



SID ANNUAL MEETING
PORTLAND 22
MAY 18-21, 2022



**MEETING
PROGRAM**

2022 Annual Meeting Scientific Program Chairs, Committee Members, and Reviewers

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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.



www.sidnet.org

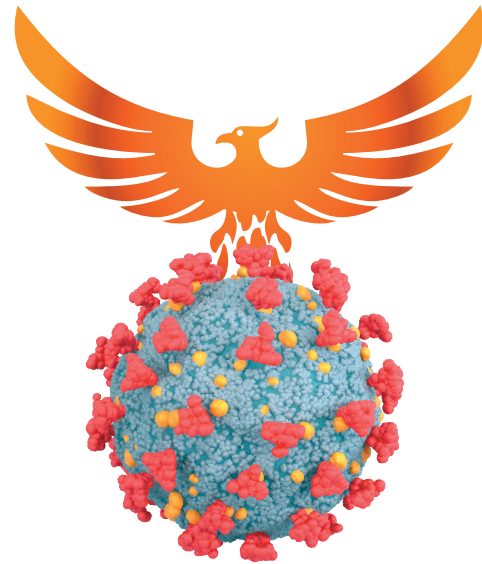


SID Presidents Welcome

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-Treasurers (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



Meeting-At-A-Glance

WEDNESDAY, MAY 18, 2022

6:30 AM — 7:00 PM

On-Site Registration

Holladay Entrance/Pre-Function A

6:30 AM — 7:30 AM

Future Leaders Retreat Breakfast:

By Invitation Only

B110-B112

7:00 AM — 1:00 PM

International Pachyonychia Congenita Consortium (IPCC) Symposium

A105-A106

7:30 AM — 2:00 PM

Future Leaders Retreat Program:

By Invitation Only

B113-B116

9:00 AM — 12:00 PM

International Psoriasis Council (IPC) Session

Oregon Ballroom 203

10:00 AM — 1:15 PM

International Eczema Council (IEC) Symposium

B117-B119

11:00 AM — 1:00 PM

American Acne & Rosacea Society (AARS) Scientific Symposium

C123-C124

1:30 PM — 2:30 PM

Translational Symposium I: Artificial Intelligence, Big Data, and Medical Informatics

Oregon Ballroom 201-202

2:30 PM — 3:30 PM

Translational Symposium II: Drug Reactions and Repurposing

Oregon Ballroom 201-202

3:30 PM — 5:00 PM

Clinical Scholars/Outcomes: Clinician-led Investigation and New Therapies

Oregon Ballroom 201-202

5:00 PM — 5:10 PM

President's Welcome: Lisa Beck, MD

Oregon Ballroom 201-202

5:10 PM — 5:15 PM

LEO Foundation Award

Oregon Ballroom 201-202

5:15 PM — 5:45 PM

A Tribute to Dr. Stephen I. Katz

Oregon Ballroom 201-202

5:45 PM — 6:15 PM

Stephen I. Katz, MD/PhD International Lectureship Award

Oregon Ballroom 201-202

6:30 PM — 8:00 PM

Welcome Reception

Oregon Ballrooms Foyer

THURSDAY, MAY 19, 2022

6:30 AM — 7:00 PM

On-Site Registration

Holladay Entrance/Pre-Function A

7:00 AM — 8:30 AM

National Institute of Allergy and Infectious Diseases (NIAID) Session

Oregon Ballroom 204

7:00 AM — 8:30 AM

SID Diversity, Equity, and Inclusion (DEI) Session

A105-A106

7:30 AM — 8:30 AM

Argenx Symposium

Oregon Ballroom 203

8:45 AM — 11:15 AM

Concurrent Mini-symposium 1: Clinical Research-Epidemiology and Observational Research

Oregon Ballroom 203

8:45 AM — 11:15 AM

Concurrent Mini-symposium 2: Epidermal Structure and Barrier Function

Oregon Ballroom 204

8:45 AM — 11:15 AM

Concurrent Mini-symposium 3: Genetic Disease, Gene Regulation, and Gene Therapy

A105-A106

8:45 AM — 11:15 AM

Concurrent Mini-symposium 4: Pharmacology and Drug Development

B113-B116

8:45 AM — 11:15 AM

Concurrent Mini-symposium 5: Translational Studies

C123-C124

8:45 AM — 11:15 AM

Concurrent Mini-symposium 6: Late-Breaking Abstracts

Oregon Ballroom 201-202

11:30 AM — 12:00 PM

Eugene Farber Lecture

Oregon Ballroom 201-202

12:00 PM — 1:00 PM

Antibiotics in Dermatology Symposium

Oregon Ballroom 203

12:00 PM — 1:00 PM

Bristol Myers Squibb Symposium

A105-A106

12:00 PM — 1:15 PM

UCB Symposium

Oregon Ballroom 204

12:00 PM — 1:15 PM

Lunch – On Your Own

12:15 PM — 1:15 PM

Krystal Biotech Symposium

Oregon Ballroom 201-202

1:15 PM — 1:45 PM

State-of-the-Art Plenary Lecture 1

Oregon Ballroom 201-202

1:45 PM — 2:45 PM

Plenary Session 1

Oregon Ballroom 201-202

2:45 PM — 3:15 PM

Break

3:15 PM — 3:45 PM

State-of-the-Art Plenary Lecture 2

Oregon Ballroom 201-202

3:45 PM — 4:15 PM

William Montagna Lecture

Oregon Ballroom 201-202

4:15 PM — 4:30 PM

Mary Kay Awards

Oregon Ballroom 201-202

4:30 PM — 6:30 PM

Poster Session 1/Happy Hour

Exhibit Hall A/A1/B

5:00 PM — 6:00 PM

ePoster Session 1 – Carcinogenesis and Cancer Genetics

Terminal 1 – A108

5:00 PM — 6:00 PM

ePoster Session 1 – Clinical Research - Sociobehavioral and HS Research

Terminal 2 – A107

5:00 PM — 6:00 PM

ePoster Session 1 (Innate Immunity, Microbiology, and Microbiome)

Terminal 3 – A109

5:00 PM — 6:00 PM

ePoster Session 1 (Skin, Appendages, and Stem Cell Biology)

Terminal 4 – B110

5:00 PM — 6:00 PM

ePoster Session 1 (Tissue Regeneration and Wound Healing)

Terminal 5 – B112

6:30 PM — 8:30 PM

Social Event

Oregon Convention Center (OCC)

Meeting-At-A-Glance

FRIDAY, MAY 20, 2022

6:30 AM — 7:00 PM

On-Site Registration
Holladay Entrance/Pre-Function A

7:00 AM — 8:30 AM

Irvin Blank Forum: Single Cell and Spatial Transcriptomics Technologies
Oregon Ballroom 203

7:00 AM — 8:30 AM

FDA Session: Advances in Topical Dosage Form Characterization and Measuring Drug Concentrations in the Skin
Oregon Ballroom 204

7:00 AM — 8:30 AM

Research in Cutaneous Surgery (RCS) Meeting
A105-A106

7:00 AM — 8:30 AM

Women's Dermatology Society (WDS) Meeting
B113-B116

7:00 AM — 8:30 AM

Pediatric Dermatology Research Alliance (PEDRA) Session
C123-C124

8:45 AM — 11:15 AM

Concurrent Mini-symposium 7: Carcinogenesis and Cancer Genetics
Oregon Ballroom 203

8:45 AM — 11:15 AM

Concurrent Mini-symposium 8: Clinical Research-Sociobehavioral and Health Services Research
Oregon Ballroom 204

8:45 AM — 11:15 AM

Concurrent Mini-symposium 9: Innate Immunity, Microbiology, and Microbiome
A105-A106

8:45 AM — 11:15 AM

Concurrent Mini-symposium 10: Pigmentation & Melanoma
B113-B116

8:45 AM — 11:15 AM

Concurrent Mini-symposium 11: Skin, Appendages, and Stem Cell Biology
C123-C124

8:45 AM — 11:15 AM

Concurrent Mini-symposium 12: Tissue Regeneration and Wound Healing
Oregon Ballroom 201-202

11:30 AM — 12:00 PM

Herman Beerman Lecture
Oregon Ballroom 201-202

12:00 PM — 12:15 PM

Stephen Rothman Award Ceremony
Oregon Ballroom 201-202

12:15 PM — 1:15 PM

Sanofi and Regeneron Symposium
Oregon Ballroom 204

12:15 PM — 1:15 PM

Estée Lauder Symposium
Oregon Ballroom 203

12:15 PM — 1:15 PM

Lunch – On Your Own

1:15 PM — 1:45 PM

State-of-the-Art Plenary Lecture 3
Oregon Ballroom 201-202

1:45 PM — 2:45 PM

Plenary Session 2
Oregon Ballroom 201-202

2:45 PM — 3:00 PM

Break

3:00 PM — 3:30 PM

Naomi Kanof Lecture
Oregon Ballroom 201-202

3:30 PM — 4:00 PM

State-of-the-Art Plenary Lecture 4
Oregon Ballroom 201-202

4:00 PM — 4:30 PM

Business Meeting of the Members
Oregon Ballroom 201-202

4:30 PM — 4:45 PM

American Skin Association Awards
Oregon Ballroom 201-202

4:30 PM — 6:30 PM

Poster Session 2/Happy Hour
Exhibit Hall A/A1/B

5:00 PM — 6:00 PM

ePoster Session 2 – Adaptive and Auto-Immunity
Terminal 1 – A108

5:00 PM — 6:00 PM

ePoster Session 2 – Clinical Research - Epidemiology and Observational Research
Terminal 2 – A107

5:00 PM — 6:00 PM

ePoster Session 2 (Epidermal Structure and Barrier Function)
Terminal 3 – A109

5:00 PM — 6:00 PM

ePoster Session 2 (Genetic Disease, Gene Regulation, and Gene Therapy)
Terminal 4 – B110

5:00 PM — 6:00 PM

ePoster Session 2 (Translational Studies)
Terminal 5 – B112

7:00 PM — 8:30 PM

American DermatoEpidemiology Network (ADEN) Meeting
A105-A106

7:00 PM — 10:00 PM

American Hair Research Society (AHRS) Meeting
B113-B116

7:00 PM — 10:00 PM

National Psoriasis Foundation (NPF) Meeting
C123-C124

7:00 PM — 9:30 PM

Young Investigator Collegiality Reception:
Ticketed Event: Pre-registration required. Space is limited. Please purchase this at the time of registration.
Hyatt Regency at the Oregon Convention Center Hotel

SATURDAY, MAY 21, 2022

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

8:30 AM — 9:30 AM

Plenary Session 3
Oregon Ballroom 201-202

9:45 AM — 12:15 PM

Concurrent Mini-symposium 13: Adaptive and Auto-Immunity
Oregon Ballroom 203

9:45 AM — 12:15 PM

Concurrent Mini-symposium 14: Cell-Cell Interactions in the Skin
Oregon Ballroom 204

9:45 AM — 12:15 PM

Concurrent Mini-symposium 15: Clinical Research - Interventional Research
A105-A106

9:45 AM — 12:15 PM

Concurrent Mini-symposium 16: Photobiology
B113-B116

9:45 AM — 12:15 PM

Concurrent Mini-symposium 17: Skin of Color
C123-C124

Associate Groups Meeting-At-A-Glance

WEDNESDAY, MAY 18, 2022

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 - 1:15 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

7:00 AM - 8:30 AM
Pediatric Dermatology Research Alliance (PeDRA)
C123 - C124

7:00 AM - 8:30 AM
Research in Cutaneous Surgery (RCS)
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

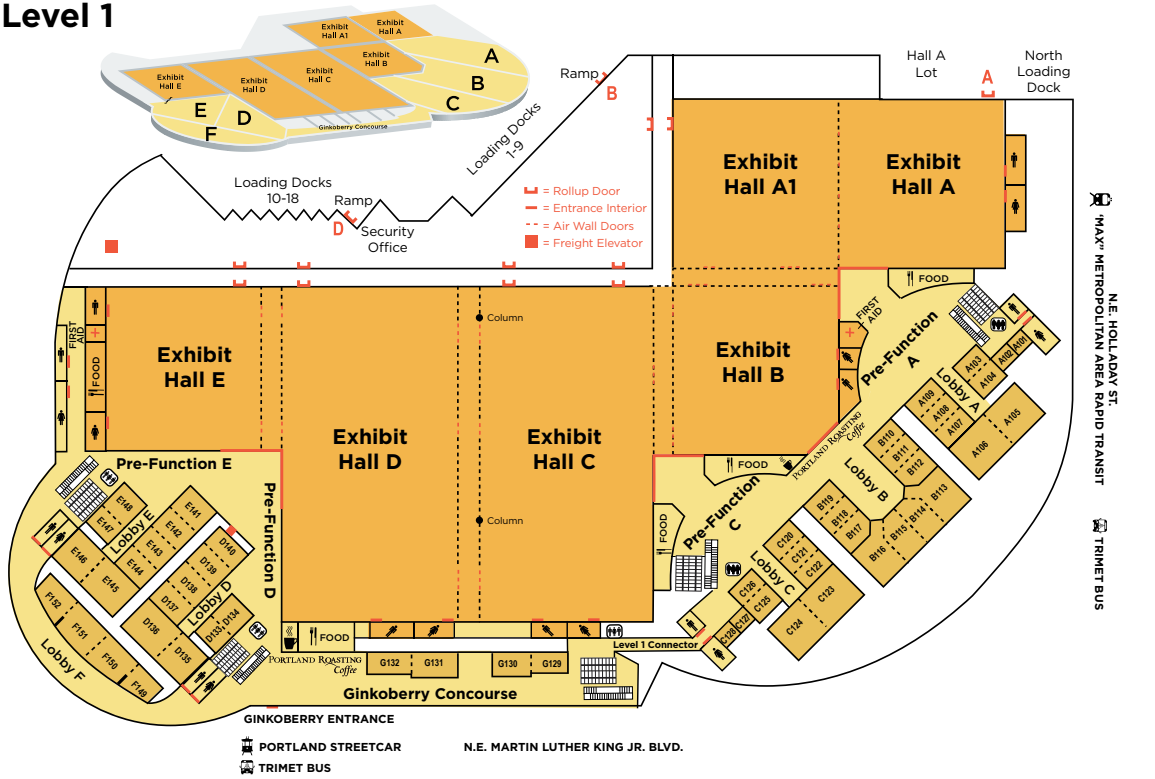
7:00 PM - 10:00 PM
American Hair Research Society (AHRS)
Scientific Meeting and Annual General Meeting
B113 - B116

7:00 PM - 10:00 PM
National Psoriasis Foundation (NPF)
Research Reception
C123 - C124

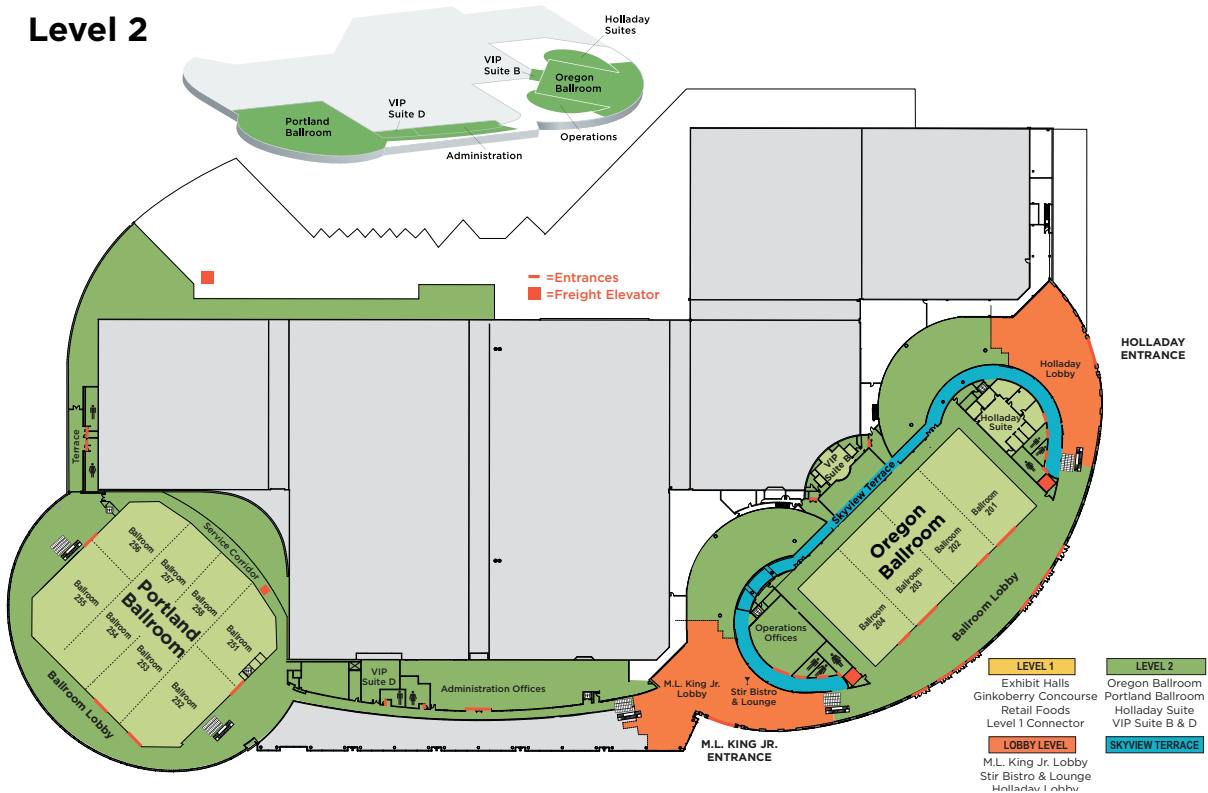


Convention Center Maps

Level 1



Level 2



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 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.

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 long 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

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

FACULTY LISTING

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

SUMMARY OF FACULTY DISCLOSURE/ CONFLICT RESOLUTION

Staff and Content Validation Reviewer Disclosure

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

Resolution of Conflicts of Interest

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

UNAPPROVED USE DISCLOSURE STATEMENT

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

DISCLAIMER

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

INSTRUCTIONS ON HOW TO RECEIVE CREDIT

In order to receive CME credit, participants complete the CME evaluation. must sign-in, review the CME information (accreditation, learning objectives, faculty disclosures, etc.) and attend the CME activity. 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 (ACCME) 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.

Planning Committee / Speaker Declarations

DISCLOSURE POLICY

As an organization accredited by the ACCME, the Case Western Reserve University School of Medicine CME Program requires that the content of CME activities and related materials provide balance, independence, objectivity, and scientific rigor. All faculty, planners, and others in a position to control continuing medical education content are required to disclose all financial relationships with ineligible companies within the past 24 months regardless of the amount and their view of the relevance of the relationship to the education. **Ineligible companies** are organizations whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients. Faculty (authors, presenters, speakers) are encouraged to provide a balanced view of therapeutic options by utilizing either generic names or other options available when utilizing trade names to ensure impartiality.

The Case Western Reserve University School of Medicine CME Program has implemented a mechanism to identify and resolve all conflicts of interest prior to the activity. The intent of this policy is to identify potential conflicts of interest so participants can form their own judgments with full disclosure of the facts. Participants are asked to evaluate whether the speaker's outside interests reflect a possible bias in the planning or presentation of the activity.

None of the Planning Committee Members* and speakers listed below for this educational activity have relevant financial relationship(s) to disclose with ineligible companies whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients. **Plans to discuss unlabeled/investigational uses of a commercial product and will disclose this to the audience.

Khashayar Afshari, MD MPH
Fahad Ahmed, BA
**Tomoko Akaike, MD
Watcharee Amornpaibroj, MD
*Niroshana Anandasabapathy, MD, PhD
Brandon Ansbro, BA
Kiyoshi Ariizumi, PhD
Scott Atwood, PhD
Stanislav Avdieiev, PhD
**Marjan Azin, MD
Wenelia Baghoomian
Swarna Bale, PhD
Xiaomin Bao, PhD
Grant Barber, BS
Leandra Barnes, MD
Tyler Beck
Travis Benson, BS
Navaneetha Krishnan Bharathan, PhD.
Allison Billi, MD, PhD
Dauren Biyashev
Joshua Bloomstein, BS
*Vladimir Botchkarev, MD, PhD
Irina Budunova, MD/PhD
Zhuo Ran Cai, MD
Gina Calco, PhD
Cheryl Cameron, PhD
Kellen Cavagnero, BS
**Jungsoo Chang, BSE

Hao Chang, PhD
Yuqian Chang, MD
Zeyu Chen, Bachelor
Henry Chen, BS
Guodong Chen, Ph.D.
Mei Chen, PhD
Jeremy Cheret, PhD
Brenda Chiang, BA
Felix Chin
Rex Chisholm, PhD
Hélène Choquet, PhD
**Edward Cowen, MD, MHSc
Lindsey Criswell, MD, MPH, DSc
Yanhong Cui, PhD
Yilei Cui, PhD
Teruki Dainichi, MD, PhD
Joshua Dan, BA
Nick Dand, PhD
Cristina de Guzman Strong, PhD
Isabella de Vere Hunt, MD
Mitchell Denning, PhD
Bhavuk Dhamija, PhD
Miqdad Dhariwala, PhD
Tatsuya Dokoshi, MD, PhD
Robert Dorschner, MD
Lara Drake, BA
Ryan Driskell, Ph.D.
Janin Edelkamp, PhD
Sarah El-Heis, MRCP, DM
James Elder, MD, PhD
Christoph Ellebrecht, MD
*Elena Ezkhova, PhD
Xiyang Fan, PhD
Robert Feehan, PhD, BS
Maria Forni, PhD
Nicholas Frazzette, MS
Alex Fu, Intended B.S.
Keitaro Fukuda, MD, PhD
Joshua Gallop, BS
Clarisse Ganier, PhD
Priyanka Ghosh, PhD
Lisa Godsel, PhD
Sarah Gold, BA
Jeanmarie Gonzalez, BA
Fernanda Gonzalez, B.S
Alexe Grenier, PhD candidate
**Nicholas Gulati, MD, PhD
Rupali Gund, PhD
Daniel Haensel, PhD
Brianna Hill, BS
Natasha Hill, PhD
Alicia Ho, BS
Qingrong Huang, PhD
Charles Huang, BS
Sixia Huang, PhD
Eun Young Jeon, PhD
Andrew Ji, MD
Anna Jussila, PhD
**Utako Karigane, MD
Michelle Kerns, MD
Jin Yong Kim, MD, PhD
Daniel Kim, PhD
Stephen Kirchner, B.S.
*Heidi Kong, MD
Yana Kost, BA
*Daniela Kroshinsky, MD
Jean Krutmann, MD
Thomas Kupper, MD
Nina Kuprasertkul, B.S.
Jordan Lamb, BS
Charles Lau
Thomas Le, MPH
Daniel Lewis, M.D.
Meng-Yen Li, PhD
Yubin Li, PhD
Youngkyoung Lim, MD, PhD

Eleni Linos, MD, MPH
Shuaitong Liu, MS
Vanessa Lopez-Pajares, PhD
Markham Luke, MD PhD
Yen Luu, BA
Alexandra Maldonado López, BSc
Ruslan Medzhitov, PhD
Ariana Moreno, BS
Danielle Mustin, B.S., M.Eng.
Keisuke Nagao, M.D., Ph.D.
Haley Naik, MD MHSc
Yoshiyuki Nakamura, MD, PhD
Subhashree Nayak, PhD
Khang Nguyen, MD
Felicite Noubissi, PhD
Aleksandar Obradovic, PhD
Dennis Oh, MD, PhD
**Tomonori Oka, M.D., PhD
**Utako Okata-Karigane, MD
Alan O'Neill, PhD
Andrew Overmiller, PhD
Catherina Pan, BA
Alberto Pappalardo, M.D.
Dong Jun Park, PhD
Akash Patel, BS
Ekshika Patel, BS
Rolando Perez-Lorenzo, PhD
Evgeniya Petrova, PhD
Taihao Quan, MD, PhD
Sam Raney, PhD
Sarem Rashid, BS
Michael Roberts, PhD DSc
Tithi Roy, MS
*Julie Ryan Wolf, PhD, MPH
Gabriel Santos, BA
Mrinal Sarkar, PhD
Markus Schober, PhD
Pranali Shah, PhD
Jessica Shannon, PhD
Jessica Shiu, MD, PhD
Dawn Siegel, MD
Frank Sinner, PhD
Jos Smits, PhD
Jodi So, BA
Leila Sorrells, Biomedical Engineering BS, MS
Richard Straker, MD
Mary Sun, MD
Takahiro Suzuki, MD, PhD
Yoko Suzuki-Horiuchi, PhD
Shira Tabachnick-Cherny, PhD
Lisa Tachiki, MD
Kang-Yu Tai, PhD candidate
Shota Takashima, MD PhD
Kimberly Tang, BA
Matthew Taylor, BA
Mark Taylor, PhD
Edem Tcheignon, BS
*Marjana Tomic-Canic, PhD
Julia Tomtschik, BS
Marta Torregrossa, PhD student
Megan Tran, BS
Nicole Trepanowski, BS
Kenneth Trieu, BS
Pavin Trinh, BS
Aayushi Uberoi, PhD
Kelsey van Straalen, MD, PhD
Thomas Vazquez, MD
Amanda Walker, BS
Gaofeng Wang, MD, PhD
Wenxia Wang, MS
Richard Wang, MD PhD
Yoshinori Watanabe, MD, PhD
Angela Wei, BS
Haoyang Wei, MS
*Wendy Weinberg, PhD
Ellen White, BS

Planning Committee / Speaker Declarations

Kamina Wilkerson, MD Candidate
 Kirsten Wong, BS, MS
 Sijie Wu, PhD
 Yang Xu, BS, MS
 Seungwon Yang, PhD
 Christine Youn, MS/ PhD candidate
 Soundos Youssef, MD
 **Benjamin Yu, MD PhD
 Sangwon Yun, BS
 Lauren Zawacki, BS
 Zhaolin Zhang, PhD
 Xinyuan Zhang, Master
 Amanda Zhou, BS

The following planning committee members* and speakers for this educational activity have relevant financial relationship(s) to disclose with ineligible companies whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients. All of the relevant financial relationships listed have been mitigated. **Plans to discuss unlabeled/investigational uses of a commercial product and will disclose this to the audience.

**Milan Anadkat, MD, Consulting Fee: Novocure, Inc., Springworks, BioLinq, Boehringer-Ingelheim, Protagonist Therapeutics, Innovaderm, OnQuality, UCB Biopharma, Abbvie, Eli Lilly
 Evgeny Berdyshev, Ph.D., Grant Research or Support: LEO Pharma, Sanofi
 **Anna Bruckner, MD, MSCS, Grant Research or Support: Phoenix Tissue Repair, Castle Creek Pharma, Phoenicis, Amryt Pharma
 Jeffrey Cheng, MD, PhD, Grant Research or Support: LEO Pharma, Sun Pharma, Sanofi, Enable Medicine
 *Jaehyuk Choi, MD, PhD, Advisor: Kyowa Kirin
 *Benjamin Chong, MD, Paid consultant: Viela Bio, Beacon Bioscience, Daavlin Corporation, 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.
 **Rachael Clark, MD, PhD, Grant Research or Support: Galderma, Dermavant; Consulting Fee: AnaptysBio
 Jarish Cohen, MD, PhD, Consulting Fee: Trex Bio
 Sherrie Divito, MD, PhD, Consulting Fee: Adaptimmune, MEI Pharma, Sanofi
 Kristina Duffin, MD, MS, Grant Research or Support: Abbvie, Amgen; Advisor: Abbvie, Amgen, Lilly, Pfizer, BMS, UCB, Janssen, Novartis, Boehringer-Ingelheim
 Conor Evans, PhD, Honoraria: Pfizer
 Rubén A. Ferrer, M.D., Ph.D., Grant Research or Support: Nanostring
 Mahmoud Ghannoum, PhD, Grant Research or Support: Almirall Pharma, Mycovia, Scynexis
 Elena Goleva, PhD, Grant Research or Support: Sanofi
 Melinda Gooderham, MSc MD FRCP, Grant Research or Support: Abbvie, Amgen, Arcutis, AslanMG; Investigator, speaker, consultant, or advisory board member for AbbVie, Amgen, Akros, Arcutis, Aslan, Bausch Health, Bristol Myers Squibb, Boehringer Ingelheim, Celgene, Dermavant, Dermira, Eli

Lilly, Galderma, GSK, Janssen, Kyowa Kirin, MedImmune, Merck, Meiji, Novartis, Nimbus, Pfizer, Regeneron, Sanofi Genzyme, Sun Pharmaceuticals, and UCB Pharma.
 Richard Granstein, MD, Grant Research or Support: Pfizer, Galderma, Leo Pharma; Membership on Advisory Committee or Review Panels: Elysium Health
 *Johann Gudjonsson, MD, PhD, Advisor: Eli Lilly, Janssen, BMS; Grant Research or Support: Eli Lilly, Janssen, Almirall, BMS, Kyowa Kirin; Advisor: Almirall, Sanofi
 **Emma Guttman-Yassky, MD, PhD, Grant Research or Support: Amgen, Pfizer, LEO Pharma; Research funds (grants paid to the institution): Amgen, AnaptysBio, Asana Biosciences, AstraZeneca, Boehringer-Ingelheim, Cara Therapeutics, Celgene, Eli Lilly, Innovaderm, Kyowa Kirin, Leo Pharma, Novartis, Pfizer, Regeneron Pharmaceuticals; Consultant: Abbvie, Almirall, Amgen, Arena, Asana Biosciences, Aslan Pharmaceuticals, AstraZeneca, Boehringer-Ingelheim, Bristol-Myers Squibb, Cara Therapeutics, Celgene, Connect Pharma, Eli Lilly, EMD Serono, Evidera, Galderma, Ichnos 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, Vertex Biosciences.
 Nikolas Haass, MD/PhD, Independent Contractor: InterK Sydney
 Matthew Hangauer, Ph.D., Consulting Fee: Ferro Therapeutics
 *Tissa Hata, MD, Independent Contractor (included contracted) Bristol-Myers Squibb, Pfizer, Inc.
 **Alain Hovnanian, MD, PhD, Membership on Advisory Committee or Review Panels: Bridgebio, Boehringer, Azitra; Grant Research or Support: Kamari
 *Michael Howell, PhD, Salary: DermTech; Ownership Interest (e.g. stocks, stock options or other): Incyte
 Mayumi Ito, PhD, Royalties or Patent Beneficiary/Follica
 Susan Kaech, PhD, 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, GSK, BMS, Amgen, AstraZeneca
 Shawn Kwatra, MD, Consulting Fee: Abbvie, Celldex Therapeutics, Galderma; Grant Research or Support: Galderm; Advisory Board Member/Consultant: Abbvie, Celldex Therapeutics, Galderma, Incyte Corporation, Pfizer, Regeneron Pharmaceuticals, and Kiniksa Pharmaceuticals; Grant Funding: Galderma, Pfizer, and Kiniksa Pharmaceuticals.
 Chih-Hung Lee, MD, PhD, Consulting Fee: Sanofi, Novartis, Abbvie, Pfizer, Janssen Pharmaceuticals, Roche
 Noah Levit, MD, PhD, FAAD, Employment: Regeneron Pharmaceuticals; Stocks or stock options, excluding diversified mutual funds: Regeneron Pharmaceuticals
 David Margolis, MD PhD, Membership on Advisory Committee or Review Panels: Pfizer, Janssen, Insmad

Takeshi Matsui, PhD, Grant Research or Support: KOSE Corporation
 **Karen McGuire, PhD, Ownership: BioMendics, LLC
 Ian Odell, MD, PhD, Grant Research or Support: AbbVie; Consulting Fee: Rheos Medicines, Fortress Biotech, Inc
 Amy Paller, MD, Grant Research or Support: AbbVie, Eli Lilly, Incyte, Regeneron; Also investigator for Janssen, KrystalBio, and UCB. Abbvie, Acrotech, Almirall, Amgen, Amryt, Arcutis, Arena, Azitra, BioCryst, BiomX, Bridgebio, Bristol Myers Squibb, Castle Biosciences, Catawba, Eli Lilly, Exicure, Gilead, Incyte, Janssen, Johnson & Johnson, Kamari, Leo, Novartis, OM Pharma, Pfizer, Pierre Fabre, RAPT, Regeneron, Sanofi/Genzyme, Seanergy, UCB; Consultant with honorarium: AbbVie, Abeona, Bausch, Galderma, Novan – Data Safety Monitoring Board.
 Elizabeth Phillips, MD, Consulting Fee: Janssen, Astra Zeneca, Verve, Biocryst, Regeneron, Vertex (consulting fee relationship ended); Consulting Fee and Royalties: Uptodate (relationship ongoing)
 Todd Ridky, MD, PhD, Advisor: Linnaeus Therapeutics
 Mads Roepke, PhD, Employment: LEO Pharma A/S
 Kavita Sarin, MD PhD, Advisor: NFlection Therapeutics; Consulting Fee: Phoenicis Therapeutics, DermBiont, Aeovian
 Cory 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, Amgen, Arena Pharmaceuticals Aslan Pharma, Benevolent AI Bio Limited "BAI", BiomX Ltd, Bluefin Biomedicine Inc, Boehringer-Ingelheim, Boston Consulting Group, CollectiveAcumen, LLC (CA), Coronado, Dermira, Eli Lilly, Evidera, ExcerptaMedica, Galderma, GlaxoSmithKline, Forte Bio RX, Incyte Dermatologics, Janssen, Kyowa Kirin Pharmaceutical Development, Leo Pharm, Medscape LLC, Merck, Novartis, Ortho Galderma, Pfizer, Physicians World LLC, Pierre Fabre Dermo Cosmetique, Regeneron, Roivant, Sanofi- Genzyme, SPARC India, Trevi therapeutics, WebMD and Valeant; Grant Research or Support: Arcutis
 *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
 *Kenneth Tsai, MD, PhD, Membership on Advisory Committees or Review Panels, Board Membership, etc.: NFlection Therapeutics, Sun Pharma, Merck and Company, Inc.
 Chirag Vasavda, PhD, Paid Consultant: AstraZeneca; Stocks or stock options, excluding diversified mutual funds: AstraZeneca

Current as of May 13, 2022

2022 Annual Meeting Travel Grant Awardees

Alex Fu
Amanda Walker
Catherina Pan
Charles Huang
Henry Chen
Joshua Dan
Pavin Trinh
Richard Straker
Yen Luu
Zhuo Ran Cai
Matthew Hangauer
Rolando Perez-Lorenzo
Alicia Ho
Eun Young Jeon
Jessica Shannon
Meng-Yen Li
Dong Jun Park
Elodie Labit
Joshua Gallop
Leila Sorrells
Maria Fernanda Forni
Jin Yong Kim
Khashayar Afshari
Qingrong Huang
Takahiro Suzuki
Thomas Vazquez
Anna Jussila
Bhavuk Dhamija
Marta Torregrossa
Navaneetha Krishnan Bharathan
Yang Xu
Zeyu Chen
Sarah El-Heis
Utako Okata-Karigane
Alexe Grenier
Amanda Zhou
Daniel Kim
Robert Feehan
Yubin Li
Angela Wei
Chirag Vasavda
Danielle Mustin
Fahad Ahmed
Gabriel Santos Malave
Grant Barber
Jordan Lamb
Matthew Taylor
Megan Tran
Gina Calco
Jos Smits

Alexandra Maldonado López
Ekshika Patel
Mark Taylor
Nick Dand
Qisi Sun
Shota Takashima
Marjan Azin
Tithi Roy
Tyler Beck
Ariana Moreno
Felix Chin
Joshua Bloomstein
Pranali Shah
Tomonori Oka
Yana Kost
Brianna Hill
Sangwon Yun
Yoko Suzuki-Horiuchi
Akash Patel
Brenda Chiang
Charles Lau
Daniel Lewis
Julia Tomtschik
Kamina Wilkerson
Leandra Barnes
Nicole Trepanowski
Sarah Gold
Aayushi Uberoi
Christine Youn
Ellen White
Hitoshi Terui
Jeanmarie Gonzalez
Stephen Kirchner
Watcharee Amornpairoj
Yoshiyuki Nakamura
Hunter Pyle
Jalal Maghfour
Jennifer Laborada
Ola Atef
Olesya Plazyo
William Shipman
Kellen Cavignero
Miqdad Dhariwala
Clarisse Ganier
Thomas Le
Shuaitong Liu
Vanessa Lopez-Pajares
Angel Pagan
Angelo Antiguas
Annelise Colvin

Antonio Ji-Xu
Ariel Knowles
Astrid Guevara
Bingjie Li
Camila Ortiz
Caridad Infante
Christopher George
Christopher Madden
DeAnna Diaz
Denisse Cristina Porras Fimbres
Douglas Lebo
Eduardo Michelen-Gómez
Ethiopia Getachew
Fabio Frech
Geneviève Rioux
Inga Saknite
Jacqueline Ike
Jacqueline Kim Nguyen
Jazzmin Williams
Jessika Sanz
Jianjun Yan
Jose-Marc Techner
Josephine Hai
Ladonya Jackson-Cowan
Liliana Montoya
Loren Hernandez
Matthew Olagbenro
N. Harvey
Netsanet Gebeyehu
Nga Nguyen
Nikita Wong
Qingyang Li
Rachael Wasikowski
Rebecca Verpile
Remy Vu
Rowanne Ali
Sabrina Dahak
Samuel Boateng
Sophie Morin
Terri Shih
Touraj Khosravi-Hafshejani
Vanessa Nava
Victoria Harbour
Yacine Sow
Maya Collins
Marwa Zohdy

2022 SID Future Leaders Retreat Attendee

Khashayar Afshari, MD
University of Massachusetts
Chan Medical School

Corbett Berry, MD, PhD
University of Pennsylvania

Samuel Boateng, Bpharm, Mphil, PhD Candidate
University of Louisiana at Monroe

Kimberly Breglio MD, PhD
Duke University Medical Center

Alyssa Calder MD, MS
Thomas Jefferson University

Kellen Cavagnero, PhD Candidate/ Student
University of California, San Diego

Yutein Chung, PhD
University of Michigan

Jarish Cohen, MD, PhD
University of California, San Francisco

Miqdad Dhariwala, PhD
University of California, San Francisco

Xintong Dong, PhD
Johns Hopkins University School
of Medicine

Maria Fernanda Forni, PhD
Yale University School of Medicine

Clarisse Ganier, PhD
King's College London

Lindsay Gunnell, MD
University of Washington

Jordan Harris, MD, PhD Candidate
University of Pennsylvania

Matthew Hedberg, MD, PhD
University of Pennsylvania

Brianna Hill PhD Candidate/Student
Thomas Jefferson University

Alicia Ho, PhD Candidate/Student
Mount Sinai

Monica Janeczek, MD
Mayo Clinic Arizona

Andrew Johnston, MD, PhD
Yale University School of Medicine

Adam Jorgensen, MD, PhD
Wake Forest Institute for
Regenerative Medicine

Olivia Justynski PhD Candidate/ Student
Yale University School of Medicine

Shadi Khalil MD, PhD
University of California, San Diego

Yoo Jung Kim, MD
Northwestern University

Stephen Kirchner, PhD Candidate/ Student
Duke University Medical Center

Nikolai Klebanov, MD
Harvard Medical School, Massachusetts
General, Brigham and Women's

Jason Klein, MD, PhD
University of Texas Southwestern
Medical Center

Ernest Lee MD, PhD
University of California, San Francisco

Edward Li, MD, PhD
Northwestern University

Jennifer Lo, MD, PhD
Harvard Medical School, Massachusetts
General, Brigham and Women's

Nicholas Love, MD, PhD
University of California, Davis

Rachel Marchalik, MD
Johns Hopkins University School of
Medicine

Aubriana McEvoy, MD
Washington University, Saint Louis

Mary Moran, PhD Candidate/Student
University of Rochester

Tomonori Oka, MD, PhD
Massachusetts General Hospital

Elisabeth Pedersen, MD, PhD
University of Michigan

Ge Peng, PhD Candidate/Student
Juntendo University Graduate School
of Medicine

Tithi Roy, PhD Candidate/Student
University of Louisiana at Monroe

Joseph Sarhan, MD, PhD
Yale University School of Medicine

Nishad Sathe, MD
University of Minnesota

Pranali Shah, PhD
Brigham and Women's Hospital

Jessica Shannon , PhD Candidate/ Student
Duke University Medical Center

William Shipman, MD, PhD
Yale University School of Medicine

Neha Shukla, MBBS BSc
Emory University

Roopesh Singh, PhD
Vanderbilt University Medical Center

Jeffrey Smith, MD, PhD
Harvard Medical School/Mass General
Brigham

Ashley Snyder, PhD Candidate/ Student
University of Utah

Shira Tabachnick-Cherny, PhD
University of Washington

Erin Theisen, MD, PhD
Harvard Medical School/Mass General
Brigham

Rachel Waldemer-Streyer, MD, PhD
University of California, San Francisco

Diana Wang, MD, PhD
University of California, Los Angeles

Leo Wang, MD, PhD
University of Pennsylvania

Ellen White, MD, PhD Candidate
University of Pennsylvania

Brandyn White, PhD Candidate/ Student
Howard University

Jiang Zhang, PhD
Brigham and Women's Hospital

Haihan Zhang, PhD Candidate/ Student
University of Michigan

Abstract Presentation Information

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

ePOSTER 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.

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TABLETOP EXHIBITORS

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

WEDNESDAY, MAY 18, 2022

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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

OPEN TO ALL MEETING ATTENDEES
NON-CME SESSION

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

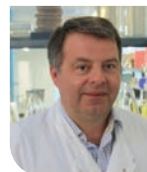
Edel O'Toole MD, PhD, FRCPI, FRCP

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



Neil 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 Dermatol ogy
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



Pachyonychia Congenita Project

Fighting for a cure. Connecting & helping patients. Empowering research.

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



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



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



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



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



11:50 AM

DISCUSSION/WRAP UP

C. David Hansen, MD

Dermatology Professor, University of Utah and PI of the International Pachyonychia Congenita Research Registry



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

12:00 PM

Lunch for pre-registered attendees



11:05 AM

The Feldan Shuttle: Leading The Future Of Intracellular Delivery

Vincent Ménard, PhD, MBA, CFA

VP Finance & Business Development, Feldan Therapeutics

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



Advancing Knowledge
Enhancing Care

International Eczema Council (IEC) Symposium

WEDNESDAY, MAY 18, 2022

10:00 AM – 1:15 PM

B117-B119

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. (25min + 5 min questions)

10:40 – 11:10 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. (25min + 5 min questions)

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. (25min + 5 min questions)

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. (25min + 5 min questions)

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

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OPEN TO ALL MEETING ATTENDEES
NON-CME SESSION

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

12:00 PM

Topical Ivermectin Modulates the Skin Microbiome and Improves Symptoms of Rosacea,

Anna M. Butcher, BS, University of Toledo College of Medicine and Life Sciences, Toledo, Ohio, USA

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 Osuji, 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.



OPEN TO ALL MEETING ATTENDEES
CME CREDITS: 1.0

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

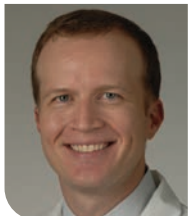
Dr. Billi received her MD and PhD at the University of Michigan, where she also completed an integrated dermatology residency and research fellowship. Her research focuses on understanding immunological and genetic mechanisms of inflammatory skin disorders, with a special interest in sex-biased autoimmune 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/D.Sc., 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.



President's Welcome

Lisa Beck, MD, University of Rochester

WEDNESDAY, MAY 18, 2022

5:00 PM – 5:10 PM

OREGON BALLROOM 201-202



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 URM 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 URM 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 URM 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 its 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 out-standing 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](https://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 pharmaceutical 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.



LEO FOUNDATION

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
NIH: 1978 – 1981 & 1985 – 1994.



Peggy Crawford, MD
University of California, San Francisco
NIH: 1974 – 1975.



Georg Stingl, MD
Medical University of Vienna
NIH: 1977-1978, 1985-1986



Russell Hall, MD
Duke University
NIH: 1978-1981, 1982-1984



Adela Rambí G. Cardones, MD/MHSc
Duke University
NIH: 2001 – 2005.

Donate to the
Dr. Stephen I Katz Lecture Fund
<https://tinyurl.com/bde6a7u8>

OPEN TO ALL MEETING ATTENDEES
CME CREDITS: .5

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 immunodermatologists 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.



THURSDAY, MAY 19, 2022

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THURSDAY



Membership just became easier.

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

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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.

Enjoy all the benefits of a SID membership like the annual subscription to *The Journal of Investigative Dermatology*, a \$500 discount on JID Innovations publication fees, invitations to educational programs and social events, eligibility for SID grants and fellowships, our online video library, exclusive job postings, and discounts on Annual Meeting Registration. So, when you are ready to renew your membership, make these changes to save money and make your membership even easier to manage. If you have any questions do not hesitate to call the SID office at 216-579-9300 ext. 301 or email flanagan@sidnet.org.

To update, change or modify your membership status, login to your membership account at:

www.sidnet.org/membership/login

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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)
- Total for 3-year membership = \$800
(a \$100 savings in total)

SAVE UP TO
\$100



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.



"Novel Regulators of Filaggrin Expression – Insights from the MPAATCH Cohort", Gurjit "Neeru" Hershey, MD, PhD, Director of the Division of Asthma Research, Cincinnati Children's Hospital, Cincinnati, OH. Dr. Khurana Hershey is an endowed Professor of Pediatrics at Cincinnati Children's Hospital and the University of Cincinnati College of Medicine and Director of the Division of Asthma Research. She received her medical and doctorate degrees from Washington University School of Medicine in St. Louis, Missouri and completed a pediatric residency and an allergy/immunology fellowship at St. Louis Children's Hospital. She is a physician scientist who has devoted her career to health-related research using a combination of epidemiologic, basic, translational, and clinical research and omics approach to answer fundamental questions regarding the pathogenesis of childhood allergic disorders and the mechanisms of the atopic march including the roles of race and ancestry.



"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

OPEN TO ALL MEETING ATTENDEES
NON-CME SESSION

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.

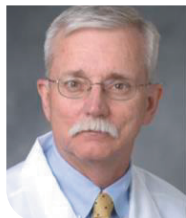
Associate Professor and Clinic Director: Bullous Diseases Department of Dermatology, Stanford University School of Medicine



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. Gusev², K. Reynolds¹, S. Kwatra³, Y. Semenov¹

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. Marron³, M. Clark⁴, D. B. DiBenedetti⁵, L. Nelson⁵, J. Chao⁶, A. Bansal⁶, Y. Sun⁶, C. Chuang⁷, Z. Wang⁶

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, ⁶Regeneron, Tarrytown, New York, United States, ⁷Sanofi, Cambridge, Massachusetts, United States

9:21 AM - 9:33 AM

Abstract # 181: Development of systemic lupus in patients with cutaneous lupus: A comparison of three classification criteria

A. Walker¹, S. Black¹, F. Walocko¹, X. Li², 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

Y. T. Luu, Q. Luo, M. Horner, M. Shiels, E. Engels, M. Sargen

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. Pan^{1,2}, K. Yang^{1,3}, C. B. Lau^{1,4}, G. Zhou¹, V. Nambudiri, MD, MBA^{1,2}

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. Hippe¹, 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. Huang, 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-Fitch², K. Torok², H. Jacobe¹

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. Dan^{1,3}, J. Concha^{1,3}, G. Sprow^{1,3}, R. Feng², M. Afarideh^{1,3}, N. Kodali^{1,3}, T. Vazquez^{1,3}, D. Diaz^{1,3}, B. White⁴, V. Werth^{1,3}

¹Derm, PSOM at UPENN, Phil, Pennsylvania, United States, ²Biostats and Epi, PSOM at UPenn, Phil, Pennsylvania, United States, ³Derm, Corporal Micheal J. Cresenz VAMC, Phil, Pennsylvania, United States, ⁴Corbus Pharmaceuticals, Norwood, Massachusetts, United States

OPEN TO ALL MEETING ATTENDEES

CME CREDITS: 2.5

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

Presiders: Rui Yi, PhD, Brian Capell, MD/PhD

8:45 AM - 8:57 AM**Abstract # 449: Investigating the role of ferroptosis in epidermal differentiation****N. Kuprasertkul^{1,2}, S. Ego^{1,2}, J. Zou¹, A. Anderson¹, C. L. Simpson¹, K. Ge³, J. T. Seykora^{1,2}, B. C. Capell^{1,2,4}**

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, ⁴Genetics, University of Pennsylvania, Philadelphia, Pennsylvania, United States

8:57 AM - 9:09 AM**Abstract # 448: Physiological function of krox20 (Egr2) in epithelial stem cells****E. J. Tchegnon^{1,2}, C. Liao^{1,3}, E. Ghotbi¹, L. Q. Le^{1,4,5}**

¹Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, ²Genetics, Development and Disease Graduate Program, 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, 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. Fukuda^{1,2}, Y. Furuichi^{1,2}, T. Miyano³, R. J. Tanaka³, T. Matsui^{1,4}, M. Amagai^{1,2}**

¹Skin Homeostasis, RIKEN-IMS, Yokohama, Japan, ²Dermatology, Keio University School of Medicine, Shinanomachi, Japan, ³Bioengineering, Imperial College London, London, United Kingdom, ⁴Evolutionary Cell Biology of the Skin, Tokyo University of Technology, Hachioji, Japan

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. Qu², F. Pardow^{1,2}, D. Rodijk-Olthuis¹, I. van Vlijmen-Willems¹, S. van Heeringen², P. Zeeuwen¹, J. Schalkwijk¹, H. Zhou^{2,3}, E. van den Bogaard¹**

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. Matsui^{1,2}, M. Urabe², K. Fukuda^{2,3}, M. Amagai^{2,3}**

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

9:57 AM - 10:09 AM**Abstract # 418: Commensal C. acnes promote epidermal keratinocyte lipid synthesis via PPAR****S. Almoughrabie^{1,2}, L. Cau², C. Mainzer², B. Closs², K. J. Williams³, S. J. Bensinger^{3,4}, 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. Ansbro, 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. Dainichi^{1,2}, Y. Nakano², H. Doi², S. Nakamizo^{2,4}, S. Nakajima², R. Matsumoto², T. Farkas³, P. Wong⁴, V. Narang⁴, E. Kawakami⁵, E. Guttman-Yassky⁶, O. Dreesen⁴, T. Litman³, B. Reversade⁴, K. Kabashima^{2,4}**

¹Kagawa University, Miki-cho, Kagawa, Japan, ²Kyoto University, Kyoto, Japan, ³University of Copenhagen, Copenhagen, Denmark, ⁴A*STAR, Biopolis, Singapore, ⁵RIKEN, Yokohama, Japan, ⁶Icahn 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****G. N. Calco¹, W. Baghoomian¹, D. B. Jacoby², E. Simpson³**

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, E. Simpson⁸, I. Bronova¹, A. Pavel^{2,7}, W. Soong³, R. Antaya⁶, S. Imafuku⁴, M. A. Røpke⁵, L. Jiang⁵, E. Guttman-Yassky², D. Y. Leung¹**

¹National Jewish Health, Denver, Colorado, United States, ²Icahn School of Medicine at Mount Sinai, New York, New York, United States, ³AllerVie Health-Alabama Allergy and Asthma Center, Birmingham, 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****L. M. Godsel, J. Koetsier, R. M. Harmon, M. Hegazy, A. L. Huffine, C. T. McCullough, S. A. Svoboda, L. Luass, M. Prakriya, B. E. Perez White, K. Green**

Northwestern University Feinberg School of Medicine, Chicago, Illinois, 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

Presiders: **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. Sun^{6,1}, N. Marukian⁶, S. Cheraghlou², A. Paller³, M. Larralde⁴, L. Bercovitch⁵, J. Levinsohn⁶, I. Ren⁷, R. Hu⁶, J. Zhou⁶, T. Zaki⁶, R. Fan⁶, C. Tian⁶, C. Saraceni⁶, C. Nelson-Williams⁶, E. Loring⁶, B. Craiglow⁶, L. Milstone⁶, R. Lifton⁶, L. Boyden⁶, K. Choate⁶

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 López^{1,2}, S. Huang², A. Anderson², B. C. Capell^{1,2,3}

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. Dand², M. Patrick¹, M. A. Simpson², J. Voorhees¹, J. Barker², R. Nair¹, J. T. Elder¹

¹University of Michigan, Ann Arbor, Michigan, United States, ²Kings College, London, United Kingdom

9:21 AM - 9:33 AM

Abstract # 505: Expanded GWAS meta-analysis offers novel insights into psoriasis biology

N. Dand¹, L. Tsoi², J. Barker¹, M. A. Simpson¹, J. Elder², International Psoriasis GWAS Consortium^{1,2}

¹King's College 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

S. Nayak, K. Jiang, M. Cross, E. Hope, D. Bajpai, S. Worrell, K. Hasneen, F. Naz, S. Brooks, S. Dell'Orso, M. Morasso

National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, United States

9:45 AM - 9:57 AM

Abstract # 460: Rapid activation of epidermal progenitor differentiation via CDK9 activity modulated by AFF1 and HEXIM1

S. Lloyd¹, M. Brady¹, D. Rodriguez¹, D. Leon¹, M. McReynolds¹, J. Kweon¹, A. Neely¹, X. Bao^{1,2}

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. Sun², J. Bui¹, A. Otten¹, K. Qu², B. Sun¹

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

10:21 AM-10:33 AM

Abstract # 470: Investigating modifiers of cutaneous neurofibroma development in adults with neurofibromatosis type 1

E. Patel¹, J. Ramos¹, X. Hu¹, J. Roberts², F. McCormick², J. Blakeley², C. Romo³, 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. Tsoi⁶, A. Hovnanian^{1,7,8}

¹Laboratory of Genetic Skin Diseases, INSERM UMR 1163 and Imagine Institute of Genetic Diseases, Paris, France, ²Institut Curie, PSL Research University, CNRS UMR 3215, INSERM U934, Paris, France, ³Institute for Surgical Pathology, Medical Center – University of Freiburg, Faculty of Medicine, University of Freiburg, Freiburg, Germany, ⁴DGSI Laboratory, Institut Imagine, INSERM, Paris, France, ⁵Institut Pasteur, Transcriptome and Epigenome Platform, Biomics Pole, Paris, France, ⁶Department of Dermatology, University of Michigan, Ann Arbor, Michigan, United States, ⁷Université de Paris, Paris, Île-de-France, France, ⁸Department of Genetics, Necker hospital for sick children, Paris, France

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. Liu^{1,2}, R. Schmidt³, A. Hailer^{1,6}, J. North¹, H. Wang⁴, S. Kashem¹, E. Purdom⁴, A. Marson³, S. Ramos⁵, R. Cho¹, J. Cheng^{1,6}

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, ⁴University of California Berkeley, Berkeley, California, United States, ⁵University 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

OPEN TO ALL MEETING ATTENDEES

CME CREDITS: 2.5

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

B113-B116

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. Chang^{1,2}, Z. Dai¹, A. M. Christiano^{1,3}**¹Dermatology, Columbia University Vagelos College of Physicians and Surgeons, New York, New York, United States, ²Dermatology, Air Force Medical University, Xi'an, Shaanxi, China, ³Genetics & Development, Columbia University Vagelos College of Physicians and Surgeons, New York, New York, United States**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**

Yale University, New Haven, Connecticut, United States

9:09 AM - 9:21 AM**Abstract # 581: Topical calcipotriol plus imiquimod immunotherapy for non-keratinocyte skin cancers****M. Azin^{1,2}, K. H. Ngo^{1,2}, S. Demehri^{1,2}**¹Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States, ²Cutaneous Biology Research Center, Massachusetts General Hospital, Boston, Massachusetts, United States**9:21 AM - 9:33 AM****Abstract # 586: New class of mTOR inhibitor stabilizes intermediate filament networks in severe epidermolysis bullosa 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. Mølck, H. Heibroch Petersen, H. Norsgaard**

Skin Research, LEO Pharma A/S, Ballerup, Denmark

9:45 AM - 9:57 AM**Abstract # 577: Synthetic melanin nanoparticles improve wound healing****D. Biyashev¹, Z. E. Siwicka², M. Demczuk¹, U. Onay¹, S. Evans¹, N. Collins-McCallum², N. Gianneschi², 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. Roy², S. Banang-Mbeumi², S. T. Boateng², R. Chamcheu², L. Kang³, S. Huang¹, J. C. Chamcheu²**¹LSU Health Shreveport, Shreveport, Louisiana, United States, ²Univ. Louisiana Monroe, Monroe, Louisiana, United States, ³VCOM Louisiana, 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. Christiano^{1,2}**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. Bhalla^{1,2}, G. Baida¹, I. Budunova^{1,2}**¹Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, ²SBDRC, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States**10:33 AM - 10:45 AM****Abstract # 575: Molecular characterization of trametinib-induced cardiotoxicity****T. C. Beck, J. Morningstar, D. Arhontoulis, L. Guo, G. Cortney, R. Biggs, K. Moore, N. Koren, T. Petrucci, R. Mukherjee, K. Helke, S. Vaena, M. Romeo, R. Norris**

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. Gamal^{1,2,5}, M. Elshaer^{3,1}, B. Elewski⁴, M. Ghannoum^{1,2}**¹Dermatology, Case Western Reserve University, Cleveland, Ohio, United States, ²Dermatology, University Hospitals, Cleveland, Ohio, United States, ³Clinical Pathology, Mansoura University Faculty of Medicine, Mansoura, Egypt, ⁴Dermatology, UAB Hospital, Birmingham, Alabama, United States, ⁵Dermatology, October 6 University Hospital, 6th of October, Giza, Egypt

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

Presiders: **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. Mieczkowska¹, A. Deutsch¹, K. Shinoda², B. McLellan¹

¹Dermatology, Albert Einstein College of Medicine, Bronx, New York, United States, ²Medicine, 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. Cornelius², S. Demehri¹

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. Hook⁴, A. Rodriguez⁴, A. Ecklund⁴, A. Aleshin⁴, P. Nghiem¹, L. Zaba²

¹University of Washington School of Medicine, Seattle, Washington, United States, ²Stanford University School of Medicine, Stanford, California, United States, ³Fred Hutchinson Cancer Research Center, Seattle, Washington, United States, ⁴Natera, Inc., Austin, Texas, 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, G. A. Romar¹, A. Manukyan², W. C. Ko², P. Hsieh¹, E. M. Schunkert¹, X. Fu¹, R. T. Bronson³, A. H. Waldman¹, A. Mostaghimi¹, B. A. Schmidt⁴, V. Barrera⁵, R. K. Foreman⁵, M. Garber², S. J. Divito¹

¹Dermatology, Brigham and Women's Hospital, Boston, Massachusetts, United States, ²Bioinformatics Core, University of Massachusetts, Worcester, Massachusetts, United States, ³Microbiology and Immunobiology, Harvard Medical School, Boston, Massachusetts, United States, ⁴Pathology, Boston Children's Hospital, Boston, Massachusetts, United States, ⁵Pathology, Massachusetts General Hospital, Boston, Massachusetts, United States, ⁶Bioinformatics Core, Harvard University T H Chan School of Public Health, Boston, Massachusetts, United States

9:45 AM - 9:57 AM

Abstract # 819: Bile acid supplementation ameliorates western-diet induced psoriatic dermatitis in mice

J. D. Bloomstein, X. Wu, S. T. Hwang

Dermatology, 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. Basset¹, Y. Diab², F. Santiago³, L. Azulay⁴, K. Cordero⁵, A. Zhang⁶, F. Watanabe⁷, A. Kirkorian², F. Frascari⁵, D. Siegel⁸, E. Bourrat⁹, R. Howard⁵, A. Hovnanian^{1,10}

¹Institut Imagine Institut des Maladies Genetiques, Paris, Île-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, ¹⁰Necker 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. Smith², T. Kupper¹, A. Villani², M. Wells², 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. Martin¹, H. Lindley², B. Richardson², J. Ismail², W. Lin², A. Young⁴, J. Rutter⁴, N. Ward³, T. McCormick⁴, K. Cooper⁴, C. A. Cameron¹

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. Lee^{1,2}, A. Obradovic², E. Wang¹, A. M. Christiano^{1,3}

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

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. Chin^{1,2}, T. Vazquez^{1,2}, J. Patel^{1,2}, R. Feng³, V. Werth^{1,2}

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

10:57 AM - 11:09 AM

Abstract # 807: Hidradenitis suppurativa type 17 T-cell transcriptome is different from psoriasis

J. Kim^{1,2,3}, A. Moreno¹, J. Lee¹, H. Lee¹, X. Li¹, W. Zhou⁴, J. Cao⁴, 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

OPEN TO ALL MEETING ATTENDEES
NON-CME SESSION

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

Presiders: **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. Bonjoch², C. Matte-Martone¹, D. Gonzalez¹, E. Marsh¹, K. Hirschi², 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. Jatana, A. Ponti, 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 precancer populations

J. Ren, 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. Mukhtar², 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

LB1013 Nuclear transcriptomics reveals the determinants of eccrine sweat gland fate and differentiation

H. L. Dingwall, 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

J. H. Lee¹, J. Lee², T. Pulliam¹, K. Paulson³, V. Voillet³, A. Berndt¹, C. Church¹, K. Lachance¹, S. Y. Park¹, E. Cromwell³, R. Gottardo³, A. Chapuis³, P. Nghiem¹

¹University of Washington, Seattle, Washington, United States, ²University of Washington, Seattle, Washington, United States, ³Fred Hutchinson Cancer Research Center, Seattle, Washington, United States

10:57 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. McMullan^{1,2}, P. F. Maye², Q. Yang^{1,2}, E. Germain-Lee^{1,2,3}

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. Cheret¹, M. Aivado², R. Paus^{1,3}

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. Gardner², 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, C. Young, 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. Youssef¹, E. Baugh¹, A. Colvin¹, K. Babbush², T. Adriano², G. Benesh², M. E. Torpey², A. Nosrati², K. R. van Stralen³, L. Tsoi³, A. T. DeWan⁴, S. M. Leal¹, R. Eisenberg², J. E. Gudjonsson³, J. Milner¹, S. R. Cohen², L. Petukhova¹

¹Columbia University, New York, New York, United States, ²Montefiore Medical Center, Bronx, New York, United States, ³University of Michigan, Ann Arbor, Michigan, United States, ⁴Yale University, New Haven, Connecticut, 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

J. Teng¹, J. Martini², T. Funk³, J. Connor⁴, E. Cook², D. Hansen⁵, A. Paller⁶

¹Dermatology, Stanford University School of Medicine, Stanford, California, United States, ²Palvella 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.

OPEN TO ALL MEETING ATTENDEES
NON-CME SESSION

Antibiotics In Dermatology Symposium

THURSDAY, MAY 19, 2022

12:00 PM – 1:00 PM

OREGON BALLROOM 203



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



Symposium supported by an educational grant from Almirall

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.

UCB Symposium

THURSDAY, MAY 19, 2022

12:00 PM – 1:00 PM

OREGON BALLROOM 204

*Lunch will be provided.***New Perspectives on Pathogenesis in Psoriasis****Welcome and Introduction:****Andrew Blauvelt, MD, MBA****Deconstructing the cytokine cocktail that amplifies inflammation in psoriasis**

Steve Shaw, PhD, is VP Head of Immunology Research at UCB, where he has devoted more than 25 years to the discovery and development of novel therapeutics for patients with severe immunologic diseases. Dr. Shaw received his bachelor of science degree in applied biological sciences at University of Greenwich in London then went on to work with Celltech—later acquired by UCB—in 1993 as a lab-based scientist. From 1998-2001, while still working full time at Celltech, Dr. Shaw completed his doctoral degree in immunology from Imperial College London. After a postdoctoral sabbatical in Seattle designing and implementing in vivo immunology screens for target identification and validation for autoimmune disease, Dr. Shaw returned to UCB as Leader of Immunopharmacology. In 2012, Dr. Shaw took on the role of leading the pipeline clinical program through phase 2B, helping expand the UCB portfolio in immunology. Dr. Shaw has several patents and has authored numerous publications.

**Uncovering the cellular context of psoriasis**

Jason Hawkes, MD, MS, FAAD, Associate Professor of Dermatology at the University of California Davis in Sacramento. He completed his medical degree and dermatology residency training at the University of Utah School of Medicine, where he was also enrolled in the Program's 2+2 dermatology research track. In addition to his clinical training, Dr. Hawkes completed a research fellowship in translation immunology at the National Institutes of Health as part of the HHMI-NIH Research Scholars Program and received a master's degree in Clinical Investigation from Rockefeller University in NYC. Dr. Hawkes' principal clinical and research interests are the treatment of complex inflammatory skin diseases, such as psoriasis, psoriatic arthritis, hidradenitis suppurativa, and eczema. He has a special interest in translational human research and the development of novel biologics and small molecules used for the treatment of inflammatory conditions.

**Beyond the skin: can patients ever be free from the biological imprint of psoriasis?**

Andrew Blauvelt, MD, MBA. Dr. Blauvelt is President of Oregon Medical Research Center, a small business dedicated to performing high-quality clinical research studies in dermatology. He received his undergraduate degree in electrical engineering at Purdue University, his medical degree at Michigan State University, and a healthcare MBA at Oregon Health & Science University (OHSU). Dr. Blauvelt trained in dermatology at the University of Miami and in cellular immunology under the direction of Dr. Steve Katz at the National Institutes of Health (NIH). Earlier in his career, he held senior staff positions at the NIH (Senior Investigator), OHSU (Professor), and the Portland VA Medical Center (Chief). Dr. Blauvelt's research and clinical expertise has been in Langerhans cell biology, T cell immunology, virology, psoriasis, and atopic dermatitis.

Panel Discussion and Audience Q & A

Krystal Biotech Symposium

THURSDAY, MAY 19, 2022

12:15 PM – 1:15 PM

OREGON BALLROOM 201-202

Lunch will be provided.

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 (SBDRC) 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.



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

S. Avdieiev^{1, 2}, L. Tordesillas³, O. Chavez Chiang³, Z. Chen⁴, L. Silva Simoes², Y. Chen⁴, N. Andor², R. Gatenby^{1, 2}, E. Flores⁵, J. Brown^{1, 2}, K. Y. Tsa^{1, 3}

¹Cancer Biology and Evolution Program, Moffitt Cancer Center, Tampa, Florida, United States, ²Integrated Mathematical Oncology, Moffitt Cancer Center, Tampa, Florida, United States, ³Tumor Biology Department, Moffitt Cancer Center, Tampa, Florida, United States, ⁴Department of Biostatistics and Bioinformatics, Moffitt Cancer Center, Tampa, Florida, United States, ⁵Department of Molecular Oncology, Moffitt Cancer Center, Tampa, Florida, United States

1:57 PM - 2:09 PM

Abstract # 125: Dermal adipocyte precursor immune fibroblastic cells (IFCs) drive neutrophil recruitment in response to bacterial infection

K. Cavagnero, T. Dokoshi, A. O'Neill, J. Seidman, M. Liggins, R. Gallo

Dermatology, University of California San Diego, La Jolla, California, United States

2:09 PM - 2:21 PM

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

E. Cuttman-Yassky¹, P. Facheris^{1, 2}, J. Correa Da Rosa¹, E. Del Duca¹, Y. Estrada¹, E. David¹, A. Pavel³, S. Bose¹, J. Goncalves⁴, K. Nograles⁴, B. Kim¹, M. Lebowl¹

¹Icahn School of Medicine at Mount Sinai, New York, New York, United States, ²Department of Biomedical Sciences, Humanitas University, Pieve Emanuele, Italy, ³The University of Mississippi, University, Mississippi, United States, ⁴Cara Therapeutics, Inc., Stamford, Massachusetts, United States

2:21 PM - 2:33 PM

Abstract # 480: The spectrum of oligogenic variants in the RAS pathway in a PHACE cohort

D. Siegel¹, E. Partan³, O. Davies⁹, S. Chamlin², B. Drolet⁴, A. Mancini², L. Sundaram¹, M. Tutaj⁸, I. Frieden⁵, D. Metry⁶, F. Blei⁷, C. Lin⁸, K. Wang¹, I. Karakikes¹, A. Urban¹, A. Oro¹, N. Sobreira³

¹Stanford University School of Medicine, Stanford, California, United States, ²Ann and Robert H Lurie Children's Hospital of Chicago, Chicago, Illinois, United States, ³Johns Hopkins Medicine, Baltimore, Maryland, United States, ⁴University of Wisconsin-Madison, Madison, Wisconsin, United States, ⁵University of California San Francisco School of Medicine, San Francisco, California, United States, ⁶Baylor College of Medicine, Houston, Texas, United States, ⁷NYU Langone Health, New York, New York, United States, ⁸Medical College of Wisconsin, Milwaukee, Wisconsin, United States, ⁹Harvard Medical School, Boston, Massachusetts, United States

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

Horizontal lines for notes

Horizontal lines for notes

OPEN TO ALL MEETING ATTENDEES
CME CREDITS: .5

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.

Two columns of horizontal lines for notes.

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.

OPEN TO ALL MEETING ATTENDEES
NON-CME SESSION

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.

Find out more about Mary Kay science at <https://www.marykay.com/en-us/about-mary-kay/our-product-promise>



Poster/Exhibitor/Happy Hour Session 1

THURSDAY, MAY 19, 2022

4:30 PM – 6:30 PM

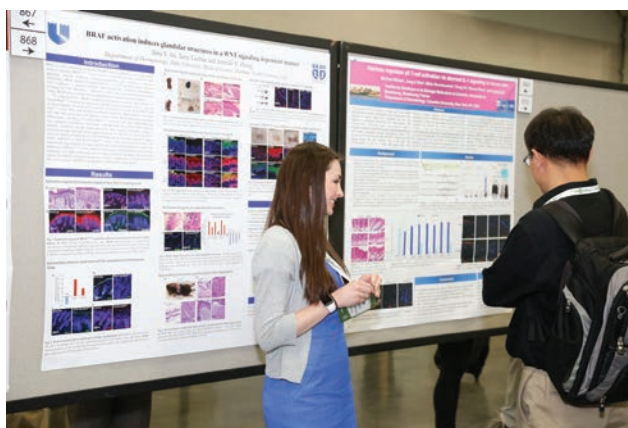
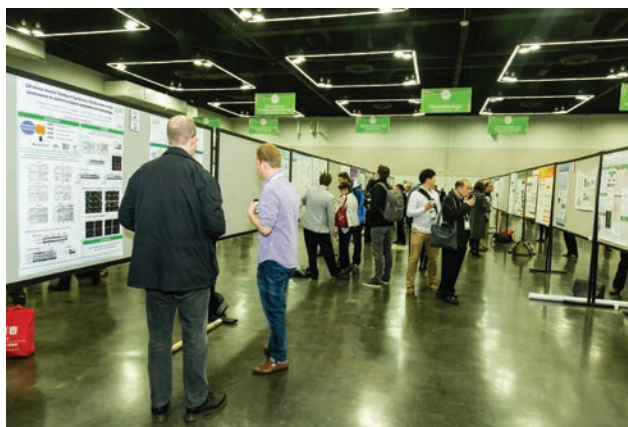
EXHIBIT HALLS A-A1-B

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



OPEN TO ALL MEETING ATTENDEES
NON-CME SESSION

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. Mehdizadeh¹, A. Uchiyama², Y. Inoue², A. Sawaya¹, S. Nayak¹, S. Brooks¹, M. Kellett¹, E. Palazzo¹, S. Motegi², C. Cataisson³, 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. Tolar^{1,2}

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 $\alpha 3 \beta 1$ is a regulator of cytokine, CSF-1, and of crosstalk from keratinocytes to dermal macrophages

W. Longmate¹, L. Wu¹, A. Martinez¹, C. DiPersio^{1,2}

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. Fatima^{1,2}, N. Botchkareva², G. Chen², A. Sharov², V. Botchkarev²

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. Shea⁵, N. Akhave⁴, L. Sutton², L. Compton¹, C. York³, S. Ramakrishnan³, C. Miller³, L. Wartman³, D. Chen²

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. Stingl¹, W. Weninger¹, M. Farlik¹, C. Jonak¹, P. M. Brunner^{1,2}

¹Medizinische Universität 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. Pedersen¹, P. W. Harms^{1,2}, A. Hoover¹, D. Pyrozhenko¹, A. Alam¹, N. Lingam¹, A. A. Dlugosz^{1,3}

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. Hu², F. Bai², Y. Wang¹

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-Prizio², S. Khan¹, S. Khan⁴, N. Maynard¹, M. D. Mehta¹, R. Reddy³, 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. Cucka, B. Biglione, S. Chand, R. Rrapi, 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. Thibau², J. I. Silverberg³**

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-Tov¹**

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. Carroll²**

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. Narang¹, J. Bordeaux^{1,3}**

¹School of Medicine, Case Western Reserve University, Cleveland, Ohio, United States, ²College of Medicine, Northeastern Ohio

Medical 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. Lee¹, 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, Kobenhavn, 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. Kim^{1,2}, R. S. Gibson^{2,3}, M. Her^{3,4}, M. Mahoney^{4,5}, P. Sterling⁵, S. Padival⁶, D. Taupin^{5,7}, M. L. Porter^{2,3,7}**

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, ⁴Department of Pharmacy, Beth Israel Deaconess Medical Center, Boston, Massachusetts, United States, ⁵Division of Infectious Diseases, Beth Israel Deaconess Medical Center, Boston, Massachusetts, United States, ⁶Division of Infectious Diseases, University of Pittsburgh, Pittsburgh, Pennsylvania, 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. Maghfour, V. Liu, R. Huggins, I. H. Hamzavi**

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. Reddy³, D. Yee¹, C. Zagona-Prizio⁴, 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

OPEN TO ALL MEETING ATTENDEES
NON-CME SESSION

ePoster Session 1

Innate Immunity, Microbiology, and Microbiome

THURSDAY, MAY 19, 2022

5:00 PM – 6:00 PM

TERMINAL # 3-ROOM A109

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. Horswill², 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. Goedken², 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 # 517: Distinct transcriptomic shifts in keratinocyte subsets induced by type I interferon

K. Sakamoto^{1,2}, K. Nagao¹

¹NIAMS, NIH, Bethesda, Maryland, United States, ²Hamamatsu University, Hamamatsu, Japan

5:42 PM - 5:48 PM

Abstract # 520: Skin-specific stearyl-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. Harris^{1,2}, 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. Jiang^{2,3}, L. Tsoi², M. Sarkar², O. Plazyo², A. Billi², E. Maverakis⁴, J. M. Kahlenberg⁵, J. E. Gudjonsson², 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, Beijing, 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. Ezhkova¹

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. Cherardini^{1,2}, T. Rouille¹, M. Fehrholtz¹, W. Funk³, J. Rodriguez-Feliz⁴, A. J. Bauman⁵, T. Bíró¹, J. Chéret^{2,6}, R. Paus^{2,6}

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. Rodríguez-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. Chung^{2,1}, K. Kim², O. Kwon^{2,1}, S. Jo²

¹Biomedical Sciences, Seoul National University College of Medicine, Seoul, Korea (the Republic of), ²Dermatology, Seoul National University Hospital, Seoul, Seoul, 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. Khatif^{1,3}, H. Bazzi^{1,2}

¹Dermatology & Venereology, Universität zu Köln, Köln, Nordrhein-Westfalen, Germany, ²Exzellenzcluster CECAD in der Universität zu Köln, Köln, Nordrhein-Westfalen, Germany, ³Exzellenzcluster CECAD in der Universität zu Köln, Köln, 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. Fehrholtz¹, I. Piccini¹, L. Timperi¹, A. Mardaryev^{2,3}, D. Pinto⁴, F. Rinaldi⁴, R. Paus^{1,3,5}, T. Bíró^{1,3}, M. Bertolini¹

¹Monasterium Laboratory, Skin & Hair Research Solutions GmbH, Muenster, 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

OPEN TO ALL MEETING ATTENDEES
NON-CME SESSION

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

S. M. Thompson, Q. M. Phan, G. Fine, I. Busch, Y. Du, S. Winuthayanon, I. Driskell, R. Driskell

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

J. Marjanovic, I. Jozic, R. Stone, B. A. Abdo Abujamra, R. Kirsner, H. Lev-Tov, I. Pastar, M. Tomic-Canic

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 Scheri^{1,2}, X. Liang², V. Dalal^{1,2}, I. Le Poole³, J. Varga⁴, T. Hayashida^{1,2}

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. Lyu^{1,4}, A. Taylor³, A. van Ee^{1,4}, A. Kiemen², Y. Choi^{2,4}, C. Lee¹, D. Wirtz², L. Garza¹, S. Reddy^{3,4}

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

A. Pappalardo¹, D. Alvarez-Cespedes¹, S. Fang², A. R. Herschman², E. Jeon¹, K. Myers², J. Kysar², H. E. Abaci¹

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. Lee¹, E. Kolitz¹, R. Mahapatra¹, 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 - 05:48 PM

Abstract # 783: Deconstructing the dermal adipogenesis program during skin development and regeneration

L. Sun, X. Zhang, S. Wu, W. Liu, Y. Liu, Y. Liao, R. Wu, T. Xia, X. Zhang, M. Yin, Y. Yang, L. Zhang

School of Pharmaceutical Sciences, The State Key Lab of Cellular Stress Biology, Xiamen University, Xiamen, Fujian, China

5:48 PM - 5:54 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. Ahn², S. Lee¹, J. J. Yoo¹, J. Molnar³, 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

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

	PAGE NUMBER		PAGE NUMBER
6:30 AM — 7:00 PM On-Site Registration Holladay Entrance/Pre-Function A		1:15 PM — 1:45 PM State-of-the-Art Plenary Lecture 3 Oregon Ballroom 201-202	80
7:00 AM — 8:30 AM Irvin Blank Forum: Single Cell and Spatial Transcriptomics Technologies Oregon Ballroom 203	65	1:45 PM — 2:45 PM Plenary Session 2 Oregon Ballroom 201-202	81
7:00 AM — 8:30 AM FDA Session: Advances in Topical Dosage Form Characterization and Measuring Drug Concentrations in the Skin Oregon Ballroom 204	66	2:45 PM — 3:00 PM Break	
7:00 AM — 8:30 AM Research in Cutaneous Surgery (RCS) Meeting A105-A106	67	3:00 PM — 3:30 PM Naomi Kanof Lecture Oregon Ballroom 201-202	82
7:00 AM — 8:30 AM Women's Dermatology Society (WDS) Meeting B113-B116	68	3:30 PM — 4:00 PM State-of-the-Art Plenary Lecture 4 Oregon Ballroom 201-202	83
7:00 AM — 8:30 AM Pediatric Dermatology Research Alliance (PEDRA) Session C123-C124	69	4:00 PM — 4:30 PM Business Meeting of the Members Oregon Ballroom 201-202	84
8:45 AM — 11:15 AM Concurrent Mini-symposium 7: Carcinogenesis and Cancer Genetics Oregon Ballroom 203	70	4:30 PM — 4:45 PM American Skin Association Awards Oregon Ballroom 201-202	85
8:45 AM — 11:15 AM Concurrent Mini-symposium 8: Clinical Research- Sociobehavioral and Health Services Research Oregon Ballroom 204	71	4:30 PM — 6:30 PM Poster Session 2/Happy Hour Exhibit Hall A/A1/B	86
8:45 AM — 11:15 AM Concurrent Mini-symposium 9: Innate Immunity, Microbiology, and Microbiome A105-A106	72	5:00 PM — 6:00 PM ePoster Session 2 – Adaptive and Auto-Immunity Terminal 1 – A108	87
8:45 AM — 11:15 AM Concurrent Mini-symposium 10: Pigmentation & Melanoma B113-B116	73	5:00 PM — 6:00 PM ePoster Session 2 – Clinical Research - Epidemiology and Observational Research Terminal 2 – A107	88
8:45 AM — 11:15 AM Concurrent Mini-symposium 11: Skin, Appendages, and Stem Cell Biology C123-C124	74	5:00 PM — 6:00 PM ePoster Session 2 (Epidermal Structure and Barrier Function) Terminal 3 – A109	89
8:45 AM — 11:15 AM Concurrent Mini-symposium 12: Tissue Regeneration and Wound Healing Oregon Ballroom 201-202	75	5:00 PM — 6:00 PM ePoster Session 2 (Genetic Disease, Gene Regulation, and Gene Therapy) Terminal 4 – B110	90
11:30 AM — 12:00 PM Herman Beerman Lecture Oregon Ballroom 201-202	76	5:00 PM — 6:00 PM ePoster Session 2 (Translational Studies) Terminal 5 – B112	91
12:00 PM — 12:15 PM Stephen Rothman Award Ceremony Oregon Ballroom 201-202	77	7:00 PM — 8:30 PM American DermatoEpidemiology Network (ADEN) Meeting A105-A106	92
12:15 PM — 1:15 PM Sanofi and Regeneron Symposium Oregon Ballroom 204	78	7:00 PM — 10:00 PM American Hair Research Society (AHRS) Meeting B113-B116	93
12:15 PM — 1:15 PM Estée Lauder Symposium Oregon Ballroom 203	79	7:00 PM — 10:00 PM National Psoriasis Foundation (NPF) Meeting C123-C124	94
12:15 PM — 1:15 PM Lunch – <i>On Your Own</i>		7:00 PM — 9:30 PM Young Investigator Collegiality Reception: Ticketed Event: Pre-registration required. Space is limited. Please purchase this at the time of registration. Hyatt Regency at the Oregon Convention Center Hotel	



Lan Su Chinese Garden

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



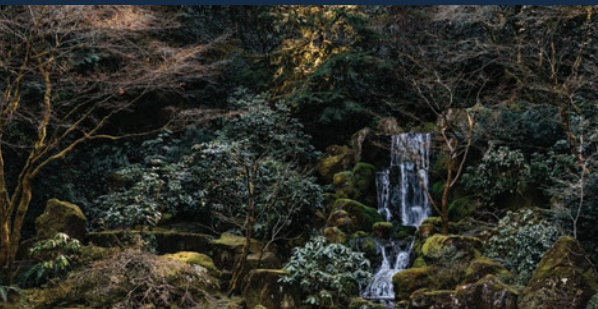
Mount Hood

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



Portland Japanese Garden

Many styles of gardens showcased in serene 5.5-acre space with waterfall, teahouse & mountain view

Things To Do In Portland

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



Voodoo Doughnut

More than 50 kinds of doughnuts



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



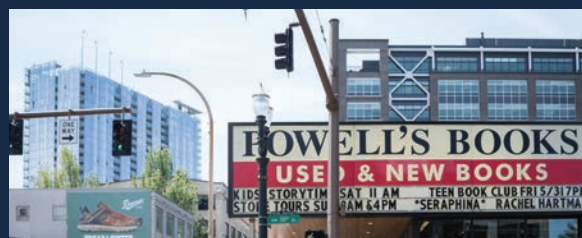
Portland Art Museum

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



Willamette Valley

The Willamette Valley is known for its 600+ wineries



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

Portland International Rose Test Garden

More than 10,000 individual rose bushes bloom representing over 610 different rose varieties



OPEN TO ALL MEETING ATTENDEES
CME CREDITS: 1.5

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.



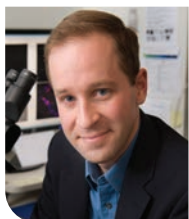
Advanced Techniques for Characterizing the Form and Function of Topical Dermatological Drug Products

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.

OPEN TO ALL MEETING ATTENDEES
NON-CME SESSION

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
- 7:05 AM** **Keynote Presentation**
Translational research in vitiligo: Launching a new era of targeted treatments
John E. Harris, MD, PhD, UMass Chan Medical School
- 7:40 AM** **Abstract #169**
Poor validity of hidradenitis suppurativa diagnostic criteria in pediatric patients
Jazzmin C. Williams, University of California, San Francisco
- 7:53 AM** **Abstract #850**
Potential role of skin in SARS-CoV-2 infection
Irina Budunova, MD, PhD, Northwestern University Feinberg School of Medicine
- 8:06 AM** **The Impact of Pediatric Skin Disorders:**
An Update on PeDRA's "Big" Study on the Psychosocial Burden of Chronic Childhood Skin Diseases
Amy S. Paller, MD, MS, Northwestern University
- 8:25 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/>

Morning refreshments including coffee and a special treat to be provided.



PeDRA™

Pediatric Dermatology Research Alliance

Concurrent Mini-Symposium 7

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, Wendy Weinberg, 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-Phou¹, M. Abbruzzese¹, A. Sastre-Perona^{1,3}, Z. Ying⁴, S. Beronja⁴, M. Schober^{1,2}

¹The Ronald O. Perleman 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. Noubissi¹, C. Harris¹, M. Hajahmed¹, C. Yedjou²

¹Biology, 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

Y. Suzuki-Horiuchi¹, S. Prouty¹, L. Wushanley¹, V. Lee^{1,2}, J. T. Seykora¹

¹Department 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

Y. Cui¹, S. Yang¹, J. Wei², C. R. Shea¹, W. Zhong¹, F. Wang¹, P. Shah¹, M. Kibriya¹, X. Cui², H. Ahsan¹, C. He², Y. He¹

¹University 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/IL-8 signaling axis

B. L. Hill¹, A. Calder^{5,2}, J. Flemming¹, S. Gilmore¹, Y. Guo¹, L. Harshyne², A. Linnenbach¹, U. Martinez-Outschoorn⁴, J. Curry⁵, A. P. South^{1,5}, A. Luginbuhl⁵, M. Mahoney^{1,5}

¹Dermatology 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^{1,2,3}, S. Atwood^{1,2,3}

¹University 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. Gonzalez², T. Patel¹, S. Ha³, C. Pan², S. Gaddam², A. Mirza⁴, A. Oro²

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 immunoediting 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

D. Haensel¹, B. Daniel², T. Fabo¹, S. Gaddam¹, J. Bjelajac¹, C. Pan¹, T. Patel¹, S. Aasi³, A. Satpathy², A. Oro¹

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

K. G. Trieu¹, S. Tsai¹, M. Eberl¹, V. Ju¹, N. Ford¹, O. J. Doane¹, J. K. Peterson¹, N. A. Veniaminova¹, M. Grachtchouk¹, P. W. Harms², F. J. Swartling³, A. A. Dlugosz³, S. Y. Wong¹

¹Departments of Dermatology and Cell and Developmental Biology, University of Michigan, Ann Arbor, Michigan, United States, ²Departments of Pathology and Dermatology, University of Michigan, Ann Arbor, Michigan, United States, ³Department of Immunology, Genetics and Pathology, Science for Life Laboratory, Rudbeck Laboratory, Uppsala Universitet, Uppsala, Sweden

10:57 AM - 11:09 AM

Abstract # 096:

H. Kim¹, E. Joo², J. Bae³, J. Park², Y. Bang⁴, C. Park⁵, N. Gulati⁶, W. Park²

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 Graduate School Department of Biomedical Science, Seoul, Korea (the Republic of), ⁵Seoul National University College of Medicine, Seoul, Korea (the Republic of), ⁶Icahn School of Medicine at Mount Sinai, New York, New York, United States

OPEN TO ALL MEETING ATTENDEES
CME CREDITS: 2.5

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. Patel², C. Rundle¹, B. Liu³, C. Green³, 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. Baghoomian, 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. Lau, K. Yang, C. X. Pan, W. C. Lau, B. Kassamali, V. Nambudiri, 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. Shukla², M. Paul², M. C. Halley^{1,3}, I. 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, ³Biomedical Ethics, Stanford University School of Medicine, Stanford, 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. Trepanowski^{1,2}, L. Huang³, R. Hartman^{2,4}

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. Chen², G. Lee¹, L. Baughman¹, E. M. Pope¹, A. Franco¹, B. Verhave¹, B. Johnson¹, T. Love², L. A. Beck¹, J. Ryan Wolf¹

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. Drake^{1,2}, K. Yang^{1,2}, S. Ghatnekar¹, V. Nambudiri²

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 Marchis², 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. Alcid², S. Gold¹, S. Willner², R. Radi¹, 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. Tomtschik, 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 # 558: An aging-susceptible circadian rhythm controls cutaneous antiviral immunity

S. Kirchner^{1, 2}, V. Lei¹, J. Shannon^{1, 3}, D. Corcoran⁴, D. Hughes⁵, D. Waters⁵, K. Dzirasa^{5, 6, 7}, J. Coers², A. MacLeod^{1, 2, 3}, J. Zhang^{1, 8}

¹Dermatology, Duke University, Durham, North Carolina, United States, ²Molecular Genetics and Microbiology, 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. Dokoshi¹, E. Luo², G. Wong², 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. Dokoshi¹, J. Cheng¹, F. Shafiq¹, T. Hata¹, R. Modlin³, 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-McKenney¹, A. Campbell¹, Q. Zheng¹, L. Flowers¹, C. Mesaros¹, C. H. Sutter², T. R. Sutter², 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. Xia, R. Wu, W. Zhang, X. Zhang, S. Wu, Y. Liao, Y. Liu, L. Sun, J. Li, L. Zhang

School of Pharmaceutical Sciences, Xiamen University, Xiamen, Fujian, China

9:45 AM - 9:57 AM

Abstract # 555: 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. Tabachnick-Cherny¹, T. Pulliam¹, K. Smythe², 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. Miller^{1, 2}, 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. Lyu^{1, 2}, M. Li^{1, 2}, P. L. Zhang³, W. Wei², 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. Amornpairoj, K. Rivas, D. Chopra, J. Burgess, P. Catanuto, L. Siegfried, M. Tomic-Canic, N. Strbo, H. Lev-Tov, I. Pastar

University of Miami School of Medicine, Miami, Florida, United States

OPEN TO ALL MEETING ATTENDEES
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. Kang², H. Kim³, J. Mun¹, M. Roh⁴, N. Gulati⁵, H. Yang⁶, J. Moon⁷, C. Won⁶, C. Park²

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. Ariizumi

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. Chéret^{1,2}, F. D. Scala¹, J. Gherardini^{1,2}, J. O'Sullivan¹, G. Epstein-Kuka³, A. J. Bauman⁴, C. Demetriades⁵, R. Paus^{1,2,6}

¹Dr. Phillip Frost Department of Dermatology and Cutaneous Surgery, University of Miami School of Medicine, Miami, Florida, United States, ²Monasterium Laboratory Skin & Hair Research Solutions GmbH, Munster, Nordrhein-Westfalen, Germany, ³Foundation for Hair Restoration, Miami, Florida, United States, ⁴Bauman Medical Group, Boca Raton, Florida, United States, ⁵Cell Growth Control in Health and Age-Related Disease, Max Planck Institute for Biology of Ageing (MPI-AGE), Cologne, Germany, ⁶CUTANEON, Hamburg, Germany

9:21 AM - 9:33 AM

Abstract # 651: Melanoma persister cells survive CD8 T cell attack and seed acquired resistance to immunotherapy

M. X. Wang, B. E. Mauch, F. Araujo Hoffman, S. H. Harris, C. P. Lathrop, 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. Erjavec^{1,2}, A. M. Christiano^{1,2}

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. Ahmad^{1,2}, H. Chang¹

¹University of Wisconsin-Madison, Madison, Wisconsin, United States, ²William S Middleton 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. Wang^{1,2,3}, Q. Qi¹, Z. Li⁴, X. Hu^{2,3}, R. Ye^{2,3}, L. Du^{2,3}, 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 Meitueve 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

S. M. Daignault-Mill, D. Moi, R. J. Ju, B. Zeng, B. Gabrielli, L. Spoerri, R. Dolcetti, N. K. Haass

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. Venkat², S. Kim³, Y. Wei⁴, C. Vakoc⁴, J. Katzenellenbogen³, B. Katzenellenbogen³, M. Feigin², 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. Rashid^{1,2}, N. Klebanov³, M. Shaughnessy³, M. Daly^{4,5,6}, M. Artomov^{4,5}, H. Tsao^{1,3}

¹Dermatology, Wellman Center for Photomedicine, Boston, Massachusetts, United States, ²Boston University School of Medicine, Boston, Massachusetts, United States, ³Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States, ⁴Analytical and Translational Genetics Unit, Massachusetts General Hospital, Boston, Massachusetts, United States, ⁵Broad Institute, Cambridge, Massachusetts, United States, ⁶Helsingin yliopisto Suomen molekyyliiläaketietaan instituutti, 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. Lee^{1,2}, Y. Tseng¹, W. Chen³, J. Yang³, H. Tzeng³

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. Kim³, E. Lee¹, R. Mahapatra¹, R. C. Wang^{1,2}

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, ³Quantitative Biomedical Research Center, The University of Texas Southwestern Medical Center, Dallas, Texas, 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 # 709: Stem cell niche architecture dictates hair progenitor distribution and differentiation

H. Wei¹, T. Xin¹, V. Greco^{1,2}

¹Genetics, Yale School of Medicine, New Haven, Connecticut, United States, ²Dermatology & Cell Biology, 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. Christiano^{1,2}

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 polycomb repression promotes epidermal pigmentation

M. Li¹, P. Flora¹, H. Pu², C. Bar¹, J. Silva³, I. Cohen⁴, P. M. Galbo⁵, H. Liu^{5,6}, X. Yu⁷, J. Jin⁷, H. Koseki^{8,9}, J. A. D'Orazio², D. Zheng^{5,10}, 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 Markey 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. Ho^{1,2}, M. Xu^{1,2}, S. Millar^{1,2,3}

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. Tai³, C. Chen¹, S. Fan⁵, T. Chang¹, M. Plikus⁴, S. Lin^{1,2}

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. Shannon^{1,2}, D. Corcoran⁵, S. Ziegler⁴, A. MacLeod^{3,2}, J. Zhang^{2,6}

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 lineage trajectory of human scalp hair follicle and informs mechanisms of hair graying

S. Wu^{1,3}, Y. Yu², C. Liu⁴, Z. Xia³, P. Zhu³, X. Yan², Y. Li², P. Hua², Q. Li⁴, S. Wang², L. Zhang²

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. Jeon, A. Pappalardo, L. Sorrells, H. E. Abaci

Dermatology, 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. Chen², Q. Xu², M. Fessing³, A. Mardaryev³, A. Sharov¹, G. Xu², V. Botchkarev¹

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. Tchegnon^{1,2}, C. Liao^{1,3}, E. Ghotbi¹, L. Q. Le^{1,2,4}

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. Edelkamp¹, T. Rouille¹, J. Kim², A. Keren³, J. Viola-Söhnlein¹, L. Gao², A. Rossi⁴, F. Jimenez⁵, A. Gilhar³, R. Paus^{1,6}, M. Bertolini¹, I. M. Catlett²

¹Monasterium Laboratory Skin & Hair Research Solutions GmbH, Munster, Nordrhein-Westfalen, Germany, ²Bristol Myers Squibb Co, Princeton, New Jersey, United States, ³Technion, Haifa, Israel, ⁴Sapienza Università Editrice, Rome, Lazio, Italy, ⁵Mediteknia Hair Transplant Clinic and Hair Lab, Las Palmas de Gran Canaria, Spain, ⁶University of Miami School of Medicine, Miami, Florida, United States

OPEN TO ALL MEETING ATTENDEES
CME CREDITS: 2.5

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. Duggan², R. Dorschner³, M. Dobke¹, J. Nolan², 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 adipocytes and immune cells communicate during wound healing

M. Forni¹, T. Xu¹, W. Krause¹, R. Pannone¹, R. Kibbey², M. Rudolph³, V. Horsley¹
¹Molecular Cellular and Developmental Biology, Yale University, New Haven, Connecticut, United States, ²School of Medicine, Yale University, New Haven, Connecticut, United States, ³Harold Hamm Diabetes Center, The University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma, 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, ²Surgery, 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-1 α signaling and glutamine metabolism

G. Wang¹, E. Sweren¹, W. Andrews², M. Kane², 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. Kutluber¹, A. Jaffer¹, R. Arora¹, L. Cao¹, W. Shin¹, N. Rosin¹, B. Yipp², J. Biernaskie¹
¹Comparative Biology and Experimental Biology, University of Calgary, Calgary, Alberta, Canada, ²Snyder Institute, University of Calgary, Calgary, Alberta, Canada

9:45 AM - 9:57 AM

Abstract # 774: TSG-6 and TSP-1 exhibit altered expression in the skin of diabetic patients

J. P. Gallop¹, M. Alipour², Y. Wang³, G. Botek⁴, E. Maytin^{2,3}
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. Loui¹, G. Cotsarelis², J. C. Simon¹, R. A. Ferrer¹
¹Dermatology, Universitätsklinikum Leipzig Klinik und Poliklinik für 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. Varga¹, S. Bale^{1,2}, P. Verma², S. Hasan², B. Yalavarthi², P. Tsou², J. Varga^{1,2}, S. Bhattacharyya^{1,2}
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 # 795: Senescent adipocytes accumulate in the dermis of obese mice deficient in leptin signaling

E. Y. Lee^{1,2}, R. Perez-Lorenzo¹, S. Youssef¹, A. M. Christiano^{1,3}
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

10:33 AM - 10:45 AM

Abstract # 756: Skin wounding alters the gut microbiome by inducing antimicrobial peptide and mucin production from intestinal epithelia

T. Dokoshi¹, B. Taylor¹, K. Cavagnero¹, R. Knight¹, R. Gallo¹
University of California San Diego, La Jolla, California, United States

10:45 AM - 10:57 AM

Abstract # 775: Structural and molecular similarities between plantar and wound keratinocytes - is the foot a chronic wound?

C. Fuchs^{1,2}, K. J. Stalnaker¹, Y. Wang^{1,2}, L. Pham¹, C. L. Dalgard^{3,4}, S. Cho⁵, R. R. Anderson^{1,2}, J. H. Meyerle⁵, J. Tam^{1,2}
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, ⁵Department of Dermatology, Uniformed Services University of the Health Sciences, Bethesda, Maryland, 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. Sorrells¹, A. Pappalardo¹, D. Alvarez-Céspedes¹, E. Jeon¹, H. E. Abaci¹
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

Lunch will be provided.

New Frontiers in Itch: Understanding the Burden and Mechanisms of Pruritic Dermatoses

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**

sanofi
REGENERON

Estée Lauder Symposium

FRIDAY, MAY 20, 2022

12:15 PM – 1:15 PM

OREGON BALLROOM 203

Free Radicals and Oxidative Damage in Skin Cells

Moderator:

Robert Maidhof, PhD, Associate Director, Skin Biology, Global R&D, The Estée Lauder Companies



Oxygen, Oxygen Radicals and Antioxidants in Health and Disease: The World of Redox Biology

Barry Halliwell, PhD, DSc, Senior Advisor, Academic Appointments and Research Excellence, Office of the Senior Deputy President and Provost and Distinguished Professor, Department of Biochemistry, Yong Loo Lin School of Medicine National University of Singapore. An internationally acclaimed biochemist, Professor Halliwell is known especially for his seminal work on the role of free radicals and antioxidants in biological systems. The Thomson Reuters lists Professor Halliwell as one of the world's most highly cited researchers in Biology and Biochemistry. His research focuses on the role of free radicals and antioxidants in human disease, particularly Alzheimer's disease and other brain disorders. His interest in identifying the most important antioxidants in the human diet and in developing novel antioxidants has critical bearing on treating human diseases and understanding how diet might cause or prevent them. Professor Halliwell is a member of several editorial boards including FEBS Letters, Biochemical and Biophysical Research Communications and Antioxidants and Redox Signaling. He has been a lead speaker at Gordon Conferences and other prestigious events worldwide and is a member of several expert advisory panels to leading universities, companies and government agencies.



Skin Cells, Blue Light, and Free Radicals

Nadine Pernodet, PhD, Senior Vice President, Skin Biology & Bioactives, Global R&D, The Estée Lauder Companies (ELC). Dr. Nadine Pernodet is Senior Vice President and is leading ELC Skin Biology and BioActives Laboratories including Fermentation and Botanical groups as well as the Academic collaboration network. Dr. Pernodet is also the lead scientist to the EL brand and serves as their scientific advisor, innovator, and spokesperson. As head of the Skin Biology and Bio-Actives group, she has created a continuous stream of new scientific insights that have driven a pipeline of efficacious active ingredients, new claims, new concepts, and new scientific communications and credentialing for successful global skincare launches. Her technical leadership has driven ELC's internal capabilities, developing new methods to research, identify and support new technologies. She has also built new collaborations and partnerships and is recognized externally as an expert in Skin Biology. Her unique approach to the science of Beauty is to combine her extensive background in biophysics and biology to better understand skin bionetworks and to approach research through an interdisciplinary lens.

ESTÉE LAUDER

OPEN TO ALL MEETING ATTENDEES
CME CREDITS: 1.0

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. Moreau², V. Gouirand², C. Macon², I. Boothby², I. Gratz³, A. Stoecklinger³, 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 Fakultät, 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. Lynch^{1,2}

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, I. Brown¹, M. Taylor¹, J. Deng¹, V. Parthasarathy¹, Z. A. Bordeaux¹, M. P. Alphonse¹, J. Alhariri¹, S. Kang¹, Y. Semenov², S. G. Kwatra¹

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. Kim², T. Hoffmann³, S. Saini⁴, S. Shringarpure⁴, 2. Team⁴, E. Jorgenson⁵, M. M. Asgari²

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, ⁴23andMe, Sunnyvale, California, United States, ⁵Regeneron 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. Christiano^{1,2}

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.

OPEN TO ALL MEETING ATTENDEES

CME CREDITS: .5

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 a 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.

Two columns of horizontal lines for notes.

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



American Skin Association

Poster/Exhibitor/Happy Hour Session 2

FRIDAY, MAY 20, 2022

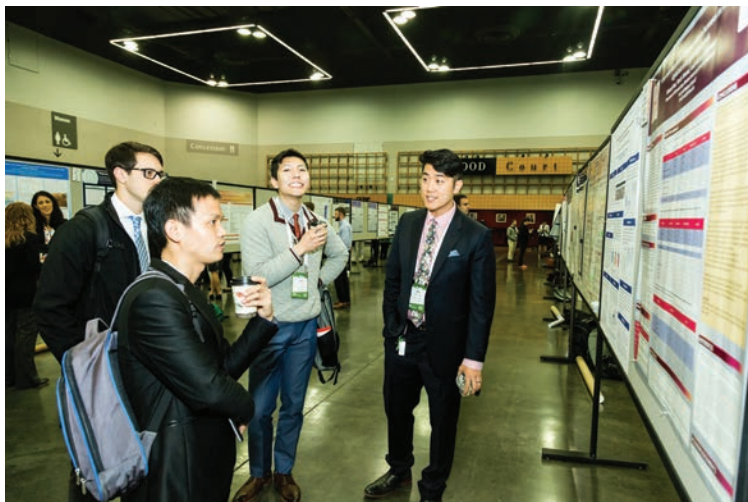
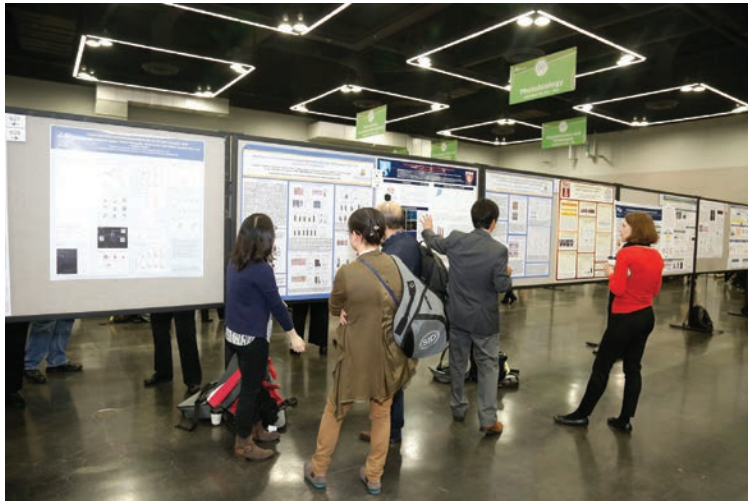
4:30 PM – 6:30 PM

EXHIBIT HALLS A-A1-B

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.

Friday, May 20, 2022:**Even Poster #'s Only**

OPEN TO ALL MEETING ATTENDEES
NON-CME SESSION

ePoster Session 2

Adaptive and Auto-Immunity

FRIDAY, MAY 20, 2022

5:00 PM – 6:00 PM

TERMINAL # 1-ROOM A108

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. Leventhal¹, W. Damsky^{1,2}, M. M. Tomayko^{1,2}

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, R. Wasikowski^{3,2}, C. C. Berthier³, N. Nechiporchik³, V. Ognenovski³, E. Schiopu³, A. Billi³, J. E. Gudjonsson³, J. M. Kahlenberg^{3,1}

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. Dannenfelser², M. Melssen³, I. Tirosh⁴, B. Izar⁵, T. Kim⁶, C. Nirschl⁷, S. Devi¹, W. Olson³, C. Slingluff³, V. Engelhard³, L. Garraway⁸, A. Regev⁹, C. Yoon⁷, O. Troyanskaya², O. Elemento¹, M. Suarez-Farinas¹⁰, N. Anandasabapathy¹

¹Weill Cornell Medicine, New York, New York, United States, ²Princeton University, Princeton, New Jersey, United States, ³University of Virginia, Charlottesville, Virginia, United States, ⁴Weizmann Institute of Science, Rehovot, Israel, ⁵Columbia University, New York, New York, United States, ⁶Yonsei University, Seodaemun-gu, Seoul, Korea (the Republic of), ⁷Harvard University, Cambridge, Massachusetts, United States, ⁸Dana-Farber Cancer Institute, Boston, Massachusetts, United States, ⁹Broad Institute, Cambridge, Massachusetts, United States, ¹⁰Icahn School of Medicine at Mount Sinai, New York, New York, United States

5:18 PM - 5:24 PM

Abstract # 059: Enhanced and suppressed tumor immunity is mediated by IL-1RI 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. Billi¹, M. Gharaee-Kermani², J. Kahlenberg^{1, 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. Li¹, D. Wang^{1,2}, S. Wang^{1,2}, C. Young^{1,2}, X. Wang^{1,2}

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. Lee², S. Oh¹

¹Yonsei University College of Medicine, Seodaemun-gu, Seoul, Korea (the Republic of), ²Yonsei University College of Pharmacy, Incheon, 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. Lee^{1,2}, A. M. Christiano^{1,3}, 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. Lensing^{1,2}, S. J. Connell^{1,2}, P. Christy², A. Jabbari^{1,2,3}

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. Hochman^{3,4}, M. Deng^{3,4}**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 # 215: Cutaneous immune-related adverse events predict longer patient survival in advanced cancer patients****C. Lu^{1,2}, S. Zhang^{1,2}, K. Tang¹, P. Ugwu-Dike¹, N. Raval¹, J. Seo¹, G. Wan^{1,2}, N. Nguyen¹, N. Alexander¹, R. Jairath¹, J. Phillipps¹, B. Leung¹, N. Theodosakis^{1,2}, L. Zubiri¹, G. Boland^{1,2}, D. Liu^{3,2}, S. Chen^{1,2}, N. LeBoeuf^{3,2}, K. Reynolds^{1,2}, K. Yu², H. Tsao^{1,2}, S. Demehri^{1,2}, A. Gusev^{3,2}, S. G. Kwatra⁴, Y. Semenov^{1,2}**¹Massachusetts General Hospital, Boston, Massachusetts, United States, ²Harvard Medical School, Boston, Massachusetts, United States, ³Dana-Farber Cancer Institute, Boston, Massachusetts, United States, ⁴Johns Hopkins University, Baltimore, Maryland, United States, ⁵Brigham and Women's Hospital, Boston, Massachusetts, United States**5:12 PM - 5:18 PM****Abstract # 194: Patient-reported disease burden in epidermolysis bullosa simplex (EBS)****J. So¹, S. Fulchand¹, C. Wong¹, S. Li¹, J. Nazaroff¹, E. Gorell², M. P. de Souza³, D. Murrell⁴, J. Teng¹, A. Chiou¹, J. Tang¹**¹Department of Dermatology, Stanford Medicine, Stanford, California, United States, ²Department of Dermatology, University of Cincinnati, Cincinnati, Ohio, United States, ³deSouzaTech, LLC, Berkeley, California, United States, ⁴Department of Dermatology, University of New South Wales, Sydney, New South Wales, Australia**5:18 PM - 5:24 PM****Abstract # 156: Cutaneous spectrum of VEXAS syndrome****S. Ahmad², M. Ferrada³, D. B. Beck¹, L. L. Wilson⁴, P. C. Grayson³, E. W. Cowen²**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. Fan², A. Leasure², W. Damsky¹, 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. Deng^{3,4}**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. Demehri^{1,2}, K. Yu², A. Gusev^{3,2}, S. G. Kwatra⁴, N. LeBoeuf^{3,2,5}, K. Reynolds^{1,2}, Y. Semenov^{1,2}**¹Massachusetts General Hospital, Boston, Massachusetts, United States, ²Harvard Medical School, Boston, Massachusetts, United States, ³Dana Farber Cancer Institute, Boston, Massachusetts, United States, ⁴Johns Hopkins University, Baltimore, Maryland, United States, ⁵Brigham and Women's Hospital, Boston, Massachusetts, 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, ³Boston Medical Center, Boston, Massachusetts, United States

OPEN TO ALL MEETING ATTENDEES
NON-CME SESSION

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. Swindell⁵, L. C. Tsoi³, J. Kahlenberg², 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. Bao^{1,2}

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. Ogawa², D. Roop³, M. Fujimoto¹

¹Dermatology, Osaka Daigaku Daigakuin Igakukei Kenkyuka Igakubu, 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. PM^{3,4}, K. Vavrova⁵, T. Mauro^{3,4}, J. Meyer^{1,2}

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 Kralove, Hradec Kralove, Hradec Králové, Czechia

5:36 PM - 5:42 PM

Abstract # 428: ROR α 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. Agarwal^{1,2}, T. Dittmar^{1,2}, E. Contassot^{1,2}, 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. Nanes^{1,2,3}, E. Azarova³, K. Bhatt^{2,4,3}, J. Chi^{2,4,3}, T. Isogai^{2,4,3}, K. M. Dean^{2,4,3}, G. Danuser^{2,4,3}

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

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****R. C. Velasco, D. Haynes, T. Reitner, M. Chang, R. Kulkarni, G. Kent, P. Cassidy, T. Greiling**¹Dermatology, 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**¹Charles 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. Pacella^{1,2,3}, A. Anderson¹, E. Ko^{1,3}, B. C. Capell^{1,2,3}**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 White², C. Zeng¹, A. Billi¹, J. E. Gudjonsson¹**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. Baum³, S. Visvanathan⁴, J. G. Krueger¹**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. Shinkuma^{1,2}, R. Hayashi¹, T. Katsumi¹, T. Nishiguchi¹, K. Natsuga³, Y. Fujita^{3,4}, R. Abe¹**¹Dermatology, Niigata Daigaku Igakubu Igakuka Daigakuin Ishigaku Sogo Kenkyuka, Niigata, Niigata, Japan, ²Dermatology, Nara Kenritsu Ika Daigaku Igakubu Igakuka Daigakuin Igaku Kenkyuka, Kashihara, Nara, Japan, ³Dermatology, Hokkaido Daigaku Daigakuin Igaku Kenkyuin, Sapporo, Hokkaido, Japan, ⁴Dermatology, Sapporo City General Hospital, Sapporo, Hokkaido, Japan**5:42 PM - 5:48 PM****Abstract # 486: Gliobenclamide ameliorates skin inflammation in a TRPM4 gain-of-function murine model of imiquimod-mediated psoriasisform dermatitis****D. Yamada¹, S. Vu², X. Wu¹, Z. Shi¹, M. Huynh¹, J. Zheng², S. T. Hwang¹**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. Metwally², 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

OPEN TO ALL MEETING ATTENDEES
NON-CME SESSION

ePoster Session 2

Translational Studies

FRIDAY, MAY 20, 2022

5:00 PM – 6:00 PM

TERMINAL #5-ROOM B112

Moderator: Jaehyuk Choi, MD/PhD

5:00 PM - 5:06 PM

Abstract # 827: Psoriasis exacerbation by obesity reflects reduced adiponectin regulation of PPAR- γ /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. Larson^{1,2}, D. DeMeo^{1,2}, A. Johnson^{1,2}, A. Young², S. Margevicius², J. Rutter^{1,2}, A. Davies^{1,2}, N. Korman^{1,2}, J. B. Travers³, C. A. Rohan³, T. McCormick^{1,2}, K. Cooper^{1,2}

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. Sun², S. Engle², A. Auxier², N. Hahn², J. Sims², A. Okragly², 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. Chin^{1,2}, T. Vazquez^{1,2}, J. Patel^{1,2}, R. Feng³, V. Werth^{1,2}

¹University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States, ²Dermatology, VA Medical Center Corporal Michael J Crescenzo, 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. Antaya², 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. Ahluwalia, C. Crosby

Arena Pharmaceuticals Inc, San Diego, California, United States

5:36 PM - 5:42 PM

Abstract # 857: Racial differences in dysregulation of the renin-angiotensin-aldosterone system in patients with prurigo nodularis

K. K. Lee¹, N. Sutaria¹, M. Marani¹, J. Choi¹, Y. Roh¹, V. Parthasarathy¹, J. Deng¹, Z. A. Bordeaux¹, M. Taylor¹, T. Pritchard¹, A. Alajmi¹, W. Adawi¹, Y. R. Semenov², M. P. Alphonse¹, S. G. Kwatra¹

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

5:42 PM - 5:48 PM

Abstract # 813: Insulin-like growth factor-binding protein 5 alleviates skin inflammation in psoriasis mice model

G. Peng^{1,2}, S. Yoshida², S. Tsukamoto^{1,2}, K. Okumura², H. Ogawa², S. Ikeda^{1,2}, F. Niyonsaba^{2,3}

¹Department of Dermatology and Allergology, Juntendo Daigaku Igakubu Daigakuin Igaku Kenkyuka, Bunkyo-ku, Tokyo, Japan, ²Atopy (Allergy) Research Center, Juntendo Daigaku Igakubu Daigakuin Igaku Kenkyuka, Bunkyo-ku, Tokyo, Japan, ³Faculty of International Liberal Arts, Juntendo Daigaku, Bunkyo-ku, Tokyo, Japan

5:48 PM - 5:54 PM

Abstract # 814: Correlation between skin cytokine profile and response to dupilumab in atopic dermatitis

K. Singh, K. Valido, M. Swallow, J. M. Cohen, W. Damsky

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

5:54 PM - 6:00 PM

Abstract # 826: Recurrence risk in seropositive merkel cell carcinoma: A web-based calculator to interpret merkel cell polyomavirus antibody test results

L. E. Gunnell¹, K. Lachance¹, D. Hippe², M. Bierma¹, K. Cahill¹, T. Akaike¹, P. Nghiem¹

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



OPEN TO ALL MEETING ATTENDEES
NON-CME SESSION

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

J. Edelkamp, M. Bertolini, R. Paus, D. Pinto, Giuliani SpA, H. Erdmann, T. Purba, F. Jimenez, R. Paus. *Abstract Final ID #732.*

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

J. Kim, E. Chang, E.Y. Lee, E. Wang, A.M. Christiano. *Abstract Final ID #829.*

3. Particulate matter induces inflammatory response in human outer root sheath cells via oxidative stress-dependent MAPK and JAK-STAT signaling pathways. H. Choi, H. Lee, J. Na, C. Huh, J. Shin. *Abstract Final ID #705.*

4. EGFR/MEK inhibitor therapy induces partial hair follicle immune privilege collapse in vivo and ex vivo. D. Rutkowski, R. Warren, C. Griffiths, R. Paus. *Abstract Final ID #861.*

5. Transcriptomic profiling of frontal and occipital dermal papilla reveals potential role of TRPS1 in androgenic alopecia. P. Kemp, N. Farjo, B. Farjo, S. Limbu, C. Higgins. *Abstract Final ID #746.*

6. Use of Low-Level Light Therapy in Management of Central Centrifugal Cicatricial Alopecia. M.K. Cook, B. Feaster, J.J. Subash, J. Larrondo, A.J. McMichael. *Abstract Final ID #688.*

7. Charting the human hair follicle microbiome: composition, distribution, and functional impact of the bacterial metabolite, butyrate. M.B. Lousada, J. Edelkamp, R. Paus, T. Lachnit, F. Jimenez. *Abstract Final ID #550.*

8. Adverse events associated with hydroxychloroquine use in cicatricial alopecia patients. M. Collins, S. Ali, I. Pupo Wiss, M. Senna. *Abstract Final ID #204.*

9. Improving hairdressers' knowledge and identification of hair loss disorders with use of an educational video. S. Ali, M. Collins, L. Burns, I. Pupo Wiss, D. Hagigeorges, L. Burns, M. Senna. *Abstract Final ID #364.*

10. The role of lanosterol synthase in patients with congenital hypotrichosis. S. Ali, M. Collins, I. Pupo Wiss, M. Senna. *Abstract Final ID #473.*

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. T. Sezin, A. Abdelaziz, M. Isha, J. Chen, S. Brigitte, E. Wang, D. Zhenpeng, L. Bordone, R. Perez-Lorenzo, A.M. Christiano, Y. Gupta, S. Sanna-Cherchi. *Abstract Final ID #567.*

8:30 PM

Decomposing a deterministic path to hair follicle dermal niche formation: The intersection of two morphogen gradients. G. Strickland, K. Gupta, Y. Jiang, D. Dong, C. Saez, P. Weng, R. Qu, Y. Klugar, P. Myung, M. Taketo. *Abstract Final ID #704.*

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. C. Nicu, T.C. Wikramanayake, J. Gherardini, A. Mello, J. Chéret, R. Paus, P. Frost. *Abstract Final ID #715.*

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 Korolov, 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, PhDDirector of Research and Medical Affairs, Research Staff,
and active awardees while enjoying hors d'oeuvres, desserts,
and complimentary drinks.

SATURDAY, MAY 21, 2022

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NUMBER

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

OPEN TO ALL MEETING ATTENDEES
CME CREDITS: .5

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.

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Handwriting lines for notes, consisting of 12 horizontal blue lines.

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. Guerrero³, A. Ji¹, O. Garcia¹, S. Gambir¹, P. Khavari^{1,4}

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. Zhang², S. B. Tariq¹, Y. Wang¹, D. Hirschhorn-Cymerman¹, L. Ji¹, A. Tan², J. Wang³, W. Yan⁴, J. Choi⁴, 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, ³Genvira Biosciences, Ottawa, Ontario, Canada, ⁴IMVAQ Therapeutics, Sammamish, Washington, United States

8:54 AM - 9:06 AM

Abstract # 741: Structural adaptations of epidermal stem cells to mechanical stress

S. Huang, G. Rice, P. Rompolas

Dermatology, 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. Ma², O. Plazyo¹, M. Calbet⁴, X. Xing¹, M. Gharaee-Kermani^{1, 2}, P. W. Harms^{1, 3}, R. Wasikowski¹, L. Nahlawi¹, A. Billi¹, J. Kahlenberg², E. Maverakis⁵, 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

OPEN TO ALL MEETING ATTENDEES
CME CREDITS: 2.5

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.

SATURDAY, MAY 21, 2022

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 # 013: **T_{RM} create their own pro-survival niche in skin via IL-32**

Y. Watanabe¹, A. Klosowicz¹, K. Yu¹, J. Moore², A. Gehad¹, J. Teague¹, N. Smith³, A. Villani³, 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 # 045: **An EGFR ligand maintains scleroderma skin and lung fibrosis**

I. Odell¹, H. Steach⁴, S. Gauld², T. Carr², J. Wetter², L. Phillips², M. Hinchcliff³, R. Flavell^{4,5}

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, ⁴Immunobiology, 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. Christiano^{1,2}

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 1 interferons in cutaneous lupus**

T. Vazquez^{1,2}, D. Diaz^{1,2}, N. Kodali^{1,2}, J. Patel^{1,2}, E. Keyes^{1,2}, G. Sprow^{1,2}, M. Sharma^{1,2}, M. Ogawa-Momohara^{1,2}, M. Grinnell^{1,2}, J. Dan^{1,2}, V. Werth^{1,2}

¹VA Medical Center Corporal Michael J Crescenzo, 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. Afshari¹, N. Haddadi¹, Y. Wang¹, J. M. Richmond¹, R. Vleugels², 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 # 032: **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. Kahlenberg², J. E. Gudjonsson¹

¹Department of Dermatology, University of Michigan Michigan Medicine, Ann Arbor, Michigan, United States, ²Division 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. Elemento², 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. Smith², Y. Pan¹, J. Zhao¹, J. B. Williams¹, J. Zhang¹, T. Tian¹, T. Pan¹, K. Wu¹, A. Villani², 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. Gherardini^{1,2}, T. Purba³, J. Rodriguez-Feliz⁴, G. Epstein-Kuka⁵, C. Nicu¹, M. Harries³, J. Chéret¹, R. Paus^{1,3,2}

¹Dr. Phillip Frost Department of Dermatology and Cutaneous Surgery, University of Miami School of Medicine, Miami, Florida, United States, ²Monatserium 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.

SATURDAY, MAY 21, 2022

9:45 AM – 12:15 PM

OREGON BALLROOM 204

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. Torregrossa², J. C. Simon^{1,2}, S. Franz²

¹Universitätsklinikum Leipzig Klinik und Poliklinik für 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. Gund², E. M. Mace¹, A. M. Christiano³

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. Aaron², S. Khuon², T. Chew², A. Kowalczyk¹

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. Lentsch³, J. Flesher⁴, S. Jin², C. Polleys⁵, I. Georgakoudi⁵, Q. Nie², M. Balu³, 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

A. Billi, F. Ma, M. Gharaee-Kermani, X. Xing, O. Plazyo, A. Schuler, R. Wasikowski, W. R. Swindell, M. Nakamura, Y. Helfrich, J. Kahlenberg, J. Lee, L. Tsoi, J. Voorhees, G. J. Fisher, J. E. Gudjonsson

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. Shi², L. C. Tsoi¹, J. Nandakumar¹, J. Voorhees¹, Y. Zhao², G. J. Fisher¹

¹University of Michigan, Ann Arbor, Michigan, United States, ²Tsinghua University, 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. Wyetzner¹, C. Reynolds¹, M. Steele¹, E. Hamburg-Shields¹, V. Horsley², R. Atit^{1,3,4}

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

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.

SATURDAY, MAY 21, 2022

9:45 AM–12:15 PM

A105-A106

Presider(s): Adela Rambí Cardones, MD

9:45 AM - 9:57 AM

Abstract # 281: Antenatal vitamin D supplementation & offspring risk of atopic eczema in infancy.

S. El-Heis¹, S. D'Angelo¹, E. Curtis¹, E. Healy², R. Moon¹, S. Crozier^{1,3}, H. Inskip^{1,4}, C. Cooper^{1,4}, N. Harvey^{1,4}, K. Godfrey^{1,4}

¹MRC Lifecourse Epidemiology Centre, University of Southampton, Southampton, Hampshire, United Kingdom, ²Dermatopharmacology, University of Southampton Faculty of Medicine, Southampton, Southampton, United Kingdom, ³NIHR Applied Research Collaboration Wessex, National Institute for Health Research, Southampton, United Kingdom, ⁴NIHR Southampton BRC, National Institute for Health Research, Southampton, United Kingdom

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)

A. Bruckner⁴, J. Tang⁵, W. Chung¹, K. Morel¹, M. Chen², D. Woodley², D. Keene⁶, K. Peoples⁴, M. Barriga⁵, J. Carroll¹, L. Levin¹, S. Ravindran³, M. Mangone³, D. Ramsdell², H. Landy³

¹Columbia University Irving Medical Center, New York, New York, United States, ²University 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

10:09 AM - 10:21 AM

Abstract # 314: Mass spectrometry-based plasma proteomics analysis reveals IL-31 inhibition modulates cutaneous and systemic inflammation in prurigo nodularis

S. G. Kwatra¹, M. P. Alphonse¹, V. Parthasarathy¹, J. Deng¹, K. K. Lee¹, S. Stander², C. Piketty³, L. Tille³, H. Kamali³, J. K. Krishnaswamy³, V. Julia³

¹Dermatology, Johns Hopkins Medicine, Baltimore, Maryland, United States, ²Department of Dermatology and Center for Chronic Pruritus, Universitätsklinikum Munster, Munster, Nordrhein-Westfalen, Germany, ³R&D, Galderma R&D, Entre-deux-villes, Switzerland

10:21 AM - 10:33 AM

Abstract # 292: Is it safe to discontinue immunotherapy after a response in merkel cell carcinoma?

L. Tachiki¹, L. Zawacki¹, D. Hippe², Y. Moshiri¹, N. Alexander¹, T. Akaike¹, C. Doolittle-Amieva¹, T. Pulliam¹, L. Zaba³, 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. Iwummadu^{1,2}, J. Nazaroff¹, I. Bailey¹, D. McCarthy², M. Mirza², 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 # 280: A phase 2 randomized clinical trial of serlopitant, a neurokinin-1 receptor antagonist for the treatment of chronic itch in patients with epidermolysis bullosa

U. Okata-Karigane¹, E. Gorell¹, K. Sum¹, K. Yekrang¹, M. Phung¹, M. Barriga¹, P. Udrizar¹, I. Bailey¹, S. Li¹, J. Tang¹, A. Chiou¹

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. Bissonnette², E. Berdyshev¹, P. Jurvilliers³, I. Agueusop⁴, A. Praestgaard⁵, M. Dillon⁶, A. Rossi⁵, A. Zhang⁵

¹National Jewish Health, Denver, Colorado, United States, ²Innovaderm Research, Montreal, Quebec, Canada, ³Sanofi SA, Chilly-Mazarin, Île-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 biologic-exposed versus biologic-naïve patients with moderate-to-severe atopic dermatitis

M. Gooderham¹, B. Strober^{2,3}, M. Ardern-Jones⁴, E. Guttman-Yassky⁵, M. Levenberg⁶, G. Chan⁷, P. Biswas⁸, M. Watkins⁹

¹SKIN Centre 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 KEEPSAKE 2)

J. Merola¹, K. Duffin², B. Padilla³, Z. Xue³, H. Photowala³, B. Kaplan³, I. McInnes⁴

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 Rosa¹, S. Owji¹, Y. Estrada¹, J. Ungar¹, J. G. Krueger², N. Gulati¹

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: Berdazimer 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. Cartwright¹, A. Paller²

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: Effisayil 1 study results

M. Anadkat³, M. Lebowohl¹, B. Elewski², U. Mrowietz³, S. Imafuku⁴, J. Xu⁵, L. Ling⁶, M. Quaresma⁷, C. Thoma⁷, H. Bachelez⁸

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, ⁸Hôpital Saint-Louis, Paris, France, ⁹Washington University School of Medicine, St. Louis, Missouri, 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

Presider(s): Michael Kemp, PhD, Thomas Ruenger, MD

9:45 AM - 9:57 AM

Abstract # 606: Translation and growth pathways are directly influenced by autoimmune regulator (Aire) 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. Wei², P. Shah¹, G. Park¹, X. Cui², C. He², Y. He¹

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. Li^{1,2}, T. Vazquez^{1,2}, M. Ogawa-Momohara^{1,2}, V. Werth^{1,2}

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

10:21 AM - 10:33 AM

Abstract # 605: Phototherapy-induced IFN κ drives type I IFN induced anticancer responses in CTCL

Z. Yu¹, A. Gehad¹, J. Teague¹, J. Crouch¹, K. Yu¹, J. O'Malley¹, T. Kupper¹, T. Benezeder², J. E. Gudjonsson³, J. M. Kahlenberg³, M. Sarkar³, P. Vieyra-Garcia², P. Wolf², 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 SPI-dependent manner

D. J. Kim¹, A. Iwasaki¹, A. L. Chien², 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. Schwender², J. Krutmann^{1,3,4}

¹IUF – 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. Grenier^{1,2}, P. J. Rochette^{1,3}, R. Pouliot^{1,2}

¹Centre de Recherche en Organogénèse Expérimentale de l'Université Laval/LOEX, Axe Médecine Régénératrice, Centre de recherche du CHU de Québec-Université Laval, Québec, Québec, Canada, ²Faculté de pharmacie, Université Laval, Québec, Québec, Canada, ³Département d'ophtalmologie et ORL-chirurgie cervico-faciale, Université Laval Faculté de médecine, Québec, Québec, 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. Oh^{1,2}

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

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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.

SATURDAY, MAY 21, 2022

9:45 AM – 12:15 PM

C123-C124

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. Wei^{1,2}, D. X. Zheng^{1,2}, C. R. Cullison^{1,2}, 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. Cai^{2,3}, 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,

³Department of Population and Sciences, 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. Tomz¹, L. A. Barnes¹, J. Lester³, 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

F. Ahmed¹, R. Fitzsimmons¹, E. Chu¹, D. B. Shin¹, J. Takeshita¹

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. Li³, J. Hu⁴, A. J. James²

¹University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania, United States, ²Dermatology, UPMC, Pittsburgh, Pennsylvania, United States, ³Computer Science, University of Pittsburgh, Pittsburgh, Pennsylvania, United States, ⁴Electrical & Computer Engineering, University of Pittsburgh, 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. Tran¹, I. H. Moseley¹, E. A. George¹, E. Cho¹

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

M. Taylor¹, V. Parthasarathy¹, J. Deng¹, Z. A. Bordeaux¹, K. K. Lee¹, M. P. Alphonse¹, S. G. Kwatra¹

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. DeGrazia², 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

G. 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. Wan², C. Lu², N. Sutaria¹, N. Nguyen², M. Szeto¹, W. Adawi¹, J. Deng¹, V. Parthasarathy¹, Z. A. Bordeaux¹, M. Taylor¹, M. Marani¹, K. Lee¹, M. P. Alphonse¹, S. Kang¹, Y. Semenov², A. Gusev³, 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. Xing², J. E. Gudjonsson², A. Byrd³, S. Kang¹

¹Dermatology, Johns Hopkins University, Baltimore, Maryland, United States, ²Dermatology, University of Michigan, Ann Arbor, Michigan, United States, ³Dermatology, Howard University, Washington, District of Columbia, 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. Christiano^{1,2}

¹Dermatology, Columbia University, New York, New York, United States, ²Genetics and Development, Columbia University, New York, New York, United States

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Naomi M. Kanof Clinical Investigator Award

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

1993	Alvan Feinstein
1994	R. Michael Blaese
1995	Judah Folkman
1996	Jean Wilson
1997	C. Garrison Fathman
1998	Jeffrey Bluestone
1999	Brian Strom
2000	William Kelley
2001	James Ostell
2002	Leena Peltonen
2003	Judith Campisi
2004	Brian Druker
2005	Joseph Nadeau
2006	John Schiller
2007	Thomas Pearson
2009	Mahlon DeLong
2010	Douglas Lowy
2011	David Lane
2012	Luis Parada
2014	Mark Chance
2015	Madeleine Duvic
2016	Roger Perlmutter
2017	James Bradner
2019	Suephy Chen
2020	Victoria Werth
2021	Mary Margaret "Meg" Chren



SID Governance

Julius Stone Lectureship

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

1999	Eli Gilboa
1999	Stephen Johnston
1999	Jeffrey Trent
2000	Nigel Bunnett
2000	Ronald Crystal
2000	Ralph Steinman
2001	Roland Martin
2002	Gerald Crabtree
2004	Adrian Hayday
2005	Polly Matzinger
2006	Alexander Rudensky
2007	Donald Y. M. Leung
2009	Jamey Marth
2010	Rafi Ahmed
2011	Casey Weaver
2012	Rebecca Buckley
2014	Alice P. Pentland
2015	Arlene H. Sharpe
2016	John O'Shea
2017	Bruce Beutler
2019	Yasmine Belkaid
2020	Gabriel Nunez
2021	Ikiko Iwasaki

William Montagna Lectureship

This annual award is intended to honor and reward young active investigators. Primary emphasis is given to researchers in skin biology.

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







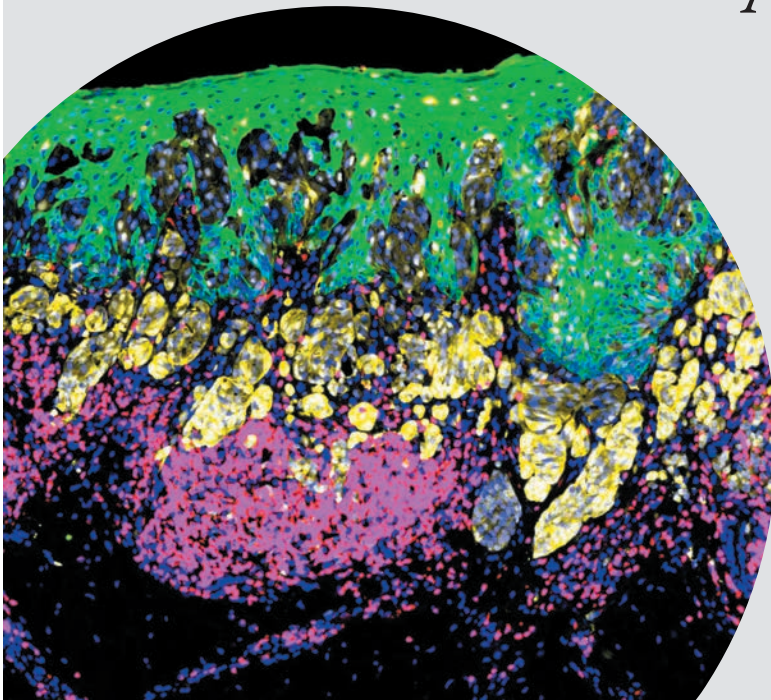
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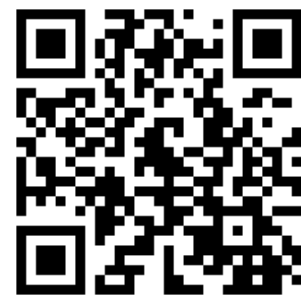


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August 2022

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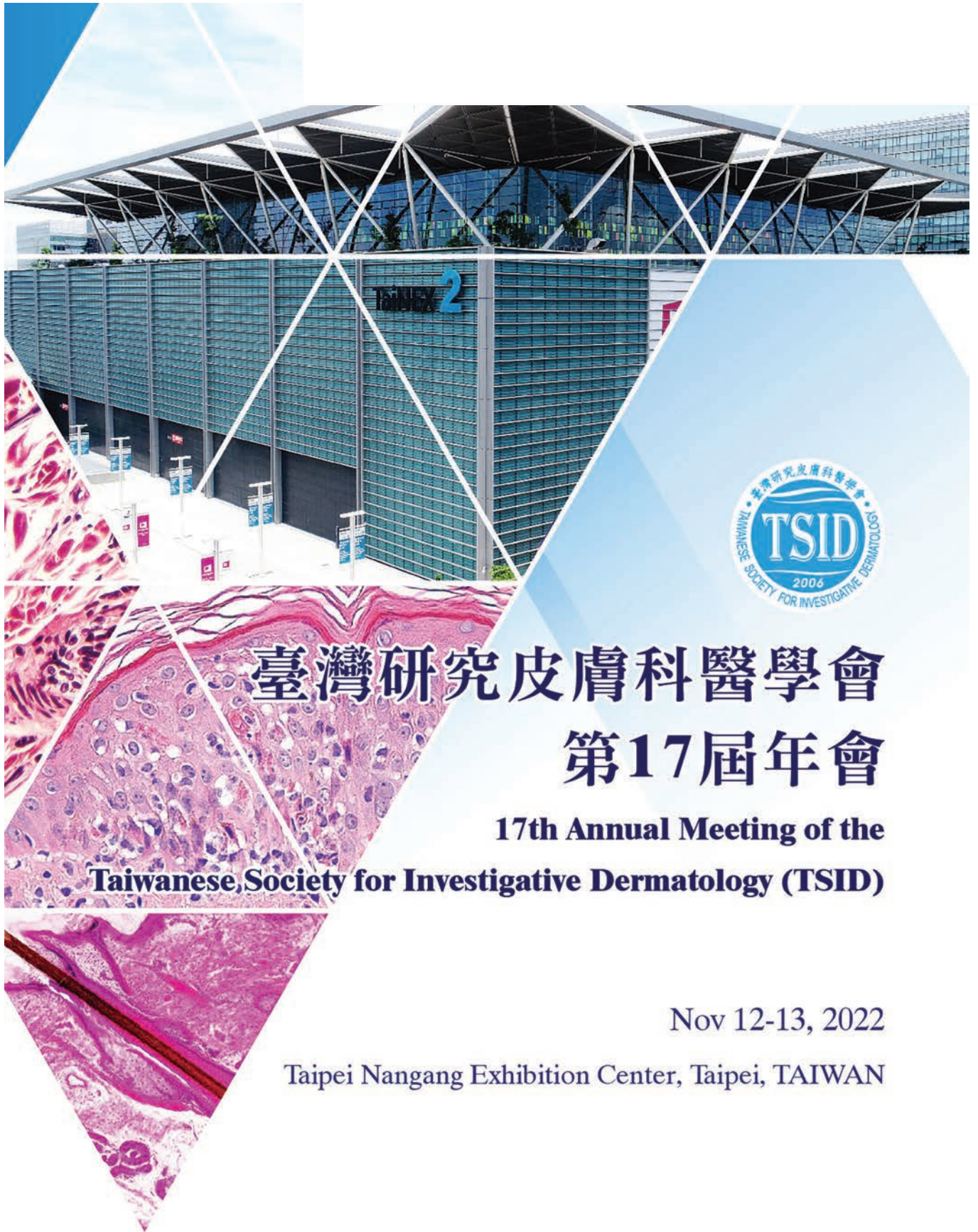
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Taiwanese Society for Investigative Dermatology (TSID)**

Nov 12-13, 2022

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Taiwanese Society for Investigative Dermatology (TSID)
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Meeting Organizer :

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30 THE KOREAN SOCIETY FOR
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since 1991

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(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

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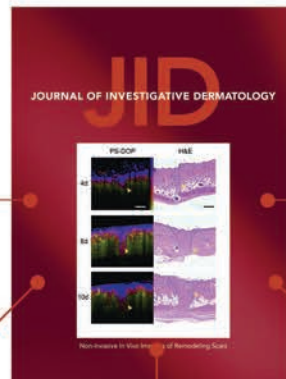
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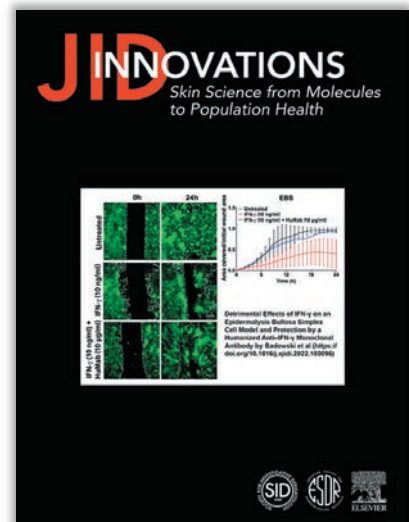
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