**  
**Leading The Way To A Cure: Basic Research Track**  
Chair: C. David Hansen, MD

**8:00 AM**  
**WELCOME**  
*Footprints: On Our Way To A Cure Through The Power Of The Ipcc And The International Pc Research Registry*  
Janice N. Schwartz, BA  
Executive Director, Pachyonychia Congenita Project

**8:15 AM**  
**PPKS: Gluing The Pieces Together**  
Eli Sprecher, MD, PhD  
Chair, Division of Dermatology, Deputy Director General for R&D and Innovation, Tel Aviv Sourasky Medical Center, Frederick Reiss Professor of Dermatology, Sackler Faculty of Medicine, Tel Aviv University; International Pachyonychia Congenita Consortium Chair

**8:30 AM**  
**Mouse Models For Pachyonychia Congenita And Palmoplantar Keratoderma**  
Pierre A. Coulombe, PhD  
G. Carl Huber Professor and Chair, Department of Cell & Developmental Biology, University of Michigan Medical School

**8:45 AM**  
**Impact On Daily Plantar Pain And Activity Levels In Pachyonychia Congenita Measured Through A Wristband Activity Tracker**  
Julianne M. Falotico, BA  
Renaissance School of Medicine at Stony Brook University  
Shari R. Lipner, MD, PhD  
Associate Professor of Clinical Dermatology, Director, Nail Division, Weill Cornell Medicine

**8:55 AM**  
**PPK And Cysts**  
Edel O’Toole MD, PhD, FRCPI, FRCP  
Professor of Molecular Dermatology and Centre Lead, Centre for Cell Biology and Cutaneous Research, Blizard Institute, Barts and the London School of Medicine and Dentistry, Queen Mary University of London

**9:00 AM**  
**Neel Rajan, MD, PhD**  
Senior Lecturer and Honorary Consultant Dermatologist, Translational and Clinical Research Institute, Newcastle University

**9:10 AM**  
**PPK Syndromes: Focus On iRhom2 And Tylosis With Oesophageal Cancer**  
David P. Kelsell, PhD  
Blizard Institute, Faculty of Medicine and Dentistry, Queen Mary University of London

**9:25 AM**  
**Lysosomal Function In Pachyonychia Congenita Pathogenesis**  
Nicole Schwarz, PhD  
RWTH Aachen University, Institute of Molecular and Cellular Anatomy

**9:40 AM**  
**Probing The Functional Link Between Pachyonychia Congenita-Associated Keratins And Cell Mechanics**  
Benjamin A. Nanes, MD, PhD  
Instructor of Dermatology  
University of Texas Southwestern Medical Center

**9:55 AM**  
**Pain Mechanisms In Palmoplantar Keratodermas**  
Michael Caterina, MD, PhD  
Department of Neurosurgery, Johns Hopkins School of Medicine

**10:10 AM**  
**Break**
Continued
International Pachyonychia Congenita Consortium (IPCC) Symposium

WEDNESDAY, MAY 18, 2022
7:00 AM – 1:00 PM
A105-A106

Finding The Way To A Cure:
Clinical Research Track
Chair: Robyn Hickerson, PhD

10:15 AM
Topical Erlotinib As A New Approach For
Treating Keratinopathies
Bethany E. Perez-White, PhD
Assistant Professor, Department of Dermatology,
Feinberg School of Medicine, Northwestern
University

Amy Paller, MD
Walter J. Hamlin Professor and Chair of
Dermatology and Professor of Pediatrics; Director,
Skin Biology and Diseases Resource-based
Center, Northwestern University Feinberg School
of Medicine

10:35 AM
Systemic Erlotinib For PPK
Alain Hovnanian, MD, PhD
Professor of Genetics and Dermatology, INSERM,
Imagine Institute for Genetic Diseases, Necker
Hospital for Sick Children, Paris University

10:50 AM
PC Project And Palvella Therapeutics
Collaboration: Update On Qtorin Rapamycin
Development Program For Pachyonychia Congenita
Wes Kaupinen, MBA
Founder and CEO, Palvella Therapeutics

11:05 AM
The Feldan Shuttle: Leading The Future Of
Intracellular Delivery
Vincent Ménard, PhD, MBA, CFA
VP Finance & Business Development, Feldan
Therapeutics

11:20 AM
Development Of Topical Sirna Formulations
For Treatment Of Genetic Skin Disorders Including PC
Roger Kaspar, PhD
Founder and CEO, Ayni Therapeutics

Shak Lakhani
Co-founder and CEO, Avro Life Science

11:35 AM
Toward A Chemical Compound Therapy
For EBS
Thomas M. Magin, PhD
Professor of Cell and Developmental Biology,
University of Leipzig, Institute of Biology

11:50 AM
DISCUSSION/WRAP UP
C. David Hansen, MD
Dermatology Professor, University of Utah and
PI of the International Pachyonychia Congenita
Research Registry

12:00 PM
Lunch for pre-registered attendees

12:10 PM
PC Project’s Medical and Scientific Advisory
Board (MSAB) Meeting
Chair: Eli Sprecher, MD, PhD
OPEN TO ALL MEETING ATTENDEES
NON-CME SESSION

International Psoriasis Council (IPC)

WEDNESDAY, MAY 18, 2022
9:00 AM – 12:00 PM
OREGON BALLROOM 203

Getting real (world) with psoriasis: Advances in registries, pragmatic trials, and real-world data in psoriasis

PROGRAM CHAIR
Joel Gelfand, MD, MSCE, University of Pennsylvania, Perelman School of Medicine, Philadelphia, Pennsylvania, United States

FACULTY
April Armstrong, MD, MPH, Keck School of Medicine, USC, Studio City, California, United States
Steven Fakharzadeh, MD, PhD, Janssen Global Services, LLC, Horsham, Pennsylvania, United States
Alexis Ogdie, MD, MSCE, University of Pennsylvania, Perelman School of Medicine, Philadelphia, Pennsylvania, United States
Nick Reynolds, BSc, MBBS, MD, FRCP, Newcastle University, Newcastle Upon Tyne, England, United Kingdom

AGENDA
Part I LECTURES

9:00 AM
Introduction to the IPC and program overview
Joel Gelfand

9:10 AM
Real world data using medical and administrative records
April Armstrong

9:30 AM
Registries and psoriasis: An industry perspective
Steven Fakharzadeh

9:50 AM
Real world data and psoriasis: A European perspective
Nick Reynolds

10:10 AM
Panel discussion
Joel Gelfand, All faculty

Part II KEYNOTE

10:20 AM
Innovations in real world data
Alexis Ogdie

10:50 AM
Keynote discussion
Joel Gelfand & Alexis Ogdie

Part III POSTER PRESENTATIONS

11:00 AM
Your pores and the outdoors: investigating the association between pollution and inflammatory dermatological diseases
Manan Mehta, BS - University of Southern California Keck School of Medicine, Los Angeles, California, United States

Understanding health disparities among patients with psoriasis: results from National Psoriasis Foundation annual surveys 2019 – 2021
George Gondo, MA - National Psoriasis Foundation, Portland, Oregon, United States

Psoriasis Resolution in Challenging Body Areas with Ixekizumab: Response Trajectories by Patient Profile Clusters over Time
Andrew Blauvelt, MD, MBA – Oregon Medical Research Center, Portland, Oregon, United States

The patient perspective on vaccine uptake in adults with psoriasis and eczema
Megan Noe, MD, MPH, MSCE - Department of Dermatology, Brigham and Women's Hospital, Boston, Massachusetts, United States

Kullback-Leibler divergence model to integrate genetic and genomic information to assess drug response for psoriatic patients
Qinmengge Li, BS, MS - University of Michigan, Ann Arbor, Michigan, United States

HDL composition, particle number and size is associated with non-calcified coronary plaque in psoriasis
Álvaro Gonzalez-Cantero, MD, PhD - Hospital Ramón y Cajal, Madrid, Spain

A novel expression based, non-invasive method to differentiate atopic dermatitis and psoriasis
Michael D Howell, PhD - DermTech Inc., La Jolla, California, United States

12:00 PM
Closing Comments + Adjourn
Joel Gelfand
International Eczema Council (IEC) Symposium

**WEDNESDAY, MAY 18, 2022 10:00 AM – 1:15 PM**

**Microbiome**

**PROGRAM CHAIRS**
Tiffany C. Scharschmidt, MD
Associate Professor, UCSF Department of Dermatology

Heidi H. Kong, MD, MHSc
Senior Investigator, Dermatology Branch/NIAMS Adjunct Investigator, Laboratory of Integrative Cancer Immunology/CCR/NCI

**PROGRAM GOALS**
- Review the role of the human microbiome in eczema.
- Discuss the interaction of the microbiome with the skin immune system.
- Examine potential future applications of eczema microbiome research.

10:00 – 10:10 AM
Welcome & Program Overview
Tiffany Scharschmidt, MD
Heidi Kong, MHSc

10:10 – 10:40 AM
John Common, PhD, A*STAR,
**Skin microbiome signatures in atopic dermatitis**
Investigating microbial communities present on the skin of atopic dermatitis (AD) patients has led to a deeper understanding of the shifts in community diversity and functional gene pathways. These dynamic shifts across the flare cycle and according to the underlying endotypes of AD provide potential intervention points for topical therapies to reduce infections. We have also recently identified the shared microbiome signatures that exist between children with AD and their caregivers. This supports the inclusion of family members in microbial-based strategies for treating recurrent paediatric AD.

10:40 – 11:00 AM
Tami Lieberman, PhD, MIT
**On-person adaptive evolution of Staphylococcus aureus during treatment for atopic dermatitis**
Genetic variation among S. aureus strains is thought to contribute to heterogeneity in the severity of atopic dermatitis, but the degree of variation created by de novo mutation during colonization is not well understood. Here, I will present our results from longitudinal tracking S. aureus on-person evolution on 25 children treated for AD over 9 months.

11:10 – 11:25 AM
**Flash Talk #1** (10min + 5 min questions)
Saloni Shah, BA
*Heterogeneity in cutaneous infection prevalence and frequency by timing of atopic dermatitis onset*

11:25 – 11:40 AM
**Flash Talk #2** (10min + 5 min questions)
Sabrina J Nolan, PhD
*Staphylococcus aureus proteases trigger skin inflammation via eosinophil-derived IL-17 responses*

11:40 – 11:55 AM
BREAK

11:55 AM – 12:25 PM
Yumi Nakamura, MD, PhD, Osaka University
**Infantile eczema and Staphylococcus aureus agr mutations**
Agr quorum-sensing associated toxin productions from Staphylococcus aureus play some important roles in atopic dermatitis. We analyzed longitudinal changes of infant skin microbiome and S. aureus skin colonization in a skin care intervention study. Compared to previous Japanese infant cohort studies, the skin care intervention reduced the risk of infantile eczema/atopic dermatitis and increased the agr-mutation rate in skin-colonized S. aureus while this intervention did not reduce the risk of food-allergen sensitization. Food-allergen sensitized infants at one year-old have less microbiome diversity of their skin at one month of age independent of infantile eczema.

12:25 – 12:55 PM
Helen Alexander, MD, King’s College London
**Host-microbiome metabolic interactions in AD**
This talk will focus on host-microbiome interactions in AD, to include microbial metabolites as potential mediators of host-microbiome interactions. The AD gut microbiome and potential metabolic cross-talk between gut and skin will also be discussed.

12:55 – 1:10 PM
**Flash Talk #3** (10min + 5 min questions)
Cassandra Quave, PhD
*Botanical inhibitors of staphylococcal virulence: A new path toward mitigating atopic dermatitis severity?*

1:10 – 1:15 PM
Closing Comments & Adjourn
Tiffany Scharschmidt, MD
Heidi Kong, MD, MHSc

www.eczemacouncil.org
American Acne & Rosacea Society 10th Annual Scientific Symposium

WEDNESDAY, MAY 18, 2022 11:00 AM – 1:00 PM  C124

CO-CHAIRS
J. Mark Jackson, MD
AARS Immediate Past President Louisville, KY

Lawrence Eichenfield, MD
AARS Past President San Diego, CA

AGENDA

11:00 AM  Welcome
J. Mark Jackson, MD, AARS Past President

11:10 AM
Determinants of Antibiotic Stewardship for Acne: A Pilot Survey of Key Stakeholders,
Katherine Barker Case, BA, Department of Dermatology, Emory University School of Medicine, Atlanta, Georgia, USA

11:20 AM
Googling Acne: Analyzing Ingredients and Price of Over the Counter Acne Products,
Michael Kwa, MD, Henry Ford Medical Group, Henry Ford Health System, Detroit, Michigan, USA

11:30 AM
The Role of Siglecs in Acne Pathogenesis,
Thanh Tran, MS, University of California Los Angeles David Geffen School of Medicine, Los Angeles, California, USA

11:40 AM
Q&A and Panel Discussion,
Moderated by J. Mark Jackson

11:50 AM
Lunch Served

12:10 PM
Prevalence of Rosacea in Transgender and Gender Diverse Populations: A Retrospective Cohort Study,
Jessika Sanz, BS, New York Institute of Technology College of Osteopathic Medicine, Old Westbury, New York, USA

12:20 PM
Evaluation of Differences in C. acnes, S. epidermidis, and Demodex Between Rosacea Subjects and Normal Controls,
Olive Osuoji, MD, University of California San Diego, La Jolla, California, USA

12:30 PM
Epidermal Inflammatory Activity Is An Important Driver of Hidradenitis Suppurativa Lesions,
Stephanie Schell, PhD, Dermatology, Penn State College of Medicine, Hershey, Pennsylvania, USA

12:40 PM
HS: Patient Perspectives on Biologic Use,
Devea R. De, BS, University at Buffalo Jacobs School of Medicine and Biomedical Sciences, Buffalo, New York, USA

12:50 PM
Q&A and Panel Discussion,
Moderated by Lawrence Eichenfield, AARS, Past President

1:00 PM
Symposium Concludes
TRANSLATIONAL SYMPOSIUM I

Artificial Intelligence, Big Data, and Medical Informatics

Wednesday, May 18, 2022 1:30 PM – 2:30 PM  Oregon Ballroom 201-202

Moderator:

Khang Nguyen, MD, University of Texas, Southwestern Medical Center
Dr. Nguyen is currently an Assistant Professor in the Department of Dermatology at the University of Texas Southwestern Medical Center. He is interested in leveraging new technologies and large datasets for use in health services research and the improvement of patient outcomes. He is currently Chair of the AAD’s Health IT Committee

Presenters:

Utilization of Medical Records Data Resources to Study Atopic Dermatitis

David Margolis, MD/PhD, University of Pennsylvania
Dr. Margolis’s research work is focused on the epidemiology and treatment of chronic wounds, atopic dermatitis, and other dermatological illnesses. He has been the Principal Investigator of several NIH, industry, and foundation grants, focused on developing a predictions model for treating venous leg ulcers, on evaluating the association of genetic and immunogenetic variation on the persistence of and risk for atopic dermatitis, as well as investigator-initiated trials using gene therapy in phase I studies to treat venous leg ulcers and diabetic foot ulcers, and recently a randomized non-inferiority trial on oral therapy for acne. Finally, he has a long history of using administrative and medical record databases to improve our knowledge of dermatologic illnesses.

Augmenting the Physician Lens using Machine Learning

Kavita Sarin, MD/PhD, Stanford University School of Medicine
Kavita Sarin, MD/PhD is an Associate Professor of Dermatology at Stanford University. She received her undergraduate degree in computer science, graduate degree in genetics and medical degree at Stanford University. She completed her dermatology residency and postdoctoral fellowship at Stanford in the laboratory of Dr. Paul Khavari. Dr. Sarin has an academic interest in employing imaging, molecular and genomic analyses to elucidate the development, progression and treatment of skin cancers and other cutaneous diseases. Her lab has published over 80 original research publications in this area in top medical and scientific journals. She has received career development awards from the NIH, the Damon Runyon Foundation and Dermatology Foundation. Dr. Sarin is a member of the American Academy of Dermatology, Society of Investigative Dermatology, Stanford Cancer Institute, Stanford Children’s Health Research Institute, and Stanford Population Health Sciences program. Dr. Sarin also sees patients in medical dermatology and directs a specialized Precision Health and Skin Cancer Genetics clinic at the Stanford Cancer Institute.

The Supply Chain of Healthcare Data from Practice to Research to Better Outcomes

Benjamin Yu, MD/PhD, CMIO Spectator Health
Dr. Yu is the chief medical informatics officer at Spectator Health, a San Diego software startup dedicated to making aging at home easier and more affordable for seniors. Previously, he was the founding VP of Medical Informatics and Genomics at Interpreta which enables health systems, doctors and national laboratories to predict outcomes and manage wellness for millions of patients every day using analytics and machine learning. His academic experience includes genomics, epigenomics, cancer, and stem cell research with support from the Gates Foundation, NIH, CIRM, American Skin Association and Dermatology Foundation. He continues to advise startups, scientists, and software companies on data science, real-world evidence and molecular technologies and sees patients at UCSD and the VA.
Translational Symposium II
Drug Reactions and Repurposing

WEDNESDAY, MAY 18, 2022
2:30 PM – 3:30 PM
OREGON BALLROOM 201-202

MODERATOR
Joyce M. C. Teng, MD, PhD, FAAD,
Stanford University School of Medicine

Joyce Teng, MD, PhD is a professor in dermatology at Stanford University. She is affiliated with multiple hospitals in the area, including Lucile Salter Packard Children’s Hospital (LPCH) at Stanford and Stanford Hospital and Clinics (SHC). She received her medical degree from Vanderbilt University School of Medicine and has been in practice for more than 12 years. She is one of the six pediatric dermatologists practicing at LPCH and one of 72 at SHC who specialize in Dermatology. She sees patients with rare genetic disorders, birthmarks, vascular anomalies, and a variety of inflammatory skin diseases. She is also an experienced pediatric dermatological surgeon. Her research interests are drug discovery and novel therapy for skin disorders.

PRESENTERS

Interrogating the Origin, Phenotype, and Function of Pathogenic T cells in Drug Hypersensitivity Reactions
Sherrie J. Divito, MD/PhD,
Brigham and Women’s Hospital, Harvard Medical School, Dana Farber Cancer Institute, Boston Children’s Hospital

Dr. Divito is a dermatologist and immunologist specializing in complex medical dermatology with expertise in the areas of severe cutaneous adverse drug reactions and graft-versus-host disease. She is principal investigator of an immuno-dermatology research laboratory studying the immunopathogenesis of T cell mediated drug reactions and GVHD. Her lab’s efforts span bedside to bench and back again with the direct goal of improving patient care. Their work is highly translational, incorporating prospective and retrospective human studies and novel humanized mouse models of disease. They utilize both innovative and traditional laboratory techniques in their research and are highly collaborative with clinicians and investigators across multiple disciplines. Dr. Divito is the recipient of a prestigious Early Independence Award from the NIH Office of the Director and was named a Future Leader by the European Society for Dermatological Research. She is currently PI on two NIH grants.

Repurposing Disulfiram for the Treatment of Merkel Cell Carcinoma
Natasha Hill, PhD,
National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

Natasha T Hill, PhD, is an Independent Research Scholar in the Cutaneous Development and Carcinogenesis Section at the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS). Dr. Hill obtained her bachelor’s degree in chemistry at California State University, San Bernardino. She completed her PhD on keratinocyte and skin cancer biology under the mentorship of Dr. Madhavi Kadakia at Wright State University in 2015. Dr. Hill then continued her training as a postdoctoral fellow in the Dermatology Branch in the National Cancer Institute at the NIH under the mentorship of Dr. Isaac Brownell, where she began investigating the molecular pathogenesis of the neuroendocrine skin cancer Merkel cell carcinoma (MCC) and developing novel therapeutic combinations that show selective efficacy in MCC. In 2019, Dr. Hill was awarded a position in the inaugural cohort of NIH Independent Research Scholars. Through this appointment, Dr. Hill serves as a junior faculty member in NIAMS, leading an independent team of researchers.

Furthering Prediction, Prevention, and Targeted Treatments of Severe Cutaneous Adverse Drug Reactions
Elizabeth J. Phillips, MD/FIDSA/FAAAAI,
Vanderbilt University Medical Center

Elizabeth J. Phillips, MD/FIDSA/FAAAAI, is the John A. Oates Chair in Clinical Research at Vanderbilt University Medical Center where she is Professor of Medicine and Pathology, Microbiology and Immunology, and Professor of Pharmacology at the Vanderbilt University School of Medicine. She completed training in internal medicine, infectious diseases, microbiology, clinical pharmacology, and a research fellowship in drug safety at the University of Toronto. Prior to her appointment at Vanderbilt University Medical Center in 2013 she has held faculty appointments at the University of Toronto, the University of British Columbia, the University of Western Australia and Murdoch University where she has also fostered multidisciplinary alliances across Allergy & Immunology, Dermatology, Infectious Diseases and Clinical Pharmacology.
Clinical Scholars/Outcomes Lecture
Clinician-Led Investigation and New Therapies

WEDNESDAY, MAY 18, 2022 3:30 PM – 5:00 PM  OREGON BALLROOM 201-202

MODERATORS

Haley Naik, MD, University of California, San Francisco
Dr. Haley Naik is a dermatologist and investigator focused on advancing understanding of hidradenitis suppurativa biology and care through clinical and translational research. She is an Associate Professor of Dermatology the University of California, San Francisco where she established the UCSF Hidradenitis Suppurativa Clinic. She leads highly collaborative research efforts through the multi-center Hidradenitis Suppurativa Prospective Observational Registry and bioSpecimen repository (HS PROGRESS) and the Global Hidradenitis Suppurativa COVID-19 Registry. Dr. Naik completed medical school and dermatology residency at Harvard Medical School, a clinical research fellowship at the National Institutes of Health, and received a Master of Health Sciences from Duke University. She serves as an Associate Editor of JAMA Dermatology.

Eric Simpson, MD/MCR, Oregon Health and Science University
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 supports patient advocacy and improving research quality by serving as Co-Chair 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 policymakers. He is also serving as Chair of the NEA Research Advisory Committee.

PRESENTERS

Capturing Skin Disease via Omics Approaches
Allison Billi, MD/PhD, University of Michigan
Dr. Billi received her MD and PhD at the University of Michigan, where she also completed an integrated dermatology residency and research fellowship. Her research focuses on understanding immunological and genetic mechanisms of inflammatory skin disorders, with a special interest in sex-biased autoimmune disease. Her translational work is the product of close collaboration with a team of dermatologists, rheumatologists, and computational scientists.

Lessons to be Learned from Rare Skin Diseases
Edward Cowen, MD/MHSc, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)
Dr. Cowen is Senior Clinician, Dermatology Branch, National Institute of Arthritis and Musculoskeletal and Skin Diseases and Head of the NIH Dermatology Consultation Service. He completed his undergraduate work at Cornell University, medical training at Penn State, dermatology residency at the University of Rochester, and master’s degree in clinical research through the NIH/Duke University joint program. Dr. Cowen specializes in the evaluation of rare dermatologic syndromes, adverse drug reactions and graft-versus-host disease (GVHD). Dr. Cowen has authored >180 manuscripts and book chapters. Outside of the NIH, he recently served as Vice President of the American Board of Dermatology and has adjunct Professor appointments at Georgetown University and the Uniformed Services University of Health Sciences.

Leading Science in Your Team, Your Institution, and Across the Country
Lindsey Criswell, MD/MPH/DSc, National Institute of Arthritis and Musculoskeletal and Skin Diseases
Lindsey A. Criswell, MD/MPH/DSc., became Director of NIAMS in February 2021. Previously, she served as vice chancellor of research at the University of California, San Francisco, as well as professor of rheumatology, and professor of orofacial sciences. Her research focuses on the genetics and epidemiology of human autoimmune disease, particularly rheumatoid arthritis, and systemic lupus erythematosus. She also has mentored many students and junior faculty to independent research careers. Dr. Criswell earned a bachelor’s degree in genetics and a master’s degree in public health from the University of California, Berkeley; a DSc in genetic epidemiology from the Netherlands Institute for Health Sciences, Rotterdam; and an MD from UCSF. Dr. Criswell is board certified in internal medicine and rheumatology.

Treatment of Infantile Hemangioma: Right Patient, Right Time, Right Place
Beth Drolet, MD, University of Wisconsin School of Medicine and Public Health
Dr. Beth Drolet is a Professor of Dermatology and Pediatrics and Geneva F. & Sture Johnson Professor, Distinguished Chair of the Department of Dermatology at the University of Wisconsin - Madison, School of Medicine and Public Health. She is a board certified dermatologist, and a fellowship trained pediatric dermatologist. Dr. Drolet is a graduate of Loyola University of Chicago, Stritch School of Medicine and completed her Residency as well as a Pediatric Dermatology Fellowship at the Medical College of Wisconsin. She has published over 150 manuscripts, and her research focuses on birthmarks and rare vascular anomalies. Her team uses next-generation sequencing to identify genetic causes of vascular anomalies and is leveraging these discoveries to develop breakthrough medications that target the disease at its source. Her team is also leveraging artificial intelligence to build algorithms for the diagnosis of birthmarks.
Dr. Beck brings more than 20 years' experience to the treatment of atopic dermatitis and eczema. She is currently involved in an NIH-funded study to determine why certain patients are susceptible to the herpes simplex and Staphylococcus aureus viruses. Dr. Beck received her undergraduate degree from Mount Holyoke College and her medical degree from the State University of New York at Stony Brook.

Research
Dr. Lisa Beck has dedicated her 25-year career to finding safe, effective treatments for patients with atopic dermatitis, more commonly known as eczema. Internationally recognized as an eczema expert, her research was instrumental in the development of the first biologic drug called dupilumab (brand name Dupixent) for the treatment of adults with moderate to severe eczema. She was the lead author of a 2014 New England Journal of Medicine paper that set the stage for the FDA approval of this drug in March 2017. She is Co-Director of the URMC Center for Allergic Disease Research (CADR) which was recently chosen as one of four US centers with the World Allergy Organizations Center of Excellence designation. She has been the secretary of the International Eczema Council (IEC) since its inception in 2014, emeritus member of the National Eczema Association (NEA) Scientific Advisory committee, and President-Elect of the Society of Investigative Dermatology. She has been NIH-funded to study this disease since 1992 and her main focus is now on understanding why certain eczema patients are susceptible to cutaneous viral infections such as herpes simplex as well as bacterial colonization or infection with Staphylococcus aureus. As the founding director of the URMC Dermatology Clinical Trials Unit, she has completed >14 clinical AD registry, mechanistic, and interventional trials, all of which met or exceeded enrollment/retention expectations and has > 500 person URMC AD patient Registry. She has had continuous NIH funding since 1994, and has been co-PI of the NIH/NIAID-funded Atopic Dermatitis Research Network (ADRN) since it inception in 2004, which has amassed the largest cross-sectional registry of deeply phenotyped AD subjects in the world. She has been PI of the ADRN Biomarker Repository since 2014 with >150,000 serum and skin swab samples. Dr. Beck received her undergraduate degree from Mount Holyoke College, her medical degree from the State University of New York at Stony Brook, two years of internal medicine training at Strong Memorial Hospital, Dermatology residency at Duke University and an Immunology Research fellowship at Johns Hopkins University.

Education
1985: MD | Stony Brook University

Post-doctoral Training & Residency
07/01/1987 - 07/31/1990
Residency in Dermatology at Duke University Medical Center

07/01/1986 - 07/31/1987
Residency in Internal Medicine at University of Rochester Medical Center

06/27/1985 - 07/31/1986
Internship in Internal Medicine at University of Rochester Medical Center
LEO Foundation Award 2022 Region Americas

WEDNESDAY, MAY 18, 2022 5:10 PM – 5:15 PM  OREGON BALLROOM 201-202

LEO Foundation Awards recognize outstanding young researchers and scientists from around the world whose work represents an extraordinary contribution to skin research and has the potential to pave the way for new and improved treatments for skin diseases.

Three awards are made each year, one in each of the three regions: Americas, EMEA (Europe, Middle East, Africa) and Asia-Pacific. Each award is worth USD 100,000.

The winner of the LEO Foundation Award - Region Americas will be announced live at the SID Annual Meeting:

   Wednesday, 18 May, 2022
   5:10 pm
   Oregon Ballroom 201-202

Find out more about application terms and deadlines at leo-foundation.org

The LEO Foundation provides philanthropic grants with the aim to support the best international research in skin diseases and make Denmark a global beacon for skin research. The Foundation has given more than USD 120 million in grants and awards – in Denmark and all over the world.

The LEO Foundation is one of Denmark’s largest commercial foundations and an engaged owner of the pharma-ceutical company LEO Pharma. As a commercial foundation, the LEO Foundation is fully independent of outside interests and has no owners or personal beneficiaries. The Foundation’s main objective is to ensure LEO Pharma’s long-term development and success.
Stephen I Katz Leadership Lecture (Part I)
A Tribute to Dr. Stephen I Katz

WEDNESDAY, MAY 18, 2022 5:15 PM – 5:45 PM OREGON BALLROOM 201-202

A TRIBUTE TO DR. STEPHEN I KATZ

In honor of the legacy of Dr. Katz, the SID has assembled a list of speakers who will share their reflections and stories about his life and times.

SPEAKERS

John Stanley, MD
University of Pennsylvania

Peggy Crawford, MD
University of California, San Francisco

Georg Stingl, MD
Medical University of Vienna

Russell Hall, MD
Duke University

Adela Rambi G. Cardones, MD/MHSc
Duke University

Donate to the
Dr. Stephen I Katz Lecture Fund
https://tinyurl.com/bde6a7u8
Stephen I Katz Leadership Lecture
Neuroimmune Regulation of Itch

WEDNESDAY, MAY 18, 2022  5:45 PM – 6:15 PM  OREGON BALLROOM 201-202

INTRODUCTION
Dr. John Stanley

Brian Kim, MD
Icahn School of Medicine at Mt. Sinai

Dr. Kim’s laboratory focuses on the regulatory mechanisms that underlie skin inflammation and the sensation of itch as a model paradigm of neuroimmunology. He has >80 peer-reviewed publications, multiple NIH grants, designed pivotal clinical trials, and is an inventor of multiple itch-centered technologies. His research in neuroimmune regulation of itch and atopic dermatitis has led to awards and funding from the NIH, Doris Duke Charitable Foundation, American Skin Association, American Academy of Dermatology, American Society for Clinical Investigation, American Dermatological Association, and International League of Dermatological Societies. He holds a patent for the use of JAK inhibitors for chronic itch. He is on the scientific advisory board for Abrax Japan, Granular Therapeutics, Recens Medical, National Eczema Association, and Cell Reports Medicine. Social Media: @itchdoctor; https://www.briankimlab.org

Dr. Katz Lecture Bio

Stephen I. Katz was the director of the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) starting in August 1995 (until his passing in 2019) and was also a senior investigator in the dermatology branch of the National Cancer Institute (NCI) from 1974 to 2014.

He was born in New York in 1941 and his early years were spent in the Washington, DC, and Bethesda, MD areas. After attending the University of Maryland, where he graduated with honors, he graduated from the Tulane University Medical School with honors in 1966. He completed a medical internship at Los Angeles County Hospital and did his dermatology residency at the University of Miami Medical Center from 1967 to 1970. He served in the US military at Walter Reed Army Medical Center from 1970 to 1972.

From 1972 to 1974, Dr. Katz did a postdoctoral fellowship at the Royal College of Surgeons of England and received a PhD in Immunology from the University of London in 1974. He then became Senior Investigator in the Dermatology branch of the NCI and assumed the position of Acting Chief in 1977. In 1980, he became Chief of the branch, a position he held until 2002. In 1989, Dr. Katz also took the position of Marion B. Sulzberger Professor of Dermatology at the Uniformed Services University of the Health Sciences in Bethesda, MD, a position that he held until 1995.

Dr. Katz has focused his studies on immunology and the skin. His research has demonstrated that skin is an important component of the immune system both in its normal function and as a target in immunologically mediated disease. In addition to studying Langerhans cells and epidermally derived cytokines, Dr. Katz and his colleagues have added considerable new knowledge about inherited and acquired blistering skin diseases.

Dr. Katz had trained many outstanding immunedermatologists in the United States, Japan, Korea, and Europe. Many of these individuals are now leading their own high-quality, independent research programs. He served on many professional societies in leadership positions including as a member of the Board of Directors and President of the Society for Investigative Dermatology; on the board of the Association of Professors of Dermatology; as Secretary-General of the 18th World Congress of Dermatology in New York in 1992; as Secretary-Treasurer of the Clinical Immunology Society; and as President of both the International League of Dermatological Societies and the International Committee of Dermatology.

Dr. Katz has also served on the editorial boards of several clinical and investigative dermatology journals, as well as several immunology journals. He had received many honors and awards, including the Master Dermatologist Award and the Sulzberger Lecture Award of the American Academy of Dermatology, and been honored by the Japanese government from which he received both the Order of the Rising Sun and Gold Rays with Neck Ribbon from the Japanese Emperor. Dr. Katz had twice received the Meritorious Rank Award and has also received the Distinguished Executive Presidential Rank Award, the highest honor that can be bestowed upon a civil servant.
WELCOME RECEPTION

WEDNESDAY, MAY 18, 2022 6:30 PM – 8:00 PM OREGON BALLROOM FOYER

All attendees are invited to join us for a Welcome Reception to kick off the 2022 SID Annual Meeting. Gather with your colleagues at the Oregon Convention Center immediately following the last session of the day for cocktails and light snacks.

This event is free of charge and beverage tokens can be found in your meeting registration packet.
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<td>Break</td>
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<td>Terminal 5 – B112</td>
<td>61</td>
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<tr>
<td>6:30 PM — 8:30 PM</td>
<td>Social Event</td>
<td>Oregon Convention Center (OCC)</td>
<td>62</td>
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</tbody>
</table>
Membership just became easier.

The SID is pleased to offer two new features of membership dues options for your convenience!

**Automatic Renewal**

We now have an auto-renewal option in place for your SID Active or Patron Membership. With the auto-renewal activated on your membership, your dues status will always be current, preventing any interruption to your member benefits. Your membership will automatically renew on your anniversary date with no effort on your part! You will still receive a renewal reminder two-weeks prior, allowing you to make any changes to the card on file or update your membership type.

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Multi-Year Membership – You now have the option to select a multi-year membership as a SID Active Member and receive $50 off in years two and three.

- Active level member (Year 1) = $300
- Active level member (Year 2) = $250
- Active level member (Year 3) = $250
- Total for 2-year membership = $550 (a $50 savings in total)
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[www.sidnet.org/membership/login](http://www.sidnet.org/membership/login)
National Institute Of Allergy And Infectious Diseases (NIAID) Session

THURSDAY, MAY 19, 2022 7:00 AM – 8:30 AM OREGON BALLROOM 204

NIAID-Funded Atopic Dermatitis Research Updates

Introductions by: Patricia C Fulkerson, MD, PhD

Patricia C Fulkerson, MD, PhD is a Medical Officer in the Food Allergy, Atopic Dermatitis, and Allergic Mechanisms Section of the Allergy, Asthma and Airway Biology Branch in the Division of Allergy, Immunology and Transplantation of the National Institute of Allergy and Infectious Diseases (NIAID), NIH. Prior to joining the NIH, Dr. Fulkerson was a NIH-funded clinical investigator at Cincinnati Children's Hospital Medical Center with an independent research program focused on eosinophil development and a clinical practice focused on pediatric eosinophil-associated disorders.

SPEAKERS

“A Multi-omics approach to characterize AD endotypes and phenotypes”, Elena Goleva, PhD. Dr. Elena, Associate Professor, Department of Pediatrics, National Jewish Health, Denver, CO. In her 22-year career at National Jewish, Dr. Goleva has led multiple NIH-sponsored studies on molecular mechanisms of allergic and inflammatory disorders, including atopic dermatitis, food allergy and asthma. Currently, her research is focusing on molecular effects of cytokine environment and microbial products on the epidermal development, keratinocyte biology, skin barrier function and immune responses in atopic dermatitis and food allergy. Dr. Goleva developed a set of laboratory assays to evaluate the patients’ responsiveness to corticosteroids, which has been successfully applied in a multicenter NIAID-funded Inner City Asthma Consortium study to characterize steroid refractory asthma.

“Effect of Dupilumab (anti-IL4Rα) on the Host-Microbe Interface in Atopic Dermatitis” Lisa Beck, MD, Carol & Lowell Goldsmith Professor of Dermatology, Medicine & Pathology Director of Dermatology Clinical Trials Unit, University of Rochester Medical Center, Rochester, NY. Dr. Beck is the Carol & Lowell Goldsmith Professor of Dermatology, with secondary appointments in Allergy, Immunology and Rheumatology and Pathology at the University of Rochester Medical Center. Dr. Beck was instrumental in the development of the first biologic drug, dupilumab for the treatment of adults with moderate to severe eczema. She has had continuous NIH funding since 1994, to study allergic inflammation, epithelial barrier function and to better understand AD patients’ susceptibility to bacterial and viral infections; and is part of the NIAID-funded Atopic Dermatitis Research Network (ADRN). She has been Section Editor for the JID, past member of the ABD, member of the NEA Scientific Advisory Board, a Board member, Vice President and currently President of the SID, Past -Secretary of the IEC, member of the ADCare Steering Committee and both a standing and ad hoc reviewer for several NIH study sections. She has published over 140 research papers, 15 chapters or review articles, and 11 editorials and holds two patents.

“The role of the microbiome and effects of targeted bacteriotherapy in Atopic Dermatitis”, Richard Gallo, MD, PhD, Distinguished Professor, Irma Gigli Endowed Chair, Founding Chairman, Department of Dermatology, University of California San Diego, San Diego, CA. Dr. Gallo received his training at the University of Chicago, the University of Rochester, Johns Hopkins, and Harvard. His work is best known for his seminal discoveries in the fields of innate immunity and the functions of the microbiome on the skin. As a postdoctoral fellow at Harvard, he was the first to describe the existence of antimicrobial peptides in mammalian skin. His lab has since led research towards understanding how these peptides act in host defense of epithelial surfaces and how they interact with the skin microbiome. Gallo’s research has contributed to a better understanding of fundamental mechanisms involved in innate immunity and the pathophysiology of human diseases such as rosacea, atopic dermatitis, and acne.

Q&A
Diversity, Equity, And Inclusion Session

THURSDAY, MAY 19, 2022 7:00 AM – 8:30 AM A105-A106

INTRODUCTION
Amanda MacLeod, MD, Co-Chair, SID Diversity, Equity & Inclusion Committee
Cory Simpson, MD, PhD, Co-Chair, SID Diversity, Equity & Inclusion Committee

KEYNOTE SPEAKER

Elizabeth Ofili, Md, MPH, FACC
Dr. Ofili is a Professor of Medicine, at Morehouse School of Medicine, and a practicing cardiologist with Morehouse Healthcare in Atlanta, Georgia. She serves as Chief Medical Officer for the Morehouse Choice Accountable Care Organization, a Center for Medicare and Medicaid Services (CMS) Shared Savings Program, which includes Morehouse Healthcare, and Federally Qualified Health Centers across the state of Georgia. Dr. Ofili is a national and internationally recognized clinician scientist with particular focus on cardiovascular disparities and women’s health. She has been continuously funded by the National Institutes of Health (NIH), since 1994, with a track record in clinical trials that impact health disparities. In 2002, as president of the Association of Black Cardiologists (ABC), Dr. Ofili led the initiative to implement the landmark African American Heart Failure Trial (AHEFT), whose findings changed practice guidelines for the treatment of heart failure in African Americans. Dr. Ofili also established the ABC Center for Women’s Health and Epidemiology, and currently leads the ABC Cardiovascular Study (CVIS), a practice based research registry that is integrating social determinants and technology innovation for data driven and scalable access to point of care clinical trials, with a goal of advancing health equity.

Dr. Ofili brings her knowledge of health and medicine to technology and innovation. She is the Founder and Chief Science Officer of AccuHealth Technologies Inc./Health 360x™ a patient centered service for population health management and clinical trial diversity. Health 360x™ provides infrastructure for a decentralized clinical trial network that is funded in part by a Small Business Innovation Research (SBIR) Award (# 1R44TR003832-01) from the National Center for Advancing Translational Science (NCATS), at the National Institutes of Health (NIH).

Q&A

Small Group Discussion
Argenix Symposium

THURSDAY, MAY 19, 2022
7:00 AM – 8:30 AM
OREGON BALLROOM 203

Evolving Understanding of Autoimmune Blistering Disease Pathophysiology

Exploration of FcRn Inhibition as a Potential Therapeutic Target

Breakfast will be served

Role of Autoantibodies in Autoimmune Blistering Disease Pathophysiology, and Treatment Goals

M. Peter Marinkovich, M.D.
Associate Professor and Clinic Director; Bullous Diseases Department of Dermatology, Stanford University School of Medicine

FcRn as a Potential Therapeutic Target in Autoimmune Blistering Diseases

Kyle Amber, M.D.
Division of Dermatology Rush University Medical Group Assistant Professor Department of Otorhinolaryngology

Clinical Trial Design of FcRn Inhibitors in Patients With Autoimmune Blistering Disorders

Russell P. Hall, M.D.
J. Lamar Callaway Distinguished Professor of Dermatology Department of Immunology Duke University School of Medicine

A sponsored scientific symposium at the 2022 Society for Investigative Dermatology Annual Meeting, May 18-20, Portland, OR, USA
Concurrent Mini-Symposium 1
Clinical Research – Epidemiology and Observational Research

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

THURSDAY, MAY 19, 2022  
8:45 AM – 11:15 AM  
OREGON BALLROOM 203

Presiders: Ben Chong, MD, Haley Naik, MD

8:45 AM - 8:57 AM
Abstract # 214: Pre-existing cutaneous autoimmune disease may improve survival in patients treated with anti-PD-1 or anti-PD-L1 therapy: A population level cohort study
K. Tang1, B. C. Tiu1, G. Wan1, S. Zhang1, N. Nguyen1, B. Leung1, A. Gusev1, K. Reynolds1, S. Kwatra1, Y. Sun1, C. Chuang1, Z. Wang1
1Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts, United States, 2Dana-Farber Cancer Institute, Harvard Medical School, Boston, Massachusetts, United States, 3Johns Hopkins University, Baltimore, Maryland, United States

8:57 AM - 9:09 AM
Abstract # 165: Risk of skin cancer in individuals with neurofibromatosis type 1 in the United States: A retrospective market claims analysis
P. Trinh, S. Li, K. Y. Sarin
Dermatology, Stanford University School of Medicine, Stanford, California, United States

9:09 AM - 9:21 AM
Abstract # 147: Development and validation of a caregiver-reported numeric rating scale for measuring pruritus in children aged 6 months to <6 years with atopic dermatitis
A. Paller1, E. Siegfried2, S. E. Marron1, M. Clark1, B. DiBenedetti1, L. Nelson1, J. Chao2, A. Bansal3, Y. Sun4, C. Chuang1, Z. Wang1
1NU Feinberg School of Medicine, Chicago, Illinois, United States, 2Cardinal Glennon Hospital, Saint Louis, Missouri, United States, 3University Hospital Miguel Servet, Zaragoza, Spain, 4RTI Health Solutions, Ann Arbor, Michigan, United States, 5RTI Health Solutions, Research Triangle, North Carolina, United States

9:21 AM - 9:33 AM
A. Walker1, S. Black1, F. Walocko1, X. Li1, B. F. Chong1
1Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, 2Population and Data Sciences, The University of Texas Southwestern Medical Center, Dallas, Texas, United States

9:33 AM - 9:45 AM
Abstract # 158: Skin cancer risk in people living with HIV during the antiretroviral therapy era
Division of Cancer Epidemiology and Genetics, National Institutes of Health, Bethesda, Maryland, United States

9:45 AM - 9:57 AM
Abstract # 213: Sentinel lymph node biopsy in patients with clinical stage IIB/C cutaneous melanoma
R. J. Straker, C. E. Sharon, E. Chu, J. T. Miura, G. C. Karakousis, M. Ming
University of Pennsylvania, Philadelphia, Pennsylvania, United States

9:57 AM - 10:09 AM
Abstract # 170: Non-melanoma skin cancer and hereditary hemochromatosis: A retrospective cohort study
C. X. Pan1, K. Yang1, C. B. Lau2, G. Zhou1, V. Nambudiri, MD, MBA1,2
1Brigham and Women’s Hospital, Boston, Massachusetts, United States, 2Harvard Medical School, Boston, Massachusetts, United States, 3Tufts Medical Center, Boston, Massachusetts, United States, 4Boston University, Boston, Massachusetts, United States

10:09 AM - 10:21 AM
Abstract # 201: What is the risk of Merkel cell carcinoma recurrence beyond pathologically clear margins? An analysis of 926 cases
A. Fu1, N. Singh2, K. Lachance1, D. Hippe3, P. Nghiem1, S. Y. Park1
1University of Washington, Seattle, Washington, United States, 2Virginia Tech Carilion School of Medicine, Roanoke, Virginia, United States

10:21 AM - 10:33 AM
Abstract # 258: Prevalence of autosomal recessive genodermatoses: Determination based on pathogenic sequence variants in publicly available exomic and genomic databases
C. Huang1, A. Saeidian, L. Youssefian, H. Vahidnezhad, J. Uitto
Thomas Jefferson University, Philadelphia, Pennsylvania, United States

10:33 AM - 10:45 AM
Abstract # 154: Increasing incidence of cutaneous T-cell lymphoma in the United States: A SEER population data analysis
Z. Cai1, M. Chen1, M. Weinstock2, R. Novoa1, Y. H. Kim1, E. Linos1
1Stanford University, Stanford, California, United States, 2Brown University, Providence, Rhode Island, United States

10:45 AM - 10:57 AM
Abstract # 191: Clinical characteristics associated with functional abnormalities in pediatric and adult morphea: A cross-sectional study
H. W. Chen1, A. Walker1, K. Schollaert-Fitch1, K. Torok2, H. Jacob1
1Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, 2Rheumatology, Pediatrics, University of Pittsburgh, Pittsburgh, Pennsylvania, United States

10:57 AM - 11:09 AM
Abstract # 238: Cutaneous dermatomyositis area and severity index activity score (CDASI-A) and associated patient-reported outcomes in a phase 2 clinical trial in dermatomyositis
J. Dan1, 3, J. Concha1, 3, G. Sprow1, 3, R. Feng2, M. Afarideh1, 3, N. Kodali1, 3, T. Vazquez1, 3, D. Diaz1, 3, B. White4, V. Werth1, 3
1Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, 2Population and Data Sciences, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, 3Johns Hopkins University, Baltimore, Maryland, United States, 4RTI Health Solutions, Ann Arbor, Michigan, United States
Concurrent Mini-Symposium 2
Epidermal Structure and Barrier Function

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

THURSDAY, MAY 19, 2022
8:45 AM – 11:15 AM
OREGON BALLROOM 204

Presidents: Ru Yi, PhD, Brian Capell, MD/PhD

8:45 AM - 8:57 AM
Abstract # 449: Investigating the role of ferroptosis in epidermal differentiation
N. Kuprasertkul1, 2, S. Egoi1, 3, J. Zou1, A. Anderson1, C. L. Simpson1, K. Ge1, 3, T. Seykora1, 2, B. C. Capell1, 2, 4
1Dermatology, University of Pennsylvania, Philadelphia, Pennsylvania, United States, 2Epigenetics Institute, University of Pennsylvania, Philadelphia, Pennsylvania, United States, 3NIDDK, National Institutes of Health, Bethesda, Maryland, United States, 4Department of Medicine, Keio University School of Medicine, Tokyo, Japan

8:57 AM - 9:09 AM
Abstract # 448: Physiological function of krox20 (Egr2) in epithelial stem cells
E. J. Tchegnon1, 2, C. Liao1, 3, E. Ghotbi1, L. Q. Le1, 4, 5
1Dermatology, University of Texas Southwestern Medical Center, Dallas, Texas, United States, 2Epigenetics Institute, University of Pennsylvania, Philadelphia, Pennsylvania, United States, 3Graduate Institute of Molecular Genetics, University of Pennsylvania, Philadelphia, Pennsylvania, United States, 4Graduate Institute of Molecular Genetics, University of Pennsylvania, Philadelphia, Pennsylvania, United States, 5Simmons Comprehensive Cancer Center, The University of Texas Southwestern Medical Center, Dallas, Texas, United States

9:09 AM - 9:21 AM
Abstract # 410: Three stepwise pH zones to form functional stratum corneum
K. Fukuda1, 2, Y. Furuichi1, 2, T. Miyano1, R. J. Tanaka1, T. Matsui1, 4, M. Amagai1, 2
1Skin Homeostasis, RIKEN-IMS, Yokohama, Japan, 2Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, 3University of Copenhagen, Copenhagen, Denmark, 4Department of Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

9:21 AM - 9:33 AM
Abstract # 427: The autophagy receptor TEX264 initiates endoplasmic reticulum degradation in differentiating epidermal keratinocytes
C. L. Simpson, C. Johnson
Dermatology, University of Washington, Seattle, Washington, United States

9:33 AM - 9:45 AM
Abstract # 434: Molecular events in the epidermis upon aryl hydrocarbon receptor targeting: AHR-TFAP2A axis drives epidermal keratinocyte differentiation
J. P. Smits1, J. Qu1, F. Pardow1, 2, D. Rodijk-Olthuis1, I. van Vlijmen-Willems1, S. van Heeringen1, P. Zeeuwen1, J. Schalkwijk1, H. Zhou1, 2, E. van den Bogard1
1Dermatology, Radboudumc, Nijmegen, Gelderland, Netherlands, 2Molecular Developmental Biology, Radboud Universiteit, Nijmegen, Gelderland, Netherlands, 3Human Genetics, Radboud Universiteit, Nijmegen, Gelderland, Netherlands

9:45 AM - 9:57 AM
Abstract # 409: Corneoptosis, functional keratinocyte cell death, is tightly associated with spatiotemporal dynamics of epidermal tight junctions
T. Matsui1, 2, M. Urabe1, K. Fukuda1, 2, M. Amagai1, 2
1Laboratory for Evolutionary Cell Biology of the Skin, School of Bioscience and Biotechnology, Tokyo University of Technology, Tokyo, Japan, 2Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan

9:57 AM - 10:09 AM
Abstract # 418: Commensal C. acnes promote epidermal keratinocyte lipid synthesis via PPAR
S. Ailimoughrabe1, 2, L. Cau1, C. Mainzer1, B. Coss1, K. J. Williams1, S. J. Bensinger1, 2, R. Gallo1
1Dermatology, UC San Diego, La Jolla, California, United States, 2R&D Department, Silab, Brive, France, 3Microbiology, Immunology and Molecular Genetics, Los Angeles, California, United States, 4Molecular and Medical Pharmacology, UCLA, Los Angeles, California, United States

10:09 AM - 10:21 AM
Abstract # 450: Ephrin-A ligand engagement of EPHA2 receptor tyrosine kinase reverses Th2 cytokine-induced epidermal barrier disruption
B. Anstbro, B. Shi, B. E. Perez-White
Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

10:21 AM - 10:33 AM
Abstract # 424: C10orf99 governs keratinocyte inflammatory response and barrier formation of the skin
T. Dainichi1, 2, Y. Nakano1, H. Doi1, S. Nakamizo1, 4, S. Nakajima1, R. Matsumoto2, T. Farkas1, P. Wong1, Y. Narang1, E. Kawakami1, E. Guttman-Yassky1, O. Dreesen1, T. Litman1, B. Reversade1, K. Kabashima1, 2
1Kagawa University, Miki-cho, Kagawa, Japan, 2Kyoto University, Kyoto, Japan, 3University of Copenhagen, Copenhagen, Denmark, 4A*STAR, Biopolis, Singapore, 5RIKEN, Yokohama, Japan, 6Ichnah School of Medicine at Mount Sinai, New York, New York, United States

10:33 AM - 10:45 AM
Abstract # 405: Atopic dermatitis patients have decreased epidermal innervation but increased neuronal substance p expression
C. N. Calco1, W. Baghoomian1, D. B. Jacoby1, E. Simpson1
1School of Medicine, Oregon Health & Science University, Portland, Oregon, United States, 2Pulmonary and Critical Care Medicine, Oregon Health & Science University, Portland, Oregon, United States, 3Department of Dermatology, Oregon Health & Science University, Portland, Oregon, United States

10:45 AM - 10:57 AM
Abstract # 399: Tralokinumab treatment modifies stratum corneum lipid composition in skin of adolescents with atopic dermatitis
E. Berdyshev1, 2, E. Simpson1, L. Brona2, 3, W. Soong1, R. Antaya1, S. Imafuku4, M. A. Repke4, L. Jiang1, E. Guttman-Yassky1, D. Y. Leung1
1National Jewish Health, Denver, Colorado, United States, 2Ichnah School of Medicine at Mount Sinai, New York, New York, United States, 3AllerVie Health-Alabama Allergy and Asthma Center, Birmingam, Alabama, United States, 4Fukuoka University, Fukuoka, Japan, 5LEO Pharma A/S, Ballerup, Hovedstaden, Denmark, 6Yale School of Medicine, New Haven, Connecticut, United States, 7University of Mississippi, University Park, Mississippi, United States, 8Oregon Health & Science University, Portland, Oregon, United States

10:57 AM -11:09 AM
Abstract # 406: Modulation of calcium channel activity in Darier’s disease keratinocytes improves disease phenotypes
1Laboratory for Evolutionary Cell Biology of the Skin, School of Bioscience and Biotechnology, Tokyo University of Technology, Tokyo, Japan, 2Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, 3Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, 4Institute of Human Genetics, Los Angeles, California, United States, 5Simmons Comprehensive Cancer Center, The University of Texas Southwestern Medical Center, Dallas, Texas, United States
Concurrent Mini-Symposium 3
Genetic Disease, Gene Regulation, and Gene Therapy

Studies on cutaneous gene expression (including genomic based studies) and genetic diseases including gene therapy (Cancer-related genetic studies are more appropriate for Carcinogenesis and Cancer Genetics).

THURSDAY, MAY 19, 2022
8:45 AM – 11:15 AM
A105-A106

Presidents: Keith Choate, MD/PhD, Jean Tang, MD/PhD

8:45 AM - 8:57 AM
Abstract # 502: The genomic and phenotypic landscape of ichthyosis: An analysis of 1000 kindreds
Q. Sun1, N. Marukian2, S. Cheraghli2, A. Paller1, M. Larralde1, L. Bercovitch1, J. Levinsohn1, I. Ren1, R. Hu1, J. Zhou1, T. Zaki1, R. Fan1, C. Tian1, C. Saracenii, C. Nelson-Williams1, E. Loring1, B. Craiglow1, L. Milstone2, R. Lifton3, L. Boyden1, K. Choate1
1Brigham and Women’s Hospital Department of Medicine, Boston, Massachusetts, United States, 2Dermatology, New York University Grossman School of Medicine, New York, New York, United States, 3Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 4Dermatology, Hospital Aleman, Buenos Aires, Argentina, 5Dermatology, Brown University Warren Alpert Medical School, Providence, Rhode Island, United States, 6Dermatology, Yale School of Medicine, New Haven, Connecticut, United States, 7Icahn School of Medicine at Mount Sinai, New York, New York, United States

8:57 AM - 9:09 AM
Abstract # 506: Epidermal epitranscriptomics: METTL3 dependent m6A maintains the epidermal stem cell state through regulation of chromatin-modifying enzymes
A. M. Maldonado López1,2, S. Huang1, A. Anderson2, B. C. Capell2,3
1Genetics, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States, 2Dermatology, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States, 3Penn Epigenetics Institute, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States

9:09 AM - 9:21 AM
Abstract # 471: Integrated psoriasis GWAS and eQTL analysis reveals risk-associated genetic control of TRAF3IP2-AS1 expression in activated CD8 T-cells
L. Tsoi1, Z. Zhang1, P. Stuart1, N. Dand1, M. Patrick1, M. A. Simpson2, J. Voorhees1, J. Barker1, R. Nair1, J. T. Elder1
1University of Michigan, Ann Arbor, Michigan, United States, 2Kings College, London, London, United Kingdom

9:21 AM - 9:33 AM
Abstract # 505: Expanded GWAS meta-analysis offers novel insights into psoriasis biology
N. Dand1, L. Tsoi1, J. Barker1, M. A. Simpson2, J. Elder2, International Psoriasis GWAS Consortium1,2
1King’s College London, London, London, United Kingdom, 2University of Michigan, Ann Arbor, Michigan, United States

9:33 AM - 9:45 AM
Abstract # 467: Crucial epigenetic modules in skin differentiation
1Molecular Biosciences, Northwestern University, Evanston, Illinois, United States, 2Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 3Neurology, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States, 4Laboratory of Genetic Skin Diseases, INSERM UMR 1163 and Imagine Institute of Genetic Diseases, Paris, France, 5Institut Pasteur, Transcriptome and Epigenome Platform, Biomics Pole, Paris, France, 6Department of Dermatology, University of Michigan, Ann Arbor, Michigan, United States, 7Icahn School of Medicine at Mount Sinai, New York, New York, United States

9:45 AM - 9:57 AM
Abstract # 466: Rapid activation of epidermal progenitor differentiation via CDK9 activity modulated by AFPI and HEMI
S. Lloyd1, M. Brady1, D. Rodriguez1, D. Leon1, M. McReynolds1, J. Kwoen1, A. Neely1, X. Bao1
1Molecular Biosciences, Northwestern University, Evanston, Illinois, United States, 2Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

9:57 AM - 10:09 AM
Abstract # 496: Differential chromatin accessibility and gene expression suggest Th17 polarization in activated and skin-homing T cells
Z. Zhang, Y. Zhao, L. Tsoi, R. Nair, P. Stuart, X. Wen, J. Elder
University of Michigan, Ann Arbor, Michigan, United States

10:09 AM - 10:21 AM
Abstract # 459: Regulation of the keratinocyte progenitor to differentiation switch by alternative mRNA splicing
S. Takashima1, P. Cai2, W. Sun3, J. Bul4, A. Otten5, K. Qu5, B. Sun6
1Department of Dermatology, University of California San Diego, La Jolla, California, United States, 2Division of Molecular Medicine, University of Science and Technology of China, Hefei, Anhui, China, 3Genetics, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States, 4Dermatology, Stanford University School of Medicine, Redwood City, California, United States, 5Neurology, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States

10:21 AM - 10:33 AM
Abstract # 470: Investigating modifiers of cutaneous neurofibroma development in adults with neurofibromatosis type 1
E. Petev1, J. Ramos2, X. Hu2, J. Roberts3, F. McCormick1, J. Blakeley1, C. Romo1, K. Y. Sarin1
1Dermatology, Stanford University School of Medicine, Redwood City, California, United States, 2Cellular and Molecular Pharmacology, University of California San Francisco, San Francisco, California, United States, 3Neurology, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States

10:33 AM-10:45 AM
Abstract # 508: Skin barrier defect and inflammation in Netherton syndrome: Lessons from a comparative study of patients and mouse models
E. Petrova1, J. Lopez-Gay Orts2, M. Fahrner3, F. Leturcq1, C. Barbieux1, J. de Villartay4, H. Varet5, J. Coppée5, J. E. Gudjonsson6, L. Tsoi1, A. Hovnanian2,7
1Molecular Biosciences, Northwestern University, Evanston, Illinois, United States, 2Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 3Neurology, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States, 4Laboratory of Genetic Skin Diseases, INSERM UMR 1163 and Imagine Institute of Genetic Diseases, Paris, France, 5Institut Pasteur, Transcriptome and Epigenome Platform, Biomics Pole, Paris, France, 6Department of Dermatology, University of Michigan, Ann Arbor, Michigan, United States, 7Icahn School of Medicine at Mount Sinai, New York, New York, United States

10:45 AM-10:57 AM
Abstract # 509: A single-cell transcriptional gradient in human cutaneous memory T cells suppresses pathogenic Th17 inflammation
M. Taylor1, C. Cook1, Y. Liu2, R. Schmidt3, A. Hailer1, J. North1, H. Wang1, S. Kashem1, E. Purdom4, A. Marson3, S. Ramos5, R. Choi6, J. Cheng1
1Dermatology, University of California San Francisco, San Francisco, California, United States, 2Dermatology, Xi’an Jiaotong University, Xi’an, Shaanxi, China, 3Gladstone Institutes, San Francisco, California, United States, 4Division of Molecular Medicine, University of California Berkeley, Berkeley, California, United States, 5Department of Dermatology, University of North Carolina System, Chapel Hill, North Carolina, United States, 6San Francisco VA Health Care System, San Francisco, California, United States

10:57 AM-11:09 AM
Abstract # 498: Artesunate inhibits RDEB fibrosis by downregulating AKT signaling pathway
D. Woodley, D. Polyakov, B. A. Levian, Y. Hou, X. Tang, M. Chen
University of Southern California, Los Angeles, California, United States
Concurrent Mini-Symposium 4
Pharmacology and Drug Development

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

THURSDAY, MAY 19, 2022
8:45 AM – 11:15 AM

Presiders: Kavita Sarin, MD/PhD, Anna De Benedetto, MD

8:45 AM - 8:57 AM
Abstract # 601: Pharmacological inhibition of the chemokine receptor CX3CR1 promotes hair growth
Y. Chang1, 2, Z. Dai1, A. M. Christiano1, 2
1Dermatology, Columbia University Vagelos College of Physicians and Surgeons, New York, New York, United States, 2Dermatology, Air Force Medical University, Xi’an, Shaanxi, China

8:57 AM - 9:09 AM
Abstract # 580: Biodegradable bioadhesive nanoparticle delivery of chemotherapy for the treatment of cutaneous malignancies
J. Chang, H. Suh, J. Lewis, M. Bosenberg, W. Saltzman, M. Girardi
1Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 2SBDRC, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

9:09 AM - 9:21 AM
Abstract # 581: Topical calcipotriol plus imiquimod immunotherapy for non-keratinocyte skin cancers
M. Azin1, 2, K. H. Ngo1, 2, S. Demehri1, 2
1Dermatology, Columbia University Vagelos College of Physicians and Surgeons, New York, New York, United States, 2Dermatology, Columbia University Vagelos College of Physicians and Surgeons, New York, New York, United States

9:21 AM - 9:33 AM
Abstract # 586: New class of mTOR inhibitor stabilizes intermediate filament networks in severe epidermalization bullous simplex keratinocytes
K. McGuire, A. McCormick, D. Huey
BioMendics, LLC, Rootstown, Ohio, United States

9:33 AM - 9:45 AM
Abstract # 572: Tralokinumab does not affect endogenous IL13Ra2-mediated regulation of free IL-13
M. A. Tollenaere, C. Melck, H. Heilbroch Petersen, H. Norgaard
Skin Research, LEO Pharma A/S, Ballerup, Denmark

9:45 AM - 9:57 AM
Abstract # 577: Synthetic melanin nanoparticles improve wound healing
D. Blyshayev1, Z. E. Siwicka1, M. Demczuk1, U. Onay1, S. Evans1, N. Collins-McCallum2, N. Gianneschi1, K. Lu1
1Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 2Chemistry, Northwestern University, Evanston, Illinois, United States

9:57 AM - 10:09 AM
Abstract # 591: Dual targeting mTOR and autophagy by fisetin alleviates psoriasis-like responses induced by TNF-α and IL-17A in vitro and imiquimod-induced dermatitis in vivo
T. Roy1, 2, S. Banang-Mbeumi1, S. T. Boateng1, 2, R. Chamcheu1, L. Kang1, S. Huang1, J. C. Chamcheu2
1LSU Health Shreveport, Shreveport, Louisiana, United States, 2Univ. Louisiana Monroe, Monroe, Louisiana, United States

10:09 AM - 10:21 AM
Abstract # 602: An in vitro psoriasis model for high throughput screening
A. Pappalardo1, P. Vasilikos1, M. Nathaniel1, Z. Guo1, H. E. Abaci1, A. M. Christiano1, 2
1Dermatology, Columbia University Vagelos College of Physicians and Surgeons, New York, New York, United States, 2Genetics and Development, Columbia University Vagelos College of Physicians and Surgeons, New York, New York, United States

10:21 AM - 10:33 AM
Abstract # 592: REDD1/DDIT4 regulates the glucocorticoid receptor function in human keratinocytes
D. Chudakova1, P. Bhalla1, 2, G. Baida1, I. Budunova1, 2
1Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 2Northern Illinois University, DeKalb, Illinois, United States

10:33 AM - 10:45 AM
Abstract # 575: Molecular characterization of trametinib-induced cardiotoxicity
Medical University of South Carolina, Charleston, South Carolina, United States

10:45 AM - 10:57 AM
Abstract # 579: In vitro activity of efinaconazole against terbinafine and itraconazole resistant and susceptible dermatophyte, candida, and mold clinical isolates.
A. Gamal1, 2, 5, M. Elshaer3, 1, B. Elewski4, M. Ghannoum1, 2
1Dermatology, October 6 University Hospital, 6th of October, Giza, Egypt, 2Dermatology, Case Western Reserve University, Cleveland, Ohio, United States, 3Dermatology, University Hospitals, Cleveland, Ohio, United States, 4Dermatology, UAB Hospital, Birmingham, Alabama, United States, 5Dermatology, October 6 University Hospital, 6th of October, Giza, Egypt

10:57 AM - 11:09 AM
Abstract # 574: Preliminary results from an escalating dose cohort study of VT30, a topically formulated phosphatidylinositol 3-kinase inhibitor (PI3K), intended as a treatment for cutaneous vascular malformations associated with underlying PIK3CA or TEK mutations
K. E. Truitt, L. Pugliese
Clinical, Ventrera, Inc., Palo Alto, California, United States
Concurrent Mini-Symposium 5

Translational Studies

Studies that translate basic research findings into human model systems (i.e. human tissue and/or cells) or humans.

THURSDAY, MAY 19, 2022 8:45 AM - 11:15 AM C123-C124

Presidents: Jeffrey Cheng, MD/PhD, William Damsky, MD/PhD

8:45 AM - 8:57 AM
Abstract # 798: Interleukin-17 pathway activation in radiation dermatitis
Y. Kost¹, A. Muskat¹, K. Mieczkowski¹, A. Deutsch¹, K. Shinoda¹, B. McClellan¹
¹Dermatology, Albert Einstein College of Medicine, Bronx, New York, United States, ²Dermatology, Albert Einstein College of Medicine, Bronx, New York, United States

8:57 AM - 9:09 AM
Abstract # 815: T helper 2 cell immunity eliminates pre-cancerous skin lesions
T. Oka¹, M. Azin¹, T. Cunningham¹, M. Tabacchi², L. Cornelius³, S. Demehri¹, B. McLellan¹
¹Center for Cancer Immunology and Cutaneous Biology Research Center, Department of Dermatology and Cancer Center, Massachusetts General Hospital, Boston, Massachusetts, United States, ²Division of Dermatology, Washington University in St Louis School of Medicine, St Louis, Missouri, United States

9:09 AM - 9:21 AM
Abstract # 863: Blocking the LFA-1 signaling pathway reverses alopecia areata in C3H/HeJ mice
Z. Dai, Y. Chang, A. M. Christiano
Columbia University, New York, New York, United States

9:21 AM - 9:33 AM
Abstract # 825: Assessment of a circulating tumor DNA test for detecting recurrence of Merkel cell carcinoma
T. Akaike¹, N. So², D. Hippe³, L. E. Gunnell¹, C. Doolittle-Amieva¹, K. Lachance¹, E. Hall¹, N. Hook¹, A. Rodriguez¹, A. Ecklund¹, A. Aleshin¹, P. Nghiem¹
¹University of Washington School of Medicine, Seattle, Washington, United States, ²University of St. Francis, Joliet, Illinois, United States

9:33 AM - 9:45 AM
Abstract # 818: Translational analysis reveals complex interplay of T cell subsets in drug hypersensitivity reactions
P. N. Shah¹, C. A. Romari¹, A. Manukyan¹, W. C. Ko¹, P. Hsieh¹, J. Kim¹, 2, 3, 4, 5, 6, 7, A. Moreno¹, J. Lee¹, H. Lee¹, X. Li¹, W. Zhou⁴, J. Cao⁴, J. K. Fisher⁴, S. T. Hwang⁵, L. Zaba⁵
¹Laboratory of Investigative Dermatology, The Rockefeller University, New York, New York, United States, ²Department of Dermatology, VA Medical Center Corporal Michael J Crescenz, Philadelphia, Pennsylvania, United States, ³Medical Scientist Training Program, Department of Biostatistics and Epidemiology, Philadelphia, Pennsylvania, United States

9:45 AM - 9:57 AM
Abstract # 819: Bile acid supplementation ameliorates western-diet induced psoriatic dermatitis in mice
J. D. Bloomstein¹, X. Wu¹, S. T. Hwang¹
¹Dermatology, University of California Davis, Sacramento, California, United States

9:57 AM - 10:09 AM
Abstract # 846: A new case series of olmsted syndrome subjects confirms EGFR activation and long term efficacy of oral erlotinib with acceptable tolerance
J. Bassett¹, Y. Diab¹, F. Santiago¹, L. Azulay¹, K. Cordoro¹, A. Zhang¹, F. Watanabe¹, A. Kikorian¹, F. Frascati¹, D. Siegel¹, E. Bourrat¹, R. Howard¹, A. Hovnanian¹
¹Institut Imagine Institut des Maladies Genetiques, Paris, Ile-de-France, France, ²George Washington University, Washington, District of Columbia, United States, ³Santo André Hospital, Leira, Portugal, ⁴Instituto de Dermatologia Prof Rubem David Azulay, Rio de Janeiro, Brazil, ⁵UCSF, San Francisco, California, United States, ⁶Medical College of Wisconsin, Milwaukee, Wisconsin, United States, ⁷Hospital Infantil Pequeno Principe, Curitiba, Brazil, ⁸Stanford Hospital and Clinics, Stanford, California, United States, ⁹Saint Louis Hospital, Paris, France, ¹⁰TecniNecker Hospital, Paris, France

10:09 AM - 10:21 AM
Abstract # 820: Have FOXP3, will travel: Human treg preferentially recirculate and suppress the activation of skin resident effector T cells
T. Benson¹, Q. Zhan¹, J. Crouch¹, C. Lian¹, N. Smith¹, T. Kupper¹, A. Villani¹, M. Wells¹, J. Teague¹, A. Gehad¹, N. Gerard¹, R. A. Clark¹
¹Brigham and Women's Hospital, Boston, Massachusetts, United States, ²Massachusetts General Hospital, Boston, Massachusetts, United States

10:21 AM - 10:33 AM
Abstract # 858: Computational identification of neutrophil specific therapeutic targets in psoriatic arthritis using a single cell transcriptomic approach
B. Tamilselvan¹, R. Martin², H. Lindley³, B. Richardson², J. Ismaïl⁴, W. Lin⁴, A. Young⁴, J. Rutter⁴, N. Ward⁴, T. McCormick⁴, K. Cooper⁴, C. A. Cameron⁴
¹Nutrition, Case Western Reserve University, Cleveland, Ohio, United States, ²Population and Quantitative Health Sciences, Case Western Reserve University, Cleveland, Ohio, United States, ³Dermatology, Vanderbilt University, Nashville, Tennessee, United States, ⁴Dermatology, Case Western Reserve University, Cleveland, Ohio, United States

10:33 AM - 10:45 AM
Abstract # 865: Single-cell protein activity inference analysis of full-thickness skin uncovers novel pathways and a rare Arg1+ macrophage population in AA
E. Y. Lee¹, ², A. Obradovic², E. Wang³, A. M. Christiano³
¹University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States, ²Dermatology, VA Medical Center Corporal Michael J Crescenz, Philadelphia, Pennsylvania, United States, ³University of Pennsylvania Department of Biostatistics and Epidemiology, Philadelphia, Pennsylvania, United States

10:45 AM - 10:57 AM
Abstract # 802: Network analysis suggests Th1, Th2 and Th17 mechanisms to be linked together in pathogenesis of cutaneous lupus erythematosus
F. Chin¹, T. Vazquez¹, ², ³, J. Patel¹, ², R. Feng¹, V. Werth¹
¹University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States, ²Dermatology, VA Medical Center Corporal Michael J Crescenz, Philadelphia, Pennsylvania, United States, ³University of Pennsylvania, Philadelphia, Pennsylvania, United States

10:57 AM - 11:09 AM
Abstract # 807: Hidradenitis suppurativa type 17 T-cell transcriptome is different from psoriasis
J. Kim¹, ², A. Moreno¹, J. Leel, H. Leel¹, X. Li¹, W. Zhou¹, J. Cao¹, J. G. Krueger¹
¹Laboratory for Investigative Dermatology, The Rockefeller University, New York, New York, United States, ²Department of Dermatology, University of California Davis, Davis, California, United States, ³Dermatology Section, Sacramento VA Medical Center, Mather, California, United States, ⁴Laboratory of Single-cell Genomics and Population Dynamics, The Rockefeller University, New York, New York, United States
Concurrent Mini-Symposium 6
Late-Breaking Abstracts
Submissions across all of the 2022 Meeting categories, Late-Breaking abstracts include the latest works by the SID Community.

THURSDAY, MAY 19, 2022
8:45 AM – 11:15 AM
OREGON BALLROOM 201-202

Presidents: Niro Anandasabapathy, MD/PhD, Xiaomin Bao, PhD

8:45 AM – 8:57 AM
LB892 Distinct endothelial behaviors orchestrate developing versus adult skin vascular responses
C. Kam1, I. Singh1, P. Sola2, G. Solanas2, J. Bonjoch1, C. Matte-Martone1, D. Gonzalez1, E. Marsh1, K. Hirschi3, V. Greco1
1Genetics, Yale School of Medicine, New Haven, Connecticut, United States, 2Institut de Recerca Biomedica, Barcelona, Spain, 3Cell Biology, University of Virginia, Charlottesville, Virginia, United States

8:57 AM – 9:09 AM
LB976 Skin-gut inflammatory crosstalk: First experimental murine model of pyoderma gangrenosum with spontaneous colonic inflammation
S. Jatainen, A. Pontt, N. Rebert, E. Johnson, E. Maytin, A. Fernandez, J. Achkar, C. McDonald
Cleveland Clinic, Cleveland, Ohio, United States

9:09 AM – 9:21 AM
LB884 Integrated transcriptome and trajectory analysis of cutaneous T-cell lymphoma identifies putative precursor populations
T. Lai, R. Qu, N. Rahman, J. Lewis, A. King, X. Liao
Yale School of Medicine, New Haven, Connecticut, United States

9:21 AM – 9:33 AM
LB977 NK cells in the pathogenesis of hidradenitis suppurativa (HS)
C. Raman1, M. P. Kashyap1, B. Mishra2, J. Deshane3, S. M. Mukhtar1, M. Athar1
1Dermatology, University of Alabama at Birmingham, Birmingham, Alabama, United States, 2Biology, University of Alabama at Birmingham, Birmingham, Alabama, United States, 3Medicine, University of Alabama at Birmingham, Birmingham, Alabama, United States

9:33 AM – 9:45 AM
LB1015 Nuclear transcriptomics reveals the determinants of eccrine sweat gland fate and differentiation
H. L. Dingwall1, R. R. Tomizawa, B. Kokalari, Q. Qiu, P. Hu, H. Wu, Y. G. Kamberov
Genetics, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States

9:45 AM – 9:57 AM
LB1044 Inhibitors of CDK4/6 and HIF2a induce immunogenic cell death in merkel cell carcinoma cells
1University of Washington, Seattle, Washington, United States, 2University of Washington, Seattle, Washington, United States, 3Fred Hutchinson Cancer Research Center, Seattle, Washington, United States

10:07 AM – 10:09 AM
LB965 Sonic hedgehog signaling promotes aberrant hair follicle stem cell differentiation and subcutaneous ossification formation in a mouse model of albright hereditary osteodystrophy
P. J. McMullan1, P. F. Maye2, Q. Yang1, E. Germain-Lee1, 2
1Pediatrics, UConn Health, Farmington, Connecticut, United States, 2Center for Regenerative Medicine and Skeletal Development, UConn Health, Farmington, Connecticut, United States, 3Albright Center, Division of Pediatric Endocrinology, Connecticut Children’s Medical Center, Hartford, Connecticut, United States

10:09 AM – 10:21 AM
LB1018 ALRN-6924, a dual inhibitor of MDMX and MDM2, protects human scalp hair follicles and their epithelial stem cells from paclitaxel-induced toxicity
J. Gherardini1, A. D. Annis2, J. Cheret2, M. Alivado2, R. Paus1, 2
1Dr. Phillip Frost Dept. of Dermatology & Cutaneous Surgery, University of Miami School of Medicine, Miami, Florida, United States, 2Aileron Therapeutics, Inc., Boston, Massachusetts, United States, 3CUTANEON, Hamburg, Germany

10:21 AM – 10:33 AM
LB983 Genomic variation in staphylococcus aureus stress response and virulence in diabetic wounds
A. Campbell1, A. McCready-Vangi1, S. Gardner1, E. Grice1
1Dermatology, University of Pennsylvania, Philadelphia, Pennsylvania, United States, 2College of Nursing, University of Iowa, Iowa City, Iowa, United States

10:33 AM – 10:45 AM
LB882 Dissecting mechanisms of responsiveness to the combination therapy of radiation and anti-PD-L1/anti-TGFb treatment in murine squamous cell carcinoma models
H. T. Lind, S. Hall, A. Strait, P. Owens, X. Wang
University of Colorado - Anschutz Medical Campus, Aurora, Colorado, United States

10:45 AM – 10:57 AM
LB967 Monogenic mutations implicate STAT1 in hidradenitis suppurativa pathogenesis
M. Youssefi1, E. Baugh1, A. Colvin1, K. Babbush2, T. Adriano2, G. Benesh3, M. E. Torpey2, A. Nosrati2, K. R. van Straalen2, L. Tsoi1, A. T. DeWan3, S. M. Leal1, R. Eisenberg1, J. E. Gudjonsson3
1Columbia University, New York, New York, United States, 2Palvella Therapeutics, Wayne, Pennsylvania, United States, 3University of Michigan, Ann Arbor, Michigan, United States, 4Confluence Statistics, Wayne, Pennsylvania, United States, 5University of Utah Hospital, Salt Lake City, Utah, United States, 6Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

10:57 AM – 11:09 AM
LB941 Importance of six-month dosing with QTORIN rapamycin to achieve maximal effect in patients with pachyonychia congenita
1Dermatology, Stanford University School of Medicine, Stanford, California, United States, 2Paliella Therapeutics, Wayne, Pennsylvania, United States, 3Oregon Health & Science University, Portland, Oregon, United States, 4Confluence Statistics, Wayne, Pennsylvania, United States, 5University of Utah Hospital, Salt Lake City, Utah, United States, 6Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States
Eugene M. Farber Lecture
Has the Riddle of Psoriasis Been Finally Solved - Is it Time to Move On?

THURSDAY, MAY 19, 2022  11:30 AM – 12:00 PM  OREGON BALLROOM 201-202

INTRODUCTION
Nicole Ward, PhD

Johann Gudjonsson, MD/PhD
University of Michigan

Dr. Gudjonsson, MD, PhD is the Arthur C. Curtis Professor of Skin Molecular Immunology and a Professor Dermatology, and Taubman Medical Research Institute Scholar, at the University of Michigan. Dr. Gudjonsson’s primary research focus is basic immunological and genetic research on chronic inflammatory skin diseases. He has published over 200 peer reviewed papers in top tier journals including Lancet, Nature Immunology, Nature Genetics, Immunity, Science Translational Medicine, and JCI. 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, Doris Duke Foundation, and selected as the Society for Investigative Dermatology Rising Star Lecture in 2018. He was elected as a member of the American Society for Clinical Investigation (ASCI) in 2020. He has received several NIH R01 awards and is the director of an NIH sponsored P30 Research Core Center at University of Michigan. He is currently a standing member of the NIH ACTS Study Section and on the Board of Scientific Counselors to NIAMS.

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

THURSDAY, MAY 19, 2022
12:00 PM – 1:00 PM
OREGON BALLROOM 203

INTRODUCTIONS BY
Raidah Salem, PharmD, BCMAS

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

‘Role of the microbiome in skin health and disease’
Mahmoud Ghannoum, PhD.
Professor of Dermatology, Case Western Reserve University; Director of the Center for Medical Mycology, Case Western Reserve University & University Hospitals. He is the Co-Founder and Chief Scientific Officer, BiohmHealth. Dr. Ghannoum’s research is focused on defining the role of the bacteriome and mycobiome (the bacterial and fungal community) in cancer. His expertise in the area of polymicrobial biofilms provides an important area of cancer research in view of the recent association of polymicrobial biofilms in colorectal cancer and Crohn’s disease. He has published over 450 peer-reviewed articles and six scientific books.

Q&A and Discussion
Bristol-Myers Squibb Symposium

THURSDAY, MAY 19, 2022 12:00 PM – 1:00 PM A105-A106

Understanding TYK2: From the Role of TYK2 in Psoriasis Pathogenesis to Broader Implications in Signaling

Downstream Functions Controlled by TYK2/JAK-Mediated Signaling & Potential Effects of Dysregulation of Signaling

Johann Gudjonsson, MD, PhD
Arthur C. Curtis Professor of Skin Molecular Immunology and Professor, Department of Dermatology, Taubman Medical Research Institute Scholar, University of Michigan. Dr. Gudjonsson’s primary research focus is basic immunological and genetic research on chronic inflammatory skin diseases. He has published over 200 peer reviewed papers in top tier journals including Nature Immunology, Nature Genetics, Immunity, JCI and Science Translational Medicine. 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, Doris Duke Foundation, and selected as the Society for Investigative Dermatology Rising Star Lecture in 2018. He was elected as a member of the American Society for Clinical Investigation (ASCI) in 2020. He has received several NIH R01 awards and is the director of an NIH sponsored P30 Research Core Center at University of Michigan.

Unmet Needs in Psoriasis and the Roles of TYK2/JAK Family in Inflammation and Psoriasis,

James Krueger, MD, PhD
Head of the Laboratory for Investigative Dermatology, The Rockefeller University, New York, NY, Physician and Co-director, Center for Clinical and Translational Science, Rockefeller University Hospital, Chief Executive Officer, Rockefeller University Hospital. His research group at The Rockefeller University was the first to conduct clinical trials with specific, targeted immune antagonists in psoriasis and this work established that elimination of pathogenic Tcells from skin lesions could reverse the full pathological phenotype of psoriasis. Since then, his group has used immune-based therapeutics to dissect inflammatory pathways in psoriasis and to conduct parallel pharmacogenomic studies that define mechanisms of targeted therapeutics in human populations. A more recent focus has been the definition of new inflammatory pathways, as well as new types of inflammatory cells in psoriasis lesions that are now being targeted with new biologic drugs.
New Perspectives on Pathogenesis in Psoriasis

The final agenda for this session will be posted in the digital version of this program.
Krystal Biotech Symposium

**Fragile Connections: Understanding the Underlying Cause and Risks of Dystrophic Epidermolysis Bullosa**

Symposium Description: Dystrophic epidermolysis bullosa (DEB) is a serious, ultra-rare genetic blistering disease caused by mutations in the COL7A1 gene that lead to skin fragility and wounds. Timely and accurate diagnosis of DEB is essential to inform better disease management, reduce complications (such as aggressive squamous cell carcinoma), and improve patient outcomes.

**Welcome and Introductions**

**Amy Paller, MS, MD**
Walter J. Hamlin Professor and Chair, Department of Dermatology
The Feinberg School of Medicine of Northwestern University

**Amy Paller, MS, MD** (Symposium Chair)
Walter J. Hamlin Professor and Chair, Department of Dermatology
Feinberg School of Medicine, Northwestern University, Chicago, Illinois
Amy Paller, MS, MD, is the Walter J. Hamlin Professor and Chair of Dermatology, Professor of Pediatrics, and Principal Investigator of the NIH-funded Skin Biology and Diseases Resource-Based Center (SBDRD) at Northwestern University’s Feinberg School of Medicine. She received her medical degree from Stanford University School of Medicine in Stanford, California. She is the author of 550 peer-reviewed publications on dermatology and its broad study and has edited several major textbooks in dermatology, among them Hurwitz Clinical Pediatric Dermatology and Fitzpatrick’s Dermatology in General Medicine. She has directed the Pediatric Dermatology Clinical Trials Unit at Northwestern and Lurie Children’s Hospital of Chicago for the past 30 years. Her laboratory focuses on cell-cell communication in inflammatory skin diseases and impaired wound healing, as well as on topically delivered gene regulation using nanotherapy. She has defined skin and blood biomarkers for children with atopic dermatitis and ichthyoses for use in pathogenesis-directed therapy and has been on numerous boards for dermatology patient advocacy organizations, including the Scientific Advisory Board for the Dystrophic Epidermolysis Bullosa Research Association.

**Andrew South, PhD**
Professor and Research Vice Chair, Department of Dermatology and Cutaneous Biology
Thomas Jefferson University, Philadelphia, Pennsylvania
Andrew South, PhD, is a Professor and Research Vice Chair of the Department of Dermatology and Cutaneous Biology and Associate Director of the Joan and Joel Rosenbloom Research Center for Fibrotic Diseases at Thomas Jefferson University. Dr. South also holds a secondary appointment in the Department of Otolaryngology and Head and Neck Surgery at Thomas Jefferson University. Dr. South earned his doctorate at the University of London in London, England, where he also worked on the Human Genome Project with Dean Nizetic. He conducted postdoctoral research as a fellow at St John’s Institute of Dermatology at St Thomas’ Hospital in London. He is author of more than 100 peer-reviewed articles about genetic skin disease and squamous cell carcinoma. His research focuses on trying to understand why mutations in the COL7A1 gene lead to frequent and multiple life-threatening skin cancers.
State-Of-The-Art Plenary Lectures - Lecture 1
Enhancer-Mediated Gene Regulation in the Skin

THURSDAY, MAY 19, 2022  1:15 PM – 1:45 PM  OREGON BALLROOM 201-202

INTRODUCTION
Mỹ Mahoney, PhD

Cristina de Guzman Strong, PhD
Henry Ford Health
Detroit, MI

Cristina de Guzman Strong, PhD is an Associate Scientist at the Henry Ford Health in Detroit, Michigan. Previously she was an Assistant Professor of Medicine in the Division of Dermatology, Center for Pharmacogenomics, and Center for the Study of Itch and Sensory Disorders at Washington University in St. Louis School of Medicine. Dr. de Guzman Strong earned her B.S. in Biology at Emory University and her PhD in Human Genetics from the University of Alabama at Birmingham. She completed her post-doctoral fellowship in Dr. Julie Segre’s lab at the NIH. Her laboratory focuses on the epigenetics and transcriptional regulation of the Epidermal Differentiation Complex (EDC) locus for skin barrier development and homeostasis. Her laboratory discovered functional regulatory elements and transcription factor-mediated chromatin remodeling in the EDC, highlighting genomic mechanisms for keratinocyte differentiation. More recently, the Strong lab was the first to demonstrate a requirement for an enhancer to activate gene expression in cis using CRISPR/Cas9 editing in the mouse. Her lab specifically discovered an enhancer for involucrin and the impact of an enhancer-involucrin haplotype that underwent a recent selective sweep in Europe thus revealing human skin evolution out of Africa. Her research has received funding by the National Institute of Health. Dr. de Guzman Strong is recognized as a WUSM Dean’s Faculty Diversity Scholar and is the founder and CEO of Evoly Skin LLC dedicated to developing targeted solutions for skin of diverse ancestries.
Plenary Session 1

THURSDAY, MAY 19, 2022
1:45 PM – 2:45 PM
OREGON BALLROOM 201-202

Presiders: Ben Chong, MD and Cory Simpson, MD/PhD

1:45 PM - 1:57 PM
Abstract # 082: In vivo tracking of clonal dynamics shows three phases of UV-induced skin carcinogenesis

1:57 PM - 2:09 PM
Abstract # 125: Dermal adipocyte precursor immune fibroblastic cells (IFCs) drive neutrophil recruitment in response to bacterial infection

2:09 PM - 2:21 PM
Abstract # 299: Oral difelikefalin improves itch and inflammatory biomarkers in atopic dermatitis subjects with moderate-to-severe pruritus

2:21 PM - 2:33 PM
Abstract # 480: The spectrum of oligogenic variants in the RAS pathway in a PHACE cohort

2:33 PM - 2:45 PM
Abstract # 544: Commensal induced accumulation of monocyte-derived cells in neonatal skin regulates long-term cutaneous type 17 inflammation.
M. Dhariwala, J. Okoro, T. Scharschmidt

Dermatology, University of California San Francisco, San Francisco, California, United States

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State-Of-The-Art Plenary Lectures - Lecture 2

Electronic Health Records and Genomics: The eMERGE Experience

THURSDAY, MAY 19, 2022
3:15 PM – 3:45 PM
OREGON BALLROOM 201-202

INTRODUCTION
Kurt Lu, MD

Rex Chisholm, PhD
Northwestern University
Chicago, IL

Dr. Chisholm is the Adam and Richard T. Lind Professor of Medical Genetics in the Feinberg School of Medicine and professor of Cell and Developmental Biology and Surgery. He was the founding Director of the Center for Genetic Medicine. Since 2007 he has served as Vice Dean for Scientific Affairs in the Feinberg School. In October 2012 he was also appointed Associate Vice President for Research of Northwestern University.

A faculty member at Northwestern University since 1984, Chisholm is author of over 100 scientific publications. His research focuses on genomics, bioinformatics and precision medicine. Chisholm leads a major DNA biobanking effort at Northwestern University, NUgene (www.nugene.org). NUgene enrolls research participants in a study focused on investigating the genetic contributions to human disease, therapeutic outcomes and gene-environment interactions. NUgene is a participant in the NHGRI-funded eMERGE network (https://emerge-network.org/) – a network of electronic medical record (EHR) linked biobanks. The goal of his current eMERGE network project is to establish a program for genomics-informed personalized medicine in partnership with Northwestern’s health care affiliates. He is Principal Investigator of the Dictyostelium Community Resource (dictycr.org). His research has been supported by the National Institutes of Health, the American Cancer Society, American Heart Association, and the Department of Defense.

As Vice Dean for Scientific Affairs, he is responsible for research space in Feinberg, research core facilities and the broader research environment. He also oversees the PhD and MS training programs in Feinberg. As Associate VP for Research he has oversight responsibilities for the Office for Sponsored Research and the Center for Comparative Medicine as well as several University Research Centers.
William Montagna Lecture
Skin Appendage Regeneration and Wound Healing

THURSDAY, MAY 19, 2022
3:45 PM – 4:15 PM
OREGON BALLROOM 201-202

INTRODUCTION
Valentina Greco, PhD

Mayumi Ito, PhD
NYU School of Medicine
New York, NY

Mayumi Ito PhD is an Associate Professor in The Ronald O. Perelman Department of Dermatology at New York University Grossman School of Medicine (NYU). Dr. Ito received PhD from Nagoya University, and then performed her postdoctoral studies in the laboratory of Dr. George Cotsarelis in the University of Pennsylvania before joining the faculty at NYU (2003-2008). Her research focuses on understanding tissue regeneration in mammals with particular interest in epimorphic regeneration, which is rarely seen in mammalian organs. Her research team identified signaling pathways that govern regenerative behaviors of melanocyte stem cells and hair follicle stem cells for hair follicle pigmentation and neogenesis, which has unique implications for treatment of alopecia and wound healing.

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

THURSDAY, MAY 19, 2022
4:15 PM – 4:30 PM
OREGON BALLROOM 201-202

Mary Kay-SID Skin Health/Skin Disease Research Grants

PRESENTED BY:
Lucy Gildea, PhD
Chief Innovation Officer, Product and Science, Mary Kay.

Dr. Gildea has over 20 years of experience in global product development across numerous product categories. As Chief Innovation Officer, Dr. Lucy Gildea stands at the forefront of cutting-edge scientific research. Since joining the company in 2017, she has helped secure its status as a leading skincare and nutrition innovator in the direct selling and cosmetics industries.

With more than 1,600 patents for products, technologies and packaging designs in its global portfolio, Dr. Gildea leads the company's Global Research and Development, Product Portfolio Strategy and Planning functions to create new Mary Kay products and their Innovation Pipeline for the future.

About the Awards
As a leader in skin health science, Mary Kay is excited to continue our commitment to skin science and innovation by partnering with the Society for Investigative Dermatology.

Mary Kay will be awarding FOUR (4) $25,000 grants to researchers conducting groundbreaking, innovative studies in skin health or skin diseases to uncover new perspectives and intervention strategies.

Mary Kay has an ongoing commitment to skin health research - to help inspire and support skin research scientists.

These grants will be awarded to further research discoveries addressing an important question in human skin health or skin disease research.

Before the unfortunate cancellation of the 2020 Annual Meeting due to COVID-19, the SID was poised to reimagine a different approach to the traditional Poster/Exhibit Sessions. The idea was to encourage additional attendance and conversations during the sessions by including snacks and beverages. Since those plans were scuttled, we are set to try this again during the 2022 Meeting.

Exhibitors will also have a chance to showcase their products in the Exhibit Hall during this time and look forward to your interactions.

Join your fellow attendees in Exhibit Halls A, A1, and B for these sessions during the meeting. There will also be plenty of seating through the halls to sit, relax, and catch up with one another after three SID years away.

Thursday, May 19, 2022: Odd Poster #’s Only
ePoster Session 1
Carcinogenesis and Cancer Genetics

THURSDAY, MAY 19, 2022 5:00 PM – 6:00 PM TERMINAL # 1-ROOM A108

Moderator: Wendy Weinberg, PhD

5:00 PM - 5:06 PM
Abstract # 079: Identifying signaling networks in melanoma tumors that promote the uncontrolled growth of BRAF mutant melanocytes
H. Xiao1, C. Chen2, J. Shiu2, R. Ruiz1, M. G. Caldwell1, A. D. Lander1, A. K. Ganesan2
1Center for Complex Biological Sciences, University of California Irvine, Irvine, California, United States, 2Department of Dermatology, University of California Irvine, Irvine, California, United States

5:06 PM - 5:12 PM
Abstract # 088: Deciphering the molecular signals of EGFR pathway activation in Dlx3 deficient skin in cSCC
D. Bajpai1, S. Meh dizadeh1, A. Uchiyama2, Y. Inoue2, A. Sawaya1, S. Nayak1, S. Brooks1, M. Kellett1, E. Palazzo1, S. Motegi2, C. Cataisson2, M. I. Morasso1
1National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, United States, 2Gunma Daigaku, Maebashi, Gunma, Japan, 3National Cancer Institute, Bethesda, Maryland, United States

5:12 PM - 5:18 PM
Abstract # 090: Inhibition of HMGB1 attenuates the inflammatory response in keratinocytes
K. G. Bui1, A. Keith1, C. Ebens2, A. Bielinsky3, J. Tolar1, 2
1Department of Genetics, Cell Biology, and Development, University of Minnesota Twin Cities, Minneapolis, Minnesota, United States, 2Department of Pediatrics, Blood and Marrow Transplantation, University of Minnesota Twin Cities, Minneapolis, Minnesota, United States, 3Department of Biochemistry, Molecular Biology, and Biophysics, University of Minnesota Twin Cities, Minneapolis, Minnesota, United States

5:18 PM - 5:24 PM
Abstract # 097: Epidermal integrin α3β1 is a regulator of cytokine, CSF-1, and of crosstalk from keratinocytes to dermal macrophages
W. Longmate1, L. Wu1, A. Martinez1, C. DiPersio1, 2
1Surgery, Albany Medical College, Albany, New York, United States, 2Molecular & Cellular Physiology, Albany Medical College, Albany, New York, United States

5:24 PM - 5:30 PM
Abstract # 098: Intrinsic anti-tumorigenic properties of the skin mediate resistance to chemically-induced carcinogenesis in naked mole-rats
A. Mardaryev1, I. Fatima1, N. Botchkareva1, G. Chen1, A. Sharov1, V. Botchkarev1
1Center for Skin Sciences, University of Bradford, Bradford, West Yorkshire, United Kingdom, 2Dermatology, Boston University, Boston, Massachusetts, United States

5:30 PM - 5:36 PM
Abstract #101: Basal-to-mesenchymal transition, a distinct BCC therapy resistance trajectory
N. Li, D. Haensel, S. Gaddam, A. Oro
Program in Epithelial Biology, Stanford University School of Medicine, Stanford, California, United States

5:36 PM - 5:42 PM
Abstract # 104: Loss of Kdm6a and Trp53 drives the development of squamous cell skin cancer in mice
L. Shea1, N. Akhave2, L. Sutton1, L. Compton1, C. York2, S. Ramakrishnan2, C. Miller2, L. Wartman1, D. Chen3
1Pathology and Immunology, Washington University in St Louis School of Medicine, St Louis, Missouri, United States, 2Medicine, Division of Dermatology, Washington University in St Louis School of Medicine, St Louis, Missouri, United States, 3Medicine, Division of Oncology, Washington University in St Louis School of Medicine, St Louis, Missouri, United States, 4The University of Texas MD Anderson Cancer Center, Houston, Texas, United States, 5Medicine, The University of Alabama at Birmingham School of Medicine, Birmingham, Alabama, United States

5:42 PM - 5:48 PM
Abstract # 111: Cellular and molecular profiling of early-stage mycosis fungoides in comparison to parapsoriasis and atopic dermatitis reveals disease-specific biomarkers
N. Alkon1, M. Drach1, C. Bangert1, H. Kurz1, L. Shaw1, G. Stingl2, W. Weninger1, M. Farlik1, C. Jonak1, P. M. Brunner1, 2
1Medizinische Universität Wien, Wien, Wien, Austria, 2Icahn School of Medicine at Mount Sinai, New York, New York, United States

5:48 PM - 5:54 PM
Abstract # 115: The impact of aging on murine basal cell carcinoma development
M. Grachtchouk1, E. A. Pedersen2, P. W. Harms1, 3, A. Hoover4, D. Pyrozhenko1, A. Alaml1, N. Lingaml1, A. A. Dlugosz1, 2
1Dermatology, University of Michigan, Ann Arbor, Michigan, United States, 2Pathology, University of Michigan, Ann Arbor, Michigan, United States, 3Cell & Developmental Biology, University of Michigan, Ann Arbor, Michigan, United States

5:54 PM - 6:00 PM
Abstract # 118: Single-cell transcriptomics links cellular origins of malignant T cells to the tumor immune landscape in cutaneous T cell lymphoma.
X. Liu1, S. Jin2, S. Hu3, F. Bai4, Y. Wang5
1Peking University First Hospital, Beijing, Beijing, China, 2Peking University, Beijing, Beijing, China
ePoster Session 1
Clinical Research – Sociobehavioral and HS Research

THURSDAY, MAY 19, 2022
5:00 PM – 6:00 PM
TERMINAL # 2-ROOM A107

Moderator: Julie Ryan Wolf, PhD

5:00 PM - 5:06 PM
Abstract # 322: Is social media spreading misinformation on the COVID-19 vaccines within the psoriasis community?
D. Yee1, C. Zagona-Prizio1, S. Khan1, S. Khan2, N. Maynard3, M. D. Mehta1, R. Reddy1, A. W. Armstrong1
1University of Southern California Keck School of Medicine, Los Angeles, California, United States; 2University of Colorado Denver School of Medicine, Aurora, Colorado, United States; 3The University of Texas Southwestern Medical Center Medical School, Dallas, Texas, United States; 4The University of Texas Health Science Center at San Antonio Joe R and Teresa Lozano Long School of Medicine, San Antonio, Texas, United States

5:06 PM - 5:12 PM
Abstract # 361: Utilization of resources for cellulitis in hospitalized patients: Predictors of cutaneous abscess diagnosed on ultrasound
B. Cucka1, B. Biglione, S. Chand, R. Rrap1, C. Gabel, S. Song, D. Kroshinsky
Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States

5:12 PM - 5:18 PM
Abstract # 345: The burden of atopic dermatitis out-of-pocket healthcare expenses in United States children
R. Chovatiya1, W. Smith Begolka2, I. J. Thibau3, J. I. Silverberg
1Department of Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States; 2National Eczema Association, Novato, California, United States; 3Department of Dermatology, The George Washington University School of Medicine and Health Sciences, Washington, District of Columbia, United States

5:18 PM - 5:24 PM
Abstract # 343: Recent trends in healthcare utilization and costs for adults and children with hidradenitis suppurativa
D. Chopra1, S. Maczuga2, J. S. Kirby2, H. Lev-Toy1
1Dermatology, University of Miami School of Medicine, Miami, Florida, United States; 2Dermatology, Penn State Health Milton S Hershey Medical Center, Hershey, Pennsylvania, United States

5:24 PM - 5:30 PM
Abstract # 340: Benzene in sunscreen: Do sensationalizing dermatology reports have a lasting effect on google trends and reddit engagement?
D. Barzallo1, B. T. Carroll1
1Dermatology, Case Western Reserve University, Cleveland, Ohio, United States; 2Dermatology, University Hospitals, Cleveland, Ohio, United States

5:30 PM - 5:36 PM
Abstract # 354: The paradoxical promotion of UV tanning through sunless tanning
K. Erickson1, S. J. Eley2, A. Fan1, J. Narang3, J. Bordeaux1, 3
1School of Medicine, Case Western Reserve University, Cleveland, Ohio, United States; 2College of Medicine, Northeastern Ohio University, Rootstown, Ohio, United States; 3Department of Dermatology, University Hospitals, Cleveland, Ohio, United States

5:36 PM - 5:42 PM
Abstract # 339: Growth in the cost of biologics in Medicare beneficiaries, 2017 to 2019
J. Laborada1, L. Shin2, C. Lee2, S. Shahsavari3, A. Egeberg4, J. Wu5
1University of California Riverside School of Medicine, Riverside, California, United States; 2Loma Linda University School of Medicine, Loma Linda, California, United States; 3Dartmouth College Geisel School of Medicine, Hanover, New Hampshire, United States; 4Dermatology, Bispebjerg Hospital, Copenhagen, Denmark; 5Dermatology Research and Education Foundation, Irvine, California, United States

5:42 PM - 5:48 PM
Abstract # 353: Evaluation of immunization status in psoriasis patients prior to initiation of immunosuppressive therapy – A multidisciplinary approach
D. S. Kim1, 2, R. S. Gibson2, 3, M. Her2, 4, M. Mahoney2, 5, P. Stering6, S. Padival7, D. Taupin5, 7, M. L. Porter2, 3, 7
1Tufts University School of Medicine, Boston, Massachusetts, United States; 2Clinical Laboratory for Epidemiology and Applied Research in Skin, Boston, Massachusetts, United States; 3Department of Dermatology, Beth Israel Deaconess Medical Center, Boston, Massachusetts, United States; 4Division of Infectious Diseases, Beth Israel Deaconess Medical Center, Boston, Massachusetts, United States; 5Division of Infectious Diseases, University of Pittsburgh, Pittsburgh, Pennsylvania, United States; 6Division of Infectious Diseases, University of California, Los Angeles, California, United States; 7Harvard Medical School, Boston, Massachusetts, United States

5:48 PM - 5:54 PM
Abstract # 396: Characterizing inpatient hospitalizations for hidradenitis suppurativa and assessing the impact of outpatient dermatology care on hospitalizations
J. Maghfour1, V. Liu2, R. Huggins3, I. H. Hamzavi4
Dermatology, Henry Ford Health System, Detroit, Michigan, United States

5:54 PM - 6:00 PM
Abstract # 323: Getting candid with CAM: Complementary and alternative medicine use among eczema patients
S. Khan1, S. Khan2, M. D. Mehta1, N. Maynard1, R. Reddy1, D. Yee1, C. Zagona-Prizio1, A. W. Armstrong1
1University of Southern California Keck School of Medicine, Los Angeles, California, United States; 2The University of Texas Health Science Center at San Antonio Joe R and Teresa Lozano Long School of Medicine, San Antonio, Texas, United States; 3The University of Texas Southwestern Medical Center Medical School, Dallas, Texas, United States; 4University of Colorado Denver School of Medicine, Aurora, Colorado, United States
ePoster Session 1
Innate Immunity, Microbiology, and Microbiome

THURSDAY, MAY 19, 2022 5:00 PM – 6:00 PM  TERMINAL # 3-ROOM 109

Moderator: Heidi Kong, MD

5:00 PM - 5:06 PM
Abstract # 525: How the inappropriate innate immune response of atopic dermatitis promotes dysbiosis of the skin microbiome
T. Nakatsuji, A. Butcher, S. Brinton, A. O’Neill, R. Gallo
Dermatology, University of California San Diego, La Jolla, California, United States

5:06 PM - 5:12 PM
Abstract # 526: The cutaneous deviant staphylococcus epidermidis induces skin injury via secretion of phenol-soluble modulins.
M. R. Williams1, N. Jiang1, S. Zhang1, A. R. Horswill1, R. Gallo1
1Dermatology, University of California San Diego, La Jolla, California, United States, 2Immunology & Microbiology, University of Colorado Health, Aurora, Colorado, United States

5:12 PM - 5:18 PM
Abstract # 523: Iron excretion through the epidermis influences host defense against C. albicans
S. Khalil, M. Williams, R. Gallo
Dermatology, University of California San Diego, La Jolla, California, United States

5:18 PM - 5:24 PM
Abstract # 532: Three-dimensional structure of a microbial nanomachine and its role in acne vulgaris.
F. S. Ahmad1, K. N. Berry2, C. Manithody1, T. J. Brett1, J. P. Henderson1, W. H. McCoy1
1Washington University in St Louis, St Louis, Missouri, United States, 2Boston Children’s Hospital, Boston, Massachusetts, United States

5:24 PM - 5:30 PM
Abstract # 529: Immunoprofiling identified a population of activated neutrophils in atopic dermatitis patient whole blood
E. L. Wambeke1, E. R. Goodken2, V. E. Scott1, L. N. Miller1
1AbbVie Inc, North Chicago, Illinois, United States, 2AbbVie Bioresearch Center, Worcester, Massachusetts, United States

5:30 PM - 5:36 PM
Abstract # 548: Purinergic molecules in murine bone marrow-derived mast cells
R. Asakawa, Y. Ogawa, S. Shimada, T. Kawamura
Dermatology, Yamanashi Daigaku Igakubu Daigakuin Sogo Kenkyubu Igakuiki, Chuo, Yamanashi, Japan

5:36 PM - 5:42 PM
Abstract # 577: Distinct transcriptomic shifts in keratinocyte subsets induced by type I interferon
K. Sakamoto1, K. Nagao1
1NIAMS, NIH, Bethesda, Maryland, United States, 2Hamamatsu University, Hamamatsu, Japan

5:42 PM - 5:48 PM
Abstract # 520: Skin-specific stearoyl-coenzyme A desaturase 1 knockout mice are colonized by saprophytic bacteria and fungi
H. J. Pyle1, A. G. Lone1, M. Artami1, M. Edwards1, P. Raj2, B. Zhang2, T. A. Harris-Tryon1
1Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, 2Immunology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States

5:48 PM - 5:54 PM
Abstract # 554: Vaccinia immune evasion ankyrin-repeat/F-box protein WR199 mediates ubiquitination and proteasomal degradation of the DNA sensor cGAS
G. Mazo, N. Yang, Y. Wang, Z. Li, H. Pan, R. C. Hendrickson, A. Ordureau, L. Deng
Memorial Sloan Kettering Cancer Center, New York, New York, United States

5:54 PM - 6:00 PM
Abstract # 538: Skin commensals promote optimal sebaceous gland function by engaging in an immune-sebum circuit
J. Harris1, 2, R. Choa2, A. Uberoi1, E. Grice1, T. Kambayashi2
1Dermatology, University of Pennsylvania, Philadelphia, Pennsylvania, United States, 2Pathology and Laboratory Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, United States
ePoster Session 1
Skin, Appendages, and Stem Cell Biology

THURSDAY, MAY 19, 2022  5:00 PM – 6:00 PM  TERMINAL # 4-ROOM B110

Moderator: Peggy Myung, MD/PhD

5:00 PM - 5:06 PM
Abstract # 717: TCF-4 negatively regulates IL-17C in human keratinocytes and in a mouse model of psoriasis
R. Singh1, Y. Jiang2, L. Tsai3, M. Sarkar5, O. Plazyo7, A. Billi8, E. Mavarakis9, J. M. Kahlenberg10, J. E. Gudjonsson11, N. L. Ward1
1Dermatology, Vanderbilt University Medical Center, Nashville, Tennessee, United States, 2Dermatology, University of Michigan, Ann Arbor, Michigan, United States, 3Dermatology, Sun Yat-sen Memorial Hospital, Sun Yat-sen University, Guangzhou, China, 4Dermatology, University of California Davis School of Medicine, Sacramento, California, United States, 5Rheumatology, University of Michigan, Ann Arbor, Michigan, United States

5:06 PM - 5:12 PM
Abstract # 703: Tracing the proliferative dynamics of dermal papilla (DP) progenitors during adult hair follicle (HF) regeneration
Y. Jiang, P. Myung
Yale University, New Haven, Connecticut, United States

5:12 PM - 5:18 PM
Abstract # 722: Repressive epigenetic mechanisms mediated by PRC1 safeguards adult hair follicle stem cell quiescence
P. Flora1, M. Li1, D. Zheng2, E. Ezhkova3
1Icahn School of Medicine at Mount Sinai, New York, New York, United States, 2Albert Einstein College of Medicine, Bronx, New York, United States

5:18 PM - 5:24 PM
Abstract # 743: Hair follicles can “taste”: Stevioside stimulation of the bitter taste receptor, TAS2R4, inhibits human hair growth ex vivo
J. Gherardini1, T. Rouille1, M. Fehrholz1, W. Funk1, J. Rodriguez-Feliz1, A. Ja Bauman5, T. Biró6, J. Chéret7, R. Paus2,6
1Monasterium Laboratory Skin & Hair Research Solutions GmbH, Munster, Nordrhein-Westfalen, Germany, 2University of Miami School of Medicine, Miami, Florida, United States, 3Clinic for Plastic, Aesthetic and Reconstructive Surgery Dr. Dr. Funk, Munich, Germany, 4Skin & Hair, Plastic Surgery Dr. Rodriguez-Feliz, Coral Gables, Florida, United States, 5Bauman Medical Group, Boca Raton, Florida, United States, 6CUTANEON, Hamburg, Germany

5:24 PM - 5:30 PM
Abstract # 714: An essential role for CRL complex signaling in epidermal differentiation
M. C. Winge, D. L. Reynolds, L. Ducoli, R. M. Meyers, P. Khavari
Dermatology, Stanford University, Stanford, California, United States

5:30 PM - 5:36 PM
Abstract # 702: Inhibition of class I HDACs preserves hair follicle inductivity in postnatal dermal cells
M. Park1, S. Jang2, J. Chung3, K. Kim4, O. Kwon5, S. Jo6
1Biomedical Sciences, Seoul National University College of Medicine, Seoul, Korea (the Republic of), 2Dermatology, Seoul National University Hospital, Seoul, South Korea (the Republic of)

5:36 PM - 5:42 PM
Abstract # 726: The Wnt-inhibitor Dkk4 is required for primary hair follicle induction and patterning
H. Khatif1, H. Bazzi1,2
1Dermatology & Venereology, Universitat zu Koln, Koln, Nordrhein-Westfalen, Germany, 2Exzellenzcluster CECAD in der Universitat zu Koln, Koln, Nordrhein-Westfalen, Germany

5:42 PM - 5:48 PM
Abstract # 736: Defining the epigenetic regulation of fibroblast lineages during embryonic development
Q. M. Phan, R. Driskell
School of Molecular Biosciences, Washington State University, Pullman, Washington, United States

5:48 PM - 5:54 PM
Abstract # 708: Aire deficiency induces upregulation of JAK-STAT signaling in keratinocytes and results in alopecia areata-like lesions in mice
N. Maglakelidze, T. Gao, R. P. Feehan, R. Hobbs
Dermatology, Microbiology & Immunology, Penn State College of Medicine, Hershey, Pennsylvania, United States

5:54 PM - 6:00 PM
Abstract # 731: Generation of a laser capture microdissection and RNAseq-based human anagen hair follicle transcriptome atlas
M. Fehrholz1, I. Piccini1, L. Timperi1, A. Mardaryev2,3, D. Pinto4, F. Rinaldi5, R. Paus2,3,6, T. Biró3,4, M. Bertolini8
1Monasterium Laboratory Skin & Hair Research Solutions GmbH, Munster, Germany, 2University of Bradford, Bradford, West Yorkshire, United Kingdom, 3CUTANEON, Hamburg, Germany, 4Giuliani Pharma, Milano, Italy, 5Dermatology, University of Miami School of Medicine, Miami, Florida, United States
ePoster Session 1
Tissue Regeneration and Wound Healing

THURSDAY, MAY 19, 2022 5:00 PM – 6:00 PM TERMINAL # 5-ROOM B112

Moderator: Richard Wang, MD/PhD

5:00 PM - 5:06 PM
Abstract # 768: Dermal fibroblast expression of lef1 is critical to normal skin and hair development and regenerative wound healing in mice
School of Molecular Biosciences, Washington State University College of Veterinary Medicine, Pullman, Washington, United States

5:06 PM - 5:12 PM
Abstract # 794: Topical suppression of miR-193b-3p promotes diabetic wound healing
Dr. Phillip Frost Department of Dermatology and Cutaneous Surgery, University of Miami School of Medicine, Miami, Florida, United States

5:12 PM - 5:18 PM
Abstract # 777: Overexpression of Vgll3 induces cutaneous fibrosis in a mouse model of lupus-like autoimmunity using single-cell RNA analyses
M. Gharaee-Kermani, A. Billi, M. C. Hildebrandt, J. Martens, R. Wasikowski, J. M. Kahlenberg, J. E. Gudjonsson
University of Michigan, Ann Arbor, Michigan, United States

5:18 PM - 5:24 PM
Abstract # 785: Finding new therapeutical strategies for systemic sclerosis: SARA as a novel key molecule in myofibroblast transdifferentiation during fibrogenesis
K. Corano Scheri1, 2, X. Liang1, V. Dalal1, 2, I. Le Poole1, J. Varga1, T. Hayashida3, 4
1Pediatric Nephrology, Ann and Robert H Lurie Children’s Hospital of Chicago, Chicago, Illinois, United States, 2Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 3Dermatology, Microbiology and Immunology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 4Internal Medicine, University of Michigan Michigan Medicine, Ann Arbor, Michigan, United States

5:24 PM - 5:30 PM
Abstract # 759: Mechanical tension mobilizes Lgr6+ epidermal stem cells to drive skin growth
Y. Xue1, C. Lyu1, A. Taylor1, A. van Ee1, S. Kiemena2, Y. Choi1, C. Lee1, D. Wirtz2, L. Garza3, S. Reddy4, 5
1Dermatology, Johns Hopkins Medicine, Baltimore, Maryland, United States, 2Chemical and Biomolecular Engineering, Johns Hopkins University, Baltimore, Maryland, United States, 3Plastic Surgery, Johns Hopkins Medicine, Baltimore, Maryland, United States, 4Biomedical Engineering, Johns Hopkins Medicine, Baltimore, Maryland, United States

5:30 PM - 5:36 PM
Abstract # 769: Wearable human skin constructs with region-specific properties
1Columbia University Irving Medical Center, New York, New York, United States, 2Columbia University, New York, New York, United States

5:36 PM - 5:42 PM
Abstract # 787: Endosomal GLUT3 is essential for macrophage signaling, polarization, and function in wound healing and atopic dermatitis
D. Yu1, J. Zhao2, E. Lee2, E. Kolitz2, R. Mahapatra2, R. C. Wang1
1Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, 2Harvard Medical School, Boston, Massachusetts, United States

5:42 PM - 5:48 PM
Abstract # 780: Multicellular bioprinted skin directs the formation of human-like epidermal architecture and capillary formation in full-thickness wounds
A. M. Jorgensen1, A. Gorkun1, N. Mahajan1, M. Wu1, K. Willson1, C. Clouse1, C. Ahn1, S. Lee1, J. J. Yoo1, J. Molnar1, S. Soker1, A. Atala1
1Wake Forest Institute for Regenerative Medicine, Winston-Salem, North Carolina, United States, 2Department of Dermatology, Wake Forest University School of Medicine, Winston-Salem, North Carolina, United States, 3Department of Plastic Surgery, Wake Forest University School of Medicine, Winston-Salem, North Carolina, United States

5:48 PM - 5:54 PM
Abstract # 783: Deconstructing the dermal adipogenesis program during skin development and regeneration
School of Pharmaceutical Sciences, The State Key Lab of Cellular Stress Biology, Xiamen University, Xiamen, Fujian, China

5:54 PM - 5:56 PM
Abstract # 781: Multicellular bioprinted skin directs the formation of human-like epidermal architecture and capillary formation in full-thickness wounds
A. M. Jorgensen1, A. Gorkun1, N. Mahajan1, M. Wu1, K. Willson1, C. Clouse1, C. Ahn1, S. Lee1, J. J. Yoo1, J. Molnar1, S. Soker1, A. Atala1
1Wake Forest Institute for Regenerative Medicine, Winston-Salem, North Carolina, United States, 2Department of Dermatology, Wake Forest University School of Medicine, Winston-Salem, North Carolina, United States
Social Event

THURSDAY, MAY 19, 2022
6:30 PM – 8:30 PM
EXHIBIT HALL A-A1-B

Join us on Thursday, May 19, 2022, from 6:30 pm to 8:30 pm at the Oregon Convention Center for the 2022 Annual Meeting’s Social Event.

With keeping in mind that gathering a large crowd into a smaller venue might not be the best idea at this time, the SID leadership felt it best to put forth a little different event for the meeting. First, the event is free to all attendees. Next, it was felt that after several years apart from one another that it would be nice to spend time together and catch up on things. Combined, it was felt that having a lower key event would be a nice way to ease our way back into things. This year’s event will focus on reconnecting and forging new relationships. Talking, enjoying one another’s company, having extra time to visit the posters and exhibitors and oh…and enjoying food and beverage along the way. Join us tonight in Exhibit Halls A, A1, and B to enjoy food, beverage, the company of others, and the musical stylings of Portland’s Blue Wave Band. See you there…
FRIDAY, MAY 20, 2022

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<td>Irvin Blank Forum: Single Cell and Spatial Transcriptomics Technologies&lt;br&gt;Oregon Ballroom 203</td>
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<td>8:45 AM — 11:15 AM</td>
<td>Concurrent Mini-symposium 11: Skin, Appendages, and Stem Cell Biology&lt;br&gt;C123-C124</td>
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<td>8:45 AM — 11:15 AM</td>
<td>Concurrent Mini-symposium 12: Tissue Regeneration and Wound Healing&lt;br&gt;Oregon Ballroom 201-202</td>
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<td>11:30 AM — 12:00 PM</td>
<td>Herman Beerman Lecture&lt;br&gt;Oregon Ballroom 201-202</td>
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<td>12:00 PM — 12:15 PM</td>
<td>Stephen Rothman Award Ceremony&lt;br&gt;Oregon Ballroom 201-202</td>
<td>77</td>
</tr>
<tr>
<td>12:15 PM — 1:15 PM</td>
<td>Sanofi and Regeneron Symposium&lt;br&gt;Oregon Ballroom 204</td>
<td>78</td>
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<tr>
<td>12:15 PM — 1:15 PM</td>
<td>Estée Lauder Symposium&lt;br&gt;Oregon Ballroom 203</td>
<td>79</td>
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<tr>
<td>12:15 PM — 1:15 PM</td>
<td>Lunch — On Your Own</td>
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</tbody>
</table>
Things To Do In Portland

The city has many different neighborhoods with their own unique flare.

**Multnomah Falls**
Multnomah Falls is the most visited natural recreation site in the Pacific Northwest and is located in the Columbia River Gorge National Scenic Area.

**Portland Art Museum**
The Portland Art Museum was founded in 1892, making it one of the oldest art museums on the West Coast and seventh oldest in the US.

**Portland Japanese Garden**
Many styles of gardens showcased in serene 5.5-acre space with waterfall, teahouse & mountain view.

**Lan Su Chinese Garden**
This tranquil botanical garden features rare plants native to China, decorative stonework & a tea shop.

**Powell’s City of Books**
Shop for new, used, and rare books online and in-person at Powell’s Books, the world’s largest independent bookstore.

**Mount Hood**
Located about 50 miles east-southeast of Portland, Mount Hood is a potentially active stratovolcano in the Cascade Volcanic Arc.

**Oregon Zoo**
Founded in 1888, this 64-acre property is the oldest zoo west of the Mississippi River.

**Voodoo Doughnut**
More than 50 kinds of doughnuts.

**Williamette Valley**
The Willamette Valley is known for its 600+ wineries.

**Portland International Rose Test Garden**
More than 10,000 individual rose bushes bloom representing over 610 different rose varieties.

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This tranquil botanical garden features rare plants native to China, decorative stonework & a tea shop.

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Irvin Blank Forum
Single Cell and Spatial Transcriptomics Technologies

FRIDAY, MAY 20, 2022
7:00 AM – 8:30 AM
OREGON BALLROOM 203

MODERATOR
Jeffrey Cheng, MD/PhD, University of California, San Francisco
Dr. Cheng is an Associate Professor in the Department of Dermatology at the University of California, San Francisco. His research focuses on utilizing single-cell multiomics approaches to molecularly classify and predict treatment response for chronic inflammatory skin diseases.

PRESENTERS
Defining Epithelial Development and Dysfunction
Scott Atwood, PhD, University of California, Irvine
Dr. Atwood is an associate professor in the Departments of Developmental and Cell Biology and Dermatology at the University of California Irvine. His research explores the mechanisms of skin development and skin cancer, specifically how kinase signaling pathways control transcription factor activity to drive stem cell fate, cancer growth and immunogenicity, and drug resistance.

Single Cell Insights into Cutaneous Lymphoma and Face Transplant Rejection
Rachael Clark, MD/PhD, Brigham and Women’s Hospital, Harvard Medical School
Dr. Clark is the Shing-Yiu Yip and Cecilia M. Hepp Professor of Dermatology at Harvard Medical School, the Director of the Human Skin Disease Resource Center, and the Vice Chair for Research in the Department of Dermatology at Brigham and Women’s Hospital. Her research focuses on the study of T cell responses in human skin and other peripheral tissues. Dr. Clark’s studies, driven by patient observations and carried out on human tissues, have the goals of generating new treatments for skin disease and a better understanding of human immunology.

Insights from Integrating Single-Cell and Spatial Transcriptomics in Skin Research
Andrew Ji, MD, Icahn School of Medicine at Mount Sinai
Andrew Ji, MD, is an Assistant Professor of Dermatology and Oncological Sciences at the Icahn School of Medicine at Mount Sinai. He is a physician-scientist and a member of the Black Family Stem Cell Institute and Tisch Cancer Institute. His laboratory leverages single-cell and spatial genomics and CRISPR functional genetics to probe intercellular communication networks in skin cancer and other diseases. Through deep profiling of patient tissues and human organoid models, his goal is to translate new knowledge into therapeutics for improved patient treatments. Dr. Ji graduated from MIT with an S.B. in Biological Engineering, obtained his M.D. from Weill Cornell Medical College, and completed dermatology residency and postdoctoral research training at Stanford University. During medical school, he completed an HHMI Research Fellowship at Memorial Sloan Kettering Cancer Center. In addition to his research interests, Dr. Ji is a board-certified dermatologist with a focus on general medical dermatology and maintains a weekly clinic.

Dissecting Pathophysiology of Degos Disease
Keisuke (Chris) Nagao, MD/PhD, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)
Dr. Keisuke (Chris) Nagao, M.D., Ph.D. is a Senior Investigator and Head of the Cutaneous Leukocyte Biology Section in the Dermatology Branch, National Institutes of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), National Institutes of Health (NIH). Dr. Nagao is a Dermatologist with long standing interest in skin immunity. His research program aims at understanding fundamental interactions that take place between skin structures and immune cells that shape skin immunity and mediate host-microbial symbiosis. He also studies primary immunodeficiencies as well as intractable inflammatory diseases including severe drug hypersensitivities. Dr. Nagao graduated from Keio University School of Medicine (Tokyo, Japan) in 1994, where he received his dermatological training. He obtained his Ph.D. on Microbiology in 2005. After completion of his postdoctoral fellowship at the Dermatology Branch, National Cancer Institute (NCI), he returned to Keio University in 2008 and led independent research programs and headed the Allergy and Drug Hypersensitivity Clinic. He returned to the NIH in 2014.
FDA Session:
Advances in Topical Dosage Form Characterization and Measuring Drug Concentrations in the Skin

FRIDAY, MAY 20, 2022 7:00 AM – 8:30 AM OREGON BALLROOM 204

INTRODUCTION
Markham Luke, MD, PhD, FAAD, Supervisory Physician and Director of the Division of Therapeutic Performance (DTP1) in the Office of Research and Standards, Office of Generic Drugs at FDA. DTP1 is responsible for facilitating pre-application development of generic drugs by conducting and promoting regulatory science research to establish standards to ensure therapeutic equivalence of new generic drug products.

Overview of FDA’s Generic Drug Research Related to Topical Dermatological Drug Products
Priyanka Ghosh, PhD, Senior Pharmacologist, Office of Research and Standards, Office of Generic Drugs, FDA. Dr. Ghosh’s areas of expertise include products in the topical and transdermal drug delivery area. In her current role, she is responsible for multiple regulatory science research initiatives related to topical and transdermal drug products, including projects related to development of noninvasive imaging techniques for evaluation of cutaneous pharmacokinetics, under the GDUFA regulatory science program.

Advanced Techniques for Characterizing the Form and Function of Topical Dermatological Drug Products
Michael (Mike) S. Roberts, BPharm MSc PhD DSc MBA DipTertEd FACP FAHMS, Emeritus Professor of Clinical Pharmacology & Therapeutics and Director of the Therapeutics Research Centre in the Diamantina Institute at University of Queensland (UQ) associated with the Translational Research Institute in Brisbane and, in Adelaide, Adjunct Professor of Therapeutics & Pharmaceutical Science at University of South Australia (UniSA). Dr. Roberts has research laboratories within the Basil Hetzel Institute for Translational Health Research. He has 40 years research experience (25 as a full professor and 16 as an NHMRC Australian National Health & Medical Research Council Senior Principal Research Fellow) across several disciplines but with a focus on the skin and related drug delivery technologies, and on research seeking to improve patient outcomes. He actively works with industry, government (including the US FDA), academia and clinicians, locally and internationally.

Advanced Techniques for Measuring Cutaneous Pharmacokinetics In Vivo Using Microdialysis/ Dermal Open Flow Microperfusion
Frank Sinner, PhD, Director, Institute for Biomedicine & Health Sciences, JOANNEUM RESEARCH. Dr. Sinner has served the Institute for Biomedicine and Health Sciences at JOANNEUM RESEARCH in different positions over 20 years and is now its Vice President. He is an expert in innovative pre-clinical and clinical methods for tissue-specific PK and PD and its use in pharmaceutical development. He led the development of dermal Open Flow Microperfusion for cutaneous bioequivalence studies for topically applied drugs at JOANNEUM RESEARCH. His institute provides innovative methods and services, inter alia, to de-risk topical drug development.

Advanced Techniques for Measuring Cutaneous Pharmacokinetics Using Pharmacokinetic Tomography
Conor Evans, PhD, Associate Professor, Harvard Medical School, Affiliated Faculty member, Harvard University Biophysics Program, Faculty member, Laser Biomedical Research Center. Dr. Evans leads his lab at the Wellman Center for Photomedicine at Massachusetts General Hospital. His lab’s research is focused on the development and clinical translation of optical microscopy and spectroscopy tools. A recipient of the NIH Director’s New Innovator Award, his efforts have resulted in the creation of new technologies currently in multiple clinical trials. He is a Royce Fellow of Brown University, a Fellow of the SPIE, and has been honored with several awards, including the Goldwater Scholarship, NASA Space Grants, and the ASP New Investigator Award.

GDUFA Science and Research Program - Getting Involved in Research
Sam Raney, PhD, Associate Director for Science in the FDA’s Office of Research and Standards, Chief Scientific Advisor for topical product bioequivalence issues, FDA Office of Generic Drugs. Dr. Raney is a thought leader in topical and transdermal drug products, with over 30 years of experience in skin research, producing numerous research manuscripts, review articles, book chapters and patents in pharmaceutical product development. Dr. Raney has been a researcher and adjunct professor within academia, a principal or sub investigator on over 400 pharmaceutical product studies, has held senior management roles in industry, and serves on multiple expert committees and panels for the U.S. Pharmacopeia.
Research In Cutaneous Surgery (RCS) Symposium

FRIDAY, MAY 20, 2022 7:00 AM – 8:30 AM A105-A106

The Research in Cutaneous Surgery Minisymposium 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: Justin Leitenberger, MD

7:05 - 7:15 AM  
Development and validation of the dysesthesia assessment questionnaire  
Kayley Erickson

7:15 - 7:25 AM  
Development of secondary neoplasms in patients with nevus sebaceous  
Anuk Burli

7:25 - 7:35 AM  
Risk factors for post-operative surgical site infections: a case-control study  
Rachel E. Christensen

7:35 - 7:45 AM  
Optimal tension facilitates wound healing in a full-thickness ex vivo human skin model  
Robyn Hickerson

7:45 - 7:55 AM  
Comparison of subcision vs subcision-suction for treatment of acne scars: a split-face randomized controlled trial  
Noor Anvery

7:55 - 8:05 AM  
Health literacy and the ability to understand postoperative instructions in patients undergoing Mohs micrographic surgery  
Haarika Reddy

8:05 - 8:15 AM  
OCT2Hist: Non-Invasive Virtual Biopsy Using Optical Coherence Tomography and Machine Learning  
Yonatan Winetraub

8:15 - 8:25 AM  
Representation of Fitzpatrick skin phototype in dermatology surgical textbooks  
Denise Porras Fimbres
Womens In Dermatology Society Panel Discussion And Breakfast

FRIDAY, MAY 20, 2022 7:00 AM – 8:30 AM B113-B116

AGENDA

7:00 – 7:45 AM
Breakfast and Networking

7:45 – 8:30 AM
Panel Discussion

Women's Dermatological Society
555 East Wells Street, Suite 1100 | Milwaukee, WI 53202
www.womensderm.org
Pediatric Dermatology Research Alliance Session

FRIDAY, MAY 20, 2022
7:00 AM– 8:30AM
C123-C124

AGENDA

7:00 AM
Welcome and Introduction
Amy S. Paller, MD, MS, Northwestern University
Carrie C. Coughlin, MD, MSHS, Washington University School of Medicine

7:10 AM
Keynote Presentation
John E. Harris, MD, PhD, UMass Chan Medical School

7:45 AM
Presentations from selected abstracts focused on pediatric dermatology
TBD

8:20 AM
Closing and Celebrating PeDRA’s 10th Anniversary
Carrie C. Coughlin, MD, MSHS, Washington University School of Medicine

8:30 AM
Session End

More information available here:
https://pedraresearch.org/2022/02/24/pedra-session-at-sid-2022/
Carcinogenesis and Cancer Genetics

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

FRIDAY, MAY 20, 2022
8:45 AM - 11:15 AM
OREGON BALLROOM 203

Presiders: Scott Atwood, PhD

8:45 AM - 8:57 AM
Abstract # 108: Defining a bi-stable network switch that governs stem cell self-renewal and differentiation in squamous cell carcinoma
S. Hoang-Phouê, M. Abbuzzese, A. Sastre-Perona, Z. Ying, S. Beronja, M. Schober
The Ronald O. Perelman Department of Dermatology, NYU Langone Health, New York, New York, United States, 2Department of Cell Biology, NYU Langone Health, New York, New York, United States, 3Experimental Therapies and Novel Biomarkers in Cancer, Hospital Universitario La Paz, Madrid, Madrid, Spain, 4Fred Hutchinson Cancer Research Center, Seattle, Washington, United States

8:57 AM - 9:09 AM
Abstract # 091: Role of insulin-like growth factor 2 mRNA-binding protein 1 in basal cell carcinoma development
F. Noubissi, C. Harris, M. Hajaahmed, C. Yedjou
Biology, Jackson State University, Jackson, Mississippi, United States, 2Biology, Florida Agricultural and Mechanical University, Tallahassee, Florida, United States

9:09 AM - 9:21 AM
Abstract # 078: Transcript profiling for TSLP in human squamous cell carcinoma in situ
The Department of Dermatology, University of Pennsylvania, Philadelphia, Pennsylvania, United States, 2Scheie Eye Institute, University of Pennsylvania, Philadelphia, Pennsylvania, United States

9:21 AM - 9:33 AM
Abstract # 084: mRNA methylation in skin tumorigenesis and therapeutic resistance
University of Chicago Division of the Biological Sciences, Chicago, Illinois, United States, 2University of Chicago Division of the Physical Sciences, Chicago, Illinois, United States

9:33 AM - 9:45 AM
Abstract # 089: Desmoglein 2 promotes tumor development through miR-146a/IRAK1/L-8 signaling axis
Dermatology and Cutaneous Biology, Thomas Jefferson University, Philadelphia, Pennsylvania, United States, 2College of Medicine, Drexel University, Philadelphia, Pennsylvania, United States, 3Cancer Biology, Thomas Jefferson University, Philadelphia, Pennsylvania, United States, 4Medical Oncology, Thomas Jefferson University, Philadelphia, Pennsylvania, United States, 5Otolaryngology-Head and Neck Surgery, Thomas Jefferson University, Philadelphia, Pennsylvania, United States

9:45 AM - 9:57 AM
Abstract # 083: Defining the immune response in basal cell carcinoma spontaneous regression
K. N. Wong, S. Atwood
University of California Irvine Department of Developmental and Cell Biology, Irvine, California, United States, 2Center for Multiscale Cell Fate Research, Irvine, California, United States, 3University of California Irvine Cancer Research Institute, Irvine, California, United States

9:57 AM - 10:09 AM
Abstract # 100: Novel chromatin-associated activity and substrates for the polarity kinase aPKC in BCC drug resistance
F. Gonzalez, T. Patel, S. Ha, C. Pan, S. Gaddam, A. Mirza, A. Oro
1University of California Los Angeles, Los Angeles, California, United States, 2Program in Epithelial Biology, Stanford University School of Medicine, Stanford, California, United States, 3Harvard University, Cambridge, Massachusetts, United States, 4University of San Francisco, San Francisco, California, United States

10:09 AM - 10:21 AM
Abstract # 119: Defining the role of innate immune cells in cancer immunoeediting in epidermal neoplasms via longitudinal, intravital imaging
X. Fan, D. Roop
Dermatology, University of Colorado Anschutz Medical Campus Bookstore, Aurora, Colorado, United States

10:21 AM - 10:33 AM
Abstract # 117: Determinants of epithelial morphogenic change during oncogenic transformation
S. Yun, V. Greco
Yale School of Medicine, New Haven, Connecticut, United States

10:33 AM - 10:45 AM
Abstract # 087: Tumor assembly of the spatially organized self-propagating myeloid niche
1Program in Epithelial Biology, Stanford University School of Medicine, Stanford, California, United States, 2Pathology, Stanford University School of Medicine, Stanford, California, United States, 3Dermatology, Stanford University School of Medicine, Stanford, California, United States

10:45 AM - 10:57 AM
Abstract # 077: Identifying genetic factors that enable basal cell carcinoma to transition from microscopic to macroscopic disease
1University of California Los Angeles, Los Angeles, California, United States, 2Departments of Pathology and Dermatology, University of Michigan, Ann Arbor, Michigan, United States, 3Departments of Pathology and Dermatology, University of Michigan, Ann Arbor, Michigan, United States, 4Department of Immunology, Genetics and Pathology, Science for Life Laboratory, Rudbeck Laboratory, Uppsala University, Uppsala, Sweden

10:57 AM - 11:09 AM
Abstract # 096: Determining the role of innate immune cells in cancer immunoeediting in epidermal neoplasms via longitudinal, intravital imaging
H. Kim, E. Joo, J. Bae, J. Park, Y. Bang, C. Park, N. Gula, W. Park
1Genomic Medicine Institute, Seoul National University College of Medicine, Seoul, Korea (the Republic of), 2Samsung Medical Center, Gangnam-gu, Seoul, Korea (the Republic of), 3Samsung Medical Center, Gangnam-gu, Seoul, Korea (the Republic of), 4Seoul National University College of Medicine, Seoul, Korea (the Republic of), 5Cahn School of Medicine at Mount Sinai, New York, New York, United States
Concurrent Mini-Symposium 8
Clinical Research – Sociobehavioral and Health Services Research

Sociobehavioral studies may include, but are not limited to, studies of patient and/or provider behaviors and attitudes towards diseases, treatments, diagnostic and screening tests, and health care delivery. Health services research studies may include, but are not limited to, studies of access, use, delivery, quality, and cost-effectiveness of dermatologic care.

FRIDAY, MAY 20, 2022
8:45 AM - 11:15 AM
OREGON BALLROOM 204

Presiders: Joel Gelfand, MD, and Julie Ryan Wolf, PhD

8:45 AM - 8:57 AM
Abstract # 342: Patterns and predictors of NIAMS funding for early career researchers
B. Chiang, K. Abuabara
University of California San Francisco, San Francisco, California, United States

8:57 AM - 9:09 AM
Abstract # 360: Trends in teledermatology utilization in the United States
A. Patel1, C. Rundle2, B. Liu1, C. Green1, M. Kheterpal1
1Department of Dermatology, Duke University School of Medicine, Durham, North Carolina, United States, 2Duke University School of Medicine, Durham, North Carolina, United States, 3Department of Biostatistics & Bioinformatics, Duke University School of Medicine, Durham, North Carolina, United States

9:09 AM - 9:21 AM
Abstract # 372: Factors associated with adherence to skin self-examination recommendations for melanoma patients: A prospective cohort study
D. J. Lewis1, S. Nugent2, D. B. Shin1, M. E. Ming1
1University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States, 2Thomas Jefferson University, Philadelphia, Pennsylvania, United States

9:21 AM - 9:33 AM
Abstract # 335: Developing a treatment decision aid for patients with moderate to severe atopic dermatitis
W. Baghoomian1, R. Dunlap, A. Chang, E. Foster, E. Simpson
Oregon Health & Science University, Portland, Oregon, United States

9:33 AM - 9:45 AM
Abstract # 357: Skin cancer treatment delays during the COVID-19 pandemic
C. B. Lau1, K. Yang, C. X. Pan, W. C. Lau, B. Kassamali, V. Nambudiri1, MD, MBA
Department of Dermatology, Brigham and Women’s Hospital, Boston, Massachusetts, United States

9:45 AM - 9:57 AM
Abstract # 338: Patient perspectives of barriers to accessing care for hidradenitis suppurativa: A proposed model
L. A. Barnes1, N. Shukla1, M. Paul1, M. C. Halley1, L. de Vere Hunt1, E. Linos1, H. B. Naik2
1Dermatology, Stanford University School of Medicine, Stanford, California, United States, 2Dermatology, University of California San Francisco, San Francisco, California, United States

9:57 AM - 10:09 AM
Abstract # 330: Indoor tanning frequency trends: Data from the National Health Interview Survey 2005-2015
N. Trepkowski1, L. Huang3, R. Hartman1, 4
1Boston University School of Medicine, Boston, Massachusetts, United States, 2Brigham and Women’s Hospital Department of Dermatology, Boston, Massachusetts, United States, 3Harvard University T H Chan School of Public Health, Boston, Massachusetts, United States, 4Department of Dermatology, VA Integrated Service Network (VISN-1), Jamaica Plain, Massachusetts, United States

10:09 AM - 10:21 AM
Abstract # 388: Impact of crisaborole & tacrolimus 0.03% on patient-reported outcomes and caregiver burden in children with atopic dermatitis
J. Wieser1, A. Chen1, G. Lee1, L. Baughman1, E. M. Pope1, A. Franco1, B. Verhave1, B. Johnson1, T. Love6, L. A. Beck1, J. Ryan Wolf
1Dermatology, University of Rochester Medical Center, Rochester, New York, United States, 2Biostatistics, University of Rochester Medical Center, Rochester, New York, United States

10:21 AM - 10:33 AM
Abstract # 369: Utility of price-estimator tools within dermatology
L. E. Drake1, 2, K. Yang3, S. Ghatnekar1, V. Nambudiri1
1Tufts University School of Medicine, Boston, Massachusetts, United States, 2Dermatology, Brigham and Women's Hospital, Boston, Massachusetts, United States

10:33 AM - 10:45 AM
Abstract # 326: High patient acceptability of social needs screening in dermatology clinic
K. Wilkerson1, J. C. Williams1, E. De Marchis1, N. Rudd1, E. Amerson1, A. Chang1
1Dermatology, University of California San Francisco, San Francisco, California, United States, 2Family & Community Medicine, University of California San Francisco, San Francisco, California, United States

10:45 AM - 10:57 AM
Abstract # 375: Lived experiences of acne and acne treatment in transgender persons: A qualitative study
C. Alcid1, S. Gold1, S. Willner1, R. Rati1, J. Barron1, H. Yeung1
1Department of Dermatology, Emory University School of Medicine, Atlanta, Georgia, United States, 2Emory University Rollins School of Public Health, Atlanta, Georgia, United States

10:57 AM - 11:09 AM
Abstract # 320: Regional disparities in the dermatology workforce
J. Tomtschik1, E. Sabogal, P. Singh, M. G. Mercurio
University of Rochester Medical Center, Rochester, New York, United States
Concurrent Mini-Symposium 9

Innate Immunity, Microbiology, and Microbiome

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

FRIDAY, MAY 20, 2022
8:45 AM – 11:15 AM
A105-A106

Presiders: Elizabeth Grice, PhD, Tamia Harris-Tryon, MD/PhD

8:45 AM - 8:57 AM
Abstract # 555: An aging-susceptible circadian rhythm controls cutaneous antiviral immunity
S. Kirchner1, V. Lei1, J. Shannon2, D. Corcoran1, D. Hughes2, D. Waters3, K. Dzirasa4,5,6,7, J. Coers2, A. MacLeod2,1,1, J. Zhang1,8
1Dermatology, Duke University, Durham, North Carolina, United States, 2Genomic and Computational Biology, Duke University, Durham, North Carolina, United States, 3Immunology, Duke University, Durham, North Carolina, United States, 4Center for Genomic and Computational Biology, Duke University, Durham, North Carolina, United States, 5Neurobiology, Duke University, Durham, North Carolina, United States, 6Psychiatry and Behavioral Science, Duke University, Durham, North Carolina, United States, 7Biomedical Engineering, Duke University, Durham, North Carolina, United States, 8Pathology, Duke University, Durham, North Carolina, United States

8:57 AM - 9:09 AM
Abstract # 531: Cardiovascular comorbidities are associated with increased LL37 which promotes the uptake of low-density lipoprotein into macrophages
Y. Nakamura1, K. Nikhil1, T. Dokosh1, E. Luo1, G. Wong1, R. Gallo1
1University of California San Diego, La Jolla, California, United States, 2University of California Los Angeles, Los Angeles, California, United States

9:09 AM - 9:21 AM
Abstract # 515: Integrated analysis of acne identifies a critical role for immune fibroblastic cells (IFCs) in the pathophysiology of acne and in the action of isotretinoin.
A. O’Neill1, M. Liggins1, J. Seidman1, J. E. Gudjonsson2, T. Do3, F. Li1, K. Cavagnero1, T. Dokosh1, J. Cheng1, F. Shafiq1, T. Hata1, R. Modlin1, R. Gallo1
1Dermatology, University of California San Diego, La Jolla, California, United States, 2Dermatology, University of Michigan, Ann Arbor, Michigan, United States, 3Dermatology, University of California Los Angeles, Los Angeles, California, United States

9:21 AM - 9:33 AM
Abstract # 563: Commensal microbes can regulate skin barrier through the control of tryptophan-aryl hydrocarbon receptor signaling cascade
A. Uberoi1, C. Bartow-McKenny1, A. Campbell1, Q. Zheng1, L. Flowers1, C. Mesaros1, C. H. Sutter1, T. R. Sutter1, E. Grice1
1Dermatology, University of Pennsylvania, Philadelphia, Pennsylvania, United States, 2The University of Memphis, Memphis, Tennessee, United States

9:33 AM - 9:45 AM
Abstract # 560: A dynamic interplay between dermal lipolysis and adipogenesis in regulating psoriatic skin inflammation
T. Xia1, R. Wu, W. Zhang, X. Zhang, S. Wu, Y. Liao, Y. Liu, L. Sun, J. Li, L. Zhang
1School of Pharmaceutical Sciences, Xiamen University, Xiamen, Fujian, China

9:45 AM - 9:57 AM
Abstract # 558: A novel inhabitant of the wound microbiome promotes wound healing through IL-6-mediated re-epithelialization
E. White, A. Uberoi, E. Grice
Dermatology, University of Pennsylvania, Philadelphia, Pennsylvania, United States

9:57 AM - 10:09 AM
Abstract # 546: Withdrawn

10:09 AM - 10:21 AM
Abstract # 541: Characterization of myeloid cell subsets in the tumor microenvironment of merkel cell carcinoma
S. Tebachnick-Cherny1, T. Pulliam1, K. Smythe1, P. Nghiem1
1University of Washington, Seattle, Washington, United States, 2Fred Hutchinson Cancer Research Center, Seattle, Washington, United States

10:21 AM - 10:33 AM
Abstract # 561: Filaggrin deficiency confers an altered early life T cell response to commensal skin bacteria
J. Gonzalez, T. Scharschmidt
Department of Dermatology, University of California San Francisco, San Francisco, California, United States

10:33 AM - 10:45 AM
Abstract # 537: Neutrophil-intrinsic TNF receptor signaling directs immunity against staphylococcus aureus
C. Youn1, Y. Wang1, D. A. Dikeman1, M. P. Alphonse1, S. J. Nolan1, D. P. Joyce1, C. Pontaza1, M. Ahmadi1, A. Tocaj1, L. S. Miller1, N. Archer1
1Dermatology, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States, 2Immunology, Janssen Research and Development LLC, Spring House, Pennsylvania, United States

10:45 AM - 10:57 AM
Abstract # 556: Inhibition of neutrophil NETosis ameliorates UVB-induced skin inflammation and kidney injury in lupus mice
X. Lyu1,2, M. Li3, P. L. Zhang1, W. Wei1, V. Werth1, M. Liu1
1University of Pennsylvania, Philadelphia, Pennsylvania, United States, 2Tianjin Medical University, Tianjin, China, 3Beaumont Health, Royal Oak, Michigan, United States

10:57 AM - 11:09 AM
Abstract # 539: Hidradenitis suppurativa is characterized by suppression of antimicrobial effector perforin-2
W. Amornpairoj1, K. Rivas, D. Chopra, J. Burgess, P. Catanuto, L. Siegfried, M. Tomic-Canic, N. Strbo, H. Lev-Tov, I. Pastar
1University of Miami School of Medicine, Miami, Florida, United States

CME CREDITS: 2.5
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 20, 2022
8:45 AM - 11:15 AM
B113-B116

Presiders: Hunter Shain, PhD, Liang Deng, MD/PhD

8:45 AM - 8:57 AM
Abstract # 631: Determining intra-tumoral heterogeneity and immune escape mechanisms in melanoma using spatial transcriptomics
Y. Lim1, S. Kang1, H. Kim1, J. Mun1, M. Roh2, N. Gulati3, H. Yang3, J. Moon4, C. Won5, C. Park4
1Department of Dermatology, Seoul National University Hospital, Jongno-gu, Seoul, Korea (the Republic of), 2Department of Biomedical Sciences, Seoul National University College of Medicine, Seoul, Korea (the Republic of), 3Genomic Medicine Institute, Medical Research Center, Seoul National University College of Medicine, Seoul, Korea (the Republic of), 4Department of Dermatology, Yonsei University College of Medicine, Seodaemun-gu, Seoul, Korea (the Republic of), 5Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York, New York, United States, 6Department of Dermatology, Asan Medical Center, Songpa-gu, Seoul, Korea (the Republic of), 7Samsung Genomic Institute, Samsung Medical Center, Gangnam-gu, Seoul, Korea (the Republic of)

8:57 AM - 9:09 AM
Abstract # 626: Targeting a novel carbohydrate that serves as an immune checkpoint and angiogenic regulator for treatment of melanoma
J. Chung, V. Ramani, P. D. Cruz, K. Arizumi
Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States

9:09 AM - 9:21 AM
Abstract # 650: Controlling mTORC1 activity as a novel therapeutic strategy for managing human hair growth and pigmentation
T. Suzuki1, J. Chéret1, F. D. Scala1, J. Gherardini1,2, F. D. Scala1, J. O'Sullivan1,2, J. Chéret1,2, F. D. Scala1, J. O'Sullivan1,2
1Department of Dermatology, Seoul National University Hospital, Janggyeong-gu, Seoul, Korea (the Republic of), 2Department of Biomedical Sciences, Seoul National University College of Medicine, Seoul, Korea (the Republic of), 3Dermatology, Columbia University, New York, United States, 4Department of Dermatology, University of Miami School of Medicine, Miami, Florida, United States, 5Monasterium Laboratory Skin & Hair Research Solutions GmbH, Munster, Nordrhein-Westfalen, Germany, 6Foundation for T. Suzuki1, J. Chéret1, F. D. Scala1, J. O'Sullivan1,2, J. Chéret1,2, F. D. Scala1, J. O'Sullivan1,2

9:21 AM - 9:33 AM
Abstract # 651: Melanoma persister cells survive CDB T cell attack and seed acquired resistance to immunotherapy
M. X. Wang, B. E. Mauch, F. Araujo Hoffman, S. H. Harris, C. P. Lahthop, A. F. Williams, M. J. Hangauer
Department of Dermatology, University of California San Diego, La Jolla, California, United States

9:33 AM - 9:45 AM
Abstract # 634: Depletion of senescent cells improves targeted therapy outcome in melanoma
R. Perez-Lorenzo1, E. Y. Lee1, S. O. Erjavec1,2, A. M. Christiano1,2
1Dermatology, Columbia University, New York, New York, United States, 2Genetics and Development, Columbia University, New York, New York, United States

9:45 AM - 9:57 AM
Abstract # 644: Planar cell polarity gene frizzled 6 promotes melanoma metastasis by regulating canonical Wnt signaling and EMT pathways
B. Dong1, L. Simonson1, S. Vold1, E. Oldham1, L. Barten1, N. Ahmad1, H. Chang
1University of Wisconsin-Madison, Madison, Wisconsin, United States, 2William M. Siddon Memorial Veterans Hospital, Madison, Wisconsin, United States

9:57 AM - 10:09 AM
Abstract # 647: Genome-wide scans identified genetic variants associated with facial aging traits quantified by deep learning methods
F. Wang1,2,3, Q. Qi4, Z. Li5, X. Hu2,3, R. Ye2,3, L. Du2,3, S. Wang1
1CAS Key Laboratory of Computational Biology, Shanghai Institute of Nutrition and Health, University of Chinese Academy of Sciences, Chinese Academy of Sciences, Shanghai, China, 2Department of Science, Inertia Shanghai Biotechnology Co., Ltd, Shanghai, China, 3Department of Science, DermaHealth Shanghai Biotechnology Co., Ltd, Shanghai, China, 4Xiamen Meituve Technology Co., Ltd, Xiamen, China

10:09 AM - 10:21 AM
Abstract # 642: Repurposing bortezomib for improved treatment of melanoma by exploiting immunogenic cell death
The University of Queensland, Saint Lucia, Queensland, Australia

10:21 AM - 10:33 AM
Abstract # 653: Endogenous DOPA inhibits melanoma through suppression of CHRM1 signaling
M. Doepner1, C. Natale1, I. Lee1, R. Brathwaite1, S. Venkat1, S. Kim1, Y. Wei1, C. Vakoc2, J. Katzenellenbogen3, B. Katzenellenbogen3, M. Feigin1, T. W. Ridky1
1University of Pennsylvania, Philadelphia, Pennsylvania, United States, 2Roswell Park Comprehensive Cancer Center, Buffalo, New York, United States, 3University of Illinois at Urbana-Champaign, Urbana, Illinois, United States, 4Cold Spring Harbor Laboratory, Cold Spring Harbor, New York, United States

10:33 AM - 10:45 AM
Abstract # 638: Inverse genetic risk between cutaneous melanoma, basal cell carcinoma, squamous cell carcinoma and vitiligo
S. Rashid1,2, N. Klebanov1, M. Shaughnessy1, M. Daly3, S. F. H. Devlin1,2, M. Arjomand1,2
1Dermatology, Wellman Center for Photomedicine, Boston, Massachusetts, United States, 2Boston University School of Medicine, Boston, Massachusetts, United States, 3Analytical and Translational Genetics Unit, Massachusetts General Hospital, Boston, Massachusetts, United States, 4Broad Institute, Cambridge, Massachusetts, United States, 5Helsinki University of Technology, Helsinki, Uusimaa, Finland

10:45 AM - 10:57 AM
Abstract # 627: Inhibition of PAI-1 blocks PD-L1 endocytosis and improves the response of melanoma cells to immune checkpoint blockade
C. Lee1,2, Y. Tseng1, W. Chen1,2, Y. Yang1, H. Tzeng2
1Dermatology, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan, 2Dermatology, Chang Gung University College of Medicine, Taoyuan, Taiwan, 3Institute for Translational Research in Biomedicine, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan

10:57 AM - 11:09 AM
Abstract # 637: Non-redundant roles for GLUT1 and GLUT3 in melanoma and primary melanocytes
R. Yang1, D. Yu1, J. Kim1, E. Lee1, R. Mahapatra1, R. C. Wang1,2
1Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, 2Harold C. Simmons Cancer Center, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, 3Helen DeVos Children's Hospital, Grand Rapids, Michigan, United States, 4Department of Dermatology, University of Wisconsin-Madison, Madison, Wisconsin, United States
 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 20, 2022
8:45 AM - 11:15 AM
C123-C124

Presider(s): Pantelis Rompolas, PhD, Sunny Wong, PhD

8:45 AM - 8:57 AM
Abstract # 702: Stem cell niche architecture dictates hair progenitor distribution and differentiation
H. Wei1, T. Xing1, V. Greco1,2
1Genetics, Yale School of Medicine, New Haven, Connecticut, United States, 2Department of Genetics, Yale Stem Cell Center, Yale Cancer Center, Yale School of Medicine, New Haven, Connecticut, United States

8:57 AM - 9:09 AM
Abstract # 716: Restoration of hair follicle inductive properties by depletion of senescent cells
J. Kim1, M. Zhang1, A. Pappalardo1, H. E. Abaci1, A. M. Christiano1,2
1Department of Dermatology, Columbia University, New York, New York, United States, 2Department of Genetics and Development, Columbia University, New York, New York, United States

9:09 AM - 9:21 AM
Abstract # 712: UV-induced reduction in polymorph repressors promotes epidermal pigmentation
M. Li1, P. Flora1, H. Pu2, C. Bar1, J. Silva1, I. Cohen1, P. M. Galbo1, H. Liu1, X. Yu1, J. Jin1, H. Koseki1, J. A. D’Orazio1, D. Zheng1,2, E. Ezhkova1
1Department of Cell, Developmental, and Regenerative Biology, Icahn School of Medicine at Mount Sinai Black Family Stem Cell Institute, New York, New York, United States, 2The Marky Cancer Center, Department of Toxicology and Cancer Biology, Department of Pediatrics, University of Kentucky College of Medicine, Lexington, Kentucky, United States, 3Department of Pathology, Icahn School of Medicine at Mount Sinai, New York, New York, United States, 4The Shraga Segal Department of Microbiology, Immunology and Genetics, Ben-Gurion University of the Negev Faculty of Health Sciences, Beer Sheva, Southern, Israel, 5Department of Genetics, Albert Einstein College of Medicine, Bronx, New York, United States, 6INSERM, Paris, Ile-de-France, France, 7Mount Sinai Center for Therapeutics Discovery, Departments of Pharmacological Sciences and Oncological Sciences, Icahn School of Medicine at Mount Sinai Tisch Cancer Institute, New York, New York, United States, 8Laboratory for Developmental Genetics, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, 9AMED-CREST, Yokohama, Japan, 10Departments of Genetics, Neurology, and Neuroscience, Albert Einstein College of Medicine, Bronx, New York, United States

9:21 AM - 9:33 AM
Abstract # 745: Regional expression of secreted WNT inhibitors dictates formation of hairless and poorly haired skin
A. Ho1,2, M. Xu1,2, S. Millar1,2,3
1Black Family Stem Cell Institute, Icahn School of Medicine at Mount Sinai, New York, New York, United States, 2Department of Cell, Developmental and Regenerative Biology, Icahn School of Medicine at Mount Sinai, New York, New York, United States, 3Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York, New York, United States

9:33 AM - 9:45 AM
Abstract # 739: Niche adipocytes activate hair follicle stem cells through metabolic priming
K. Tai1,2, C. Chen1, S. Fan5, T. Chang1, M. Pilikus1, S. Lin1,2
1Department of Biomedical Engineering, National Taiwan University, Taipei, Taiwan, 2Department of Dermatology, National Taiwan University Hospital, Taipei, Taiwan, 3Genome and System Biology Degree Program, National Taiwan University and Academia Sinica, Taipei, Taiwan, 4University of California Irvine, Irvine, California, United States, 5Department of Biomedical Research, National Taiwan University Hospital, Taipei, Taiwan

9:45 AM - 9:57 AM
Abstract # 751: Thymic stromal lymphopoietin controls hair growth
J. Shannon1, D. Corcoran1, S. Ziegler1, A. MacLeod1,2, J. Zhang3,4
1Immunology, Duke University, Durham, North Carolina, United States, 2Dermatology, Duke University School of Medicine, Durham, North Carolina, United States, 3Janssen Global Services LLC, La Jolla, California, United States, 4Benaroya Research Institute, Seattle, Washington, United States, 5Duke University, Durham, North Carolina, United States, 6Pathology, Duke University School of Medicine, Durham, North Carolina, United States

9:57 AM - 10:09 AM
Abstract # 719: Single-cell transcriptomics reveals lineages trajectory of human scalp hair follicle and informs mechanisms of hair graying
S. Wu1,2, Y. Yu1, C. Liu2, Z. Xia2, P. Zhu2, X. Yan2, Y. Li2, P. Hua2, Q. Liu1, S. Wang1, L. Zhang1
1Fudan University, Shanghai, Shanghai, China, 2Chinese Academy of Sciences Shanghai Institute of Nutrition and Health, Shanghai, Shanghai, China, 3Chinese Academy of Sciences Shanghai Institute of Nutrition and Health, Shanghai, Shanghai, China, 4Shanghai Jiao Tong University School of Medicine, Shanghai, China

10:09 AM - 10:21 AM
Abstract # 707: Guiding skin organoid generation via extracellular matrix cues and spatially controlled morphogen gradients
E. Jeon1, A. Pappalardo1, L. Sorrelles1, H. E. Abaci1
1Dermatology, Columbia University Irving Medical Center, New York, New York, United States

10:21 AM - 10:33 AM
Abstract # 723: DNA dioxygenases Tet2/3 regulate gene promoter accessibility and three-dimensional chromatin topology in lineage-specific loci to control hair growth
G. Chen1, Q. Xu1, M. Fessing2, A. Mardaryev3, A. Sharov1, G. Xu1, V. Botchkarev2
1Dermatology, Boston University, Boston, Massachusetts, United States, 2Shanghai Institute of Biological Sciences, Shanghai, China, 3University of Bradford, Bradford, West Yorkshire, United Kingdom

10:33 AM - 10:45 AM
Abstract # 725: The role of THY1 in the sex dimorphism of dermal fat
X. Zhang, X. Zhang, L. Sun, L. Zhang
Xiamen University, Xiamen, Fujian, China

10:45 AM - 10:57 AM
Abstract # 744: Role of epithelial stem cells in meibomian gland development, dysfunction, and dry eye disease
E. J. Tche gon 1, C. Liao1, E. Ghotbi1, L. Q. Le1,2,4
1Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, 2Simmons Comprehensive Cancer Center, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, 3Graduate Institute of Medical Sciences, Taipei Medical University, Taipei, Taiwan, 4Hamon Center for Regenerative Science and Medicine, The University of Texas Southwestern Medical Center, Dallas, Texas, United States

10:57 AM - 11:09 AM
Abstract # 700: Tyrosine kinase 2 inhibition rescues hair follicles from IL-12-mediated immune privilege collapse and reverses the induction of human alopecia areata in a humanized mouse model
J. Tchegnon1, T. Roulle1, J. Kim2, A. Keren2, J. Viola-Söhnelein2, L. Gao3, A. Rossi4, F. Jimenez3, A. Gilhar2, R. Paus1,2, M. Bertolini1, I. M. Catlett2
1Monasterium Laboratory Skin & Hair Research Solutions GmbH, Monasterium, Nordrhein-Westfalen, Germany, 2Bristol Myers Squibb Co, Princeton, New Jersey, United States, 3Technion, Haifa, Israel, 4Sapienza Universita Editrice, Rome, Lazio, Italy, 5Medeteknia Hair Transplant Clinic and Hair Lab, Las Palmas de Gran Canaria, Spain, 6University of Miami School of Medicine, Miami, Florida, United States
Concurrent Mini-Symposium 12
Tissue Regeneration and Wound Healing

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

FRIDAY, MAY 20, 2022 8:45 AM – 11:15 AM OREGON BALLROOM 201-202

Presider(s): Tracy Wilgus, PhD, Maria Morasso, PhD

8:45 AM - 8:57 AM
Abstract # 773 Acceleration of diabetic wound closure by rescue of deficient serpin inhibitor protein (SERPIN) in extracellular vesicles
D. Park1, E. Duggan1, R. Dorschner1, M. Dobke1, J. Nolan1, B. Eliceiri1
1Surgery, University of California San Diego, San Diego, CA, Afghanistan, 2Scintillon Institute, San Diego, California, United States, 3Dermatology, University of California San Diego, San Diego, California, United States

8:57 AM - 9:09 AM
Abstract # 784: Metabolic crosstalk in the wound bed: How adipocytokines and immune cells communicate during wound healing
M. Forni1, T. Xu1, W. Krause1, R. Pannone1, R. Kibbey2, M. Rudolph3
1Molecular Cellular and Developmental Biology, Yale University, New Haven, Connecticut, United States, 2School of Medicine, Yale University, New Haven, Connecticut, United States, 3Dermatology, University of California San Diego, San Diego, California, United States

9:09 AM - 9:21 AM
Abstract # 796: ECRG4 regulates neutrophil responsiveness to proinflammatory signals during recruitment to infection
K. D. Pool1, B. Eliceiri2, R. A. Dorschner1
1Dermatology, University of California San Diego, La Jolla, California, United States, 2Dermatology, University of California San Diego, La Jolla, California, United States

9:21 AM - 9:33 AM
Abstract # 762: Commensal microbiome promotes hair follicle regeneration by inducing keratinocyte HIF-1α signaling and glutamine metabolism
G. Wang1, E. Sweren1, W. Andrews1, M. Kane1, L. Garza1
1Dermatology, Johns Hopkins Medicine, Baltimore, Maryland, United States, 2University of Maryland Baltimore, Baltimore, Maryland, United States

9:33 AM - 9:45 AM
Abstract # 753: Preferential recruitment of immature neutrophils enables robust skin regeneration
E. Labit1, S. Sinha1, E. Kutluberk1, A. Jaffee1, R. Arora1, L. Cao1, W. Shin1, N. Rosin1, B. Yipp2, J. Biernaskie1
1Comparative Biology and Experimental Biology, University of California, Berkeley, California, United States, 2Snyder Institute, Uniformed Services University, Bethesda, Maryland, United States

9:45 AM - 9:57 AM
Abstract # 774: TSC-6 and TSP-1 exhibit altered expression in the skin of diabetic patients
J. P. Gallop1, M. Alipour1, Y. Wang2, G. Botek4, E. Maytin1,2
1Lerner College of Medicine, Cleveland Clinic, Cleveland, Ohio, United States, 2Dermatology and Plastic Surgery Institute, Cleveland Clinic, Cleveland, Ohio, United States, 3Department of Biomedical Engineering, Cleveland Clinic, Cleveland, Ohio, United States, 4Orthopedic Surgery and Rheumatological Institute, Cleveland Clinic, Cleveland, Ohio, United States

9:57 AM - 10:09 AM
Abstract # 755: Repurposing of DPP4 inhibition to improve hair follicle activation and regeneration
M. Helm1, J. Loui2, G. Cotsarelis2, J. C. Simon1, R. A. Ferrer1
1Dermatology, Universitätsklinikum Leipzig Klinik und Poliklinik fur Dermatologie Venerologie und Allergologie, Leipzig, Sachsen, Germany, 2Dermatology, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States

10:09 AM - 10:21 AM
Abstract # 779: Deficiency of the TLR4 inhibitory homolog RP105 exacerbates fibrosis
W. Wang1, S. Bale1,2, P. Verma3, S. Hasan1, B. Yalavarthi1, P. Tsou4, J. Varga1,2, S. Bhattacharyya1,2
1Medicine, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 2University of Michigan, Ann Arbor, Michigan, United States

10:21 AM - 10:33 AM
Abstract # 756: Skin wounding alters the gut microbiome by inducing antimicrobial peptide and mucin production from intestinal epithelia
T. Dokoshij, B. Taylor, K. Cavagnero, R. Knight, R. Gallo
University of California San Diego, La Jolla, California, United States

10:33 AM - 10:45 AM
Abstract # 775: Structural and molecular similarities between plantar and wound keratinocytes - is the foot a chronic wound?
C. Fuchs1, K. J. Stalnaker1, Y. Wang1,2, L. Pham1, C. L. Dalgard1,4, S. Cho1, R. R. Anderson1,2, J. H. Meyerle4, J. Tam1,2
1Wellman Center for Photomedicine, Massachusetts General Hospital, Boston, Massachusetts, United States, 2Department of Dermatology, Harvard Medical School, Boston, Massachusetts, United States, 3The American Genome Center, Uniformed Services University of the Health Sciences, Bethesda, Maryland, United States, 4Department of Anatomy, Physiology and Genetics, Uniformed Services University of the Health Sciences, Bethesda, Maryland, United States

10:45 AM - 10:57 AM
Abstract # 777: Proliferative capacity of bone marrow derived mesenchymal stem cells (MSCs) is impaired in the wound bed
L. Sorrells, A. Pappalardo, D. Alvarez-Cespedes, E. Jeon, H. E. Abaci
Columbia University, New York, New York, United States

10:57 AM - 11:09 AM
Abstract # 767: A biopsy-sized 3D model of skin vascular plexus and appendages enables monitoring T cell trafficking
L. Sorrells, A. Pappalardo, D. Alvarez-Cespedes, E. Jeon, H. E. Abaci
Columbia University, New York, New York, United States
Herman Beerman Lecture
Some Assembly Required: The Deep History of the Human Body

FRIDAY, MAY 20, 2022
11:30 AM – 12:00 PM
OREGON BALLROOM 201-202

Introduction by:
Lisa Beck, MD

Susan Kaech, PhD
Salk Institute for Biological Studies
San Diego, CA

Susan Kaech is a Salk Institute Professor, Director of the NOMIS Center for Immunobiology and Microbial Pathogenesis, and holder of the NOMIS Chair. Prior to this she was a Waldemar Von Zedtwitz Professor at Yale University in the Department of Immunobiology (2004–2018). Dr. Kaech did her postdoctoral work with Dr. Rafi Ahmed at Emory University (1999–2004) and received her PhD in Developmental Biology at Stanford University. She received her BS in Cellular and Molecular Biology at the University of Washington.

Dr. Kaech aims to understand how memory T cells are produced during infection and vaccination, how they function and why in some particular cases, they fail to induce long-term immunity. Her lab has been a leader in using genetic and molecular tools to identify the genes and signaling molecules involved in generating two specific types of memory T cells, CD4 and CD8, from precursor cells during both acute and chronic viral infections. She and her team discovered more than half a dozen important regulatory genes, as well as several types of key molecules called cytokines, which influence memory T cell development.

Dr. Kaech is also interested in how T cells are metabolically regulated, and how their differentiation and function can be altered by nutrient availability during infection and in tumors. In particular, she seeks to learn how T cell behavior is suppressed by tumors, in order to create better therapies for cancer using the body’s own immune system—an innovative and rapidly moving field called cancer immunotherapy.

Dr. Kaech has been the recipient of numerous awards including the Damon Runyon–Walter Winchell Cancer Research Fellowship (1999), the Burroughs Wellcome Fund Career Award in the Biomedical Sciences (2003), the Presidential Early Career Award for Scientists and Engineers (PECASE) (2007), the Howard Hughes Medical Institute Early Career Scientist (2009), and the American Association for the Advancement of Science (AAAS) Fellow (2020).

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...
Stephen Rothman Memorial Award

FRIDAY, MAY 20, 2022 12:00 PM – 12:15 PM OREGON BALLROOM 201-202

Introduction by:
Lisa Beck, MD, SID President

Richard Gallo, MD/PhD
University of California, San Diego
San Diego, CA

Rich Gallo received his training at the University of Chicago, the University of Rochester, Johns Hopkins and Harvard. His work is best known for seminal observations in the fields of innate immunity and the functions of the microbiome on the skin. His group discovered the existence of antimicrobial peptides in the skin, and he has contributed many important studies towards understanding how these peptides act in host defense of epithelial surfaces. Further work from his group has led exploration of the functions and application of the skin microbiome. Combined, his research has contributed to a better understanding of the pathophysiology of several human diseases such as rosacea, atopic dermatitis, and acne. Observations stemming from these findings have led to clinical trials or are now in practice for novel therapeutic approaches to disease. He has over 450 publications, many in high profile journals, and has been cited over 65,000 times. Rich is also a dedicated mentor, having launched successful careers of many scientists and physicians around the world. As recognition of these accomplishments

Dr. Gallo has been elected to several prestigious societies including the American Association for the Advancement of Science, American Society for Clinical Investigation, Association of American Physicians, American Society of Microbiology, and the American Dermatological Association. Dr. Gallo is a frequently invited speaker at numerous meetings, has lectured on 6 continents and has received several international named lectureships and awards including a Nobel lectureship, the Montagna lectureship, the Sulzberger award, the Rene’ Touraine Lectureship and the Dohi lectureship for his work in the fields of Dermatology, Microbiology and Immunology.

Link to Gallo Lab.
Gallolab.UCSD.edu

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

FRIDAY, MAY 20, 2022
12:15 PM – 1:15 PM
OREGON BALLROOM 204

12:15 PM
Burden of Itch: Clinical and Psychological Relevance,
John Koo, MD, Professor, Director at Psoriasis Treatment Center, University of California San Francisco Medical Center, Board Certified in Dermatology and Psychiatry, San Francisco, CA. Dr. Koo has authored or coauthored more than 300 peer reviewed articles and books published in journals such as the Journal of the American Academy of Dermatology and other journals. Currently, Dr. Koo is founding editor of Journal of Psoriasis and Psoriatic Arthritis. He has been listed in Best Doctors in America continuously for several decades. He is the recipient of 2014 American Skin Association (ASA) Annual Research Award, Best Speaker Award at Fall Clinical Symposium and Best Mentor Award at his home institution of UCSF Medical Center. Lastly, he is the 3rd recipient of Lifetime Achievement Award by National Psoriasis Foundation.

Objective: Review of the clinical importance and burden of itch across many dermatologic skin conditions and its impact on the patient and family

12:35 PM
Neuroimmunological Mechanisms of Itch,
Santosh K. Mishra, M. Tech, PhD, Department of Biomedical Sciences, College of Veterinary Medicine, Comparative Medicine Institute Functional Genomics, Comparative Pain Research and Education Center, NC State University, Raleigh, NC. In recent years, Dr. Mishra’s research efforts have become increasingly focused on various aspects of the itch sensation and pain, investigating the cellular and molecular mechanisms underlying itch and pain and an involvement of the cutaneous-sensory axis in skin diseases associated with itch, including atopic dermatitis and psoriasis. Federal, industry and several others support his research. He has authored or coauthored numerous high-impact research articles, some of which have received extensive press release and international coverage. He serves as academic editor of PLoS One and review editor for Frontiers in Pain Research and as ad hoc reviewer for more than 25 journals. He is the recipient of a number of awards, including several for research excellence from the NIDCR.

Objective: Review of the current understanding and research into the neuroimmune mechanism driving itch

12:55 PM
Live Question and Answer Session
All Faculty
The final agenda for this session will be posted in the digital version of this program.
State-Of-The-Art Plenary Lectures - Lecture 3
Using Digital Technology to Reduce Health Disparities

FRIDAY, MAY 20, 2022 1:15 PM – 1:45 PM OREGON BALLROOM 201-202

Introduction by:
Valerie Horsley, PhD

Eleni Linos, MD, MP, DrPH
Stanford University School of Medicine
Palo Alto, CA

Eleni Linos MD, MPH, DrPH, is Professor of Dermatology and Epidemiology at Stanford University. Dr. Linos' work focuses on public health, cancer prevention and the care of older adults. Dr. Linos is dually trained in epidemiology and dermatology and is the principal investigator of several NIH funded studies aimed at improving the lives of patients. She received her medical degree from Cambridge and Oxford Universities in the UK, then completed a masters and doctoral degree in epidemiology at the Harvard School of Public Health and trained in Dermatology at Stanford University.
Plenary Session 2

FRIDAY, MAY 20, 2022 1:45 PM – 2:45 PM OREGON BALLROOM 201-202

Presiders: Tissa Hata, MD, Lloyd Miller, MD/PhD

1:45 PM - 1:57 PM
Abstract # 012: Tissue-specific manipulation of regulatory T cells reveals the skin to be a site of immune tolerance
J. Cohen1, J. Moreau1, V. Gouirand1, C. Macon1, I. Boothby1, I. Gratz2, A. Stockelinger2, C. Weaver4, A. Sharpe5, R. Ricardo-Gonzalez2, M. Rosenblum2
1Dermatopathology, University of California San Francisco, San Francisco, California, United States, 2Dermatology, University of California San Francisco, San Francisco, California, United States, 3Universitat Salzburg Naturwissenschaftliche Fakultat, Salzburg, Salzburg, Austria, 4The University of Alabama at Birmingham School of Medicine, Birmingham, Alabama, United States, 5Harvard Medical School, Boston, Massachusetts, United States

1:57 PM - 2:09 PM
Abstract # 140: Dissecting the cellular landscape of human skin across anatomical sites and in cutaneous malignancy through single cell transcriptomics and in situ sequencing
C. Ganier1, N. Harun1, F. M. Watt1, M. D. Lynch1, 2
1King’s College London, London, United Kingdom, 2St John’s Institute of Dermatology, London, United Kingdom

2:09 PM - 2:21 PM
Abstract # 195: Cutaneous toxicities associated with immune checkpoint inhibitors: An observational, pharmacovigilance study
T. Le1, J. Brown1, M. Taylor1, J. Deng1, V. Parthasarathy1, Z. A. Bordeaux1, M. P. Alphonse1, J. Alhariri1, S. Kang1, Y. Semenov1, S. G. Kwatral1
1Department of Dermatology, Johns Hopkins Medicine, Baltimore, Maryland, United States, 2Department of Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States

2:21 PM - 2:33 PM
Abstract # 501: Meta-analyses of genome-wide association studies in multiethnic cohorts identify risk loci associated with hidradenitis suppurativa
H. Choquet1, J. Yin1, Y. Kim1, T. Hoffmann1, S. Saini1, S. Shringarpure2, 2. Team4, E. Jorgenson1, M. M. Asgari1
1Division of Research, Kaiser Permanente Northern California, Oakland, California, United States, 2Department of Dermatology, Massachusetts General Hospital, Boston, Maryland, United States, 3Institute for Human Genetics, University of California San Francisco, UCSF, San Francisco, California, United States, 23andMe, Sunnyvale, California, United States, 4Regeneron Genetics Center, Tarrytown, New York, United States

2:33 PM - 2:45 PM
Abstract # 678: Efficacy of topical LXR agonist in the treatment of primary cicatricial alopecia in Scd1−/− mouse
J. Kim1, J. Huang1, E. Wang1, A. M. Christiano1, 2
1Department of Dermatology, Columbia University, New York, New York, United States, 2Department of Genetics and Development, Columbia University, New York, New York, United States
Naomi Kanof Lecture
Therapeutic Advances in Alopecia Areata: The Journey to JAKs

FRIDAY, MAY 20, 2022
3:00 PM – 3:30 PM
OREGON BALLROOM 201-202

Introduction by:
David Bickers, MD

Angela Christiano, PhD
Columbia University
New York, NY

Angela M. Christiano, PhD is the Richard and Mildred Rhodebeck Professor and Vice Chair for Research in the Department of Dermatology at Columbia University, where she also serves as Advisory Dean for Basic Science Faculty. Her research is focused on understanding the molecular processes that lead to inherited skin and hair disorders in humans, and interrogating disease mechanisms using mouse models. The lab’s most recent work revolves around the investigation of the underlying genetic and immunologic drivers of alopecia areata, and identification of potential new therapeutic targets. Her team is credited with pioneering the foundational research and demonstrating proof-of-concept supporting the use of JAK inhibitors as a novel treatment for AA. Dr. Christiano has received numerous awards, including the Montagna Award from the Society for Investigative Dermatology and the Ebling Award from the European Hair Research Society. She is a past President of the Society for Investigative Dermatology, and during her tenure established new initiatives promoting Diversity and Inclusion throughout the SID. She was a founding Editor of Experimental Dermatology and served as Deputy Editor of the Journal of Investigative Dermatology for ten years. Dr. Christiano is deeply committed to both discovering and advancing new therapies for patients suffering from dermatological diseases. As an inventor and entrepreneur, she has successfully moved technologies from the academic setting into the commercial sector. She earned her MS and PhD degrees in Microbiology and Molecular Genetics from Rutgers University and completed her post-doctoral fellowship at Jefferson Medical College.

In 2020, Dr. Christiano was elected to the National Academy of Sciences.

LECTURESHIP HISTORY
Established in 1988, this award was established to honor the memory of Naomi M. Kanof, MD. The Kanof Lectureship honors an individual making significant contributions to the improvement of health through clinical research. Clinical research is broadly defined as any scientific endeavor with a direct application to improving the prevention, diagnosis, or treatment of clinical disease. This investigative work can be based in the laboratory and should be implemented or just ready to be implemented in clinical practice.
State-Of-The-Art Plenary Lecture - 4
Diversity of Fibroblast Phenotypes and Function in Skin Development
Homeostasis, and Disease

FRIDAY, MAY 20, 2022 3:30 PM – 4:00 PM OREGON BALLROOM 201-202

Introduction by:
Luis Garza, MD/PhD

Ryan Driskell, PhD
Washington State University
Pullman, WA

Dr. Driskell is the head of the Fibroblast and Skin Regeneration Laboratory at the School of Molecular Biosciences in Washington State University. The laboratory focuses on utilizing the latest in computational biology, histological techniques, and mammalian models systems to understand how to achieve skin regeneration. In addition, the laboratory is focused on developing and expanding interactive webtools that delivers access to large datasets such as scRNA-seq and scATACseq in an easily searchable format. The webtools are accessed through the https://skinregeneration.org/ website.

Dr. Driskell trained in Dr. Fiona Watt’s Laboratory at Cambridge University and King’s College London, where he established a functional fibroblast lineage hierarchy in the dermis.

The Driskell Lab can be contacted by email: ryan.driskell@wsu.edu and can be contacted at https://twitter.com/DriskellLab on Twitter or at https://www.facebook.com/DriskellLab on Facebook.
Business Meeting for Members

FRIDAY, MAY 20, 2022
4:00 PM – 4:30 PM
OREGON BALLROOM 201-202

• Secretary-Treasurer Report
• Journal of Investigative Dermatology (JID) Editor Report
• JID Innovations Editor Report
• Member Votes
  • New Officers-Directors
  • New Members
  • SID Bylaws Amendments

Honorary Members

Russell Hall, MD
Professor and Chair Emeritus,
Department of Dermatology
Duke University

Amy Paller, MD
Professor and Chair,
Department of Dermatology
Northwestern University

Dennis Roop, PhD
Professor of Dermatology and
Director of the Gates Stem
Cell Center
University of Colorado, Denver

Yoshiki Tokura, MD, PhD
Professor and Chair Emeritus,
Department of Dermatology
Hamamatsu University School
of Medicine
Hamamatsu, Japan

• ESDR Collegiality Awards
• JSID Collegiality Awards
• New Business
• Adjournment
American Skin Association (ASA) Awards

FRIDAY, MAY 20, 2022 4:30 PM – 4:45 PM OREGON BALLROOM 201-202

2022 David Martin Carter Mentor Award and Research Achievement Award Recipients

2022 David Martin Carter Mentor Award
Richard Gallo, MD, PhD
University of California San Diego School of Medicine

2022 Research Achievement Award in Autoimmune and Inflammatory Skin Disorders
Janet Fairley, MD, FAAD
University of Iowa Health Care Carver College of Medicine

2022 Research Achievement Award in Skin Cancer and Melanoma
Fiona Watt FRS, FMedSci
Centre for Gene Therapy & Regenerative Medicine

2022 Research Achievement Award in Psoriasis
Michel Gilliet, MD
CHUV Lausanne University Hospital Switzerland

2022 Research Achievement Award in Vitiligo and Pigment Cell Disorders
Thomas J. Hornyak, MD, PhD
University of Maryland School of Medicine

2022 Research Achievement Award in Public Policy and Medical Education
Lawrence Eichenfield, MD
University of California San Diego School of Medicine

2022 Research Achievement Award in Discovery
David Woodley, MD
University of Southern California Keck School of Medicine

2022 Research Achievement Award in Translational Research
Luis Garza, MD, PhD
Johns Hopkins University School of Medicine
Before the unfortunate cancellation of the 2020 Annual Meeting dues to COVID-19, the SID was poised to reimagine a different approach to the traditional Poster/Exhibit Sessions. The idea was to encourage additional attendance and conversations during the sessions by including snacks and beverages. Since those plans were scuttled, we are set to try this again during the 2022 Meeting.

Exhibitors will also have a chance to showcase their products in the Exhibit Hall during this time and look forward to your interactions.

Join your fellow attendees in Exhibit Halls A, A1, and B for these sessions during the meeting. There will also be plenty of seating through the halls to sit, relax, and catch up with one another after three SID years away.

Friday, May 20, 2022: Even Poster #’s Only
Moderator: Ali Jabbari, MD/PhD

5:00 PM - 5:06 PM
Abstract # 030: Immune checkpoint inhibitor-induced bullous pemphigoid skin has elevated interleukin-4 and interleukin-13 expression and responds to IL-4R inhibition
W. D. Shipman¹, K. Singh¹, J. M. Cohen¹, J. S. Leventhal², W. Damsky¹,², M. M. Tomayko¹,²
¹Department of Dermatology, Yale School of Medicine, New Haven, Connecticut, United States, ²Department of Pathology, Yale School of Medicine, New Haven, Connecticut, United States

5:06 PM - 5:12 PM
Abstract # 039: Single-cell RNA-sequencing captures the cellular diversity within lesional and non-lesional skin of patients with dermatomyositis
G. Hile³, F. Ma³, A. Victory³, B. Xu³, E. A. Pedersen³, B. Izar⁵, T. Kim⁶, C. Nirschl⁷, S. Devi¹, W. Olson³, C. Slingluff³, E. Schiopu³, A. Billi¹, J. E. Gudjonsson³, J. M. Kahlenberg¹,²
¹Internal Medicine, Division of Rheumatology, University of Michigan, Ann Arbor, Michigan, United States, ²Computational Medicine & Bioinformatics, University of Michigan, Ann Arbor, Michigan, United States, ³University of Michigan, Ann Arbor, Michigan, United States

5:12 PM - 5:18 PM
Abstract # 037: A systems immunology approach to classify melanoma tumor infiltrating lymphocytes (TILs) informs and models overall survival.
A. Jaiswal¹, A. Verma¹, R. Dannenfelser³, M. Melssen³, I. Tiross⁴, B. Izar⁵, T. Kim⁶, C. Nirschl⁷, S. Devi¹, W. Olson³, C. Slingluff³, V. Englehardt³, L. Garraway³, A. Regev³, C. Yoon³, O. Troyanskaya³, G. Hile³, F. Ma³, A. Victory³, B. Xu³, E. A. Pedersen³, B. Izar⁵, T. Kim⁶, C. Nirschl⁷, S. Devi¹, W. Olson³, C. Slingluff³, E. Schiopu³, A. Billi¹, J. E. Gudjonsson³, J. M. Kahlenberg¹,²
¹Weill Cornell Medicine, New York, New York, United States, ²Division of Rheumatology, Department of Internal Medicine, University of Michigan, Ann Arbor, Michigan, United States

5:18 PM - 5:24 PM
Abstract # 059: Enhanced and suppressed tumor immunity is mediated by IL-1R1 on distinct immune cells
J. B. Williams, T. Tian, T. Kupper
Brigham and Women’s Hospital, Boston, Massachusetts, United States

5:24 PM - 5:30 PM
Abstract # 035: Blocking IL-7, but not TLR7, signaling prevents the development of lupus-like autoimmunity in mice
O. Plazyo¹, A. Billi³, M. Gharaei-Kermani³, J. Kahlenberg¹,², J. E. Gudjonsson¹
¹Dermatology, University of Michigan, Ann Arbor, Michigan, United States, ²Division of Rheumatology, Department of Internal Medicine, University of Michigan, Ann Arbor, Michigan, United States

5:30 PM - 5:36 PM
Abstract # 008: Smad7 dampened IL22 signaling-induced inflammation through IL22RA2 upregulation
Y. Ke¹, B. Li², D. Wang¹,², S. Wang¹,², C. Young¹,², X. Wang¹,²
¹University of Colorado - Anschutz Medical Campus, Aurora, Colorado, United States, ²Allander Biotechnologies, LLC, Aurora, Colorado, United States

5:36 PM - 5:42 PM
Abstract # 022: The role of ISG15-USP18 axis in oxidative stress-induced vitiligo
E. Lee¹, J. Kim¹, Y. Bae¹, S. Park¹, J. Lee¹, S. Oh¹
¹Yonsei University College of Medicine, Seodaemun-gu, Seoul, Korea (the Republic of), ²Yonsei University College of Pharmacy, Incheon, Korea (the Republic of)

5:42 PM - 5:48 PM
Abstract # 065: Longitudinal analysis of T cell dynamics in alopecia areata at single-cell resolution
E. Y. Lee¹,², A. M. Christiano¹,³, Z. Dai¹, E. Wang¹
¹Dermatology, Columbia University Irving Medical Center, New York, New York, United States, ²Medical Scientist Training Program, Columbia University Irving Medical Center, New York, New York, United States, ³Genetics and Development, Columbia University, New York, New York, United States

5:48 PM - 5:54 PM
Abstract # 033: Bullous pemphigoid autoantibodies induce keratinocyte PAI-1 expression resulting in decreased plasmin activation
C. Cole, K. Amber, J. Li, L. Bao
Dermatology, Rush University Medical Center, Chicago, Illinois, United States

5:54 PM - 6:00 PM
Abstract # 044: IL-2C treatment expands regulatory T cells in vivo and arrests development of murine alopecia areata
M. Lensing¹,², S. J. Connell²,³, P. Christy¹, A. Jabbari¹,²
¹Interdisciplinary Graduate Program in Immunology, The University of Iowa, Iowa City, Iowa, United States, ²Department of Dermatology, The University of Iowa, Iowa City, Iowa, United States, ³Iowa City VA Medical Center, Iowa City, Iowa, United States
ePoster Session 2
Clinical Research – Epidemiology and Observational Research

FRIDAY, MAY 20, 2022
5:00 PM – 6:00 PM
TERMINAL # 2-ROOM A107

Moderator: Junko Takeshita, MD/PhD

5:00 PM - 5:06 PM
Abstract # 261: Examining the risk of new skin cancers among obese patients who undergo bariatric surgery: A multicenter analysis
R. Raiker1, H. Pakhchanian2, E. Hochman3,4, M. Deng1,4
1West Virginia University School of Medicine, Morgantown, West Virginia, United States, 2The George Washington University School of Medicine and Health Sciences, Washington, District of Columbia, United States, 3MedStar Georgetown University Hospital, Washington, District of Columbia, United States, 4MedStar Washington Hospital Center, Washington, District of Columbia, United States

5:06 PM - 5:12 PM
Abstract # 259: Tissue-specific homing in cutaneous immune-related adverse events
B. Leung1, S. Zhang2, N. Nguyen1, G. Wan1, R. Jairath1, N. Alexander1, J. Phillipps1, L. Zubiri1, G. Boland2,3, D. Liu4,5, L. Demehri1,2, A. Gusev3,2, S. G. Kwatra4, Y. Semenov1,2
1Massachusetts General Hospital, Boston, Massachusetts, United States, 2Harvard Medical School, Boston, Massachusetts, United States, 3Dana-Farber Cancer Institute, Boston, Massachusetts, United States, 4The George Washington University School of Medicine and Health Sciences, Washington, District of Columbia, United States, 5Brigham and Women’s Hospital, Boston, Massachusetts, United States, 6Yale School of Medicine, New Haven, Connecticut, United States

5:12 PM - 5:18 PM
Abstract # 215: Cutaneous immune-related adverse events predict longer patient survival in advanced cancer patients
C. Lu1,2, S. Zhang1,2, K. Tang1, P. Ugwu-Dike1, N. Raval1, J. Seo1, G. Wan1,2, N. Nguyen1, N. Alexander1, R. Jairath1, J. Phillipps1, B. Leung1, N. Theodosakis1,2, L. Zubiri1, G. Boland3,4, D. Liu4,5, S. Chen1,2, N. LeBoeuf4,5,6, K. Reynolds1,2, K. Yu1,2, H. Tsao1,2, S. Demehri1,2, A. Gusev3,2, S. G. Kwatra4, Y. Semenov1,2
1Massachusetts General Hospital, Boston, Massachusetts, United States, 2Harvard Medical School, Boston, Massachusetts, United States, 3Dana-Farber Cancer Institute, Boston, Massachusetts, United States, 4The George Washington University School of Medicine and Health Sciences, Washington, District of Columbia, United States, 5Brigham and Women’s Hospital, Boston, Massachusetts, United States, 6Yale School of Medicine, New Haven, Connecticut, United States

5:18 PM - 5:24 PM
Abstract # 156: Cutaneous spectrum of VEXAS syndrome
S. Ahmadi1, M. Ferrada1, D. B. Beck1, L. L. Wilson1, P. C. Grayson1, E. W. Cowen1
1Center for Human Genetics and Genomics, NYU Langone Health, New York, New York, United States, 2Dermatology, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, United States, 3Rheumatology, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, United States, 4National Human Genome Research Institute, Bethesda, Maryland, United States

5:24 PM - 5:30 PM
Abstract # 187: Mental health comorbidities and alcohol use disorder in atopic dermatitis: A case-control study in the All of Us research program
R. Fan1, A. Leasure2, W. Damsky3, J. M. Cohen1
1Dermatology, Yale School of Medicine, New Haven, Connecticut, United States, 2Yale School of Medicine, New Haven, Connecticut, United States

5:30 PM - 5:36 PM
Abstract # 264: Evaluating the risk of post-operative complications in obstructive sleep apnea patients undergoing Mohs micrographic surgery
R. Raiker1, H. Pakhchanian2, M. Deng1,4
1West Virginia University School of Medicine, Morgantown, West Virginia, United States, 2The George Washington University School of Medicine and Health Sciences, Washington, District of Columbia, United States, 3MedStar Georgetown University Hospital, Washington, District of Columbia, United States, 4MedStar Washington Hospital Center, Washington, District of Columbia, United States

5:36 PM - 5:42 PM
Abstract # 259: Tissue-specific homing in cutaneous immune-related adverse events
B. Leung1, S. Zhang2, N. Nguyen1, G. Wan1, R. Jairath1, N. Alexander1, J. Phillipps1, L. Zubiri1, S. Demehri1,2, K. Yu1, A. Gusev3,2, S. G. Kwatra4, N. LeBoeuf1,2,5, K. Reynolds1,2, Y. Semenov1,2
1Massachusetts General Hospital, Boston, Massachusetts, United States, 2Harvard Medical School, Boston, Massachusetts, United States, 3Dana-Farber Cancer Institute, Boston, Massachusetts, United States, 4The George Washington University School of Medicine and Health Sciences, Washington, District of Columbia, United States, 5Brigham and Women’s Hospital, Boston, Massachusetts, United States, 6Yale School of Medicine, New Haven, Connecticut, United States

5:42 PM - 5:48 PM
Abstract # 265: Evaluating the safety and effectiveness of the COVID-19 vaccination among pediatric atopic dermatitis patients
H. Pakhchanian1, R. Raiker2, K. Jenkins3, L. Shen3
1The George Washington University School of Medicine and Health Sciences, Washington, District of Columbia, United States, 2West Virginia University School of Medicine, Morgantown, West Virginia, United States, 3Department of Dermatology, Boston Medical Center, Boston, Massachusetts, United States
ePoster Session 2
Epidermal Structure and Barrier Function

FRIDAY, MAY 20, 2022
5:00 PM–6:00 PM
TERMINAL # 3-ROOM 109

Moderator: Michael Howell, PhD

5:00 PM - 5:06 PM
Abstract # 447: HERC6 negatively regulates type I interferon activity in keratinocytes through modulation of STING-IRF3 signaling
R. Uppala1, M. K. Sarkar4, W. R. Swindell1, L. C. Tsoi3, J. Kahlenberg4, A. Billi4, J. E. Gudjonsson4
1Immunology Graduate Program, University of Michigan, Ann Arbor, Michigan, United States, 2Internal Medicine, University of Michigan, Ann Arbor, Michigan, United States, 3Computational Medicine and Bioinformatics, University of Michigan, Ann Arbor, Michigan, United States, 4Dermatology, University of Michigan, Ann Arbor, Michigan, United States, 5Internal Medicine, University of Cincinnati, Cincinnati, Ohio, United States

5:06 PM - 5:12 PM
Abstract # 441: Super-resolution imaging for nuclear pore quantification in human keratinocyte differentiation
A. Neely1, Y. Zhang3, H. Zhang3, X. Bao1, 2
1Molecular Biosciences, Northwestern University, Evanston, Illinois, United States, 2Department of Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 3Biomedical Engineering, Northwestern University, Evanston, Illinois, United States

5:12 PM - 5:18 PM
Abstract # 425: Acute inflammatory cytokines differentially effect epidermal barrier expression and function
B. Shi, A. Klopot, T. Mahi, S. Buiter, E. Khan, I. Budunova, B. E. Perez White
Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

5:18 PM - 5:24 PM
Abstract # 432: IL-33 is a negative regulator of filaggrin expression in the skin but not in barrier homeostasis
M. Hossain, T. Ansary, M. Komine, M. Ohtsuki
Dermatology, Jichi Ika Daigaku, Shimotsuke, Tochigi, Japan

5:24 PM - 5:30 PM
Abstract # 433: Loricrin imprints adaptive immunity
Y. Ishitsuka1, T. Ogawa1, D. Roop3, M. Fujimoto1
1Dermatology, Osaka Daigaku Daigakuintu Kenkyuka Igakubui, Suita, Osaka, Japan, 2Dermatology, Tsukuba Daigaku Igaku Iryokei, Tsukuba, Ibaraki, Japan, 3Department of Dermatology and Charles C. Gates Center for Regenerative Medicine, University of Colorado Denver, Denver, Colorado, United States

5:30 PM - 5:36 PM
Abstract # 446: ALOX12B and PNPLA1 have distinct roles in lamellar lipid organization
E. PM3, 4, K. Vavrova5, T. Mauro3, 4, J. Meyer2, 3
1Dermatology, Vanderbilt University Medical Center, Nashville, Tennessee, United States, 2Dermatology, VA Tennessee Valley Healthcare System, Nashville, Tennessee, United States, 3Dermatology, University of California San Francisco, San Francisco, California, United States, 4Dermatology, San Francisco VA Health Care System, San Francisco, California, United States, 5Department of Organic and Bioorganic Chemistry, Univerzita Karlova Farmaceuticka fakulta v Hradci Králové, Hradec Králové, Hradec Králové, Czechia

5:36 PM - 5:42 PM
Abstract # 428: RORα promotes keratinocyte differentiation by reducing SOX9 stability.
Y. H. Bryner, H. Li, J. Dai
Division of Pharmaceutical Sciences, School of Pharmacy, University of Wisconsin-Madison, Madison, Wisconsin, United States

5:42 PM - 5:48 PM
Abstract # 436: Modelling Darier disease using human epidermal organoids
R. Agarwal1, 2, T. Dittmar1, 2, E. Contassot1, 2, A. Navarini2
1Department of Biomedicine, Universitat Basel, Basel, Basel-Stadt, Switzerland, 2Dermatology, Universitatsspital Basel, Basel, BS, Switzerland

5:48 PM - 5:54 PM
Abstract # 423: Keratin diversity modulates cytoskeletal dynamics and force generation during epidermal remodeling
B. A. Nanes1, 2, 3, E. Azarova1, K. Bhatt1, 2, 4, 5, J. Chi1, 2, 4, 5, T. Isogai1, 2, 4, 5, K. M. Dean1, 2, 3, 4, 5, G. Danuser1, 2, 3, 4, 5
1Department of Dermatology, UT Southwestern Medical Center, Dallas, Texas, United States, 2Lyda Hill Department of Bioinformatics, UT Southwestern Medical Center, Dallas, Texas, United States, 3Department of Cell Biology, UT Southwestern Medical Center, Dallas, Texas, United States, 4Cecil H. and Ida Green Center for Systems Biology, UT Southwestern Medical Center, Dallas, Texas, United States, 5Department of Dermatology, UT Southwestern Medical Center, Dallas, Texas, United States
ePoster Session 2
Genetic Disease, Gene Regulation, and Gene Therapy

FRIDAY, MAY 20, 2022 5:00 PM – 6:00 PM TERMINAL # 4-ROOM B110

Moderator: Lam (Alex) Tsoi, PhD

5:00 PM - 5:06 PM
Abstract # 466: KIR allelic variation is associated with atopic dermatitis
D. Margolis1, N. Mitra2, E. Philips3
1Dermatology, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States, 2Biostatistics, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States, 3Vanderbilt University School of Medicine, Nashville, Tennessee, United States

5:06 PM - 5:12 PM
Abstract # 481: Pityriasis rubra pilaris transcriptomics further implicate IL-17 signaling and correlate with response to IL-17A inhibitor therapy
Dermatology, Oregon Health & Science University, Portland, Oregon, United States

5:12 PM - 5:18 PM
Abstract # 455: Non-viral gene therapy for recessive dystrophic epidermolysis bullosa: Hyper branched aminated polyesters mediated minicircle DNA delivery
X. Wang, Y. Li, D. Manzanares, Z. He, S. A, I. Lara-Saez, W. Wang
Charles Institute of Dermatology, University College Dublin, Dublin, Dublin 4, Ireland

5:18 PM - 5:24 PM
Abstract # 510: The role of histone demethylase UTX on epidermal homeostasis and carcinogenesis
G. N. Pacella1, 2, 3, A. Anderson1, E. Ko1, 2, B. C. Capell1, 2, 3
1Dermatology, University of Pennsylvania, Philadelphia, Pennsylvania, United States, 2Genetics, University of Pennsylvania, Philadelphia, Pennsylvania, United States, 3Epigenetics Institute, University of Pennsylvania, Philadelphia, Pennsylvania, United States

5:24 PM - 5:30 PM
Abstract # 482: Differences in chromatin accessibility in male vs female keratinocytes using ATAC-seq
Y. Chung1, L. C. Tsoi1, B. E. Perez White1, C. Zeng1, A. Billi1, J. E. Gudjonsen1
1Dermatology, University of Michigan Medical School, Ann Arbor, Michigan, United States, 2Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

5:30 PM - 5:36 PM
Abstract # 479: Distinct patterns of gene expression in skin biopsies differentiate generalized pustular psoriasis (GPP) from psoriasis vulgaris (PV)
S. Garcet1, H. Bachelez2, P. Baum1, S. Visvanathan3, J. G. Krueger4
1Laboratory for Investigative Dermatology, Rockefeller University, New York, New York, United States, 2Service de Dermatologie, Assistance Publique–Hôpitaux de Paris Hôpital Saint-Louis and INSERM Unité 1163, Imagine Institute of Genetic Diseases, Université de Paris, Paris, France, 3Boehringer Ingelheim GmbH & Co. KG, Biberach, Germany, 4Boehringer Ingelheim Pharmaceuticals, Inc., Ridgefield, Connecticut, United States

5:36 PM - 5:42 PM
Abstract # 484: New insight of itch mediators and proinflammatory cytokines in epidermolysis bullosa
H. Nguyen1, S. Shinkuma2, 3, R. Hayashi1, T. Katsumi1, T. Nishiguchi1, K. Natsuga3, Y. Fujita4, 5, R. Abe1
1Dermatology, Niigata Daigaku Igakubu Igakuka Daigakuen Ishigaku Sogo Kenkyuka, Niigata, Niigata, Japan, 2Dermatology, Nara Kenritsu Ika Daigaku Igakubu Igakuka Daigakuen Igaku Kenkyuka, Kashihiara, Nara, Japan, 3Dermatology, Hokkaido Daigaku Daigakuen Igaku Kenkyuin, Sapporo, Hokkaido, Japan, 4Dermatology, Sapporo City General Hospital, Sapporo, Hokkaido, Japan

5:42 PM - 5:48 PM
Abstract # 486: Glibenclamide ameliorates skin inflammation in a TRPM4 gain-of-function murine model of imiquimod-mediated psoriasiform dermatitis
D. Yamada1, S. Vu2, X. Wu1, Z. Shi1, M. Huynh1, J. Zheng2, S. T. Hwang3
1Dermatology, University of California Davis, Sacramento, California, United States, 2Physiology and Membrane Biology, University of California Davis, Davis, California, United States

5:48 PM - 5:54 PM
Abstract # 457: Filaggrin gene P478S and R501X polymorphisms in atopic dermatitis in Dakahlia, Egypt
O. Atef1, M. Zohdy1, S. Metwally1, H. Salem1
1Dermatology, Mansoura University Faculty of Medicine, Mansoura, Dakahlia, Egypt, 2Clinical Pathology, Mansoura University Faculty of Medicine, Mansoura, Dakahlia, Egypt

5:54 PM - 6:00 PM
Abstract # 465: GEM-3: phase 3 safety and immunogenicity results of beremagene geperpavec (B-VEC), an investigational, topical gene therapy for dystrophic epidermolysis bullosa (DEB)
M. Marinkovich1, M. Gonzalez2, S. Guide3, I. S. Bagci1, S. Chitra4, B. Agostini5, H. Chen5, T. Parry5, S. Krishnan5
1Stanford University, Stanford, California, United States, 2University of Miami, Coral Gables, Florida, United States, 3Mission Dermatology Center, Rancho Santa Margarita, California, United States, 4Savio Group Analytics & Statistics, Hockessin, Delaware, United States, 5Krystal Biotech, Pittsburgh, Pennsylvania, United States
Moderator: Jaehyuk Choi, MD/PhD

5:00 PM - 5:06 PM
Abstract # 827: Psoriasis exacerbation by obesity reflects reduced adiponectin regulation of PPARγ/Th17 pathway activation and is reversal by adiponectin receptor agonism
S. Kim, H. Liu, K. Kwan, J. Im, H. Soltani, N. Kaplan, A. Paller
Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

5:06 PM - 5:12 PM
Abstract # 816: Circulating monocyte biomarkers are predictive and responsive in psoriasis subjects treated with apremilast
E. L. Larson1,2, D. DeMeo1,2, A. Johnson1,2, A. Young1, S. Margevicius1, J. Rutter1,2, A. Davies1,2, N. Korman1,2, J. B. Travers3, C. A. Rohan3, T. McCormick1,2, K. Cooper1,2
1University Hospitals, Cleveland, Ohio, United States, 2Case Western Reserve University, Cleveland, Ohio, United States, 3Wright State University, Dayton, Ohio, United States

5:12 PM - 5:18 PM
Abstract # 809: Proteomic and cytokine profiling in prurigo nodularis features increased IL-13 and circulating blood mediators of systemic inflammation
V. Parthasarathy1, J. Deng1, Z. Sun1, S. Engle2, A. Auxier2, N. Hahn2, J. Sims1, A. Okracy1, M. P. Alphonse1, S. G. Kwatra1
1Department of Dermatology, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States, 2Eli Lilly and Company, Indianapolis, Indiana, United States

5:18 PM - 5:24 PM
Abstract # 840: Unsupervised learning reveals different degrees of heterogeneity as well as cell involvement in cutaneous lupus erythematosus antimalarial treatment response subgroups
F. Chin1,2, T. Vazquez1,2, J. Patel1,2, R. Feng3, V. Werth1,2
1University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States, 2Dermatology, VA Medical Center Corporal Michael J Crescenz, Philadelphia, Pennsylvania, United States, 3University of Pennsylvania Department of Biostatistics and Epidemiology, Philadelphia, Pennsylvania, United States

5:24 PM - 5:30 PM
Abstract # 849: Optimization of intravenous gentamicin to restore functional laminin 332 in junctional epidermolysis bullosa patients harboring nonsense mutations
B. A. Levian1, D. Mosallaei1, R. Antaya1, D. Woodley1, M. Chen1
1University of Southern California, Los Angeles, California, United States, 2Yale School of Medicine, New Haven, Connecticut, United States

5:30 PM - 5:36 PM
Abstract # 852: Effect of etrasimod on circulating lymphocyte subsets in atopic dermatitis patients
R. Ryan, F. Kuo, K. Liu, G. Abluwala, C. Crosby
Arena Pharmaceuticals Inc, San Diego, California, United States
American Dermato-Epidemiology Network (ADEN) Meeting

FRIDAY, MAY 20, 2022
7:00 PM – 8:30 PM
A105-A106

Agenda

7:00 PM
Business Meeting
• Welcome ADEN secretary
• DEN member survey: review of results and open discussion

7:30 PM
Abstract Presentations

• Improving hairdressers' knowledge and identification of hair loss disorders with use of educational video.
  Presenter: Shaheir Ali, BA
  Massachusetts General Hospital, Boston, MA

• Impact of the COVID-19 pandemic on dermatology visits among older adults and racial and ethnic minorities.
  Presenter: Nada Rizk, MS
  Stanford University School of Medicine, Stanford, CA

• Fracture risk in adult and pediatric patients with atopic dermatitis - a population-based cohort study.
  Presenter: Maha Syed, MBBS
  University of Pennsylvania, Philadelphia, PA

• Evaluation of diagnosis diversity in artificial intelligence datasets.
  Presenter: Michael Chen, BA
  Stanford University School of Medicine, Stanford, CA

8:10 PM
Trainee Awards

8:15 PM
Founders Award Presentation and Lecture

  Mentorship: A Case Series
  Joel M. Gelfand, MD, MSCE
  Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA

8:30 PM
Adjourn
American Hair Research Society (AHRS) Scientific Meeting

FRIDAY, MAY 20, 2022  7:00 PM – 10:00 PM  B113-B116

Presiders: John T. Seykora, MD, PhD, Chair, Scientific Program Committee
and Angela Christiano, PhD, Secretary-Treasurer

7:00 PM
Poster Viewing & Reception

1. Treatment with cyclohexyl salicylate, an olfactory receptor 2A4/7 agonist, promotes human hair follicle growth and bulge stem cell progeny expansion

2. Cytotoxic T lymphocytes target Henle’s layer in alopecia areata.


4. EGFR/MEK inhibitor therapy induces partial hair follicle immune privilege collapse in vivo and ex vivo.

5. Transcriptomic profiling of frontal and occipital dermal papilla reveals potential role of TRPS1 in androgenic alopecia.

6. Use of Low-Level Light Therapy in Management of Central Centrifugal Cicatricial Alopecia.


8. Adverse events associated with hydroxychloroquine use in cicatricial alopecia patients.

9. Improving hairdressers’ knowledge and identification of hair loss disorders with use of an educational video.

10. The role of lanosterol synthase in patients with congenital hypotrichosis.

7:45 PM
Welcome and Awards

7:50 PM
KEYNOTE SPEAKER
Hair follicle phenotypes are regulated by Lef1 expression in fibroblasts.
Ryan R. Driskell, Ph.D.
Assistant Professor
School of Molecular Biosciences, Center for Reproductive Biology, Washington State University

8:15 PM
Oral Presentations
12 minutes for presentation plus 3 minutes for Q&A and change of speaker

8:15 PM
Gut dysbiosis is associated with the development of alopecia areata.

8:30 PM
Decomposing a deterministic path to hair follicle dermal niche formation: The intersection of two morphogen gradients.

8:45 PM
Hunting the hair cycle clock (HCC): evidence that mitochondrially localized MPZL3 is a key HCC element in murine and human hair follicles.

9:00 PM
AHRS Annual Business Meeting

Visit www.americanhairresearchsociety.org for more information about the AHRS and membership!
National Psoriasis Foundation (NPF) Reception

FRIDAY, MAY 20, 2022 7:00 PM – 10:00 PM C123-C124

7:00 PM  
National Psoriasis Foundation Welcome  
Bob Friesel, PhD  
Director of Research and Medical Programs, National Psoriasis Foundation

7:05 PM  
Special Funding Announcement  
Psoriasis Predictive Risk & Outcomes Model  
Wilson Liao, MD  
Chair, National Psoriasis Foundation Scientific Advisory Committee  
Professor of Dermatology, University of California San Francisco

7:15 PM  
National Psoriasis Foundation Patient Centered Research  
National Psoriasis Foundation actions to address health disparities among the psoriatic disease community  
George Gondo, MA  
Patient Centered Research Manager, National Psoriasis Foundation

7:25 PM  
Psoriasis Prevention Initiative Update  
Prevention of Cardiovascular Disease and Mortality in Patients with Psoriasis or Psoriatic Arthritis  
Joel Gelfand, MD, MSCE  
Professor of Dermatology and Epidemiology, University of Pennsylvania Perelman School of Medicine

7:40 PM  
PsA Diagnostic Test  
Investigating Cellular and Molecular-Based Biomarkers of Disease Progression in Psoriatic Arthritis  
Sergei Koralov, Ph.D.  
Associate Professor, Department of Pathology, NYU Langone

8:00 PM  
PST Closing Remarks  
Leah Howard, JD  
Chief Executive Officer, National Psoriasis Foundation

8:15 PM  
National Psoriasis Foundation Mixer  
Network with National Psoriasis Foundation leadership, including Leah Howard, JD  
Interim CEO and President  
Bob Friesel, PhD  
Director of Research and Medical Affairs, Research Staff, and active awardees while enjoying hors d’oeuvres, desserts, and complimentary drinks.
### SATURDAY, MAY 21, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Page Number</th>
</tr>
</thead>
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| 7:00 AM — 11:00 AM | On-Site Registration  
Holladay Entrance/Pre-Function A                               |                                   |             |
| 8:00 AM — 8:30 AM | Julius Stone Lecture  
Oregon Ballroom 201-202                                           |                                   | 97          |
| 8:30 AM — 9:30 AM | Plenary Session 3  
Oregon Ballroom 201-202                                           |                                   | 98          |
| 9:45 AM — 12:15 PM | Concurrent Mini-symposium 13: Adaptive and Auto-Immunity  
Oregon Ballroom 203                         |                                   | 99          |
| 9:45 AM — 12:15 PM | Concurrent Mini-symposium 14: Cell-Cell Interactions in the Skin  
Oregon Ballroom 204                       |                                   | 100         |
| 9:45 AM — 12:15 PM | Concurrent Mini-symposium 15: Clinical Research - Interventional Research  
A105-A106                                |                                   | 101         |
| 9:45 AM — 12:15 PM | Concurrent Mini-symposium 16: Photobiology  
B113-B116                                |                                   | 102         |
| 9:45 AM — 12:15 PM | Concurrent Mini-symposium 17: Skin of Color  
C123-C124                               |                                   | 103         |
Montagna Symposium
on the Biology of Skin

Microbes, Autoimmunity & Cancer
October 20 - 24, 2022
Salishan Resort, Oregon Coast

Program Chair:
Robert L. Modlin, M.D.
University of Los Angeles, California

Symposium Directors:
Sancy Leachman, M.D., Ph.D.
OHSU
Dennis Roop, Ph.D.
University of Colorado

Keynote Speakers:
Yasmine Belkaid, Ph.D., National Institutes of Health/NIAID
Thomas Gajewski, M.D., Ph.D., University of Chicago Medicine

Co-organizers:
John O’Shea, M.D.
National Institutes of Health/NIAMS
Daniel Kaplan, M.D., Ph.D.
University of Pittsburgh
Niroshana Anandasabapathy, M.D., Ph.D.
Weill Cornell Medicine

Register:
www.MontagnaSymposium.org
Julius Stone Lecture
Cell Communication in Tissue Homeostasis

SATURDAY, MAY 21, 2022 8:00 AM – 8:30 AM OREGON BALLROOM 201-202

Introduction By:
Paul Nghiem, MD/PhD

Ruslan Medzhitov, PhD
Yale University School of Medicine
New Haven, CT

Ruslan Medzhitov obtained his BA degree from Tashkent State University in 1990 and PhD degree from Moscow State University in 1993. He is currently a Sterling Professor of Immunobiology at Yale University School of Medicine, and an Investigator of the Howard Hughes Medical Institute.

The current research in Medzhitov’s lab is focused on inflammation biology, allergy, tissue biology, and evolutionary medicine.

His awards include: The Emil von Behring Award, The Blavatnik Award for Young Scientists, Lewis S. Rosenstiel Award, The Shaw Prize in Life Science and Medicine, Vilcek Prize in Life Sciences, Lurie Prize in Biomedical Sciences, Else Kröner Fresenius Stiftung Prize and Dickson Prize.

He is a member of the National Academy of Sciences, USA, National Academy of Medicine, USA, Fellow of American Academy of Microbiology, a member of EMBO and a foreign member of the Russian Academy of Sciences.

LECTURESHIP HISTORY
The Julius Stone Lectureship is intended to promote the advancement of knowledge in immunology as it relates to the skin and skin disease. The Lectureship is intended to honor Dr. Julius Stone, whose great commitment to the application of new principles of immunology to the benefit of patients with skin disorders is recognized by this award.
Plenary Session 3

SATURDAY, MAY 21, 2022
8:30 AM – 9:30 AM
OREGON BALLROOM 201-202

Presider(s): Marjana Tomic-Canic, PhD, Vladimir Botchkarev, MD/PhD

8:30 AM - 8:42 AM
Abstract # 419: Glucose controls protein-protein interactions and epidermal differentiation
V. Lopez-Pajares1, A. Bhaduri2, Y. Zhao1, G. Gowrishankar1, L. Donohue1, M. Guo1, A. Guerrero1, A. Ji1, O. Garcia1, S. Gambir1, P. Khavari1,2,4
1Stanford University, Stanford, California, United States, 2University of California Los Angeles David Geffen School of Medicine, Los Angeles, California, United States, 3UPMC, Pittsburgh, Pennsylvania, United States, 4VA Palo Alto Health Care System, Palo Alto, California, United States

8:42 AM - 8:54 AM
Abstract # 635: Reprogramming the tumor microenvironment by a second-generation recombinant modified vaccinia virus Ankara
S. Liu1, G. Mazo1, N. Yang1, T. Zhang1, S. B. Tariq1, Y. Wang1, D. Hirschhorn-Cymerman1, L. Ji1, A. Tan1, J. Wang1, W. Yan1, J. Choi1, A. Rossi1, J. Z. Xiang2, M. O. Li1, T. Merghoub1, J. D. Wolchok1, L. Deng1
1Memorial Sloan Kettering Cancer Center, New York, New York, United States, 2Weill Cornell Medicine, New York, New York, United States

8:54 AM - 9:06 AM
Abstract # 741: Structural adaptations of epidermal stem cells to mechanical stress
S. Huang1, G. Rice2, P. Rompolas3
1Dermatology, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States

9:06 AM - 9:18 AM
Abstract # 760: Cellular landscape of the skin is primed by the oral epithelial regenerative transcription factor Pitx1 to promote wound healing
A. Overmiller, A. Uchiyama, E. Hope, A. Sawaya, S. Nayak, K. Hasneen, S. Dell’Orso, S. Brooks, M. Morasso
NIAMS, National Institutes of Health, Bethesda, Maryland, United States

9:18 AM - 9:30 AM
Abstract # 804: Fibroblast subpopulations orchestrate chronic inflammation in hidradenitis suppurativa
K. R. van Straalen1, F. Ma1, O. Plazyo1, M. Calbet1, X. Xing1, M. Gharae-Kermani1,2, P. W. Harms1, R. Wasikowski1, L. Nahlawi1, A. Billi1, J. Kahlenberg1, E. Maverakis1, L. C. Tsoi1, J. E. Gudjonsson1
1Dept of Dermatology, University of Michigan Medical School, Ann Arbor, Michigan, United States, 2Div of Rheumatology, Dept of Internal Medicine, University of Michigan Medical School, Ann Arbor, Michigan, United States, 3Dept of Pathology, University of Michigan Medical School, Ann Arbor, Michigan, United States, 4R&D Center, Almirall SA, Sant Feliu de Llobregat, Barcelona, Spain, 5Dept of Dermatology, University of California, Sacramento, California, United States
Concurrent Mini-Symposium 13
Adaptive and Auto-Immunity
Studies of adaptive immune responses involving T and B lymphocytes, dendritic cells, other antigen presenting cells, and antigen processing and presentation; Basic and pre-clinical experimental studies focused on autoimmunity.

President(s): Allison Billi, MD/PhD, Johann Gudjonsson, MD/PhD

9:45 AM - 12:15 PM
Oregon Ballroom 203

Presider(s): Allison Billi, MD/PhD, Johann Gudjonsson, MD/PhD

9:45 AM - 9:57 AM
Abstract # 032: IL-36 axis is a sex-biased immune amplification
10:45 AM - 10:57 AM
Massachusetts, United States

I. Odell 1, H. Steach 4, S. Gauld 2, T. Carr 2, J. Wetter 2, L. Phillips 2,
lung fibrosis
9:57 AM - 10:09 AM
Y. Watanabe1, A. Klosowicz1, K. Yu1, J. Moore1, A. Gehadi1, J. Teague1,
N. Smith1, A. Villani1, S. Essien1, Q. Zhan1, R. A. Clark1
1Brigham and Women’s Hospital, Boston, Massachusetts, United
States, 2Harvard Medical School, Boston, Massachusetts, United
States, 3Massachusetts General Hospital, Boston, Massachusetts, United
States

9:57 AM - 10:09 AM
Abstract # 046: An EGFR ligand maintains sclerodermo skin and
lung fibrosis
I. Odell1, H. Steach4, S. Gauld2, T. Carr2, J. Wetter2, L. Phillips2,
M. Hinchcliff3, R. Flavelle4,5
1Dermatology, Yale University, New Haven, Connecticut, United States,
2AbbVie Inc, North Chicago, Illinois, United States, 3Internal
Medicine, Yale School of Medicine, New Haven, Connecticut, United
States, 4 Immunobiology, Yale School of Medicine, New Haven,
Connecticut, United States, 5Howard Hughes Medical Institute,
Chevy Chase, Maryland, United States

10:09 AM - 10:21 AM
Abstract # 017: Immunogenic catagen initiates alopecia areata
J. Kim1, A. M. Christiano1,2
1Department of Dermatology, Columbia University, New York,
New York, United States, 2Department of Genetics and Development,
Columbia University, New York, New York, United States

10:21 AM - 10:33 AM
Abstract # 066: Plasmacytoid dendritic cells are not major
producers of type I interferons in cutaneous lupus
T. Vazquez1,2, D. Diaz3, N. Kodali3, J. Patel3, E. Keyes1,4,
G. Sprov1,2, M. Sharma1,2, M. Ogawa-Momohara1,2, M. Grinnell1,2,
J. Dan3, V. Werth1,2
1VA Medical Center Corporal Michael J Crescenz, Philadelphia,
Pennsylvania, United States, 2University of Pennsylvania,
Philadelphia, Pennsylvania, United States

10:33 AM - 10:45 AM
Abstract # 021: CXCL13-producing peripheral T helper cells as
potential mediators of photosensitivity in dermatomyositis
K. Ashari1, N. Haddadi1, Y. Wang1, J. M. Richmond1, R. Vleugels1,
M. Garber1, M. Rashighi1
1University of Massachusetts Chan Medical School, Worcester,
Massachusetts, United States, 2Harvard Medical School, Boston,
Massachusetts, United States

10:45 AM - 10:57 AM
Abstract # 030: IL-36 axis is a sex-biased immune amplification
circuit localized to the supraspinous epidermal compartment
M. Sarkar1, F. Ma2, A. Kidder1, B. E. Perez White3, R. Uppala1,
N. L. Ward4, C. Dobry1, A. Coon1, L. C. Tsoi1, J. Kahlenberg1,
J. E. Gudjonsson1
1Department of Dermatology, University of Michigan Michigan
Medicine, Ann Arbor, Michigan, United States, 2Department of
Rheumatology, Department of Internal Medicine, University of
Michigan Michigan Medicine, Ann Arbor, Michigan, United States,
3Department of Dermatology, Northwestern University Feinberg
School of Medicine, Chicago, Illinois, United States, 4Department of
Dermatology, Vanderbilt University Medical Center, Nashville,
Tennessee, United States

10:57 AM - 11:09 AM
Abstract # 034: Tissue specificity of dendritic cells supersedes
subset identity
Q. Huang1, A. S. Doane2, O. Elemento1, N. Anandasabapathy1
1Department of Dermatology, Weill Cornell Medicine, New York,
New York, United States, 2Department of Physiology and Biophysics,
Weill Cornell Medicine, New York, New York, United States

11:09 AM - 11:21 AM
Abstract # 055: CD8 T cell immunity after respiratory viral
infection is transient, while CD8 T cell immunity after epidermal
vaccination is lung focused and durable
T. Tian, Y. Pan, T. Pan, J. B. Williams, E. Rotrosen, Y. Yan, T. Kupper
Brigham and Women’s Hospital, Boston, Massachusetts, United
States

11:21 AM - 11:33 AM
Abstract # 024: Asymmetric cell division for fate induction of
chimeric antigen receptor (CAR) T cells
C. Ellebrecht, C. Lee, R. O’Connor, A. Payne
University of Pennsylvania, Philadelphia, Pennsylvania, United
States

11:33 AM - 11:45 AM
Abstract # 060: Heterogeneity and lineage development of
memory CD8+ T cells after viral infection of skin
Y. Yan1, N. Smith1, Y. Pan1, J. Zhao1, J. B. Williams1, J. Zhang1,
T. Tian1, T. Pan1, K. Wu1, A. Villani1, T. Kupper1
1Brigham and Women’s Hospital, Boston, Massachusetts, United
States, 2Massachusetts General Hospital, Boston, Massachusetts,
United States

11:45 AM - 11:57 AM
Abstract # 004: Calcitonin gene-related peptide (CGRP) acts
on endothelial cells (ECs) at a site not in skin to favor th17-type
immunity
Y. Kim, W. Ding, L. L. Stohl, R. D. Granstein
Weill Cornell Medicine, New York, New York, United States

11:57 AM - 12:09 PM
Abstract # 056: IL-15 prolongs hair growth and operates as a
guardian of human hair follicle immune privilege
T. Suzuki1, D. Demetrius1, A. Rajabi-Estarabadi1, F. D. Scala1,
J. Gherardini1, T. Purba1, J. Rodriguez-Feliz2, G. Epstein-Kuka2,
C. Nicu1, M. Harries1, J. Chéret1, R. Paus1,2,3
1Dr. Phillip Frost Department of Dermatology and Cutaneous
Surgery, University of Miami School of Medicine, Miami, Florida,
United States, 2Monaterium Laboratory, Münster, Germany,
3Centre for Dermatology Research, The University of Manchester,
Manchester, Manchester, United Kingdom, 4Skin & Hair, Plastic
Surgery Clinic, Coral Gables, Florida, United States, 5Foundation for
Hair Restoration, Miami, Florida, United States
Concurrent Mini-Symposium 14
Cell-Cell Interactions in the Skin
Studies on cell-cell interactions between specific skin cell types (including but not limited to keratinocytes, nerves (neuro-cutaneous biology), melanocytes, fibroblasts, adipocytes, immune cells and progenitors) in the skin and their local cellular and extracellular environments that affect skin inflammation, sensation (e.g., itch and pain), signaling, adhesion, migration, development and homeostasis.

Presider(s): Amanda Nelson, PhD, Michael Howell, PhD

9:45 AM - 9:57 AM
Abstract # 123: Impact of local iron overload on crosstalk and phenotypes of immune and tissue cells in skin
M. Torregrossa1, J. C. Simon1, S. Franz1
1Universitätsklinikum Leipzig Klinik und Poliklinik fur Dermatologie Venerologie und Allergologie, Leipzig, Sachsen, Germany; 2Department of Dermatology, Universität Leipzig, Leipzig, Germany

9:57 AM - 10:09 AM
Abstract # 120: Epidermis-intrinsic transcription factor Ovol1 promotes epidermal and immune homeostasis against atopic dermatitis-like skin inflammation
Z. Chen, M. Dragan, X. Dai
Biological Chemistry, University of California, Irvine, Irvine, California, United States

10:09 AM - 10:21 AM
Abstract # 136: Infiltrative BCC TILs show increased clonality and are associated with greater TCR repertoire overlap between cytotoxic and exhausted subtypes
N. Frazzette, N. Doudican, J. Carucci
Dermatology, NYU Langone Health, New York, New York, United States

10:21 AM - 10:33 AM
Abstract # 139: Pathogenic CD8+ T cell infiltration and immune synapse formation in alopecia areata hair follicles
R. Gund1, E. M. Mace1, A. M. Christiano2
1Pediatrics, Columbia University Irving Medical Center, New York, New York, United States; 2Dermatology, Columbia University Irving Medical Center, New York, New York, United States; 3Dermatology, Columbia University Irving Medical Center, New York, New York, United States

10:33 AM - 10:45 AM
Abstract # 127: IL-17 acts as the master regulator for metabolic rewiring in skin inflammation and drives keratinocytes towards a hyperproliferative phenotype
B. Dhamija, V. V. Sawant, M. Basu, D. Attrish, S. S. Marathe, R. Purwar
Department of Biosciences and Bioengineering, Indian Institute of Technology Bombay, Mumbai, Maharashtra, India

10:45 AM - 10:57 AM
Abstract # 143: Structure of a novel endoplasmic reticulum-desmosome complex and its role in skin disease
N. Bharathan1, W. Giang1, J. Aaron1, S. Khoun1, T. Chew2, A. Kowalczyk3
1Dermatology, Penn State College of Medicine, Hershey, Pennsylvania, United States; 2Howard Hughes Medical Institute Janelia Farm Research Campus, Ashburn, Virginia, United States

10:57 AM - 11:09 AM
Abstract # 130: Hepatocyte growth factor pathway drives enhanced skin tumor formation in a humanized mouse model of accelerated dermal aging
T. Quan, T. He, Z. Qin, Y. Liu, Y. Yan, A. Ermilov, J. Voorhees, A. A. Dlugosz, G. J. Fisher
Dermatology, University of Michigan Medical School, Ann Arbor, Michigan, United States

11:09 AM - 11:21 AM
Abstract # 132: Spatiotemporal interplay between epidermal keratinocytes and neutrophils in inflamed skin
Y. Xu, C. Parent, P. Coulombe
University of Michigan Medical School, Ann Arbor, Michigan, United States

11:21 AM - 11:33 AM
Abstract # 133: Multimodal analyses of vitiligo skin identifies tissue characteristics of stable disease
J. Shiu1, L. Zhang2, G. Lentsch1, J. Flesher1, S. Jin1, C. Polleys1, I. Georgakoudi1, Q. Nie1, M. Balu1, A. K. Ganesan1
1Dermatology, University of California Irvine, Irvine, California, United States; 2Mathematics, University of California Irvine, Irvine, California, United States; 3Beckman Laser Institute and Medical Clinic, Irvine, California, United States; 4Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States; 5Biomedical Engineering, Tufts University, Medford, Massachusetts, United States

11:33 AM - 11:45 AM
Abstract # 129: Pervasive immune dysfunction characterizes photoaged skin
University of Michigan Medical School, Ann Arbor, Michigan, United States

11:45 AM - 11:57 AM
Abstract # 142: The phenotype of dermal fibroblasts in young vs. aged human skin: Adaptation to dermal extracellular matrix deterioration and cell autonomous responses
Y. Cui1, C. Worthen1, R. Haas1, S. Grill1, M. Shi1, L. C. Tsol1, J. Nandakumar1, J. Voorhees1, Y. Zhao2, G. J. Fisher1
1University of Michigan, Ann Arbor, Michigan, United States; 2Tsinghua University, Beijing, Beijing, China

11:57 AM - 12:09 PM
Abstract # 124: Wnt signaling activation causes ATGL-dependent lipolysis in skin fibrosis
A. R. Jussila1, B. Zhang1, S. Kirti1, R. Wytzner2, C. Reynolds2, M. Steele1, E. Hamburg-Shields1, V. Horsley1, R. Attil1
1Biology, Case Western Reserve University, Cleveland, Ohio, United States; 2Molecular, Cellular, and Developmental Biology, Yale School of Medicine, New Haven, Connecticut, United States; 3Genetics, Case Western Reserve University School of Medicine, Cleveland, Ohio, United States; 4Dermatology, Case Western Reserve University School of Medicine, Cleveland, Ohio, United States

CME CREDITS: 2.5
Concurrent Mini-Symposium 15
Clinical Research – Interventional Research

Interventional human trials that evaluate or compare therapies, devices, or other interventions for the treatment of skin diseases. This may include systematic reviews and/or meta-analyses of interventional studies.

SANDAY, MAY 21, 2022 9:45 AM–12:15 PM A105-A106

9:45 AM - 9:57 AM
Abstract # 289: Dupilumab treatment restores skin barrier function in adult and adolescent patients with moderate-to-severe atopic dermatitis
E. Goleva1, R. Bissinnette2, E. Berdyshev3, P. Jurvillies4, I. Aguereusopt, A. Praestgaard5, M. Dillon4, A. Rossi3, A. Zhang4
1National Jewish Health, Denver, Colorado, United States, 2Innovidem Research, Montreal, Quebec, Canada, 3Sanofi SA, Chilly-Mazarin, Ille-de-France, France, 4Sanofi-Aventis Deutschland GmbH, Frankfurt am Main, Germany, 5Sanofi Genzyme, Cambridge, Massachusetts, United States, 6Regeneron Pharmaceuticals Inc, Tarrytown, New York, United States

11:09 AM - 11:21 AM
Abstract # 310: Efficacy and safety of abrocitinib in biologice-exposed versus biologic-naive patients with moderate-to-severe atopic dermatitis
1Skirvin Center for Dermatology, Peterborough, Ontario, Canada, 2Yale University, New Haven, Connecticut, United States, 3Central Connecticut Dermatology Research, Cromwell, Connecticut, United States, 4University of Southampton, Southampton General Hospital, Southampton, United Kingdom, 5Icahn School of Medicine at Mount Sinai, New York, New York, United States, 6Pfizer Inc., Collegeville, Pennsylvania, United States, 7Pfizer Inc., Groton, Connecticut, United States, 8Pfizer Inc., New York, New York, United States

11:21 AM - 11:33 AM
Abstract # 290: Risankizumab (RZB) for active psoriatic arthritis (PsA): Integrated subgroup analysis from 2 double-blind, placebo-controlled, phase 3 studies (KEEPsAKE 1 and KEEP$AKE 2)
J. Merola1, K. Dufffin2, B. Padilla3, Z. Xue4, H. Photowala5, B. Kaplan6, I. Mclnnes7
1Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts, United States, 2University of Utah Health, Salt Lake City, Utah, United States, 3AbbVie Inc, North Chicago, Illinois, United States, 4University of Glasgow, Glasgow, Glasgow, United Kingdom

11:33 AM - 11:45 AM
Abstract # 282: Modulation of inflammatory proteins in blood may reflect cutaneous immune responses in topical cancer immunotherapy
J. Han1, J. Correa Da Rosa2, S. Owji3, Y. Estrada3, J. Unger3, J. G. Krueger2, N. Gullati4
1Dermatology, Icahn School of Medicine at Mount Sinai, New York, New York, United States, 2Laboratory for Investigative Dermatology, The Rockefeller University, New York, New York, United States

11:45 AM - 11:57 AM
Abstract # 294: Berdaizimer 10.3% gel, a nitric oxide-releasing topical medication for molluscum contagiosum, triggers BOTE (Beginning Of The End) inflammation and accelerates resolution
T. Maeda-Chubachi1, M. Cartwright2, A. Paller3
1Novan, Inc, Durham, North Carolina, United States, 2Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

11:57 AM - 12:09 PM
Abstract # 291: Improvements in GPPGA score in patients experiencing a generalized pustular psoriasis (GPP) flare: Efsaysf 1 study results
M. Anadkat1, M. Lebwohl2, B. Elewski3, U. Mrowietz1, 2, S. Imafuku4, J. Xu5, L. Ling6, M. Quaresma7, C. Thoma8, H. Bachelez9
1Icahn School of Medicine, Mount Sinai, New York, New York, United States, 2University of Alabama, Birmingham, Alabama, United States, 3Psoriasis Center, University Medical Center Schleswig-Holstein, Kiel, Germany, 4Fukuoka University, Fukuoka, Japan, 5Huashan Hospital, Shanghai, China, 6Boehringer Ingelheim Investment Co Ltd, Shanghai, China, 7Boehringer Ingelheim International GmbH, Ingelheim, Germany, 8Hopital Saint-Louis, Paris, France, 9Washington University School of Medicine, St. Louis, Missouri, United States

9:57 AM - 10:09 AM
Abstract # 295: Collagen 7 (C7) protein replacement therapy (PTR-01) durably reduces wound size and symptoms in patients with recessive dystrophic epidermolysis bullosa (RDEB)
J. So1, V. Iwummadu1, J. Nazaroff1, I. Bailey1, D. McCarthy2, D. Nghiem1, P. Chiou1
1Department of Dermatology and Center for Chronic Pruritus, Stanford University School of Medicine, Stanford, California, United States, 2Department of Surgery, Stanford University School of Medicine, Stanford, California, United States

10:09 AM - 10:21 AM
Abstract # 314: Mass spectrometry-based plasma proteomics analysis reveals IL31 inhibition modulates cutaneous and systemic inflammation in prurigo nodularis
S. G. Kwatra1, M. P. Alphonse2, V. Parthasarathy1, J. Deng1, K. K. Lee1, S. Stander1, C. Piketty1, L. Tille1, H. Kamal1, J. K. Krishnaswamy2, V. Julia1
1Dermatology, Johns Hopkins Medicine, Baltimore, Maryland, United States, 2Department of Dermatology and Center for Chronic Pruritus, University of Southern California Keck School of Medicine, Los Angeles, California, United States, 3Phoenix Tissue Repair, Boston, Massachusetts, United States, 4U. Colorado School of Medicine, Aurora, Colorado, United States, 5Stanford University School of Medicine, Stanford, California, United States, 6Shriners Hospital for Children, Portland, Oregon, United States

10:21 AM - 10:33 AM
Abstract # 292: Is it safe to discontinue immunotherapy after a response in merrkel cell carcinoma?
L. Tachi1, L. Zawacki1, D. Hippe1, Y. Moshiri1, N. Alexander1, T. Akalke1, C. Doolittle-Amieva1, T. Pulliam1, L. Zaba1, S. Bhatia1, P. Nghiem1
1University of Washington Department of Medicine, Seattle, Washington, United States, 2Fred Hutchinson Cancer Research Center, Seattle, Washington, United States, 3Stanford Medicine, Stanford, California, United States

10:33 AM - 10:45 AM
Abstract # 273: Long-term efficacy and safety of investigational autologous gene-corrected skin sheets (EB-101) for recessive dystrophic epidermolysis bullosa (RDEB)
J. So1, V. Iwummadu2, J. Nazaroff1, I. Bailey1, D. McCarthy2, M. Mirza3, J. Tang1, A. Chiou1
1Department of Dermatology, Stanford University School of Medicine, Stanford, California, United States, 2Abeona Therapeutics Inc, Cleveland, Ohio, United States

10:45 AM - 10:57 AM
Abstract # 288: A phase 2 randomized clinical trial of seloripitant, a neurokinin-1 receptor antagonist for the treatment of chronic itch in patients with epidermolysis bullosa
U. Okata-Karigane1, E. Corell1, K. Sum1, K. Yekrang, M. Phung, M. Barriga, P. Udrizar, I. Bailey, S. Li, J. Tang, A. Chiou
Stanford University School of Medicine, Stanford, California, United States

10:57 AM - 11:09 AM
Abstract # 296: Dupilumab treatment restores skin barrier function in adult and adolescent patients with moderate-to-severe atopic dermatitis
E. Goleva1, R. Bissinnette2, E. Berdyshov3, P. Jurvillies4, I. Aguereusopt, A. Praestgaard5, M. Dillon4, A. Rossi3, A. Zhang4
1National Jewish Health, Denver, Colorado, United States, 2Innovadem Research, Montreal, Quebec, Canada, 3Sanofi SA, Chilly-Mazarin, Ille-de-France, France, 4Sanofi-Aventis Deutschland GmbH, Frankfurt am Main, Germany, 5Sanofi Genzyme, Cambridge, Massachusetts, United States, 6Regeneron Pharmaceuticals Inc, Tarrytown, New York, United States
Concurrent Mini-Symposium 16
Photobiology
Studies on biological, biochemical, and molecular responses to ultraviolet radiation in cells, animals and humans.

**SATURDAY, MAY 21, 2022**

**9:45 AM - 12:15 PM**

**B113-B116**

**9:45 AM - 9:57 AM**

Abstract # 606: Translation and growth pathways are directly influenced by autoimmunity in skin keratinocytes

R. P. Feehan, K. R. Patrick, T. Gao, R. Hobbs

Dermatology / Immunology & Mol. Bio, Penn State College of Medicine, Hershey, Pennsylvania, United States

**9:57 AM - 10:09 AM**

Abstract # 604: RNA methylation facilitates the repair of UV-induced DNA damage and suppresses photocarcinogenesis

Z. Yang1, S. Yang1, Y. Cui1, J. Wei1, P. Shah1, G. Park1, X. Cui2, C. He3, Y. He4

1University of Chicago Division of the Biological Sciences, Chicago, Illinois, United States, 2University of Chicago Division of the Physical Sciences, Chicago, Illinois, United States

**10:09 AM - 10:21 AM**

Abstract # 613: UVB-irradiated keratinocyte-derived extracellular vesicles induced STING and inflammasome mediated proinflammatory responses

Y. Li1, T. Vazquez1, 2, M. Ogawa-Momohara1, 2, V. Werth1, 2

1CMCVMC, Philadelphia, Pennsylvania, United States, 2University of Pennsylvania, Philadelphia, Pennsylvania, United States

**10:21 AM - 10:33 AM**

Abstract # 605: Phototherapy-induced IFNκ drives type I IFN induced antiancer responses in CTCL

Z. Yu1, A. Gehad1, J. Teague1, J. Crouch1, K. Yu1, J. O’Malley1, T. Kupper1, T. Benezeder1, J. E. Gudjonsson2, J. M. Kahlenberg3, M. Sarkar4, P. Vieyra-Garcia5, P. Wolf6, R. A. Clark1

1Brigham and Women’s Hospital, Boston, Massachusetts, United States, 2Medizinische Universität Graz, Graz, Steiermark, Austria, 3University of Michigan Medical School, Ann Arbor, Michigan, United States

**10:33 AM - 10:45 AM**

Abstract # 603: UVB-mediated DNA damage induces matrix metalloproteinases to promote photoaging in an AhR- and SP1-dependent manner

D. J. Kim1, A. Iwasaki1, A. L. Chien1, S. Kang2

1Yale School of Medicine, New Haven, Connecticut, United States, 2Johns Hopkins Medicine, Baltimore, Maryland, United States

**10:45 AM - 10:57 AM**

Abstract # 614: Intrinsic versus extrinsic skin aging: Extrinsically differ from intrinsically aged human skin fibroblasts in their metabolic adaptive responses and by carrying a signature of catastrophic failure.

S. Schneider1, M. Pollet1, M. Majora1, S. Faßbender1, A. Marini1, J. Hüsemann1, M. Knechten1, H. Schwender1, J. Krumm2

1UF – Leibniz Research Institute for Environmental Medicine, Duesseldorf, Germany, 2Mathematical Institute, Heinrich Heine University Duesseldorf, Duesseldorf, Germany, 3Medical Faculty, Heinrich Heine University Duesseldorf, Duesseldorf, Germany, 4Human Phenome Institute, Fudan University, Shanghai, China

**10:57 AM - 11:09 AM**

Abstract # 610: Development of a natural product-based sunscreen

A. Zhou, B. Yu, J. Lewis, M. Girardi

Dermatology, Yale School of Medicine, New Haven, Connecticut, United States

**11:09 AM - 11:21 AM**

Abstract # 620: Inflammasome activation in human keratinocytes and mouse epidermis by ultraviolet radiation

S. Talley, E. M. Campbell, M. Denning

Loyola University Chicago Stritch School of Medicine, Maywood, Illinois, United States

**11:21 AM - 11:33 AM**

Abstract # 607: Skin aging: Investigation of a synergistic effect between cigarette smoke and sun rays using tissue-engineered skin substitutes

A. Grenier1, 2, P. J. Rochette1, 3, R. Pouliot1, 2

1Centre de Recherche en Organogénèse Expérimentale de l’Université Laval/LOEX, Axe Médecine Régénératrice, Centre de recherche du CHU de Québec-Université Laval, Quebec, Quebec, Canada, 2Faculté de pharmacie, Universite Laval, Quebec, Quebec, Canada, 3Département d’ophthalmologie et ORL-chirurgie cervico-faciale, Universite Laval Faculte de medecine, Quebec, Quebec, Canada

**11:33 AM - 11:45 AM**

Abstract # 622: Regulation of XPC binding dynamics and global nucleotide excision repair by p63 and vitamin D receptor

C. Wong1, D. H. Oh1, 2

1Dermatology Research Unit, San Francisco VA Health Care System, San Francisco, California, United States, 2Department of Dermatology, University of California San Francisco, San Francisco, California, United States
Concurrent Mini-Symposium 17
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.

Presider(s): Alaina James, MD, Cristina de Guzman Strong, PhD

9:45 AM - 9:57 AM
Abstract # 665: Incidence and characteristics of acral lentiginous melanoma in Asian Americans and Pacific Islanders
A. H. Wei1, 2, D. X. Zheng1, 2, C. R. Cullison1, 2, B. T. Carroll2
1Case Western Reserve University, Cleveland, Ohio, United States, 2University Hospitals, Cleveland, Ohio, United States

9:57 AM - 10:09 AM
Abstract # 673: Metabolomic profiling of cutaneous lupus erythematosus
L. Abbas1, G. Barber1, H. Vu2, L. Cal1, 2, R. C. Wang1, B. F. Chong1
1Department of Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, 2Children's Medical Research Institute, Core Metabolomics, The University of Texas Southwestern Medical Center, Dallas, Texas, United States

10:09 AM - 10:21 AM
Abstract # 683: A qualitative exploration of melanoma awareness in black communities
I. de Vere Hunt1, S. Owen1, A. Amuzie2, V. Nava1, A. Tomz2, L. A. Barnes1, J. Lester2, S. Swetter1, E. Linos1
1Stanford University, Stanford, California, United States, 2Indiana University, Bloomington, Indiana, United States, 3University of California San Francisco, San Francisco, California, United States

10:21 AM - 10:33 AM
Abstract # 672: Patient race is associated with diagnostic uncertainty for psoriasis among dermatologists
University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States

10:33 AM - 10:45 AM
Abstract # 670: Average RGB color value to categorize skin color of dermatology images
J. E. Lamb1, A. X. Stone1, Z. Li1, J. Hu1, A. J. James2
1University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania, United States, 2Dermatology, UPMC, Pittsburgh, Pennsylvania, United States

10:45 AM - 10:57 AM
Abstract # 691: Psoriasis and psoriatic arthropathy in diverse U.S. adult cohort: All of us research program
M. M. Tran, I. H. Moseley, E. A. George, E. Cho
Dermatology, Brown University Warren Alpert Medical School, Providence, Rhode Island, United States

10:57 AM - 11:09 AM
Abstract # 697: Racial differences in inflammatory biomarkers in hidradenitis suppurativa patients
Dermatology, Johns Hopkins University, Baltimore, Maryland, United States

11:09 AM - 11:21 AM
Abstract # 684: Variability in bullous pemphigoid disease area index scoring in patients of color
D. Mustin1, E. Cole2, T. DeGrazi3, R. Feldman2
1Emory University School of Medicine, Atlanta, Georgia, United States, 2Dermatology, Emory University, Atlanta, Georgia, United States

11:21 AM - 11:33 AM
Abstract # 687: Acne-related quality of life differs by race/ethnicity and sex
C. Santos Malave1, R. Fitzsimmons2, D. B. Shin2, J. Takeshita2
1Icahn School of Medicine at Mount Sinai, New York, New York, United States, 2University of Pennsylvania, Philadelphia, Pennsylvania, United States

11:33 AM - 11:45 AM
Abstract # 679: A polygenic risk score uncovers racial and genetic differences in susceptibility to prurigo nodularis in patients of African ancestry
C. Vasavda1, G. Wan1, C. Lu1, N. Sutaria1, N. Nguyen2, M. Szeto3, W. Adawi4, J. Deng1, V. Parthasarathy5, Z. A. Bordeaux6, M. Taylor1, M. Marani1, K. Lee1, M. P. Alphonse1, S. Kang1, Y. Semenov2, A. Gusev2, S. G. Kwatra1
1Dermatology, Johns Hopkins Medicine, Baltimore, Maryland, United States, 2Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States, 3Medical Oncology, Dana-Farber Cancer Institute, Boston, Massachusetts, United States

11:45 AM - 11:57 AM
Abstract # 671: Impaired follicular Nrf2 signaling: Potential early therapeutic target in hidradenitis suppurativa
M. Kerns1, X. Xing1, J. E. Gudjonsson2, A. Byrd1, S. Kang1
1Dermatology, Johns Hopkins University, Baltimore, Maryland, United States, 2Dermatology, University of Michigan, Ann Arbor, Michigan, United States

11:57 AM - 12:09 PM
Abstract # 676: Simultaneous targeting of MAPK and PI3K signaling via CK2 inhibition in melanoma
R. Perez-Lorenzo1, S. Stoyanov1, A. M. Christiano1, 2
1Dermatology, Columbia University, New York, New York, United States, 2Genetics and Development, Columbia University, New York, New York, United States
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Julius Stone Lectureship
This lecture is intended to promote the advancement of knowledge in immunology as it relates to the skin and skin disease.

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2000  Nigel Bunnett
2000  Ronald Crystal
2000  Ralph Steinman
2001  Roland Martin
2002  Gerald Crabtree
2004  Adrian Hayday
2005  Polly Matzinger
2006  Alexander Rudensky
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2009  Jamey Marth
2010  Rafi Ahmed
2011  Casey Weaver
2012  Rebecca Buckley
2014  Alice P. Pentland
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2016  John O'Shea
2017  Bruce Beutler
2019  Yasmine Belkaid
2020  Gabriel Nunez
2021  Ikiko Iwasaki

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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  Joumi Uitto
1988  Stuart Yuspaa
1989  Tung-Tien Sun
1990  Karen Holbrook
1991  Luis Diaz
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1997  Barbara Gilchrest
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2000  Thomas Luger
2001  Peter Elias
2002  Kathleen Green
2003  Masayuki Amagai
2004  Akira Takashima
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2007  George Cotsarelis
2008  Pierre Coulombe
2009  Angela Christiano
2010  W. H. Irwin McLean
2011  John McGrath
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2013  Andrzej Dlugosz
2014  Xiao-Jing Wang
2015  Hensin Tsao
2016  Anthony Oro
2017  Sarah Miller
2018  Valerie Horsley
2019  Michael Rosenblum
2020  Valentia Greco
2021  Daniel Kaplan

Eugene M. Farber Lectureship
This lecture is presented by an investigator whose work is relevant to expanding our insights into the pathophysiology and treatment of psoriasis.

2007  Brian Nickoloff
2008  Enno Christophers
2009  James T. Elder
2010  James Krueger
2011  Kevin Cooper
2012  Frank Nestle
2014  Joel Gelfand
2015  Christopher E.M. Griffiths
2016  Nicole Ward
2017  Jonathan Barker
2019  Nick Reynolds
2020  Wilson Liao
2021  April Armstrong
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http://www.tsid.org.tw/en
Korean Society for Investigative Dermatology (KSID)  
(Website: eksid.or.kr)

- Founded in 1991
- Regular member of ISID since 2016

### Activities
- Annual 2-day long scientific meeting in the spring
- Annual research camp in the fall
- Publication of the official bi-monthly journal, Annals of Dermatology (SCI-E), jointly with Korean Dermatological Association

### Leadership – Board of Directors (April 2021 – March 2023)

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“I am convinced that together we will advance scientific discovery, hasten its translation to advance the treatment of disease, and celebrate the joy of questioning and discovery.”

-- Russell P. Hall, III, MD

www.jidinnovations.org
The 2024 SID Annual Meeting will take place at:

DALLAS, TEXAS
Hilton Anatole
May 15 – 18, 2024
ISID 2023
1st International Societies for Investigative Dermatology Meeting

Meeting Dates: May 10 (Wed.) – 13 (Sat.), 2023
Venue: Keio Plaza Hotel Tokyo

2.2.1 Nishi-Shinjuku, Shinjuku-Ku, Tokyo, 160-8530 Japan

https://site2.convention.co.jp/isid2023/
For inquiries: isid2023@convention.co.jp