

2021 SID Virtual Meeting May 3-8, 2021



SID Virtual 2021 Meeting

2021 Annual Meeting Scientific Program Chairs, Committee Members, and Reviewers

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ACKNOWLEDGEMENTS

The organizers of the 2021 SID Virtual Meeting gratefully acknowledge the sponsors, exhibitors, and participants whose attendance has helped to make this meeting possible.



On behalf of the Society for Investigative Dermatology (SID), welcome to the 2021 Virtual Meeting.

Welcome

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

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

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

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

Janen a. Zairlegar

Janet Fairley, MD SID President



Meeting-At-A-Glance

MONDAY, MAY 3, 2021

10:30 AM ET - 10:45 AM ET SID President's Welcome: Janet Fairley, MD

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

TUESDAY, MAY 4, 2021

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

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

12:00 PM ET - 12:30 PM ET

State-of-the-Art Plenary Lecture I: Julia Oh, PhD

WEDNESDAY, MAY 5, 2021

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

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

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

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

THURSDAY, MAY 6, 2021

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

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

12:00 PM ET - 12:30 PM ET

State-of-the-Art Plenary Lecture IV: Donald Glass, MD/PhD

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

FRIDAY, MAY 7, 2021

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

10:45 AM ET - 11:15 AM ET

Eugene M. Farber Lecture: April Armstrong, MD/MPH

11:15 AM ET - 11:45 AM ET State-of-the-Art Plenary Lecture V:

C. Henrique Serezani, PhD

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

SATURDAY, MAY 8, 2021

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

11:30 AM ET - 12:00 PM ET Naomi M. Kanof Lecture: Mary Margaret "Meg" Chren, MD

12:00 PM ET - 12:30 PM ET State-of-the-Art Plenary Lecture VI: Shuai "Steve" Xu, MD/MSc



Notable Meeting Programming

Virtual Poster/Exhibitor Sessions

Wednesday, May 5 and Thursday, May 6, 2021 2:30 pm ET - 4:00 pm ET

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

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

Categories to be presented on Wednesday, May 5, 2021:

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

Categories to be presented on Thursday, May 6, 2021:

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

Irvin H. Blank Forum

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

Translational Symposium

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

Clinical Scholars Outcomes

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

Resident Track Programming

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

Sponsored Symposia

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

Interactive Networking Lounges

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

Resource Center

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



SID Virtual Meeting

CME Statement and Objectives

The 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 2021 SID MEETING is designed to develop, maintain, and/or increase the abilities, skills, and professional performance of its target audiences. 2021 SID MEETING CME activities will:

- Disseminate updated evidence-based knowledge of skin biology/disease and applications for maintaining health and preventing, diagnosing, and treating disease in a manner that fosters scientific excellence, elevates the standard of care, and meets high ethical standards.
- Provide target audiences with a relevant forum for the exchange of cutting-edge scientific ideas, information, and methodology.
- 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 2021 SID MEETING CME activities include all of the sectors of the dermatology community, consisting of research investigators, clinicians, research and clinical trainees, members of industry, and community advocates for skin health/ disease.

LEARNING OBJECTIVES

At the conclusion of this activity, participants should be able to:

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

FACULTY LISTING

Activity Medical Director:

Kevin Cooper, MD

Chair, Department of Dermatology Case Western Reserve University

SUMMARY OF FACULTY DISCLOSURE/CONFLICT RESOLUTION

Staff and Content Validation Reviewer Disclosure

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

Resolution of Conflicts of Interest

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

UNAPPROVED USE DISCLOSURE STATEMENT

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

DISCLAIMER

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

INSTRUCTIONS ON HOW TO RECEIVE CREDIT

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

ACCREDITATION STATEMENT

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

AMA CREDIT STATEMENT

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



2021 Virtual Meeting Registration Grant Awardees

Adam Jorgensen, BS Akira Utsunomiya, PhD Alexandra Kuzyk, MD/PhD Alexandra Maldonado López, BSc Alison Kohn, BS Alysha Dhami, MD Amanda Zhou, BS Amber Jimenez, BS Anastasiya Muntyanu, MD Anjana Sevagamoorthy, MBBS/MPH Anna Garza-Mayers, MD/PhD Anna Jussila, PhD Candidate Annelise Colvin, BA Anngela Adams, MS Audrey Leasure, BS Auke Otten, PhD Austin Burns, BS Avinash Padhi, PhD Bansri Patel, BS Blanca Estupinan, MD Breanna Nauven, BA Brett Cutler, BS Britney Wilson, MBS Caralin Schaneider, BA Casey Richenberger, BS Chloe Walker, MD/MHS Christine Youn, MS Christopher Cullison, BS Christopher Herbst, BS Christopher Cook, MS Claire Kovalchin, BS Claire Mazahery, PhD Daisuke Yamada , MD/PhD Daniel Andersen, PhD Daniela Mikhaylov, BA Danny Linggonegoro, BS David Gao, BA Derrick Lin, BS Devin Barzallo, BA Diya Ramanathan, BA Dyuti Saha, PhD Edward Hadeler, BA Ehizogie Edigin, MD Elisabeth Pedersen, MD/PhD Elisabetta Palazzo, PhD Emma Larson, MD Fang Wang, MD/PhD Fatuma Ayaan Rinderknecht, BA Gaofeng Wang MD/PhD Ge Peng, MD Geil Merana, BS Grace Hile, MD Grace Wei, MS/MPH

Guodong Chen, PhD Guorong Yan Ha Eun Kong, PhD Hafeez Shaka, MD Hai Nguyen, MD Hainan Yue, MD Hannah Plunkett, MS Hiroshi Kasamatsu Houda Khatif, PhD Jacob Nosewicz, BS Jadesola Olayinka, BSc James Dight, PhD Candidate Jared Kahn, MS/BS Jatin Narang, BS Jeffrey Rajkumar, BS Jelena Marjanovic, PhD Jennifer Yeh, MD/PhD Jessica Forman, BS Jin Yong Kim, MD/PhD John David Baker, BA John Lin, BS John McGovern, BA Joohee Han, MD Julia Gao, BS Justine Seivright, BS Kathryn Luly, BS Kelly Flanagan, MS Kelsey Nusbaum, BS Kerry Hennessy, MD Khalid Garman, MD/PhD Krittin Supapannachart, MPH Lei Zhao, PhD Leilani Roberson, BA Leslie Chan, BA Lixiang Sun Lydia Ouchene, BSc Maaz Ahsan, BS Madeline Kim, BA Maha Kazmi, BS Manel Ben Hammouda, PhD Marc Liggins, PhD Maria Fernanda Forni, PhD Marissa Lobl, BS Mary Cowden, BA Masaoki Kawasumi, MD/PhD Megan Lam, BSc Meimei Yin, MS Michael Goldenberg, BS Michael Chang, BA Michelle Le, MD Miho Mukai Miki Kume, MD Mohammad Sherwani, PhD

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Abstract Presentation Information

ORAL PRESENTATIONS

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

Plenary

Plenary talks are scheduled at the rate of four (4) per hour over four (4) different sessions and be presented live. This allows for twelve (12) minutes of presentation and three (3) minutes for discussion. To coordinate sessions, the time limit will be strictly adhered to, or you will be asked to terminate your presentation by the session moderator(s).

Concurrent Mini-Symposium

Oral presentations are 12 talks per category (with exception of Interdisciplinary Session) and are to be ten minutes in length. Concurrent talks are prerecorded and available on-demand from May 3 - May 31, 2021.

E-Poster Talks

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

POSTER ONLY PRESENTATIONS

Poster Only Presentations

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

CONFLICT OF INTEREST

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



Sponsor and Exhibitor Information

COMMERCIAL SUPPORT

Ortho Dermatologics Sanofi Genzyme & Regeneron Pharmaceuticals

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GOLD

Janssen Research & Development LLC Mary Kay

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GOLD

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PARTNERS

Foundation for Sarcoidosis Research International Alliance of Dermatology Patient Organizations National Eczema Association National Psoriasis Foundation Pachyonychia Congenita Project (PC Project) Travel Portland





Future SID Annual/ISID Meetings











2022 SID Annual Meeting May 18-21, 2022

Oregon Convention Center Portland, Oregon

2023 ISID Meeting May 10-13, 2023

Keio Plaza Hotel Tokyo, Japan

2024 SID Annual Meeting May 15-18, 2024

Hilton Anatole Dallas, Texas

2025 SID Annual Meeting May 7-10, 2025

Hilton San Diego Bayfront San Diego, California

2026 SID Annual Meeting May 13-16, 2026

Hilton Chicago Chicago, Illinois

Julius Stone Lecture

Immune Responses to SARS-CoV-2

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

Introduction by: Johann Gudjonsson, MD/PhD



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

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

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

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

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

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



LECTURESHIP HISTORY

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



Adaptive and Auto-Immunity

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

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

CONCURRENTS THEATER

Poster # 002 Colitis alters the antigen-specific response to skin commensal bacteria and predisposes to neutrophilic skin inflammation

<u>G. R. Merana</u>, M. Dhariwala, T. Scharschmidt

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

Poster # 012 FABP5-induced Th17 polarization in atopic march

J. Lee^{1, 3, 4}, B. Kim¹, K. Zhang^{1, 2}, <u>S. Kim¹</u>, T. S. Kupper⁶, K. Lee^{1, 2, 5}, C. Park^{1, 2, 5}

¹Department of Dermatology and Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seodaemungu, Seoul, Korea (the Republic of), ²Brain Korea 21 Project for Medical Science, Yonsei University College of Medicine, Seodaemun-gu, Seoul, Korea (the Republic of), ³Department of Dermatology, Pusan National University School of Medicine, Busan, Korea (the Republic of), ⁴Research Institute for Convergence of Biomedical Science and Technology, Pusan National University School of Medicine, Busan, Korea (the Republic of), ⁵Institute of Allergy, Yonsei University College of Medicine, Seodaemun-gu, Seoul, Korea (the Republic of), ⁶Department of Dermatology & Harvard Skin Disease Research Center, Brigham and Women's Hospital, Boston, Massachusetts, United States

Poster # 015 Role of hippo signaling in apoptosis of lupus keratinocytes

G. <u>Hile</u>¹, P. Coit¹, S. Estadt¹, M. Maz¹, B. Xu¹, R. Wasikowski¹, L. Tsoi¹, A. C. Billi¹, J. E. Gudjonsson¹, A. Sawalha², J. M. Kahlenberg¹

¹University of Michigan, Ann Arbor, Michigan, United States, ²University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, United States

Poster # 019 Vgll3 causes discoid lupus-like fibrosis in a mouse model of lupus

<u>M. Gharaee-Kermani^{1, 2}, A. C. Billi1, J. M. Kahlenberg^{2, 1}, J. E.</u> Gudjonsson¹

¹Department of Dermatology, University of Michigan, Ann Arbor, Michigan, United States, ²Internal Medicine, University of Michigan, Ann Arbor, Michigan, United States

Poster # 024 Immune microenvironment deep profiling of cutaneous lupus erythematosus skin stratified by patient response to antimalarials

J. Patel^{*1, 2}, <u>T. Vazquez^{1, 2}</u>, D. Yan^{1, 2}, E. Keyes^{1, 2}, D. Diaz^{1, 2}, Y. Li^{1, 2}, M. Grinnell^{1, 2}, R. Feng², V. Werth^{1, 2} ¹Corporal Michael J. Crescenz VAMC, Philadelphia,

¹Corporal Michael J. Crescenz VAMC, Philadelphia, Pennsylvania, United States, ²University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States

Poster # 025 ALA-PDT inhibits skin squamous cell carcinoma (cSCC) via regulating formation of tertiary lymphoid structures

<u>Q. Zeng</u>, G. Zhang, G. Yan, P. Wang, X. Wang Tongji University, Shanghai, Shanghai, China

Poster # 027 Langerhans cells rely on good neighbors to overcome gene deficiencies

<u>C. Herbst¹</u>, A. Bouteau¹, Q. Su², B. Z. Igyártó¹

¹Microbiology and Immunology, Thomas Jefferson University, Philadelphia, Pennsylvania, United States, ²OncoNano Medicine Inc, Southlake, Texas, United States

Poster # 033 IL-15 is an unexpected guardian of hair follicle immune privilege and promotes human hair growth ex vivo

<u>T. Suzuki</u>¹, F. Scala¹, J. Gherardini², C. Nicu¹, J. O'Sullivan¹, G. Epstein-Kuka³, T. Purba⁴, J. Cheret¹, R. Paus^{1, 2, 4}

¹Dr. Phillip Frost Department of Dermatology and Cutaneous Surgery, University of Miami School of Medicine, Miami, Florida, United States, ²Monasterium Laboratory, Münster, Germany, ³Foundation for Hair Restoration, Miami, Florida, United States, ⁴The University of Manchester, Manchester, Manchester, United Kingdom

Poster # 035 Expansion of bacterial phosphatidylglycerol reactive CD4+ T cells in atopic dermatitis

G. C. Monnot¹, M. Wegrecki², B. N. Sallee¹, L. A. Bordone¹, C. H. Rohde⁴, J. Rossjohn^{2, 3}, <u>A. de Jong</u>¹

¹Dermatology, Columbia University Irving Medical Center, New York, New York, United States, ²Monash University, Clayton, Victoria, Australia, ³Cardiff University Cardiff Institute of Infection and Immunity, Cardiff, Cardiff, United Kingdom, ⁴Surgery, Columbia University Irving Medical Center, New York, New York, United States

Poster # 036 IL-23 maintains tissue resident memory Th17 cells in murine and psoriatic skin

<u>S. K. Whitley</u>^{1, 2}, M. Li¹, T. Hirai^{1, 2}, J. Ho1, R. Lafyatis^{3, 2}, M. J. McGeachy³, D. H. Kaplan^{1, 2}

¹Dermatology, University of Pittsburgh, Pittsburgh, Pennsylvania, United States, ²Immunology, University of Pittsburgh, Pittsburgh, Pennsylvania, United States, ³Medicine, University of Pittsburgh, Pittsburgh, Pennsylvania, United States

Poster # 039 IL-7 regulates the PD-1 signaling pathway via degradation by E3 ubiquitin ligase F-Box Protein 38 Z. Dai, Y. Chang, A. M. Christiano

Dermatology, Columbia University, New York, New York, United States

Poster # 040 Single-cell RNA sequencing identifies a disease-dominant CD8+ T cell population co-expressing both activating and inhibitory receptors of the NKG2 family Z. Dai¹, E. H. Wang¹, E. Y. Lee¹, I. Monga¹, <u>M. Zhang¹</u>, A. M. Christiano^{1,2}

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



Carcinogenesis and Cancer Genetics

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

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

CONCURRENTS THEATER

Poster # 042 Competition for active TGF β augments accumulation of antigen-specific CD8+ T cells in murine melanoma

<u>B. Nguyen^{1, 2},</u> T. Hirai³, C. Liu^{1, 4, 5}, D. A. Vignali^{1, 4, 5}, D. H. Kaplan^{1, 2}

¹Department of Immunology, University of Pittsburgh, Pittsburgh, Pennsylvania, United States, ²Department of Dermatology, University of Pittsburgh, Pittsburgh, Pennsylvania, United States, ³BIKEN Innovative Vaccine Research Alliance Laboratories, Research Institute for Microbial Diseases, Osaka Daigaku, Suita, Osaka, Japan, ⁴Tumor Microenvironment Center, UPMC Hillman Cancer Center, Pittsburgh, Pennsylvania, United States, 5Cancer Immunology and Immunotherapy Program, UPMC Hillman Cancer Center, Pittsburgh, Pennsylvania, United States

Poster # 043 Loss of DLX3 tumor suppressive function is associated with poor prognosis in human SCCs

<u>D. Bajpai</u>¹, S. Mehdizadeh¹, A. Uchiyama², Y. Inoue², A. Sawaya¹, A. Overmiller¹, S. Brooks¹, M. Kellett¹, E. Palazzo¹, S. Motegi², S. Yuspa³, C. Cataisson³, M. Morasso¹

¹National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, United States, ²Gunma Daigaku, Maebashi, Gunma, Japan, ³National Cancer Institute, Bethesda, Maryland, United States

Poster # 048 Human protein SLURP-1 inhibits melanoma cells migration by interaction with a7-nAChRs

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Poster #051 CD271 activation reduces SCC spheroid aggressiveness, modulates keratinocyte differentiation and favors response to therapy

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Poster # 052 Staphylococcal enterotoxin promotes the development and maintenance of the skin lesions in cutaneous T cell lymphoma

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Poster # 060 Toll-like receptor 4 activity in the tumor microenvironment promotes cutaneous T-cell lymphoma B. Shah, E. Correia, <u>N. Nikbakht</u>

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Poster # 065 C-FOS drives reversible basal to squamous cell carcinoma transition

<u>F. Kuonen^{1, 2}, N. Li¹, D. Haensel¹, T. Patel¹, S. Gaddam¹, L. Yerly², K. Rieger¹, S. Aasi¹, A. Oro¹</u>

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Poster # 070 Comprehensive single-cell analysis of Sézary syndrome reveals novel expression and therapeutic biomarkers

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Poster # 071 RET is a therapeutic target in cutaneous squamous cell carcinoma

<u>J. Garcia</u>¹, C. Tommasi¹, D. Sessions¹, A. Mah¹, T. Bencomo¹, A. Srivastava¹, A. Amado¹, K. Y. Tsai³, V. Lopez-Pajares¹, C. Lee^{1, 2}

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Poster # 076 Subtype specific analyses reveal infiltrative basal cell carcinoma are highly interactive with their environment

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Poster # 083 Chemically-induced cutaneous neoplasms spontaneously regress in mice lacking autoimmune regulator

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Poster # 085 CCN1-induced age-related dermal microenvironment promotes skin cancer development

T. Quan, Y. Xiang, Y. Liu, C. Guo, Y. Yan, A. A. Dlugosz, J. J. Voorhees, <u>G. J. Fisher</u>

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Cell-Cell Interactions in the Skin

Studies on cell-cell interactions between keratinocytes, nerves (neuro-cutaneous biology), stromal and immune cells in the skin and their local cellular and extracellular environments that affect skin inflammation, sensation (e.g., itch and pain), signaling, adhesion, migration, development and homeostasis.

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Poster # 087 Expression of opsin 3 in skin tissues and hemangioma vessels and may be involved in vascular development <u>H. Luo</u>, H. Lu

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Poster # 091 MARCH family E3 ubiquitin ligases selectively target cadherin family proteins for degradation T. Seo, A. Kowalczyk

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Poster # 095 Bioengineering a complex skin equivalent for skin care applications

L. Costello¹, K. Goncalves¹, A. Simpson¹, L. Smith¹, M. Freer¹, V. Maltman¹, P. De Los Santos Gomez¹, P. Ritchie¹, B. Hulette², R. Tasseff², T. Dicolandrea², K. Mills², R. Isfort², C. Bascom², S. Przyborski^{1,3}

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Poster # 096 Architectural changes in desmosomes during assembly and maturation

<u>R. Beggs</u>¹, **T. Rao**¹, **W. Dean**¹, **A. Kowalczyk**², **A. L. Mattheyses**¹ ¹Cell, Dev, and Integrative Bio, The University of Alabama at Birmingham, Birmingham, Alabama, United States, ²Dermatology, Penn State College of Medicine, Hershey, Pennsylvania, United States

Poster # 098 Age-related reduction of fibroblast size induces hepatocyte growth factor expression in a YAP/TAZ dependent manner

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Poster # 099 Retromer-dependent Dsg1 trafficking promotes epidermal differentiation and is enhanced by a small molecule chaperone

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Poster # 100 Pathogenic CD8+ T cells form cytolytic immune synapses to mediate hair follicle destruction in Alopecia Areata

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Poster # 102 Transcriptomic profiling of cutaneous sarcoidosis

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Poster # 103 The contact hypersensitivity defect in mice lacking epidermal Pparg requires signaling through TNFR1, TNFR2, and tryptophan hydroxylase 1

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Poster # 105 Wnt signaling stimulates ATGL-regulated lipolysis in dermal fibrosis

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Poster # 106 IL-33 signaling in sensory neurons promotes dry skin itch

A. M. Trier^{1, 2}, M. R. Mack^{1, 2}, J. Guo^{1, 3}, M. Tamari^{1, 2}, A. Fredman^{1, 2}, L. K. Oetjen^{1, 2}, J. Feng^{1, 3}, R. W. Gereau^{3, 4}, S. Davidson⁵, H. Hu^{1, 3}, Q. Liu^{1, 3}, B. S. Kim^{1, 2, 6}

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Poster # 107 CO-Detection by indexing (CODEX) reveals clinically distinct classes of eczematous rashes

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Epidermal Structure and Barrier Function

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

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Antimicrobial peptide hBD-3 improves Th2 **Poster # 108** cytokine-mediated impairment of tight junction barrier

through autophagy activation <u>G. Peng</u>^{1, 2}, Y. Umehara², M. Komatsu³, K. Okumura², H. Ogawa², S. Ikeda^{1, 2}, F. Niyonsaba^{2, 4}

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Poster # 109 IL-4 and IL-13 cytokines drive sex steroid hormone synthesis and lipid abnormalities in sebocyte during atopic dermatitis pathogenesis

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Poster # 110 Deletion of TNFAIP6 gene in human keratinocytes by CRISPR/Cas9 edition demonstrates a role for TSG-6 to retain hyaluronan inside epidermis

<u>C. Evrard,</u> E. Faway, E. De Vuyst, O. Svensek, O. De Backer, B. Flamion, C. Lambert de Rouvroit, Y. Poumay Universite de Namur, Namur, Belgium

Poster # 111 Type XVII collagen modulates epidermal patterning

 patterning
 Y. Wang⁶, H. Kitahata¹, H. Kosumi⁶, M. Watanabe^{6, 2},
 Y. Fujimura⁶, S. Takashima⁶, S. Osada³, T. Hirose⁴, W. Nishie⁶,
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Poster # 115 Aged human keratinocytes have protein coding and noncoding RNA signatures indicative of inflammation, defective proliferation, and barrier deficiency

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Poster # 116 SDR9C7 catalyzes the critical dehydrogenation of acylceramides for skin barrier formation

<u>T. Takeichi</u>¹, T. Hirabayashi², Y. Miyasaka¹, A. Kawamoto³, Y. Okuno¹, S. Taguchi⁴, K. Tanahashi¹, C. Murase¹, H. Takama⁵ K. Tanaka³, W. Boeglin⁶, M. Calcutt⁶, D. Watanabe⁵, M. Kono¹, Y. Muro¹, J. Ishikawa³, T. Ohno¹, A. R. Brash⁶, M. Akiyama¹ ¹Nagoya Daigaku Daigakuin Igakukei Kenkyuka Igakubu,

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Poster # 117 Effect of the antimicrobial peptide derived from insulin-like growth factor-binding protein 5 on skin barrier regulation

H. L. Nguyen^{1, 2}, J. V. Trujillo¹, G. Peng^{1, 2}, H. Yue^{1, 2}, M. Takahashi^{1, 2}, R. Ikutama^{1, 2}, Y. Umehara¹, H. Ogawa^{1, 2}, S. Ikeda^{1, 2}, F. Niyonsaba^{1, 3} ¹Atopy (Allergy) Research Center, Juntendo University Graduate

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Poster # 118 Ichthyosis transcriptome reveals increased atherosclerosis markers and immune and barrier

differences amongst subtypes <u>M. Kim</u>¹, D. Mikhaylov¹, M. Sun¹, K. Malik¹, H. He¹, Y. Renert-Yuval¹, A. B. Pavel¹, A. Paller², E. Guttman-Yassky¹ ¹Dermatology, Icahn School of Medicine at Mount Sinai, New York, New York, United States, ²Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, **United States**

Skin-resident immune **Poster # 123** cells actively coordinate their distribution with epidermal cells during homeostasis

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Poster # 132 Metabolomic identification of an essential glucose-IRF6 axis in differentiation

<u>V. Lopez-Pajares</u>¹, A. Bhaduri¹, A. Guerrero¹, Y. Zhao¹, L. Donohue¹, M. Guo¹, G. Gowrishankar¹, S. S. Gambhir¹, P. Khavari^{1, 2}

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Poster # 139 Heterochromatin maintenance is crucial for terminal keratinocyte differentiation and inhibition of

inflammatory responses in the epidermis G. Chen¹, A. Aziz¹, T. Sharova¹, E. Rozhkova¹, L. Yang², N. Lau³, V. A. Botchkarev¹, K. Muegge⁴, <u>A. Sharov¹</u>

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Poster # 148 Disruption of nucleolar functions variably affect epidermal differentiation

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Genetic Disease, Gene Regulation, and Gene Therapy

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

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

L. Ducoli¹, S. Agrawal², E. Sibler¹, T. Kouno², C. Tacconi¹, C. Hon², S. Berger¹, D. Müllhaupt¹, Y. He1, J. Kim¹, M. D'Addio¹, L. Dieterich¹, P. Carninci², M. de Hoon², J. Shin², M. Detmar¹

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

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Poster # 156 MYC-CPSF-HNRNPA3 cooperation promotes epidermal progenitor maintenance through modulating intronic transcription termination X. Chen¹, S. Lloyd¹, <u>X. Bao^{1, 2}</u>

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

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Poster # 161 Pharmacogenetics study of different psoriasis treatments

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

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Poster # 167 INZ-701 prevents ectopic mineralization in an Abccó-/- mouse model of pseudoxanthoma elasticum J. D. Jacobs¹, Q. Li¹, Z. Cheng², K. O'Brien², D. Thompson², J. Uitto¹, Y. Sabbagh²

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

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

T. He, T. Quan, W. Xia, A. A. Dlugosz, J. J. Voorhees, G. J. Fisher Department of Dermatology, University of Michigan, Ann Arbor, Michigan, United States

Poster # 180 ASPRV1 mutations cause dominantly inherited ichthyosis

L. Boyden¹, J. Zhou¹, R. Hu¹, T. Zaki¹, E. Loring¹, J. Scott², H. Traupe³, A. Paller⁴, R. Lifton¹, K. Choate¹

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

<u>C. P. Cook</u>¹, Y. Liu¹, R. Schmidt², S. B. Ramos³, A. Marson², R. Cho¹, J. B. Cheng¹

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Poster # 182 Functional genomic analysis of STX17 in alopecia areata reveals a novel role in melanocyte function <u>S. Erjavec</u>, A. R. Abdelaziz, C. Wang, P. Lin, I. Monga, R. Gund, I. Ionita-Laza, L. Petukhova, A. M. Christiano Columbia University, New York, New York, United States

Innate Immunity, Microbiology, and Microbiome

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

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Poster # 190 Commensal microbiota regulates skin barrier function and repair via signaling through the aryl hydrocarbon receptor

<u>A. Uberoi</u>¹, C. Bartow-McKenney¹, Q. Zheng¹, L. Flowers¹, A. Campbell¹, S. Knight¹, N. Chan¹, M. Wei¹, V. Lovins¹, J. Bugayev¹, J. Horwinski¹, C. Bradley¹, J. Meyer², D. Crumrine², C. Sutter³, P. Elias², E. Mauldin¹, T. Sutter³, E. Grice¹

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Poster # 191 Small proline-rich proteins (SPRRs) function as antimicrobial proteins in the skin

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Poster # 192 Bile acids improve psoriasiform dermatitis with inhibition of IL-17A production and CCL20-CCR6 mediated trafficking of T cells

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Poster # 198 TNF directs protective neutrophil and IL-17+ γδ T cell responses against Staphylococcus aureus skin infections

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Poster # 201 A basophil-neuronal axis promotes itch

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M. Mack², S. Morrison², J. D. Hamilton³, J. Baek², T. B. Yang²,
A. M. Ver Heul², A. Z. Xu², Z. Xie², X. Dong⁴, M. Kubo⁵, H. Hu²,
C. Hsieh², X. Dong⁴, Q. Liu², D. Margolis⁶, M. Ardeleanu³,
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Y. Sawada, T. Dokoshi, N. Kulkarni, M. Liggins, T. Nakatsuji, G. Sen, R. Gallo

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Poster # 210 Eosinophil-derived IL-17 protects against epicutaneous Staphylococcus aureus infections

<u>N. A. Orlando</u>, C. Youn, S. Nolan, M. P. Alphonse, D. Dikeman, Y. Wang, G. Patrick, L. Miller, N. K. Archer

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Poster # 212 Skin controls the gut immune response through innate ECM cross talk

<u>T. Dokoshi</u>, M. C. Liggins, K. Cavagnero, J. Seidman, B. Taylor, R. Knight, J. Chang, J. Olvera, R. Gallo

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Poster # 222 Whole-blood immune profile in hidradenitis suppurativa

<u>P. Dimitrion^{1, 2, 3}</u>, C. Yin^{1, 2}, K. Subedi^{1, 2}, N. Khalasawi^{1, 2},
 Y. Yao^{1, 2}, A. Miller¹, J. Veenstra^{1, 2}, G. Vellaichamy¹, H. Lim¹,
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Poster # 224 Rho Kinase deficiency protects mice from UVB-induced skin inflammation by inhibition of neutrophil NETosis

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Poster # 225 Induction of protective antimicrobial responses mediated by NOD2 as a treatment for wounds infected with multidrug-resistant bacteria

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Poster # 229 Single cell transcriptomics identifies a potential role for Arg1+ macrophages in alopecia areata pathogenesis

<u>E. Y. Lee</u>¹, E. H. Wang¹, Z. Dai¹, I. Monga¹, A. M. Christiano^{1, 2} ¹Dermatology, Columbia University, New York, New York,



Patient Population Research

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

services research.

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Poster # 241 Association of ruxolitinib with NMSCs risk in patients with polycythemia vera and myelofibrosis J. Lin¹, S. Li², S. Li¹, E. Kiamanesh¹, S. Aasi¹, B. Kwong¹, A. Chang¹

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Four childhood atopic dermatitis subtypes **Poster # 247** identified from trajectory and severity of disease <u>A. R. Mulick</u>¹, K. E. Mansfield¹, R. Silverwood^{2,3}, A. Budu-Aggrey⁸, A. Roberts⁴, A. Custovic⁵, N. Pearce³,

A. D. Irvine⁹, L. Smeeth¹, K. Abuabara⁶, S. M. Langan^{1,7}

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Poster # 262 Association of dermatologic manifestations of IBD with natural history and biomarkers of severity

B. <u>M. Patel</u>¹, C. Ramos Rivers², F. Koutroumpakis², M. Ahsan¹, J. Dueker², J. Hashash², E. Johnston², A. Barrie², J. Harrison², M. Schwartz², D. Babichenko², G. Tang², D. G. Binion²

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

University of Pennsylvania, Philadelphia, Pennsylvania, United States

Poster # 266 Risk of opportunistic, viral. and hospitalized infections in atopic dermatitis

J. Wan¹, D. Shin¹, M. Syed¹, K. Abuabara², J. Gelfand¹ ¹University of Pennsylvania, Philadelphia, Pennsylvania, United States, ²University of California San Francisco, San Francisco, California, United States

Poster # 267 Comorbidities among children with hidradenitis suppurativa N. L. Tamashunas¹, C. Wong²

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Poster # 270 Association of lichen planus with cardiovascular disease: An international cohort study A. C. Leasure¹, J. N. Acosta², J. M. Cohen³, G. J. Falcone²

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Poster # 284 Rates, characteristics, and comparison of hidradenitis suppurativa readmissions in the united states: A national population-based study

<u>E. Edigin¹, S. Kaul¹, P. Eseaton², J. Albrecht¹</u> ¹John H Stroger Hospital of Cook County, Chicago, Illinois, United States, ²College of Medicine, University of Benin, Benin City, Edo, Nigeria

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

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Poster # 328 Data driven approach identifies hidradenitis suppurativa subtypes in electronic health records

A. Bell¹, K. Babbush³, A. Khan¹, M. Hayes², J. Connolly⁴, F. Mentch⁴, P. Sleiman^{4, 5}, H. Hakonarson^{4, 5}, E. Mukherjee⁶, G. Hripcsak¹, K. Kiryluk¹, C. Weng¹, S. Cohen³, L. Wheless⁶, L. Petukhova¹

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Poster # 339 Impact and associations of atopic dermatitis out-of-pocket healthcare expenses in the United **States**

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Poster # 366 Adverse reproductive outcomes among women with hidradenitis suppurativa

A. Colvin¹, E. Dabela¹, A. Khan¹, M. Hayes², J. Connolly³, F. Mentch³, B. Almoguera³, H. Hakonarson^{3, 4}, E. Mukherjee⁵, G. Hripcsak¹, C. Weng¹, K. Kiryluk¹, L. Wheless⁵, L. Petukhova¹ Columbia University, New York, New York, United States, ²Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, 3The Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, United States, ⁴University of Pennsylvania, Philadelphia, Pennsylvania, United States, ⁵Vanderbilt University, Nashville, Tennessee, **United States**



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stratifying **Poster # 402** Non-invasively atopic dermatitis patients based on inflammatory genes <u>M. D. Howell</u>, T. Allen, M. Hanhan, J. Rock, Ź. Yao, B. Jansen, J. Dobak

DermTech Inc, La Jolla, California, United States

Anti-phosphatidylserine/prothrombin **Poster # 404** complex antibodies in patients with cutaneous vasculitis: Possible involvement in the pathogenesis

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Poster # 410 Tape-strips capture gene-expression changes in moderate-to-severe atopic dermatitis patients treated with dupilumab

D. Mikhaylov¹, E. Del Duca^{2, 1}, C. Meyer Olesen³, H. He¹, J. Wu^{1, 4}, B. Ungar¹, Y. Estrada¹, N. Zhang¹, M. Chowdhury¹, M. Clausen³, J. G. Krueger⁵, A. B. Pavel¹, T. Agner³, E. Guttman-Yassky¹

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Immune and barrier characterization of **Poster # 412**

 atopic dermatilis skin phenotype in Tanzanian patients
 C. Lang^{1, 2}, Y. Renert-Yuval³, E. Del Duca¹, A. B. Pavel¹,
 J. Wu¹, N. Zhang¹, <u>C. Dubin¹</u>, A. Obi¹, M. Chowdhury¹, M. Kim¹,
 Y. Estrada¹, J. G. Krueger³, H. Kaderbhai⁴, G. Semango⁴,
 P. Schmid-Grendelmeier², M. Brüggen², J. Masenga⁴, E. Guttman-Yassky¹

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Poster # 417 The molecular features of normal and atopic dermatitis skin in infants, children, adolescents and adults

Y. Renert-Yuval', E. Del Duca², A. B. Pavel², M. Fang³, R. L. Lefferdink³, J. Wu², <u>C. Dubin²</u>, A. Diaz², Y. Estrada², T. Canter³, N. Zhang², A. Wagner³, S. Chamlin³, J. G. Krueger¹, E. Guttman-Yassky², A. Paller³

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Topical hypericin ointment photodynamic therapy is 420

Poster # effective and safe in CTCL (FLASH study) <u>E. J. Kim</u>¹, B. Poligone⁴, A. Mangold⁵, J. DeSimone³, L. Seminario-Vidal⁶, H. K. Wong², J. Guitart⁷, C. Pullion⁸, R. C. Straube⁹

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Poster # 428 Randomized, double-blind, placebocontrolled study of efficacy and safety of secukinumab to treat adults with ichthyoses

<u>R. L. Lefferdink</u>¹, M. Chima², E. Ibler¹, A. B. Pavel², H. Kim², B. Wu¹, H. Abu-Zayed¹, S. Rangel¹, J. Wu², K. Zumpf¹, K. Jackson¹, K. Choate³, E. Guttman-Yassky², A. Paller¹

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Poster # 436 Identifying locations of Merkel cell carcinoma associated with higher disease-specific mortality

<u>C. Cullison</u>¹, D. X. Zheng¹, M. A. Levoska³, J. F. Scott², J. Bordeaux³

¹Case Western Reserve University, Cleveland, Ohio, United States, ²Johns Hopkins University School of Medicine, Baltimore, Maryland, United States, ³Dermatology, University Hospitals, Cleveland, Ohio, United States

A phase 1/2 trial of PTR-01, a collagen 7 **Poster # 438** (C7) protein replacement therapy, in patients with recessive dystrophic epidermolysis bullosa (RDEB) J. Tang¹, A. Bruckner², M. Chen³, D. T. Woodley³, D. Keene⁴, M. Barriga¹, K. Peoples², R. Johnson⁵, D. Ramsdell⁵, H. Landy⁵

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Poster # 443 **Clinical risk factors associated with MRSA**

incidence in inpatient pediatric cellulitis S. Chand¹, R. Rrapi¹, C. Gabel¹, <u>S. Song¹</u>, R. Shah¹, C. El Saleeby², D. Kroshinsky¹

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Poster # 446 Altered gene expression following targeted therapy for vascular malformation J. M. Teng

Dermatology, Stanford University, Stanford, California, United States

Poster # 451 Spironolactone for treatment of concomitant female pattern hair loss in scarring alopecia patients

K. E. Flanagan, J. T. Pathoulas, C. J. Walker, I. M. Pupo Wiss, M. M. Senna

Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States



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Poster # 467 Novel selective phosphodiesterase inhibitors promote the adipogenic function of dermal fibroblasts: Implication to treat hair loss

<u>M. Yin</u>¹, **Q. Zhou**², **Y. Yang**¹, **S. Wu**¹, **X. Zhang**¹, **H. Luo**², **L. Zhang**¹ ¹Xiamen University, Xiamen, China, ²Sun Yat-Sen University, Guangzhou, China

Poster # 468 Is topical remetinostat gel an effective and safe treatment for basal cell carcinoma? Results of a phase 2, open label, single arm trial

J. M. Kilgour¹, A. Shah², N. M. Urman¹, S. Eichstadt³, H. Do¹, I. Bailey¹, A. Mirza¹, S. Li¹, A. E. Oro¹, S. Aasi¹, K. Y. Sarin¹

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Poster # 470 Engineering chimeric antigen receptor (CAR) T cells for treatment of γδ T cell lymphomas <u>C. Ellebrecht</u>, E. Choi, E. Radaelli, A. S. Payne

University of Pennsylvania, Philadelphia, Pennsylvania, United States

Poster # 472 Telazorlimab in atopic dermatitis: Phase 2b study shows improvement at 16 weeks

L. Sher¹, B. Rewerska², A. Acocella³, G. Gudi³, Y. Salhi³, M. Mbow³, K. Changela³, N. Mozaffarian³

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Poster # 473 Investigation of cell death patterns of SJS/ TEN model cells harboring formyl peptide receptor 1 <u>T. Nishiguchi</u>, R. Abe

Division of Dermatology, Graduate School of Medical and Dental Sciences, Niigata Daigaku, Niigata, Niigata, Japan

Poster # 475 A curcumin-derivative LG283 that inhibits TGF- β /Smad/Snail-dependent mesenchymal transition ameliorates bleomycin-induced skin fibrosis and vascular injury

<u>A. Utsunomiya</u>¹, **T. Chino**¹, **N. Oyama**¹, **S. Niwa**², **M. Hasegawa**¹ ¹Dermatology, Fukui University, Fukui, Japan, ²Link Genomics, Inc., Tokyo, Japan

Poster # 479 High-density lipoprotein-nanoparticles (HDL NPs): A novel therapy for inflammatory skin

<u>R. M. Lavker</u>¹, N. Kaplan¹, J. Wang¹, W. Yang¹, K. Lu¹, C. Thaxton², H. Peng¹

¹Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, ²Urology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States Poster # 484 Dupilumab provides clinically meaningful improvement in atopic dermatitis (AD) signs and symptoms and quality of life (QoL) in children with severe AD: Results from the LIBERTY AD PEDS phase 3 clinical trial

<u>A. Paller</u>¹, M. J. Cork², D. Marcoux³, H. Zhang⁴, C. Chuang⁵, A. Zhang⁵, J. Chao⁴

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Poster # 485 Repurposing disulfiram for the treatment of Merkel cell carcinoma

<u>N. Hill</u>¹, T. Gelb¹, D. Urban², T. Kellenberger¹, A. Lin¹, S. Vilasi¹, M. Hall³, I. Brownell¹

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Poster # 486 Systemic collagen VII protein therapy for treatment of advanced RDEB

C. Gretzmeier¹, D. Pin², M. Chen³, D. T. Woodley³, L. Bruckner-Tuderman¹, M. P. de Souza⁴, <u>A. Nystrom¹</u>

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Poster # 488 Synthetic melanin nanoparticles as a potential topical therapy for treating injured skin

D. Biyashev¹, U. Onay¹, M. Demczuk¹, N. C. Collins-McCallum², Z. E. Siwicka², J. Techner¹, S. T. Evans¹, N. Gianneschi², K. Lu¹ ¹Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, ²Chemistry, Northwestern University Judd A and Marjorie Weinberg College of Arts and Sciences, Evanston, Illinois, United States

Poster # 489 Sphingosine 1-phosphate receptors are expressed in human scalp hair follicles and their modulation by etrasimod warrants further investigation for management of alopecia areata

<u>I. Piccini</u>¹, M. Fehrholz¹, O. Egriboz¹, L. Ponce¹, J. W. Adams², C. M. Crosby², M. Bertolini¹

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Poster # 501 Administration of nicotinamide riboside (NR) or pterostilbene (PT) to mice inhibits suppression of contact hypersensitivity (CHS) by mid-range ultraviolet radiation (UVR)

<u>V. Isak</u>¹, S. Azizi¹, D. Mehta¹, W. Ding¹, Z. Bulmer¹, R. Dellinger², R. D. Granstein¹

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Poster # 503 Ex vivo preclinical testing of a wearable UVA phototherapy device

B. E. Perez White¹, <u>H. Zhao</u>², J. Zhao¹, A. Kobeissi¹, S. Xu¹, J. Rogers², H. Zhang²

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Poster # 504 Nanoparticle encapsulation enhances stability and efficacy of sunscreen actives

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Poster # 506 Xeroderma Pigmentosum A deficiency results in increased generation of microvesicle particles in response to Ultraviolet B Radiation

L. R. Christian, C. E. Borchers, L. Liu, C. Rapp, M. G. Kemp, J. B. Travers

Pharmacology & Toxicology, Wright State University, Dayton, Ohio, United States

Poster # 508 UVB-irradiated keratinocytes-derived extracellular vesicles: Mediator of proinflammatory responses in macrophages

Y. Li, T. Vazquez, D. Diaz, M. Bashir, V. P. Werth

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Poster # 509 Ultrasmall prussian blue nanoparticles protect human skin fibroblasts from ultraviolet A stress induced premature senescence

<u>Y. Li</u>, D. Luo

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Poster # 510 Complex phototoxic properties of a cigarette smoke extract on human keratinocytes <u>A. Grenier</u>^{1, 2}, P. J. Rochette^{1, 3}, R. Pouliot^{1, 2}

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Poster # 513 The toll like receptor-4 antagonist, TAK-242, enhances repair of ultraviolet radiation-induced DNA damage and inhibits UVB-induced tumor development in mice

<u>M. A. Sherwani</u>¹, A. S. Abdelgawad1, M. Eraslan1, M. Chung1, C. Elmets^{1, 2}, N. Yusuf1, ²

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Poster # 514 WITHDRAWN

Poster # 515 p63 regulates XPC binding dynamics and global nucleotide excision repair in keratinocytes <u>C. T. Wong¹</u>, D. H. Oh^{1, 2}

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Poster # 518 Chronic UV exposure decreases sun sensitivity by a tanning independent mechanism S. Craig^{1,2}, A. Viros^{1,2}

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Poster # 519 Intrinsic heterogeneity in human keratinocyte sensitivity to ultraviolet radiation <u>C. R. Richenberger</u>, M. F. Denning

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Poster # 522 Associations between influenza vaccine and immunotherapy outcomes in metastatic melanoma patients

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Poster # 524 BMP signaling is active in early melanoma lesions and promotes melanoma development

<u>A. K. Gramann^{1, 2}</u>, W. T. Frantz^{1, 2}, K. Dresser⁴, C. Gomes³, C. G. Lian³, A. Deng⁴, C. J. Ceol^{1, 2}

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Poster # 526 Functional, inherited vitamin D-binding protein variants associated with mortality among melanoma patients

<u>D. C. Gibbs</u>¹, N. E. Thomas⁶, I. Orlow², P. A. Kanetsky³, L. Luo⁴, A. E. Cust⁵, C. B. Begg², M. Berwick⁴, S. Ward⁷

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Poster # 537 Functional melanoma cell heterogeneity is regulated by MITF-dependent cell-matrix interactions

L. Spoerri¹, C. A. Tonnessen-Murray¹, G. Gunasingh¹, D. S. Hill², K. A. Beaumont², J. Chauhan³, A. G. Smith¹, H. Schaider¹, B. Gabrielli¹, W. Weninger², C. R. Goding³, <u>N. K. Haass¹</u>

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Poster # 538 Sox9 knockout in the endothelium decreases melanoma tumour vascularisation, metastasis, and alters melanoma gene expression

<u>G. Hashemi,</u> J. W. Dight, L. Sormani Le Bourhis, K. Khosrotehrani

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Poster # 539 The role of autophagy in IFN-γ effects on global gene expression in keratinocytes

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Poster # 541 Inhibition of soluble adenylyl cyclase (sAC) rescues defective melanosomal pH and pigmentation in oculocutaneous albinism type 2 (OCA2)

<u>M. Yusupova</u>¹, D. Zhou¹, K. Wakamatsu², J. Zippin¹

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Poster # 542 BRAFV600E-inhibition drives EMT gene expression enhancing invasiveness and metastasis in a bioluminescent murine model of BRAFV600E/NRASQ61K melanoma

J. Jandova, <u>G. T. Wondrak</u>

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Poster # 543 The high expression of pro-apoptotic BCL2 family members in uveal melanomas contribute to their sensitivity to MCL1 inhibitors

<u>N. Mukherjee</u>, C. Dart, C. Amato, J. Skees, A. Honig-Frand, K. Lambert, W. Robinson, D. Norris, Y. Shellman

University of Colorado Denver School of Medicine, Aurora, Colorado, United States

Poster # 546 Measurement of melanin metabolism in live cells by [U-13C]-tyrosine fate tracing using LC-MS

C. Qiuying¹, D. Zhou¹, Z. Abdel-Malek², P. Goff³, E. Sviderskaya³, K. Wakamatsu⁴, S. Ito⁴, S. Gross¹, J. Zippin¹ 1Weill Cornell Medicine, New York, New York, United States, 2University of Cincinnati, Cincinnati, Ohio, United States, 3University of London, London, London, United Kingdom, 4Fujita Health University, Fujita, Japan

Poster # 547 Regulatory T cell production of IFN-γ in vitiligo

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Poster # 549 Design and in vitro efficacy of TRP-1 CAR T cells to target melanoma

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Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States





Skin of Color

Studies of the pathogenesis or treatment of skin diseases that disproportionately affect patients from, or are more severe in their manifestation in, racial/ethnic groups with skin of color; such as keloids, scarring alopecias, disorders of pigmentation, systemic lupus erythematosus, dermatomyositis, among others.

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Poster # 552 Fitzpatrick skin type and photographic skin color assessment in a diverse population

<u>S. A. Sreekantaswamy^{1, 2}, S. Siddiqui</u>³, K. Chu¹, J. Lester¹, L. Zukley⁴, K. Abuabara^{1, 3}

¹Dermatology, University of California San Francisco, San Francisco, California, United States, ²The University of Utah School of Medicine, Salt Lake City, Utah, United States, ³University of California Berkeley, Berkeley, California, United States, 4BLSA, Baltimore, Maryland, United States

Poster # 553 Herpes simplex virus type 1 infects melanocytes

Y. Feng, R. Qi, Y. Wu, X. Gao, H. Chen

Dermatology, The First Affiliated Hospital of China Medical University, Shenyang, Liaoning, China

Poster # 555 Targeted immunotherapy response in acral melanoma patients—A retrospective review from a tertiary care center

T. Jamerson¹, C. Aguh²

¹University of Michigan Medical School, Ann Arbor, Michigan, United States, ²Dermatology, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States

Poster # 556 Impact of ethnicity and socioeconomic status on acral lentiginous melanoma incidence and survival: A SEER analysis

N. Raval^{1, 2}, F. Godoy², P. Ugwu-Dike¹, Y. Semenov¹

¹Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States, ²Washington University in St Louis School of Medicine, St Louis, Missouri, United States

Poster # 560 Racial/ethnic diversity in U.S. clinical trials for acne, atopic dermatitis, and psoriasis

A. Sevagamoorthy², C. Akoh¹, P. Sockler², J. Takeshita²

¹NYU Langone Health, New York, New York, United States, ²University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, United States

Poster # 562 Racial/ethnic differences in quality-of-life among adults with atopic dermatitis

<u>S. Oluwole²</u>, J. S. Barbieri¹, Z. Chiesa Fuxench¹, D. Shin¹, J. Takeshita¹

¹University of Pennsylvania, Philadelphia, Pennsylvania, United States, ²University of Miami School of Medicine, Miami, Florida, United States

Poster # 563 Progress on the development of a Keloid Area and Severity Index (KASI) to aid in evaluation of keloids in clinical and research settings

E. E. Limmer, D. A. Glass

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

CONCURRENTS THEATER

Poster # 565 Epidermal remodeling and immunogenicity within sinus tracts in hidradenitis suppurativa at the single-cell resolution

<u>M. Lin</u>¹, M. Marohn¹, W. Yu^{1, 3}, C. Mendoza1, J. Remark1, A. Khodadadi-Jamayran4, E. Chiu1, C. P. Lu^{1, 2}

¹Plastic Surgery, NYU Langone Health, New York, New York, United States, ²Cell Biology, New York University School of Medicine, New York, New York, United States, ³Dermatology, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan, ⁴Advanced Research Technologies, New York University School of Medicine, New York, New York, United States

Poster # 567 Differences in discoid lupus distribution and characteristics in black and non-black patients A. Joseph¹, B. Windsor², L. S. Hynan², <u>B. F. Chong¹</u>

¹Dermatology, The University of Texas Southwestern Medical Center, Dallas, Texas, United States, ²Population and Data Sciences and Psychiatry, The University of Texas Southwestern Medical Center, Dallas, Texas, United States

Poster # 568 CK2 inhibition synergizes with MAPK inhibition to overcome resistance in acral melanoma

<u>R. Perez-Lorenzo¹</u>, R. D. Carvajal³, 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, ³Medicine, Columbia University, New York, New York, United States

Poster # 570 A genome-wide association study in an African American cohort implicates IL-12A in acne

A. Khan¹, J. <u>McGovern¹</u>, Z. Yang¹, C. Wang¹, T. Hughes², E. Dabela¹, M. C. Garzon¹, C. T. Lauren¹, L. E. Levin¹, Z. Dai¹, M. Hayes³, J. Connolly⁴, F. Mentch⁴, B. Almoguera⁴, P. Sleiman⁴, H. Hakonarson⁴, J. Denny⁵, J. C. Love⁶, A. K. Shalek⁶, G. Hripcsak¹, C. Weng¹, I. Ionita-Laza¹, K. Kiryluk¹, L. Petukhova¹

¹Columbia University, NY, New York, United States, ²Harvard Medical School, Boston, Massachusetts, United States, ³Northwestern University, Chicago, Illinois, United States, ⁴The Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, United States, ⁵National Institutes of Health, Bethesda, Maryland, United States, ⁶Massachusetts Institute of Technology, Cambridge, Massachusetts, United States

Poster # 573 Racial and ethnic differences in cutaneous immune-related adverse events and outcomes

<u>V. Pahalyants</u>¹, N. Theodosakis¹, P. Ugwu-Dike¹, W. Murphy¹, N. Klebanov¹, T. Le², A. Gusev³, V. Naranbhai⁴, K. Reynolds⁴, S. Kwatra², Y. Semenov¹

¹Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States, ²Dermatology, Johns Hopkins University, Baltimore, Maryland, United States, ³Medicine, Dana Farber Cancer Institute, Boston, Massachusetts, United States, ⁴Oncology, Massachusetts General Hospital, Boston, Massachusetts, United States



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.

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Poster # 578 Genetic ablation of autoimmune regulator (Aire) results in spontaneous alopecia

N. Maglakelidze, T. Gao, R. P. Feehan, R. Hobbs

Dermatology, Penn State College of Medicine, Hershey, Pennsylvania, United States

Poster # 579 miR-184 represses stemness and behaves as a tumor suppressor in the epidermis

L. Turovsky¹, S. Nagosa1, I. Boyango^{2, 1}, S. Bhattacharya¹, I. Vlodavsky¹, D. Aberdam³, E. Emily Avitan-Hersh^{2, 1, 4}, R. Shalom-Feuerstein^{1,4}

¹Technion Israel Institute of Technology The Ruth and Bruce Rappaport Faculty of Medicine, Haifa, Haifa, Israel, ²Skin Cancer Research lab, Rambam Health Care Campus, Haifa, Haifa, Israel, 3INSERM, Paris, Île-de-France, France, ⁴*equal contribution, RTICC, Haifa, Israel

Poster # 582 Dermal EZH2 orchestrates dermal differentiation and epidermal proliferation during murine skin development

V. Thulabandu¹, T. Nehila¹, J. Ferguson¹, R. Atit^{1, 2, 3}

¹Biology, Case Western Reserve University, Cleveland, Ohio, United States, ²Genetics, Case Western Reserve University, Cleveland, Ohio, United States, ³Dermatology, Case Western Reserve University, Cleveland, Ohio, United States

Poster # 583 Hair cycle regulation by a mitochondrially localized protein: Is MPZL3 a central component of the elusive hair cycle clock?

C. Nicu¹, T. C. Wikramanayake1, R. Paus^{1, 2, 3}

¹Dr. Phillip Frost Department of Dermatology and Cutaneous Surgery, University of Miami Miller School of Medicine, Miami, Florida, United States, ²Monasterium Laboratory, Münster, Germany, ³Centre for Dermatology Research and NIHR Biomedical Research Centre, University of Manchester, Manchester, United Kingdom

Poster # 584 Transcriptomic analysis to identify protective dermal papilla signature in occipital scalp <u>S. Limbu¹</u>, N. Farjo², B. Farjo², P. Kemp³, C. Higgins¹

¹Bioengineering, Imperial College London, Lo

United Kingdom, ²Farjo Hair Institute, Manchester, United Kingdom, ³HairClone, Manchester, United Kingdom

Poster # 591 Chromatin architectural protein CTCF regulates terminal keratinocyte differentiation in the developing epidermis and hair follicles

G. Chen, N. V. Botchkareva, E. Rozhkova, A. Sharov, V. A. Botchkarev

Dermatology, Boston University, Boston, Massachusetts, United States

Poster # 594 Developmental transcriptomics reveal conservation between mouse Merkel cell differentiation and Merkel cell carcinoma

L. Miao¹, L. Collado¹, S. Barkdull¹, M. Kelly², N. Veniaminova³, S. Wong³, M. Kelley², I. Brownell¹

¹Dermatology Branch, NIAMS,NIH, Bethesda, Maryland, United States, ²Laboratory of Cochlear Development, NIDCD,NIH, Bethesda, Maryland, United States, 3Dermatology, Cell and Developmental Biology, University of Michigan, Ann Arbor, Michigan, United States

Poster # 595 Recapitulating atopic dermatitis in vitro with a multi-organ 3D model

A. Pappalardo, A. Rami, Z. Guo, H. Abaci, A. M. Christiano

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

Poster # 604 DNA dioxygenases TET regulate keratin gene expression and enhancer networks within lineagespecific gene loci during epidermal and hair follicle-specific keratinocyte differentiation

<u>G. Chen</u>¹, Q. Xu², M. Fessing³, A. Mardaryev³, A. Sharov¹, G. Xu², V. A. Botchkarev¹

¹Dermatology, Boston University, Boston, Massachusetts, United States, ²Shanghai Institute of Biochemistry and Cell Biology, Shanghai, Shanghai, China, ³University of Bradford, Bradford, West Yorkshire, United Kingdom

Poster # 605 Generation of Dkk4-Cre knock-in mice to study morphogenesis of ectodermal appendages H. Khatif^{1,2}, H. Bazzi^{1,2}

Department of Dermatology & Venereology, Uniklinik Koln, Cologne, Germany, ²CECAD Excellence Cluster, Universitat zu Koln, Cologne, Germany

Poster # 606 Connecting signaling dynamics with cell fates in live mice

T. Xin¹, S. Regot², V. Greco¹

¹Genetics, Yale University School of Medicine, New Haven, Connecticut, United States, ²Molecular Biology and Genetics, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States

Poster # 607 Cutaneous overexpression of cyclooxygenase-2 models androgenetic alopecia in adult mice

<u>C. Hopkins</u>, Y. Zheng, R. Yang, A. Nace, E. Bernardis, J. Hsieh, G. Cotsarelis

Dermatology, University of Pennsylvania, Philadelphia, Pennsylvania, United States



Tissue Regeneration and Wound Healing

Wound healing and regeneration studies; processes/signaling that regulate vascular development and angiogenesis;

interactions between different skin components (epithelial cells, dermal cells, nerves, vasculature, melanocytes, fat) in

homeostasis and regeneration.

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Poster # 608 Neuroimmune control of adult mammalian scarless skin regeneration

J. Wei¹, H. S. Kim¹, C. Spencer¹, D. Brennan-Crispi¹, Y. Zheng¹, D. Leung², G. Cotsarelis¹, <u>T. Leung^{1, 3}</u>

¹University of Pennsylvania, Philadelphia, Pennsylvania, United States, ²Singapore Management University, Singapore, Singapore, Singapore, ³Corporal Michael J Crescenz VA Medical Center, Philadelphia, Pennsylvania, United States

Poster # 611 Oral epithelial regenerative transcription factor Pitx1 reprograms keratinocytes to promote cutaneous wound healing

<u>A. Overmiller</u>¹, A. Uchiyama¹, E. Hope¹, D. Grassini¹, A. Sawaya¹, S. Nayak¹, K. Hasneen¹, Y. Chen², S. Brooks¹, M. Morasso¹

¹NIAMS, National Institutes of Health, Bethesda, Maryland, United States, ²Department of Genomics and Precision Medicine, George Washington University, DC, District of Columbia, United States

Poster # 612 Wnt signaling induces fibrotic fat loss via DPP4 in skin fibrosis

<u>A. R. Jussila</u>¹, B. Zhang¹, S. Kirti¹, M. Steele¹, E. Hamburg¹, V. Horsley², R. Atit¹, ^{3, 4}

¹Biology, Case Western Reserve University, Cleveland, Ohio, United States, ²Yale University, New Haven, Connecticut, United States, ³Genetics, Case Western Reserve University, Cleveland, Ohio, United States, ⁴Dermatology, Case Western Reserve University, Cleveland, Ohio, United States

Poster # 620 RNase L is a regeneration repressor gene <u>E. Wier</u>¹, M. P. Alphonse¹, G. Wang¹, N. Islam¹, E. Sweren¹, H. Liu¹, A. Li¹, S. Reddy¹, L. Miller¹, S. Lee¹, M. Kane¹, R. Silverman², L. A. Garza¹

¹Johns Hopkins Medicine, Baltimore, Maryland, United States, ²Cleveland Clinic, Cleveland, Ohio, United States

Poster # 622 TNFa in impaired diabetic wound healing: A role for GM3

T. R. Holmes, X. Wang, M. S. Bonkowski, A. Paller

Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

Poster # 624 Langerhans cells promote revascularization and repair during skin wound healing <u>R. Wasko¹</u>, Y. Xing², I. Sidhu² K. Bridges³, K. Miller-Jensen³, S. Naik², V. Horsley¹

¹Molecular, Cellular, and Developmental Biology, Yale University, New Haven, Connecticut, United States, ²NYU Langone Health, New York, New York, United States, ³Biomedical Engineering, Yale University, New Haven, Connecticut, United States

CONCURRENTS THEATER

Poster # 632 Adipocyte-derived fatty acids induce metabolic activation of macrophage differentiation in the wound bed

<u>M. Forni, Y. Xu, W. Krause, R. Pannone, V. Horsley</u> Molecular Cellular and Developmental Biology, Yale University, New Haven, Connecticut, United States

Poster # 633 Regulation of IFN kappa in keratinocytes of diabetic wounds

<u>S. Wolf</u>¹, C. Audu¹, A. Joshi¹, A. denDekker¹, W. J. Melvin¹, X. Xing², R. Wasikowski², L. Tsoi², S. Kunkel5, J. E. Gudjonsson², M. O'Riordan³, J. M. Kahlenberg⁴, K. Gallagher^{1,3}

¹Department of Surgery, University of Michigan, Ann Arbor, Michigan, United States, ²Department of Dermatology, University of Michigan, Ann Arbor, Michigan, United States, ³Department of Microbiology and Immunology, University of Michigan, Ann Arbor, Michigan, United States, ⁴Department of Internal Medicine, University of Michigan, Ann Arbor, Michigan, United States, ⁵Department of Pathology, University of Michigan, Ann Arbor, Michigan, University of Michigan, Ann Arbor, Michigan, United States

Poster # 634 Single cell transcriptomics identifies a two way conversion program between dermal progenitors and adipocytes during skin development and regeneration

L. Sun, X. Zhang, S. Wu, Y. Liao, X. Zhang, W. Liu, L. Zhang School of Pharmaceutical Sciences, The State Key Lab of Cellular Stress Biology, Xiamen University, Xiamen, Fujian, China

Poster # 637 Abrogation of Sox9 expression in the endothelium blocks aberrant vascular EndMT and fibrosis J. Zhao¹, J. Patel², S. Kaur¹, S. Sim¹, H. Wong¹, C. Styke¹, M. Francois³, M. Yoder⁴, K. Khosrotehrani¹

M. Francois³, M. Yoder⁴, K. Khosrotehrani¹ ¹The University of Queensland Diamantina Institute, Woolloongabba, Queensland, Australia, ²Queensland University of Technology, Brisbane, Queensland, Australia, ³David Richmond Laboratory for Cardiovascular Development: Gene Regulation and Editing, Centenary Institute, Newtown, New South Wales, Australia, ⁴Indiana University School of Medicine, Indianapolis, Indiana, United States

Poster # 643 miR193b-3p suppresses wound healing and tumor formation in diabetic foot ulcers

J. Marjanovic, H. A. Ramirez, I. Jozic, R. Stone, T. C. Wikramanayake, C. Head, B. Abdo Abujamra, R. S. 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

Poster # 644 Bioprinted skin integrates into fullthickness porcine wounds and supports healthy skin repair by modulating inflammation and tissue remodeling

<u>A. M. Jorgensen</u>, N. Mahajan, A. Gorkun, K. Willson, Č. Clouse, S. Walker, S. Murphy, S. Lee, J. J. Yoo, S. Soker, A. Atala

Wake Forest Institute for Regenerative Medicine, Wake Forest University School of Medicine, Winston-Salem, North Carolina, United States

Translational Studies

Studies that translate findings from laboratory studies, patient-targeted research, or populations research into applications

that improve knowledge of skin disease, patient outcomes, clinical practices, and/or public health.

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Poster # 650 Improving surveillance for merkel cell carcinoma patients: A web-based tool to interpret sequential merkel cell polyomavirus antibody test results <u>K. Lachance²</u>, D. S. Hippe¹, K. Cahill², T. Akaike², A. S. Fonseca², P. Nghiem²

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

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

Y. S. Roh¹, N. Sutaria¹, T. Pritchard¹, K. A. Williams¹, I. Brown¹, J. Choi¹, D. P. Patel¹, M. P. Alphonse¹, Y. Semenov², N. K. Archer¹, S. G. Kwatra¹

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

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

<u>C. Bangert</u>¹, K. Rindler¹, T. Krausgruber², N. Alkon¹, F. Thaler¹, T. Ayub¹, V. Vorstandlechner³, W. M. Bauer¹, M. Mildner¹, A. Elbe-Buerger¹, J. Griss¹, C. Bock², P. M. Brunne^{r1}

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

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

<u>D. P. DeMeo^{1, 2}</u>, B. Richardson³, J. B. Golden³, A. B. Young⁴, S. G. Al-Kindi⁵, M. Cameron³, T. S. McCormick⁴, K. D. Cooper^{2, 4} ¹School of Medicine, Case Western Reserve University, Cleveland, Ohio, United States, ²Department of Dermatology, University Hospitals, Cleveland, Ohio, United States, ³Department of Population and Quantitative Health Sciences, Case Western Reserve University, Cleveland, Ohio, United States, ⁴Department of Dermatology, Case Western Reserve University, Cleveland, Ohio, United States, ⁵Division of Cardiology, University Hospitals, Cleveland, Ohio, United States

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

<u>A. Wang</u>, B. King, W. Damsky

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

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

<u>T. Akaike</u>¹, C. Doolittle-Amieva¹, K. Lachance¹, A. S. Fonseca¹, C. Church¹, E. Hall¹, P. Nghiem¹, L. C. Zaba²

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

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

<u>Y. Hirakawa¹</u>, S. Essien¹, Q. Zhan¹, A. Piris², K. K. Yu¹, C. Schmults¹

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

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

<u>C. Li</u>¹, N. Zhao¹, C. Dunlap¹, H. Yue¹, J. M. Kilgour², K. Ebsworth¹, A. Shah², P. Staehr¹, I. Charo¹, K. Sullivan¹, K. Y. Sarin², T. Schall¹

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

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

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

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

Poster # 698 Validation of CXCL9 as a biomarker in morphea

<u>G. Barber</u>, J. O'Brien, H. Chen, H. Jacobe

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

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

Y. Chang^{1, 2}, Z. Dai¹, A. M. Christiano¹

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

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

<u>G. Naughton</u>, M. Zimber, M. Hubka, M. Daniels, M. Latterich Histogen Inc., San Diego, California, United States



Interdisciplinary Spotlight: The "Skin"ny on COVID-19

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

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CONCURRENTS THEATER

Poster # 011 Systemic hyperinflammation as a driver of maculopapular drug exanthema in severely ill COVID-19 patients?

Y. Mitamura¹, D. Schulz², I. Kolm^{3, 4}, S. Oro⁵, M. Levesque^{3, 4}, E. Maverakis⁶, C. Akdis¹, <u>M. Brüggen^{3, 4}</u>

¹Swiss Institute for Allergy Research (SIAF), Davos, Switzerland, ²Institute of Molecular Life Sciences, University of Zurich, Zurich, Switzerland, ³UniversitatsSpital Zurich, Zurich, Switzerland, ⁴University Zurich, Faculty of Medicine, Zurich, Switzerland, ⁵Henri Mondor Hospital, Paris, France, ⁶University of California, Davis, Sacramento, California, United States

Poster # 028 Use of systemic immunosuppressive treatment is not related to COVID-19 infection in a retrospective review of patients in Massachusetts

W. Murphy¹, N. Klebanov⁴, V. Pahalyants¹, N. Theodosakis⁴, K. Patel², M. Klevens³, E. Lilly⁴, Y. Semenov⁴

¹Harvard Medical School, Boston, Massachusetts, United States, ²Dermatology, The University of Texas at Austin Dell Medical School, Austin, Texas, United States, ³Massachusetts Department of Public Health, Boston, Massachusetts, United States, ⁴Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States

Poster # 032 A multicomponent skin-targeted COVID-19 vaccine elicits robust humoral and cellular immune responses

<u>S. C. Balmert</u>, Z. G. Ghozloujeh, C. D. Carey, T. L. Sumpter, G. Erdos, E. Korkmaz, L. D. Falo

Dermatology, University of Pittsburgh, Pittsburgh, Pennsylvania, United States

Poster # 254 COVID-19 related outcomes in psoriasis and psoriasis arthritis patients

R. Raiker², H. Pakhchanian¹, V. A. Patel¹

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

Poster # 331 Trends and outcomes in patients with malignant skin cancers during the COVID pandemic R. Raiker¹, H. Pakhchanian², <u>A. Hussain³</u>, M. Deng³

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 Poster # 336 Risks of COVID-19 infection and mortality for patients on biologics

V. Pahalyants^{1, 2}, W. Murphy^{1, 2}, <u>N. Klebanov</u>¹, N. Theodosakis¹, M. Klevens³, E. Lilly¹, M. Asgari¹, Y. Semenov¹

¹Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States, ²Harvard Medical School, Boston, Massachusetts, United States, ³Massachusetts Department of Public Health, Boston, Massachusetts, United States

Poster # 342 Clinical outcomes in COVID-19 patients with Atopic dermatitis

H. Pakhchanian¹, R. Raiker², V. A. Patel¹

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

Poster # 441 Cutaneous findings in COVID-19 patients hospitalized at a large urban academic medical centers

Chand1, <u>R. Rrapi</u>¹, J. Lo1, C. Gabel¹, S. Song¹, Z. Holcomb¹, C. Iriarte¹, K. Moore¹, C. Shi¹, H. Song¹, F. Xia¹, D. Yanes¹, R. Gandhi², V. Triant², D. Kroshinsky¹

¹Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States, ²Infectious Disease, Massachusetts General Hospital, Boston, Massachusetts, United States



Irvin H. Blank Forum

Metabolomics of the Skin

MONDAY, MAY 3, 2021

THEATER



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



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



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



Metabolic Vulnerabilities as Predictive Biomarkers and Therapeutic Targets in Skin Carcinomas Hamid Reza Rezvani, PhD

Director of Dermatology Bordeaux University



Clinical Scholars/Outcomes

Skin Aging and the Environment

MONDAY, MAY 3, 2021

THEATER



Moderator Welcome and Overview Jonathan Zippin, MD/PhD/FAAD

Vice Chair of Research, Director Contact, Occupational, and Photodermatitis Service, Associate Professor of Dermatology, Associate Professor of Pharmacology, Associate Attending Dermatologist, New York-Presbyterian Hospital Department of Dermatology, Weill Cornell Medicine for Precision Medicine



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



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



Epigenetics of UV Susceptibility

Ashby Morrison, PhD Associate Professor of Biology Stanford University





Translational Symposium

Diverse Populations and Gender in Skin Diseases

MONDAY, MAY 3, 2021

THEATER



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



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



Racial/Ethnic Health and Health Care Disparities in Chronic Inflammatory Skin Diseases

Junko Takeshita, MD/PhD/MSCE

Assistant Professor, Department of Dermatology; Department of Biostatistics, Epidemiology and Informatics University of Pennsylvania Perelman School of Medicine



Update on Acral Melanoma Genetics

Iwei Yeh, MD/PhD Associate Professor, Departments of Dermatology and Pathology University of California, San Francisco





SID Diversity & Inclusion Committee Session Intersectional Allyship

MONDAY, MAY 3, 2021 TH

THEATER

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



Sheree Atcheson

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

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

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

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

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







Almirall Symposium:

Antibiotics in Dermatology: Translating Science into Clinical Practice

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

Welcome & Introductions:

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

Presenters

Christopher Bunick, MD, PhD

Associate Professor of Dermatology, Yale University

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



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

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







Amryt Symposium:

Targeting Inflammatory Skin Disease: Challenges in patients with Epidermolysis Bullosa (EB)

TUESDAY, MAY 4, 2021

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



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

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



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

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



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

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



(III) Bristol Myers Squibb

Bristol-Myers Squibb Symposium:

Exploring The Pathway Forward: Tyk2/Jak/Stat-Mediated Signaling In Psoriasis

THEATER



James G. Krueger, MD, PhD

Head of the Laboratory for Investigative Dermatology The Rockefeller University, New York, New York.

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



ESTĒE LAUDER

Estee Lauder Symposium:

Mechanobiology: The Forces Revolutionizing Skin Health

TUESDAY MAY 4, 2021

1:00 PM ET - 2:00 PM ET ON DEMAND THROUGH MAY 31 TH

THEATER

Introduction,

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



'Mechanobiology',

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



'Mechanobiology and Periorbital Aging: Skin cell response to micromovements and their duration',

Nadine Pernodet, PhD, Senior Vice President of Skin Biology and Bioactives, Global R&D, Estée Lauder Companies


Sanofi Genzyme & Regeneron Pharmaceuticals Symposium: The Shades of Atopic Dermatitis in Skin of Color

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



Jonathan Silverberg, MD/PhD/MPH

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

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

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

Live Q&A Following Presentation





Plenary Lecture Session I

TUESDAY, MAY 4, 2021

10:30 AM ET- 11:30 AM ET

THEATER

Presiders: Ben Chong, MD and Wendy Weinberg, PhD

Poster #693

Gut dysbiosis plays a role in the development of alopecia areata

A. R. Abdelaziz¹, J. Chen¹, B. N. Sallee¹, E. H. Wang¹, Z. Dai¹, <u>E. Loesch¹</u>, R. Perez-Lorenzo¹, L. A. Bordone¹, A. M. Christiano^{1, 2} ¹Dermatology, Columbia University, New York, New York, United States, ²Genetics and Development, Columbia University, New York, New York, New York, United States

Poster #209

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

Poster #646

Antimicrobial Perforin-2 in chronic wounds correlates with healing outcomes

V. Chen¹, R. C. Stone¹, J. Burgess¹, N. Strbo², I. Pastar¹, M. Tomic-Canic¹

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

Poster #379

Epidemiology and risk factors for the development of cutaneous toxicities in patients treated with immune checkpoint inhibitors: A United States population-level analysis

S. Wongvibulsin^{1, 2}, V. Pahalyants¹, M. Kalinich1, W. Murphy¹, K. Yu³, F. Wang³, S. Chen¹, K. Reynolds⁴, S. G. Kwatra², <u>Y. Semenov¹</u>

¹Dermatology, Massachusetts General Hospital, Boston, Massachusetts, United States, ²Dermatology, Johns Hopkins University, Baltimore, Maryland, United States, 3Biomedical Informatics, Harvard Medical School, Boston, Massachusetts, United States,



Herman Beerman Lecture

Some Assembly Required: The Deep History of the Human Body

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

THEATER

Introduction by: Janet Fairley, MD



Neil Shubin, PhD University of Chicago Chicago, Illinois

Neil Shubin is the Robert Bensley Distinguished Service Professor at the University of Chicago. He's also the author of two popular science books – The Universe Within: The Deep History of the Human Body (2013) and the best-selling Your Inner Fish: A Journey into the 3.5-Billion-Year History of the Human Body (2008). Your Inner Fish was named best book of the year by the National Academy of Sciences.

The focus of Shubin's research is the evolution of new organs, especially limbs. He has conducted fieldwork in Greenland, China, Canada, and much of North America and Africa and has discovered some of the earliest mammals, crocodiles, dinosaurs, frogs and salamanders in the fossil record.

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

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

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



LECTURESHIP HISTORY

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



State-of-the-Art Plenary Lecture I

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

TUESDAY, MAY 4, 2021

12:00 PM ET - 12:30 PM ET

THEATER

Introduction: Vladimir Botchkarev, MD/PhD



Julie Oh, PhD The Jackson Laboratory Bar Harbour, Maine

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

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





Plenary Lecture Session II

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

Presiders: Elena Ezhkova, PhD and Michael Howell, PhD

Poster #554

Cluster analysis of circulating plasma biomarkers in prurigo nodularis reveals a distinct systemic inflammatory signature in African Americans

N. Sutaria, J. Choi, Y. S. Roh, K. A. Williams, M. P. Alphonse, I. Brown, T. Pritchard, N. Fontecilla Biles, L. A. Garza, S. Kang, S. G. Kwatra

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

Poster #598

Gibbin toggles CTCF binding and DNA methylation to drive epithelial development

A. Collier¹, A. Liu^{1, 2}, J. Torkelson¹, J. Pattison¹, S. Gaddam¹, T. Patel¹, K. McCarthy¹, H. Zhen¹, A. Oro^{1, 2}

¹Program in Epithelial Biology, Stanford University, Stanford, California, United States, ²Stem Cell Biology and Regenerative Medicine Graduate Program, Stanford University, Stanford, California, United States

Poster #026

CXCR4+ skin-resident natural killer T cells participate in cutaneous allergic inflammation in atopic dermatitis

Z. Sun¹, J. Kim^{1, 2}, S. Kim^{1, 2}, <u>K. Zhang^{1, 2}</u>, H. Kim^{1, 2}, S. Kim¹, K. Lee^{1, 2, 3}, T. S. Kupper⁴, C. Park^{1, 2, 3}

¹Department of Dermatology, Yonsei University College of Medicine, Seodaemun-gu, Seoul, Korea (the Republic of), ²Brain Korea 21 Project for Medical Science, Yonsei University College of Medicine, Seodaemun-gu, Seoul, Korea (the Republic of), ³Institute of Allergy, Yonsei University College of Medicine, Seodaemun-gu, Seoul, Korea (the Republic of), 4Department of Dermatology & Harvard Skin Disease Research Center, Brigham and Women's Hospital, Boston, Massachusetts, United States

Poster #097

Adipose triglyceride lipase dependent adipocyte lipolysis inhibits dermal fibrosis

E. A. Caves¹, V. Lei¹, V. Horsley^{1, 2}

¹Molecular, Cellular and Developmental Biology, Yale University, New Haven, Connecticut, United States, ²Dermatology, Yale University School of Medicine, New Haven, Connecticut, United States



William Montagna Lecture

Cutaneous Neurons Modulate Skin Inflammation

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

Introduction by: Niroshana Anandasabapathy, MD/PhD



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

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

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

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



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.



State-of-the-Art Plenary Lecture II

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

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

Introduction: Peggy Myung, MD/PhD



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

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

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

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

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

https://hsci.harvard.edu/people/ya-chieh-hsu-phd



Poster and Exhibitor Session I



POSTER AND EXHIBIT HALLS

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

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

Categories to be presented:

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







Plenary Lecture Session III

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

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

Poster #079

Somatic mutation of the OXA1L 5'UTR enables cutaneous squamous cell carcinoma A. Mah¹, J. Garcia¹, D. Sessions¹, T. Bencomo¹, A. Amado¹, A. Srivastava¹, <u>C. Lee^{1, 2}</u> ¹Stanford University, Stanford, California, United States, ²VA Palo Alto Health Care System, Palo Alto, California, United States

Poster #439

Oral 25-hydroxyvitamin D3 reduces chemical-induced skin inflammation in humans

<u>J. Techner</u>², **R. M. Rothbaum**², **L. Christensen**¹, **S. T. Evans**², **U. Onay**², **D. Biyashev**², **M. Demczuk**², **K. D. Cooper**¹, **K. Lu**² ¹Dermatology, University Hospitals, Cleveland, Ohio, United States, ²Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States

Poster #114

Involucrin deficiency results in decreased vitamin D receptor-mediated inflammation and Csnk1e isoform bias

<u>A. D. Schmidt</u>, M. Mathyer, E. Brettmann, C. de Guzman Strong Dermatology, Washington University in St Louis School of Medicine, St Louis, Missouri, United States

Poster #487

Topical MEK inhibition as precision targeted chemoprevention

<u>B. Sell</u>¹, J. Shahryari^{3, 2}, A. Shah², M. Duncton³, W. Sun², P. Fenn³, S. Plotkin⁴, J. Kincaid³, K. Y. Sarin², K. Y. Tsai¹ ¹Moffitt Cancer Center, Tampa, Florida, United States, ²Stanford University, Stanford, California, United States, ³NFlection Therapeutics, Wayne, Pennsylvania, United States, ⁴Massachusetts General Hospital, Boston, Massachusetts, United States



State-of-the-Art Plenary Lecture III

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

THURSDAY, MAY 6, 2021

11:30 AM ET - 12:00 PM ET

ET THEATER

Introduction: Ken Tsai, MD/PhD



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

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

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

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

https://www.niams.nih.gov/about/directory/isaac-brownell-md-phd

https://www.niams.nih.gov/labs/brownell-lab



State-of-the-Art Plenary Lecture IV

Keloids: Aberrant Wound Healing/Inflammatory Fibroproliferative Disorder

THURSDAY, MAY 6, 2021

12:00 PM ET - 12:30 PM ET

THEATER

Introduction: Marjana Tomic-Canic, PhD



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

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

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

https://profiles.utsouthwestern.edu/profile/102718/donald-glass.html https://utswmed.org/doctors/donald-glass/



Poster and Exhibitor Session II



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

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

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

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

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Stephen Rothman Memorial Award

FRIDAY, MAY 7, 2021

10:30 AM ET - 10:45 AM ET

THEATER

Introduction by: Paul Nghiem, MD/PhD



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

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

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



AWARD HISTORY

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



Eugene M. Farber Lecture

Getting Clear: Psoriasis Advancements and Beyond

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

Introduction by: Daniela Kroshinsky, MD



April Armstrong, MD/MPH

Keck School of Medicine at Univ. of Southern California (USC) Los Angeles, CA

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

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

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

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

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



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.



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State-of-the-Art Plenary Lecture V

Understanding Skin Host Defense In Health And Disease

FRIDAY, MAY 7, 2021

11:15 AM ET - 11:45 AM ET

THEATER

Introduction: Tissa Hata, MD



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

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

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





Business Meeting for Members

FRIDAY, MAY 7, 2021	11:45 AM ET - 12:45 PM ET	THEATER
Age	enda:	
•	Secretary-Treasurer Report	
•	JID Editor Report	
·	JID Innovations Editor Report	
•	Moment of Silence	
•	Approval of New Members	
•	New Board Member Elections	
•	Acknowledgment of Outgoing Board and Com	nittee Members
	Passing of the Gavel to new President	
•	2022 SID Annual Meeting Updates	
•	New Business	
•	Adjournment	
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Plenary Lecture Session IV

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

Presiders: Lisa Beck, MD and Nicole Ward, PhD

Poster #093

Dissecting intercellular communication in adult human skin with single-cell and spatial transcriptomics <u>A. Ji</u>¹, K. Thrane², M. Guo¹, A. Rubin¹, D. Kim¹, T. Hollmig¹, S. Aasi¹, J. Lundeberg², P. Khavari¹ ¹Dermatology, Stanford University School of Medicine, Stanford, California, United States, ²SciLifeLab, Stockholm, Sweden

Poster #532

Keratinocyte desmoglein 1 as a target and mediator of paracrine signaling in the melanoma niche <u>H. Burks</u>¹, C. Arnette¹, J. Koetsier¹, J. Broussard^{1, 2}, **Q. Roth-Carter¹**, P. Gerami^{1, 2, 3}, J. L. Johnson¹, K. Green^{1, 2, 3} ¹Pathology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, ²Dermatology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, United States, ³Robert H Lurie Comprehensive Cancer Center, Chicago, Illinois, United States

Poster #184

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

Poster #499

Extracellular vesicles from UVB-irradiated keratinocytes contain cyclobutane pyrimidine dimers <u>M. A. Carpenter</u>, M. Ginugu, M. G. Kemp Pharmacology and Toxicology, Wright State University, Dayton, Ohio, United States



Naomi Kanof Lecture

The Use of Patient Reports to Improve Healthcare

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

Introduction by: Suephy Chen, MD



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

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

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



LECTURESHIP HISTORY

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

State-of-the-Art Plenary Lecture VI

Digital Dermatology

SATURDAY, MAY 8, 2021

12:00 PM ET - 12:30 PM ET

THEATER

Introduction: Kurt Lu, MD



Shuai "Steve" Xu, MD/MSc Northwestern University Chicago, IL

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

https://www.feinberg.northwestern.edu/faculty-profiles/az/profile.html?xid=39481 https://www.feinberg.northwestern.edu/sites/dermatology/research/t32/trainees/previous-trainees/ xu-shuai.html



2021 SID Virtual Meeting

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SID AWARDS

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Presented for distinguished service to investigative cutaneous medicine.

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

NAOMI M. KANOF CLINICAL INVESTIGATOR AWARD

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

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

JULIUS STONE LECTURESHIP

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

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





WILLIAM MONTAGNA LECTURESHIP

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

1975	Kenneth Halprin
1976	Frank Parker
1977	Arthur Eisen
1978	Irma Gigli
1979	Marvin Karasek
1980	Irwin Freedberg
1981	Stephen Katz
1982	John Parrish
1983	Doualas Lowy
1984	Gerald Lazarus
1985	Eugene Bauer
1986	Geora Stinal
1987	louni Uitto
1988	Stuart Yuspa
1989	Tung-Tien Sun
1990	Karen Holbrook
1001	
1992	Dennis Roon
1003	Ervin Enstein Ir
1004	John Stanley
1005	Flaine Fuchs
1006	Thomas Kuppor
1007	Barbara Cilchrost
1777	Pobort Modlin
1770	Fiong Watt
2000	Thomas Lugar
2000	Dotor Eligo
2001	Kathleen Creen
2002	Masayuki Amagai
2003	
2004	
2005	Paul Knavari Diebewel Ceille
2000	Richard Gallo
2007	George Cotsarells
2008	Pierre Coulombe
2009	Angela Christiano
2010	W. H. Irwin McLean
2011	John McGrath
2012	Howard Chang
2013	Andrzej Dlugosz
2014	Xiao-Jing Wang
2015	Hensin Tsao
2016	Anthony Oro
2017	Sarah Miller
2018	Valerie Horsley
2019	Michael Rosenblum
2020	Valentina Greco, PhD

EUGENE M. FARBER LECTURESHIP

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

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



SAVE THE DATE: Hybrid Meeting

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

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

asdr.org.au







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2021

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The 46th Annual Meeting of the Japanese Society for Investigative Dermatology



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About KSID

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

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

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

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

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

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








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The SID is the pre-eminent scientific and research organization in the world. Join the thousands of others in your field to gain access to world-class educational content, subscriptions to the Journal of Investigative Dermatology and JID Innovations and preferred pricing for both in-person and virtual meetings among many other benefits.

SID Members by Affiliation

The SID has members from several affiliations including academia, government, industry and private practice. Approximately two-thirds of our Members work within academia.

International Membership

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

Qualifications

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

https://www.sidnet.org/membership/

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

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