



MEETING PROGRAM

SCOTTSDALE, ARIZONA
MAY 11-14, 2016

WESTIN KIERLAND
RESORT & SPA

FUTURE ANNUAL MEETINGS



66th Annual Meeting

April 26-29, 2017

Hilton Portland & Executive Tower
Portland, Oregon



IID - 2018

May 16-19, 2018

Rosen Shingle Creek
Orlando, Florida

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77th Annual Meeting

May 8-11, 2019

Hilton Chicago
Chicago, Illinois

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Welcome to Scottsdale

On behalf of the Society for Investigative Dermatology (SID), welcome to the 2016 Annual Meeting in Scottsdale. A cosmopolitan center where warm sunshine and cool culture collide, Central Arizona is your playground. With the Phoenix area at its heart – including cities from Chandler, in the southeast, to Peoria, in the northwest – Central Arizona is a haven of relaxing resorts and award-winning golf, restaurants, shopping and nightlife.

If you're looking for a spot that's as much cowboy as it is couture, you're in luck in Scottsdale. This scenic desert city is home to posh resorts and spas, dozens of golf courses, and great shopping and dining – but it's also where you'll find plenty of Old West charm and Southwestern art and jewelry.

Big-league sporting events, renowned museums and plenty of trails for biking and hiking are just the beginning in Phoenix, Arizona's capital city and the heart of a metropolitan area of more than 4 million people. With a skyscraper-filled skyline complemented by famed Camelback Mountain, Phoenix offers the perfect balance of urban energy and Southwestern scenery. We hope you will find time to sample all that Central Arizona has to offer and we are confident that you will enjoy your stay.

As always, we are grateful to the Committee on Scientific Programs which has again this year planned an exciting and enlightening program for us.

Since its founding in 1937, the SID has been committed to facilitating the careers of young investigators by providing a dynamic forum in which a diverse group of scientists can interact. We remain fully committed to this goal and to offer programming that reaches all members of the dermatology and cutaneous biology research communities.

We have scheduled a variety of activities to highlight scientific advances made by our community, and social events that will celebrate our international scientific community and the culture and beauty of Scottsdale.

Welcome to what promises to be another truly outstanding SID Annual Meeting!



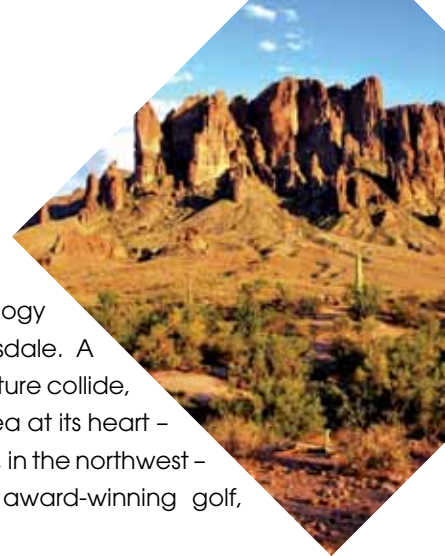
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SID AWARDS

Stephen Rothman Memorial Award Recipients

Presented for distinguished service to investigative cutaneous medicine.

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

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

Julius Stone Lectureship

This award 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

William Montagna Lectureship

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

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

Herman Beerman Lectureship

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

1961	Rene Dubos
1962	Hans Selye
1963	Rupert Billingham
1964	Curt Stern
1965	Albert Szent-Gyorgyi
1966	Jerome Gross
1967	G.J.V. Nossal
1968	John Buettner-Janusch
1969	Henry Kunkel
1970	Norman Wessells
1971	Aiden Breathnach
1972	Frank Dixon
1973	H. Hugh Fudenberg
1974	Charles Cochrane
1975	David Katz
1976	Bert O'Malley
1977	Russell Ross
1978	Hilary Koprowski
1979	Michael Brown
1980	Phil Leder
1981	Pedro Cuatrecasas
1982	Frank Ruddle
1983	Lawrence Lichtenstein
1984	Robert Gallo
1985	Thomas Waldmann
1986	Torsten Wiesel
1987	Leroy Hood
1988	Joseph Goldstein
1989	Pierre Chambon
1990	Ronald Herberman
1991	K. Frank Austen
1992	Bert Vogelstein
1993	Charles Janeway, Jr.
1994	Solomon Snyder
1995	Eric Lander
1996	Irving Weissman
1997	Michael Karin
1998	Günter Blobel
1999	Philippa Marrack
2000	Robert Langer
2001	William Haseltine
2002	Ronald DePinho
2003	Thomas Jessell
2004	Robert Weinberg
2005	Timothy Ley
2006	Amita Sehgal
2007	Stuart Schreiber
2009	Daniel Kastner
2010	Raymond Schinazi
2011	Jennifer Lippincott-Schwartz
2012	Mina Bissell
2013	Allan Balmain
2014	Hopi Hoekstra
2015	Drew M. Pardoll

Eugene M. Farber Psoriasis Research Award

This award is presented at the Annual Meeting to young investigators whose focus is on psoriasis research.

2003	David Jones
	Thomas McCormick
2004	Edmund Lee
	Michael Allen
2005	Curdin Conrad
	Shigetoshi Sano
2006	Helen Young
	Amos Gilhar
2007	Rajan Nair

Eugene M. Farber Lectureship

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

2007	Brian Nickoloff
2008	Enno Christophers
2009	James T. Elder
2010	James Krueger
2011	Kevin Cooper
2012	Frank Nestle
2014	Joel Gelfand
2015	Christopher E.M. Griffiths

Albert M. Kligman/Phillip Frost Leadership Lecture & Award

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

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

SID/Galderma Acne Research Award

2002	Diane Thiboutot
2003	Jenny Kim
2004	Michaela Downie
2005	Andrzej Dlugosz
2006	Sewon Kang
2007	Philip Liu

SID/Galderma Rosacea Research Award

2009	Kenshi Yamasaki
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What's New at the SID Annual Meeting

Advancing Discovery at the SID Annual Meeting

You have conducted your research and have some promising findings you will present during the meeting. What next? How can you advance an idea to commercialization? The Society for Investigative Dermatology (SID) wants to help interested investigators prepare for Industry partnerships. This year there are two special sessions during the Annual Meeting designed to do just that:



May 12, 2016, 12:00 pm – 1:45 pm Preparing for Interactions with Industry Session

This novel program will feature presentations and panel discussions with Academic and Industry researchers, and entrepreneurs who have forged successful collaborations. You will hear about what you need to have, how you should communicate, and learn how to avoid some of the hurdles on the path of discovery.

May 13, 2016, 12:00 pm – 2:00 pm Speed Dating at SID

This signature SID event features a novel interface between Academic Investigators and Industry representatives. The SID office schedules meetings by matching keywords defined by Industry that match submitted abstracts, based on synergistic areas of research. Partners meet for 15 minutes to determine if there is potential for collaboration.

#speeddatingatsid

Note: These individual meetings are all pre-arranged and confirmed before the session.

What's New at the SID Annual Meeting

Come See My Poster

Following in the success of both the ESDR and JSID's innovative programming, the SID is proud to announce that we will offer two 15-minute sessions during the Annual Meeting...titled "Come See My Poster."

These sessions will give opportunities to select presenting authors of highly scored abstracts to give a brief one-minute (and one slide) introduction to their submitted abstract. This rapid paced session is in advance of one of the SID's Poster Sessions...providing both an excellent starting point into the Poster Hall and the generation of excitement for all attendees.

Going Mobile

Navigate the 75th Annual Meeting from your mobile device! In partnership with Cadmium CD, the SID is proud to present the 2016 Annual Meeting mobile event app.

This year's app will make it easy for attendees, exhibitors, and speakers to connect. Attendees can access their personal schedules right from the palm of their hand. You can track the exhibitors they've visited, see all the full text abstracts, have access to the meeting schedule and floor plans, apply for CME credit, take notes, call for an Uber ride, check the weather, get discounts from the Westin Kierland Resort and Spa, check-in with your airline, access social media sites, and interact with fellow attendees to name just a few of the features.

Download the 2016 SID Annual Meeting Mobile app from the Apple iTunes and the Google Play Stores.

Trainee/Faculty Mixer

Throughout the years, the SID has encouraged meetings between Residents and Post-Doc Fellows. To continue its promotion of collegiality, the SID presents a Trainee Mixer (small group meetings in which senior/junior scientists and a group of four to six residents and post-doc fellows) to discuss issues over cocktails and light fare. These sessions provide an opportunity to talk informally about subject matter of interest including research opportunities in dermatology, life in academia or how to combine clinical work with research.

A Guide to Using the SID 2016 Annual Meeting App

STEP 1

Download the "SID 2016 Annual Meeting" App from the Apple App Store or Google Play Store. To start using the app, select "Create Account" and type your **name** and **email address**. If you already have an account, select "Login" and enter your **username** (your email) and **password**.



STEP 2

Find the abstracts you want quickly and write notes, using the note-taking mode to jot your thoughts next to each abstract.

Please note that you will need an internet connection to download all the text, but can later view them and take notes on them without one.



STEP 3

If you don't have a device that is able to download apps, you can use your **laptop**. As long as you have an internet connection, you can take notes on presentations through your laptop, or access slides following the conference on a laptop or desktop via the following website link: <http://bit.ly/SIDannual>. If you already have an account on a mobile device, **use the same account information** that was emailed to you. Otherwise follow the steps to create an account.



CME Statement & Objectives

The University of Rochester,
Center for Experiential
Learning presents...

THE 2016 SOCIETY FOR INVESTIGATIVE DERMATOLOGY (SID) ANNUAL MEETING

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

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

TARGET AUDIENCE

The primary target audiences for SID 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:
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SUMMARY OF FACULTY DISCLOSURE/ CONFLICT RESOLUTION

Staff and Content Validation

Reviewer Disclosure

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

Resolution of Conflicts of Interest

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

UNAPPROVED USE DISCLOSURE STATEMENT

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Society for Investigative Dermatology
CME
526 Superior Avenue E, Suite 540
Cleveland, OH 44114

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

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Planning Committee / Speaker Declarations

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

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Christopher Bunick, MD/PhD
Emily Cai, BA
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Jean Christopher Chamcheu, PhD/MS
Jérémy Chéret, PhD
Jaehyuk Choi, MD/PhD
Yeu Ja Choi, PhD
Carlos Clavel, PhD
Joel Correa da Rosa, PhD
Chang-Yi Cui, MD/PhD
Lara Cutlar, PhD/MS/BS
tali Czarnowicki, MD
Katuscia Dallaglio, MS
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Hitokazu Esaki, MD
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Ariel Finkelsztain, PhD
Alexander Fischer, BS
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Renee Fruchter, BA
Emily Galan, MD
Luis Garza, MD/PhD
Rui Ge, MS
Glenn Geidel
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Thomas Leung, MD/PhD
Bing Li, MD
Jun Li, MD
Ning Li, PhD
Yun Liang, PhD
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Young Lim, BS
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Alicia Mathers, PhD
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Saisindhu Narala, BS
Carlen Niessen, PhD
Keisuke Nagao, MD/PhD
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Andrew Overmiller, BS
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Amelie Rezza, PhD
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Ofer Sarig, PhD
Tiffany Scharschmidt, MD
George Sen, PhD
John Seykora, MD/PhD
Palak Shah, MS
Andrey Sharov, MD/PhD
Yiqun Shellman, PhD
Qiong Shi, PhD Candidate
Cory Simpson, MD/PhD
Mihaela Anca Sindrilaru, MD
Anca Sindrilaru, MD
Zurab Siprashvili, PhD
Andrzej Slominski, MD/PhD
Gideon Smith, MD/PhD
Kevin Sondenheimer, MD
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Danielle Tartar, MD/PhD
Tian Tian, PhD
Daniel Todd, MBA/BS
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Jeffrey Travers, MD/PhD
Shivani Tripathi, MD
Kenneth Tsai, MD/PhD
Lam Tsoi, PhD
Yohei Uchida, MD
Akihiko Uchiyama, MD/PhD
*Mark C. Udey, MD/PhD
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John Varga, MD
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Jake Wang, BS
Yang Wang, MD
Etienne Wang, MBBS
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Ramon Whitson, PhD
Georg Wondrak, PhD
Richard Woolf, PhD/MBChB
Kosuke Yamaga, MD
Brian Zarnegar, PhD
Lingjuan Zhang, PhD
Dale Zhou, BA
Linli Zhou, PhD

* Planning Committee Members

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

Niroshana Anandasabapathy, MD/PhD, Grant/Research Support: Sanofi Innovators Award; Other: Genentech Invited Speaker

Maryam Asgari, MD, Grant/Research Support Pfizer Inc, Valeant Pharmaceuticals. Grant support to institution received, but none relevant to this work.

Tilo Biedermann, MD, Grant/Research Support: Novartis, Thermo Fisher; Consultant: MEDA, ALK Abello, Thermo Fisher, Novartis; Speakers' Bureau: Biotest, MSD, MEDA, ALK Abello, Thermo Fisher, Novartis

George Cotsarelis, MD, Other Financial or Material Support: Follica: Scientific Advisory Board

*Ponciano Cruz, MD, Grant/Research Support: Astellas

Anna Di Nardo, MD/PhD, Grant/Research Support: Galderma

*Richard Gallo, MD/PhD, Grant/Research Support: L'Oreal, Colgate-Palmolive, Allergan; Consultant: Alnylan, Promius, Sente, Novartis, Skylit Medical, Roche

Emma Guttman-Yassky, MD/PhD, Grant/Research Support: LEO Pharmaceuticals, Celgene, Dermira, Janssen Biotech, Novartis, BMS, Regeneron; Consultant: AbbVie, Amgen, Anacor, AnaptysBio, Celus Therapeutics, Drais, Galderma, Glenmark, Medimmune, Pfizer, Sanofi, GlaxoSmithKline, Vitae, Mitsubishi Tanabe, Eli Lilly; Other Financial or Material Support: Genentech, Merck Pharmaceuticals

Hans Hofland, PhD, Other Financial or Material Support: Employee and Shareholder: Dermira, Inc.

*Sam Hwang, MD/PhD, Grant/Research Support: Novartis; Consultant: AbbVie

*Ethan Lerner, MD/PhD, Grant/Research Support: LEO Pharma; Consultant: Thesys Pharmaceuticals, Tioga Pharmaceuticals, Vertex Pharmaceuticals, Nuvo Research, Dermira

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Kimberly McHale, Ph.D., Other Financial or Material Support: Novan, Inc

*Lloyd Miller, MD/PhD, Grant/Research Support: MedImmune, LLC, Pfizer, Inc., Chan Soon Siong Institute for Advanced Health, ImmuneXcite, Inc., IBM - Almaden Research Center; Consultant: Stemnion, Inc., Chan Soon-Siong Institute for Advanced Health; Major Stock Shareholder: Stemnion, Inc.

*Paul Nghiem, MD/PhD, Consultant: EMD Serono

Anthony Oro, MD/PhD, Grant/Research Support: Novartis; Major Stock Shareholder: Ulixa

John O'Shea, MD, Grant/Researcher Support: NIH CRADA with Pfizer

Mayte Suarez-Farinas, PhD, Grant/Research Support: Pfizer

Argyrios Theofilopoulos, MD, Grant/Research Support: BATU Biologics; Consultant: BATU Biologics, Cancel Immunotherapy; Speakers' Bureau: BATU Biologics Major Stock Shareholder BATU Biologics

*Nicole Ward, PhD, Grant/Research Support: Allergan; Consultant: Allergan; Speaker's Bureau: Amgen; Other Financial or Material Support: Reagents from Amgen, Eli Lilly

*Victoria Werth, MD, Grant/Research Support: Biogen, Celgene, Janssen; Consultant: Biogen, Medimmune, Idera, Kirin, Pfizer; Other Financial or Material Support: University of Pennsylvania owns copyright for CLASI and CDASI

David Woodley, MD, Grant/Research Support: Shire Pharmaceuticals; Consultant: Shire Pharmaceuticals; Patents with the University of Southern California on human recombinant type VII collagen

Ying Zheng, PhD, Grant/Research Support: Kythera, Allergan

* Planning Committee Members

Meeting-At-A-Glance

TUESDAY, MAY 10, 2016

Resident Retreat By Invitation Only
Registration & Informal Networking **12:00 pm – 1:00 pm**
Program Session **1:00 pm – 6:15 pm**
Kierland 1A

PhD Retreat By Invitation Only
Registration & Informal Networking **12:00 pm – 1:00 pm**
Program Session **1:00 pm – 5:00 pm**
Kierland 1A
Breakout Session **5:00 pm – 6:15 pm**
Kierland 1B

Resident/ PhD Retreat By Invitation Only
Welcome Dinner **6:15 pm – 7:15 pm**
Kierland 1C

Resident/ PhD Networking By Invitation Only
Reception **7:15 pm – 8:30 pm**
Hall of State Foyer

WEDNESDAY, MAY 11, 2016

Resident Retreat **7:30 am – 12:00 pm**
By Invitation Only Trailblazers A & B

PhD Retreat By invitation Only
Trailblazers A & B **7:30 am – 9:00 am**
Trailblazers D & E **9:00 am – 10:00 am**
Trailblazers A & B **10:15 am – 12:00 pm**

SID Board of Directors Meeting **8:00 am – 2:00 pm**
Trailblazers C

Registration **8:00 am – 6:30 pm**
Hall of State

T Translational Science Symposium **12:00 pm – 3:00 pm**
Connective Tissue Disease Kierland Ballroom

T Irvin H. Blank Forum **3:00 pm – 5:00 pm**
Fibroblast Biology Kierland Ballroom

State-of-the-Art Plenary Lecture I **5:00 pm – 5:30 pm**
Hair Follicles as Regulators of Immune Homeostasis
Keisuke Nagao, MD/PhD Kierland Ballroom

State-of-the-Art Plenary Lecture II **5:30 pm – 6:00 pm**
Mesenchymal Control of Hair Follicle Formation, Growth, and Regeneration
Michael Rendl, MD Kierland Ballroom

President's Welcome **6:00 pm – 6:15 pm**
Mark C. Udey, MD/PhD Kierland Ballroom

Kligman/Frost Leadership Lecture **6:15 pm – 6:45 pm**
Evo-Devo of the Skin: A Bird's Eye View
Cheng-Ming Chuong, MD/PhD Kierland Ballroom

Welcome Reception **7:00 pm – 8:30 pm**
Marshall's Outpost Lawn/Pavilion

THURSDAY, MAY 12, 2016

Registration **7:30 am – 4:00 pm**
Hall of State

T Plenary Session I **8:00 am – 9:00 am**
Kierland Ballroom

I Eugene M. Farber Lecture **9:00 am – 9:30 am**
Modelling Mayhem-What Transgenic Mice Can Teach us about Psoriasis Pathogenesis
Nicole Ward, PhD Kierland Ballroom

S Naomi M. Kanof Lecture **9:30 am – 10:00 am**
Progress in Immune-Mediated Control of Malignant Disease
Roger Perlmutter, MD/PhD Kierland Ballroom

Come See My Poster I **10:00 am – 10:15 am**
Poster #'s 677, 713, 589, 255, 365, 485, 075, 483, 343, 471, 625, 741, 037 Kierland Ballroom

T Clinical Scholars Program Session I **10:15 am – 12:00 pm**
Tissue Regeneration & Wound Healing Kierland Ballroom

Poster Session I/Coffee Break **10:15 am – 12:15 pm**
Odd Poster #'s 001-755 / LB #'s 757-825 Herberger Ballroom

T Satellite Symposium **12:00 pm – 1:45 pm**
Academic-Industry Partnership Project (AIPP) Panel Discussion
Preparing for Interactions with Industry Kierland 4

Concurrent Mini-Symposia **2:00 pm – 4:30 pm**
1. Adaptive Immunity and Vaccination Trailblazers A & B

S 2. Carcinogenesis/Cancer Genetics Trailblazers D & E

I S 3. Clinical Research I: Epidemiology and Patient Outcomes Research Kierland 1, 2, 3

4. Photobiology Trailblazers C

5. Epidermal Structure & Barrier Function Kierland 4

T Mini-Symposia Mixers **4:30 pm – 5:00 pm**
Individual Concurrent Meeting Rooms

Social Event **6:00 pm – 10:00 pm**

The Musical Instrument Museum

Ticketed Event: Pre-Registration Required
Buses load from the Westin Kierland beginning at 5:30 pm. Buses will begin shuttling guests back to the hotel beginning at 8:00 pm.

Meeting-At-A-Glance

FRIDAY, MAY 13, 2016

Registration 7:30 am – 4:00 pm
Hall of State

S Plenary Session II 8:00 am – 9:00 am
Kierland Ballroom

Stephen Rothman Memorial Award 9:00 am – 9:15 am
Presented to R. Rox Anderson, MD Kierland Ballroom

Herman Beerman Lecture 9:15 am – 9:45 am
Beyond the Sequence: Understanding the Genome in 3D
Tom Misteli, PhD Kierland Ballroom

Coffee Break 9:45 am – 10:00 am
Sponsored by Travel Portland Hall of State

State-of-the-Art Plenary Lecture III 10:00 am – 10:30 am
Harnessing Big Data to Answer Clinically Relevant Questions in Dermatology
Maryam M. Asgari, MD/MPH Kierland Ballroom

State-of-the-Art Plenary Lecture IV 10:30 am – 11:00 am
Cutaneous Mosaicism: Clinical Presentations and Pathogenic Mechanisms
Dawn H. Siegel, MD Kierland Ballroom

Come See My Poster II 11:00 am – 11:15 am
Poster #'s 124, 658, 316, 234, 730, 362
676, 690, 644, 034, 566, 036 Kierland Ballroom

Business Meeting for Members 11:30 am – 12:00 pm
Kierland Ballroom

Satellite Symposium 12:00 pm – 2:00 pm
Academic-Industry Partnership
Project (AIPP) *Speed Dating at SID*
Individual Meetings (set up in advance by the SID) Pathfinders

Concurrent Mini-Symposia 2:00 pm – 4:30 pm
6. Auto-Immunity Trailblazers A & B

I 7. Genetic Disease, Gene Regulation, Gene Therapy Trailblazers D & E

S 8. Clinical Research II: Pathophysiology and Therapeutics Kierland 4

9. Growth Factors, Cell Adhesion, and Matrix Biology Rainmakers

10. Tissue Regeneration and Wound Healing Trailblazers C

S I 11. Interdisciplinary Spotlight: Immunomodulation Kierland 1, 2, 3

T Mini-Symposia Mixers 4:30 pm – 5:00 pm
Individual Concurrent Meeting Rooms

Trainee/Faculty Mixer 6:00 pm – 7:30 pm
Ticketed Event:
Pre-Registration Required Marshall's Outpost Pavilion

SATURDAY, MAY 14, 2016

SID Board of Directors Meeting 7:00 am – 7:45 am
Mapmakers

Registration 7:30 am – 12:00 pm
Hall of State

S I Plenary Session III 8:00 am – 9:00 am
Kierland Ballroom

S William Montagna Lecture 9:00 am – 9:30 am
Targeted Tumor Therapy and the Race Against Resistance
Anthony Oro, MD/PhD Kierland Ballroom

I Julius Stone Lecture 9:30 am – 10:00 am
Cytokine Signaling: From Genomic Switches to New Drugs
John O'Shea, MD Kierland Ballroom

T Clinical Scholars Program Session II 10:00 am – 12:00 pm
The Tumor Microenvironment and Skin Cancer Kierland Ballroom

Poster Session II/Coffee Break 10:00 am – 12:00 pm
Even Poster #'s 002-754 / LB #'s 756-824 Herberger Ballroom

Concurrent Mini-Symposia 12:30 pm – 3:00 pm

I 12. Innate Immunity, Inflammation, and Microbiology Kierland 4

S 13. Pigmentation and Melanoma Trailblazers D & E

14. Pharmacology and Drug Development Trailblazers C

15. Skin and Hair Developmental Biology Trailblazers A & B

Associate Groups Meeting-At-A-Glance

TUESDAY, MAY 10, 2016

International Pachyonychia Congenita Consortium (IPCC) 7:00 am – 8:30 am
13th Annual Research Symposium Breakfast Pathfinders

International Pachyonychia Congenita Consortium (IPCC) 8:30 am – 4:00 pm
13th Annual Research Symposium Tribal

WEDNESDAY, MAY 11, 2016

International Pachyonychia Congenita Consortium (IPCC) 7:00 am – 8:30 am
13th Annual Research Symposium Breakfast Pathfinders

International Pachyonychia Congenita Consortium (IPCC) 8:45 am – 12:30 pm
13th Annual Research Symposium Tribal

Cicatricial Alopecia Research Foundation 1:00 pm – 7:30 pm
(CARF) Research Symposium & Roundtable Rainmakers

Dermatology Foundation 6:45 pm – 7:00 pm
Kierland Ballroom

THURSDAY, MAY 12, 2016

Pediatric Dermatology Research Alliance/Society for Pediatric Dermatology Session 7:00 am – 8:00 am
Trailblazers A & B

International Transplant Skin Cancer Collaborative (ITSCC) 12:00 pm – 1:30 pm
Inaugural Transplant Dermatology Symposium Trailblazers A & B

International Eczema Council 12:00 pm – 1:30 pm
Trailblazers D & E

International Society for Cutaneous Lymphomas 12:00 pm – 1:30 pm
Cutaneous T-Cell Lymphoma Symposium (ISCL/CTCL) Trailblazers C

American Acne and Rosacea Society (AARS) 12:00 pm – 1:30 pm
5th Annual Scientific Symposium Rainmakers

FRIDAY, MAY 13, 2016

Pediatric Dermatology Research Alliance/Society for Pediatric Dermatology Session 7:00 am – 8:00 am
Trailblazers A & B

BJD Editorial Board Meeting 9:45 am – 10:45 am
Noble Ballroom

American Skin Association Awards 11:15 am – 11:30 am
Kierland Ballroom

International Psoriasis Council 12:00 pm – 1:30 pm
Trailblazers A & B

American Dermato-Epidemiology Network (ADEN) Symposium 12:00 pm – 1:45 pm
Kierland 4

Medical Dermatology Society 12:00 pm – 1:45 pm
Trailblazers C

Women's Dermatologic Society Luncheon 12:00 pm – 1:45 pm
Tribal A & B

Research in Cutaneous Surgery (RCS) Symposium 12:00 pm – 1:30 pm
Rainmakers

Dystrophic Epidermolysis Bullosa Research Association (DEBRA) of America 12:00 pm – 1:30 pm
Trailblazers D & E

National Eczema Association 6:00 pm – 7:00 pm
Mapmakers A & B

North American Hair Research Society (NAHRS) 6:00 pm – 8:30 pm
Kierland 4

National Psoriasis Foundation Reception 6:00 pm – 8:00 pm
Pathfinders A

SATO Japan Scientific Forum 6:00 pm – 9:30 pm
Tribal A & B

2016 SID Educational Tracks

The SID is pleased to offer special educational tracks/special collections of focused topics within the 2016 Annual Meeting: The Skin Cancer, Inflammatory Skin Disease, and Trainee Tracks. The SID has been increasing the variety of sessions offered at the Annual Meeting that are geared toward residents, fellows, students and clinicians. The Track system is an easy way for attendees to identify components of the Meeting that provide in-depth coverage. Session components of each track are indicated with initials on the 'Meeting at a Glance' pages: **Young Investigator/Trainee Track (T)**; **Inflammatory Skin Disease (I)**; and **Skin Cancer Track (S)**

Tracks include portions of the meeting that offer a density of thematic content, providing a cohesive learning experience. They also provide significant opportunities for networking and collaboration, as attendees share common clinical and research interests.

Note: These tracks merely highlight themes that run throughout the meeting. Attendees are encouraged to select sessions by conducting keyword searches for disease, mechanism, gene, etc.

T YOUNG INVESTIGATOR/TRAINEE

There are several sessions offered during the SID meeting that are designed for Trainees. They are intended to provide an overview of basic, clinical and translational science, along with opportunities to interact with senior faculty. The target audience includes medical and biomedical science students, research fellows, Dermatology residents, PhD/Post-doctoral candidates, and Junior Faculty.

TRACK COMPONENTS

Wednesday, May 11

- Translational Science Symposium
- Irvin H. Blank Forum

Thursday, May 12

- Clinical Scholars Plenary Session I
- Satellite Symposium: Academic-Industry Partnership Project
- Mini-Symposia Mixers
- Informal Q&A to promote attendee interactions

Friday, May 13

- Mini-Symposia Mixers

Saturday, May 14

- Clinical Scholars Plenary Session II

I INFLAMMATORY SKIN DISEASE

This track includes special sessions occurring over the four-day SID meeting, and offers an in-depth view of Inflammatory Skin Diseases, both common and rare, through a variety of lenses. Presentations span the full translational continuum-from animal surrogate models to human trials, utilizing genetic, mechanistic, epidemiological, and technical approaches.

TRACK COMPONENTS

Thursday, May 12

- Plenary Session I
- Eugene M. Farber Lecture
- Concurrent Mini-Symposia: Clinical Research I: Epidemiology and Patient Outcomes Research

Friday, May 13

- Concurrent Mini-Symposia: Genetic Disease, Gene Regulation and Gene Therapy
- Concurrent Mini-Symposia: Interdisciplinary Spotlight: Immunomodulation

Saturday, May 14

- Plenary Session III
- Julius Stone Lecture
- Concurrent Mini-Symposia: Innate Immunity, Inflammation and Microbiology

S SKIN CANCER

A significant amount of research will be presented during this year's SID meeting. More than a fourth of abstracts submissions relate to all types of skin cancers, and many of the Invited/Named Lectures relate to emergent areas of cutaneous oncology.

TRACK COMPONENTS

Thursday, May 12

- Naomi M. Kanof Lecture
- Concurrent Mini-Symposia: Carcinogenesis/Cancer Genetics
- Concurrent Mini-Symposia: Clinical Research I: Epidemiology and Patient Outcomes Research

Friday, May 13

- Plenary Session II
- Concurrent Mini-Symposia: Clinical Research II: Pathophysiology and Therapeutics
- Concurrent Mini-Symposia: Interdisciplinary Spotlight: Immunomodulation

Saturday, May 14

- Plenary Session III
- William Montagna Lecture
- Concurrent Mini-Symposia: Pigmentation and Melanoma

2016 SID Retreat Attendees & Travel Awardees

2016 SID RETREAT ATTENDEES

Chris Adase, PhD
Danson Ako-Adjei, MD
Kyle Amber, MD
Adam E. Bennett, MD/PhD
Donna Brennan-Crispi, PhD
Lauren N. Craddock, MD
Christopher Sean Crowley, MD/PhD
Nika Cyrus, MD
Hung Doan, MD/PhD
Beatrice Dyring-Andersen, MD/PhD
Mariana Freudzon, MD
Christina Gamba, MD
Ari Goldminz, MD
Lia Gracey Maniar, MD/PhD
Rishu Gupta, MD
Rebecca Hartman, MD/MPH
Ashley R. Heurung, MD
Allen Ho, MD/PhD
Kevin In, PhD
Tarannum Jaleel, MD
Andrew Ji, MD
Melissa Kinnebrew, MD/PhD
Yun Liang, PhD
Alicia Little, MD/PhD
Haiyun Liu, PhD
Alexander Marzuka, MD
Jacquelyn Meisel, PhD
Zachary Nahmias, MD
Teruaki Nakatsuji, PhD
Leigh Nattkemper, PhD
Krisztian Nemeth, MD/PhD
Cuong Nguyen, MD
Anna Nichols, MD/PhD
Neda Nikbakht, MD/PhD
Elizabeth Noble Ergen, MD
Keith Olsen, MD/PhD
Eden Pappo, MD
Darci Phillips, MD/PhD
Aaron M. Secrest, MD, PhD
Arsalan Q. Shabbir, MD/PhD
Aurora Shehu, MD/PhD
Rivka Stone, MD/PhD
Danielle Tartar, MD/PhD
Xinyi Wang, PhD
Emily Warshauer, MD
Margaret Wat, MD/PhD
Mackenzie R. Wehner, MD/MPhil
Ramon Whitson, PhD
Erin Wilmer, MD
Steve (Shuai) Xu, MD
Yul Wonjun Yang, MD/PhD
Kenneth Yu, MD/PhD
John Zampella, MD
Ling-Juan Zhang, PhD

2016 APSA/SID TRAVEL AWARDEES

Omotayo Arowojolu, MS
Mohammed Dany, MD
Aleksandar Krbanjevic, MD/PhD

ESDR/JSID/SID YOUNG FELLOW COLLEGIALLY TRAVEL AWARDEES

Marie-Charlotte Brueggen, MD (ESDR/SID)
Tiago Matos, MD (ESDR/SID)
Yu Sawada, MD (JSID/SID)
Kosuke Yamaga, MD (JSID/SID)

2016 SID ALBERT M. KLIGMAN TRAVEL FELLOWSHIP AWARDEES

Samuel Balin, MD/PhD
Matthew Brooke, PhD
Katuscia Dallaglio, PhD
Lopa Das, PhD
Kingsley Essien
Robert Feehan
Alexander Fischer
Renee Fruchter
Emily Galan, MD
Thomas Haarmann-Stemmann, PhD
Sangbum Han
Sebastian Huth, PhD
Noori Kim, MD
Mingxing Lei, PhD
Bing Li, MD
Marc Liggins
Fang Liu, MD/PhD
Inez Oh
Sachiko Ono
Andrew Overmiller
Neil Patel, MBBS/MRCP
Alon Peled, BMSc
Marika Quadri, MSc
Palak Shah, MB
Rivka Stone, MD/PhD
Eddy Hsi Chun Wang, PhD
Richard Woolf, PhD
Linli Zhou, PhD

2016 SID PAUL BERGSTRESSER TRAVEL AWARDEES

Hasan Abaci, PhD
Kathleen Baysac, PhD
Shreya Bhattacharya, PhD
Emily Cai
Linna Guan
Dongwon Kim, PhD
Jaehwan Kim, MD/PhD
Sherry Lee
Thomas Leung, MD/PhD
Yun Liang, PhD
Vanessa Lopez-Pajares, PhD
Nicholas Mascarenhas
Gargi Patil
Amelie Rezza, PhD
Thomas Yang Sun
Danielle Tartar, MD/PhD

2016 SID STUDENT RESEARCH/ FELLOW TRAVEL AWARDEES

Jean Christopher Chamcheu, MS/PhD
Yeun Ja Choi, PhD
Blake Friedman
Guillermo Rivera Gonzalez, PhD
Hans I-Chen Harn, PhD
Derek Hsu
Taegyun Kim, MD
Haris Mirza, MD/PhD
Nabanita Mukherjee, PhD
Lei Qiang, PhD
Shivani Tripathi, MD
Etienne Wang
Ramon Whitson, PhD

Meeting Information & Policies

REPRODUCTION AND PHOTOGRAPHY POLICY

Any photography, filming, taping, recording or reproduction in any medium of any of the programs, exhibits, or lectures (oral or posters) presented at the 2016 SID Annual Meeting is strictly forbidden. Failure to comply with this rule may lead to the removal of your meeting credentials.

ON-SITE REGISTRATION

On-site registration will take place at the SID Registration Counter in the Hall of State during the following hours:

Wednesday, May 11, 2016	8:00 am – 6:30 pm
Thursday, May 12, 2016	7:30 am – 5:00 pm
Friday, May 13, 2016	7:30 am – 4:00 pm
Saturday, May 14, 2016	7:30 am – 12:00 pm

BADGES

Badges for both advanced and on-site registration can be picked up at the SID Registration Counter in the Hall of State. Meeting attendees are required to wear their badges at all times for entry to all sessions and other meeting activities.

SPECIAL SERVICES FOR THE PHYSICALLY CHALLENGED

The Westin Kierland Resort & Spa's facilities are fully accessible to the physically challenged.

If you have any special needs, please stop at the SID Registration Counter upon arrival or contact Rachel Ross at Rachel.Ross@westin.com by May 2, 2016.

TABLETOP EXHIBITORS

Stop by our "Coalition of Skin Diseases" tabletop exhibitors located outside of registration.

Basal Cell Carcinoma Nevus Syndrome
www.gorlinsyndrome.org

Cicatricial Alopecia Research Foundation
www.carfintl.org

Cutaneous Lymphoma Foundation
www.clfoundation.org

Dermatology Nurse Association
www.dnanurse.org

Foundation for Ichthyosis and Related Skin Types
www.firstskinfoundation.org

National Alopecia Areata Foundation
www.naaf.org

National Eczema Association
www.nationaleczema.org

National Foundation for Ectodermal Dysplasias
www.nfed.org

Pachyonychia Congenita Project
www.pachyonychia.org

The Sturge-Weber Foundation
www.sturge-weber.org

PLACEMENT SERVICES

The SID is pleased to offer a placement service to its members. A year-round placement/career postings page is available to members on the SID website at www.sidnet.org. In addition, prospective employers and candidates may conduct interviews or post additional announcements at the Meeting. A poster board will be available in the registration area for such postings.

TECHNICAL EXHIBITS

Exhibits will be on display during the following times in the Herberger Ballroom:

Thursday, May 12, 2016	10:00 am – 12:00 pm
Saturday, May 14, 2016	10:00 am – 12:00 pm

THE SID WELCOMES REPRESENTATIVES FROM THE FOLLOWING ORGANIZATIONS

Castle Biosciences, Inc.
Cytoo
Elsevier
Mattek
Modulated Imaging
Niams
Zen Bio, Inc

COMMERICAL SUPPORT AS OF (APRIL 11, 2016)

AbbVie
Actelion
Anacor
Eli Lilly

2016 ANNUAL MEETING SURVEY

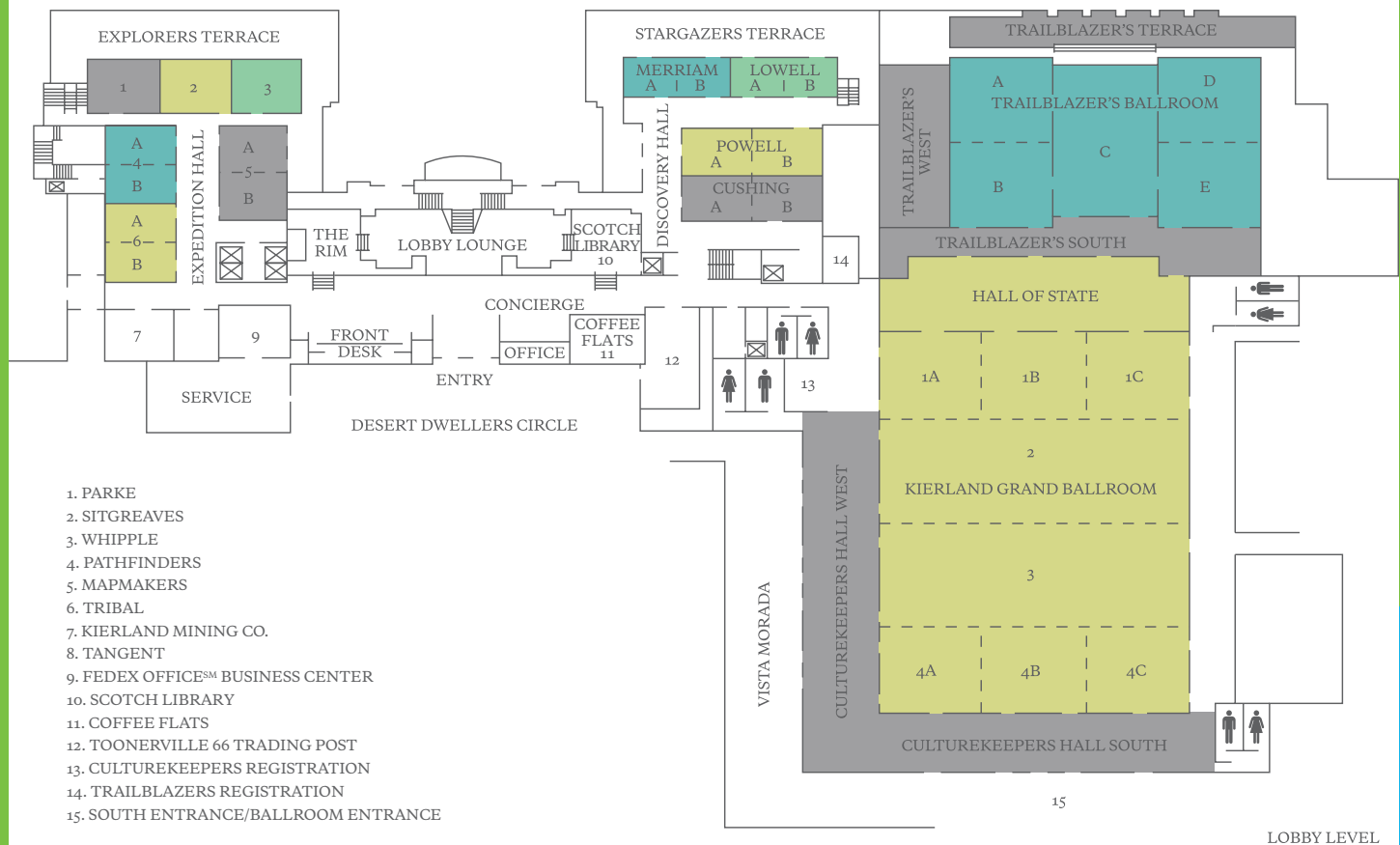
Complete the Meeting Survey and be eligible for a chance to win a gift card to Coffee Flats & Snowbolls at The Westin Kierland Resort & Spa.



<https://www.surveymonkey.com/r/JDG2XG5>

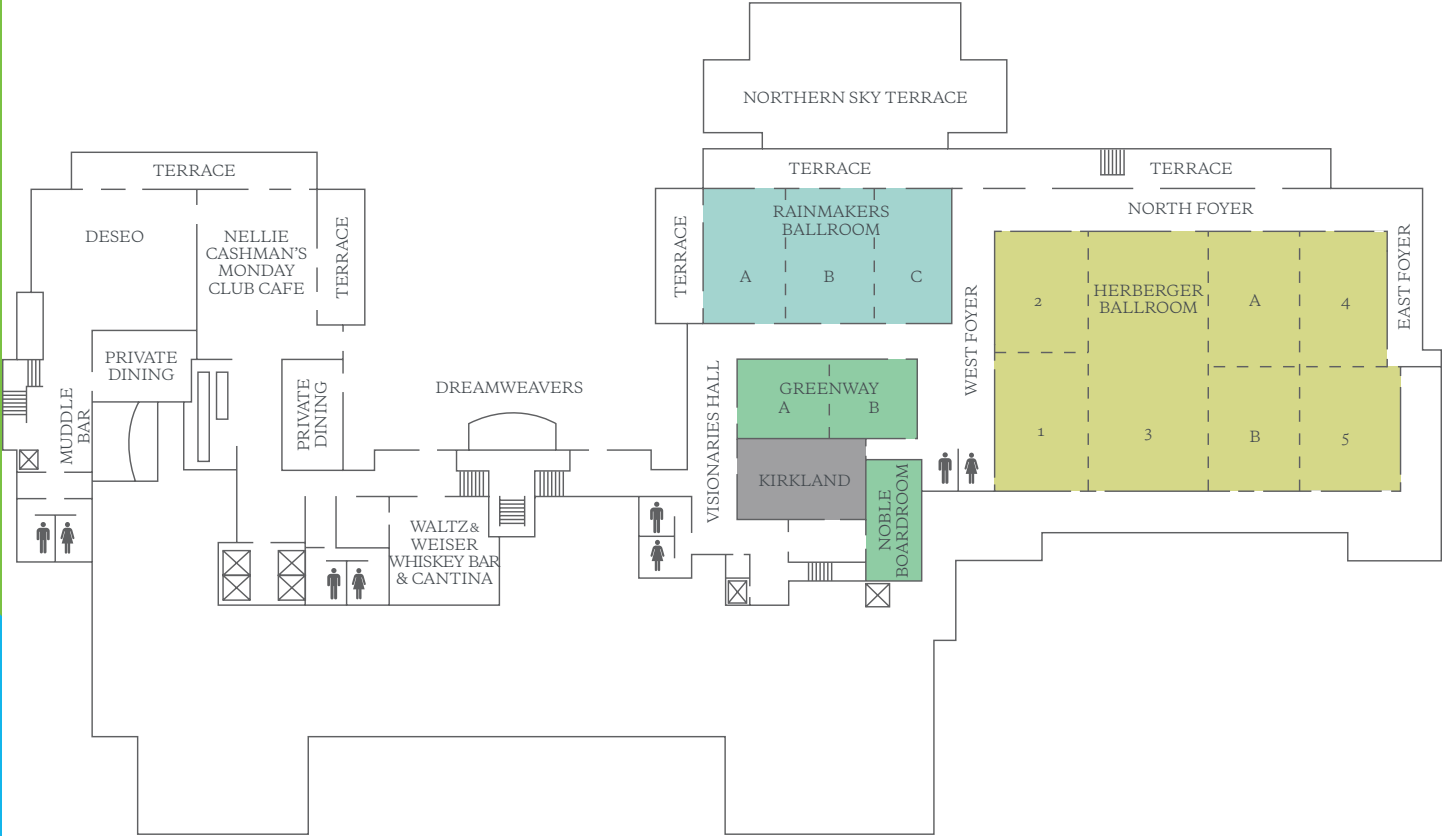
Hotel Map

Lobby Floor



Area Map

Lower Floor



LOWER LEVEL

Abstract Presentation Information

ORAL PRESENTATIONS

All oral presentations and lectures will take place at the Westin Kierland Resort & Spa. Minisymposium and Plenary oral presentations are scheduled at the rate of five (5) per hour. This allows ten (10) minutes for presentation and two (2) minutes for discussion. In order to coordinate sessions, the time limit will be strictly adhered to, or you will be asked to terminate your presentation by the session moderators.

LCD projectors will be available in each lecture room. There will be resources to display only with IBM-compatible PowerPoint MS Office 2015 or earlier versions. 35mm projectors will not be available. Computer technicians will be able to download ZIP and CD files. All oral presentations must also be presented as posters.

All presentations must be uploaded at least six (6) hours prior to your presentation and uploads are to be completed in the Speaker Ready Room (Cushing). Technical support will be available inside the Speaker Ready Room.

CONFLICT OF INTEREST

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

SPEAKER READY ROOM WILL BE HELD IN "CUSHING" ON THE LOBBY LEVEL

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

Wednesday, May 11, 2016	7:00 am – 8:00 pm
Thursday, May 12, 2016	7:00 am – 5:00 pm
Friday, May 13, 2016	7:00 am – 5:00 pm
Saturday, May 14, 2016	7:00 am – 2:00 pm

TO VIEW ALL ABSTRACTS PLEASE DOWNLOAD THE MEETING APP (SEE PAGE 6 FOR INSTRUCTIONS) OR SEE THE MAY 2016 SUPPLEMENT TO THE JOURNAL FOR INVESTIGATIVE DERMATOLOGY (JID)

POSTER PRESENTATIONS

All posters will be displayed in the Herberger Exhibit Hall. Posters will be viewed in two sessions as outlined below. Presenters should be at their posters for the entire discussion session. Posters may not be removed early. The SID is not responsible for posters left unclaimed as of 2:00 pm on Saturday, May 14, and unclaimed posters will not be returned.

POSTER SESSION I

Odd Poster #'s 001 – 755
LB #'s 757 – 825

SETUP:

Wednesday, May 11, 2016
8:00 am - 5:00 pm

SESSION VIEWING:

Thursday, May 12, 2016
10:15 am - 12:15 pm

DISMANTLE POSTERS:

Thursday, May 12, 2016
12:30 pm - 5:00 pm

POSTER SESSION II

Even Poster #'s 002 – 754
LB #'s 756 – 824

SETUP:

Thursday, May 12, 2016
5:00 pm – 9:00 pm

Friday, May 13, 2016
8:00 am – 5:00 pm

SESSION VIEWING:

Saturday, May 14, 2016
10:00 am – 12:00 pm

DISMANTLE POSTERS:

Saturday, May 14, 2016
12:15 pm – 2:00 pm



Wednesday Sessions

Page	Title
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19	International Pachyonychia Congenita Consortium 13th Annual Research Symposium (IPCC)
20-21	Translational Science Symposium
22	Cicatricial Alopecia Research Foundation (CARF) Research Symposium & Roundtable
23	Irvin H. Blank Forum
24	State-of-the-Art Plenary Lecture I & II
25	President's Welcome
25	Albert M. Kligman/Philip Frost Leadership Lecture
26	Dermatology Foundation Update



OPEN TO ALL MEETING ATTENDEES

Welcome Reception

Wednesday, May 11, 2016

7:00 pm – 8:30 pm

Marshall's Outpost Lawn/Pavilion, Westin Kierland

All attendees are invited to join us for a Welcome Reception to kick off the 2016 SID Annual Meeting! Gather with your colleagues on the Marshall's Outpost Lawn/Pavilion immediately following the last session of the day, for cocktails and light snacks.

This event is free of charge, beverage tokens can be found in your name badge envelope which was distributed in your meeting registration packets.





Meeting-At-A-Glance

WEDNESDAY, MAY 11, 2016

International Pachyonychia Congenita Consortium 13th Annual Research Symposium (IPCC) Breakfast	7:00 am – 8:30 am Pathfinders
International Pachyonychia Congenita Consortium 13th Annual Research Symposium	8:45 am – 12:30 pm Tribal
Resident Retreat By Invitation Only	7:30 am – 12:00 pm Trailblazers A & B
PhD Retreat By Invitation Only	
Trailblazers A & B	7:30 am – 9:00 am
Trailblazers D & E	9:00 am – 10:00 am
Trailblazers A & B	10:15 am – 12:00 pm
SID Board of Directors Meeting	8:00 am – 2:00 pm Trailblazers C
Registration	8:00 am – 6:30 pm Hall of State
Translational Science Symposium <i>Connective Tissue Disease</i>	12:00 pm – 3:00 pm Kierland Ballroom
Cicatricial Alopecia Research Foundation (CARF) Research Symposium & Roundtable	1:00 pm – 7:30 pm Rainmakers
Irvin H. Blank Forum <i>Fibroblast Biology</i>	3:00 pm – 5:00 pm Kierland Ballroom
State-of-the-Art Plenary Lecture I <i>Hair Follicles as Regulators of Immune Homeostasis</i> Keisuke Nagao, MD/PhD	5:00 pm – 5:30 pm Kierland Ballroom
State-of-the-Art Plenary Lecture II <i>Mesenchymal Control of Hair Follicle Formation, Growth, and Regeneration</i> Michael Rendl, MD	5:30 pm – 6:00 pm Kierland Ballroom
President's Welcome Mark C. Udey, MD/PhD	6:00 pm – 6:15 pm Kierland Ballroom
Kligman/Frost Leadership Lecture <i>Evo-Devo of the Skin: A Bird's Eye View</i> Cheng-Ming Chuong, MD/PhD	6:15 pm – 6:45 pm Kierland Ballroom
Dermatology Foundation Update	6:45 pm – 7:00 pm Kierland Ballroom
Welcome Reception	7:00 pm – 8:30 pm Marshall's Outpost Lawn/Pavilion

ASSOCIATE GROUPS ARE LISTED IN BLUE.

International Pachyonychia Congenita Consortium 13th Annual Research Symposium



Wednesday, May 11, 2016

7:00 am – 8:30 am
8:45 am – 12:30 pm

Breakfast
Symposium

Pathfinders
Tribal

8:45 am	Welcome Session Chair: Eli Sprecher
9:00 am	Peter Hein <i>Translational science and strategy: Grünenthal innovation</i>
9:35 am	Ruth Defrin <i>Initial report on PC pain study and clinical exam findings</i>
10:00 am	Alain Hovnanian <i>Topical sirolimus for Olmsted Syndrome</i>
10:25 am	BREAK
10:45 am	Edel O'Toole <i>Proposed clinical trials for PC</i>
11:10 am	Ofir Artzi <i>Proposed clinical trial using botulinum toxin for PC and Laser assisted drug delivery</i>
11:35 am	Albert Bravo, C. David Hansen, Frances J.D. Smith <i>Nail removal as a PC treatment</i>
12:10 pm	International Pachyonychia Congenita Research Registry (IPCCR) <i>Ready! Set! Go!</i>



TRANSLATIONAL SCIENCE SYMPOSIUM

Connective Tissue Disease

Wednesday, May 11, 2016

12:00 pm – 3:00 pm

Kierland Ballroom

12:00 pm

**INTRODUCTION****Maryam Asgari, MD/MPH**

Dr. Asgari, MD/MPH is a board-certified dermatologist, epidemiologist, and Mohs Micrographic surgeon. Her area of expertise is Mohs Surgery with a special focus on cosmetically sensitive areas. As a dermatoepidemiologist, she works to improve outcomes related to skin cancer with a special focus on skin cancer prevention. Dr. Asgari received President Obama's Award for Volunteerism for her work to improve healthcare, especially to patient populations in underserved areas.

12:10 pm

**Gideon P. Smith, MD/PhD*****Adenosine Signaling in Mouse Models and the Potential for Scleroderma Therapeutics***

Dr. Smith is the Director of the Connective Tissue Diseases clinic, an interdisciplinary clinic of the Departments of Rheumatology and Dermatology at Massachusetts General Hospital, and teaches at Harvard Medical School. He received his BS, with Honors, in Physics from Imperial College, University of London, and his PhD at Leeds University. He completed his medical training (MD) at Cornell Medical College. Dr. Smith completed his residency training in dermatology at New York University where he was the Sulzberger Fellow specializing in connective tissue diseases and, in particular, scleroderma.

12:35 pm

**Michael Rosenblum, MD/PhD*****The Role of Regulatory T cells in Suppressing Skin Fibrosis***

Dr. Rosenblum is a formally trained basic immunologist and a board-certified dermatologist. He completed his residency in Dermatology at UCSF followed by a 3-year post-doctoral research fellowship in the laboratory of Dr. Abul Abbas at UCSF. He is currently an Assistant Professor in the UCSF Department of Dermatology. The central focus of his laboratory is to understand the fundamental mechanisms of how immune responses are regulated in peripheral tissues, and how this knowledge can be exploited for therapeutic benefit. Because of its complex immunological properties, its accessibility, and potential for clinical translation, the skin is the model peripheral tissue that he currently studies.

1:00 pm

**John Varga, MD*****Adipocytes and Adipokines in Cutaneous Fibrosis: Novel Targets***

John Varga, MD, is the John and Nancy Hughes Professor at Northwestern University in Chicago. Born in Budapest, Hungary, he completed undergraduate studies at Columbia University and his medical studies at New York University. In 2004, he joined the faculty of the Feinberg School of Medicine, where he founded and directs the Northwestern Scleroderma Program. His interests focus on the pathogenesis of fibrosis, combining basic and clinical research. He is currently the Chair of the Medical and Scientific Advisory Board of the Scleroderma Foundation.

1:25 pm

**Heidi Jacobe, MD*****Update from the Morphea in Adults and Children (MAC) Cohort***

Dr. Jacobe earned her medical degree from the Baylor College of Medicine. She joined the University of Texas Southwestern Medical School in 2002 as a faculty member in the Department of Dermatology after completing her residency there. She is currently Associate Professor, Associate Residency Director, and holds the James N. Gilliam, MD, Chair in Dermatology. She graduated from the UT Southwestern Medical Center Clinical Research Scholars program in May 2008 with a Masters of Clinical Science with Distinction. Since then, she has focused the majority of her clinical and research efforts to localized scleroderma or morphea.

Continued on next page.



TRANSLATIONAL SCIENCE SYMPOSIUM (continued)

Connective Tissue Disease

Wednesday, May 11, 2016

12:00 pm – 3:00 pm

Kierland Ballroom

1:50 pm

**Argyrios Theofilopoulos, MD*****Endosomal TLRs and Transporters in the Pathogenesis of Systemic Autoimmunity***

Dr. Theofilopoulos received his medical degree from the University of Athens, where he also completed his internship and residency in internal medicine. He then came to the Southwestern Medical School in Dallas as a postdoctoral fellow in Rheumatology under Professor Morris Ziff. In 1972, he moved to The Scripps Research Institute in La Jolla, CA. In 1983, he was promoted to Professor, and is currently Vice-Chairman of that Department. His current work focuses on the definition of the pathogenic role of Toll-like receptors and of the pleiotropic type 1 and type 2 interferons. His group has shown that engagement of endosomal TLRs by self-nucleic acids is central to disease pathogenesis. Findings in these areas are likely to elucidate disease pathogenesis and lead to the development of novel therapeutics.

2:15 pm

**Victoria Werth, MD*****New Developments in Clinical and Translational Studies in Lupus***

Dr. Werth is a Professor of Dermatology and Medicine at the University of Pennsylvania School of Medicine, and past-president of the Rheumatologic Dermatology Society. Currently, she is leading a multicenter collaborative, web-based database to collect prospective information on patients with skin and systemic manifestations of lupus erythematosus. She leads several ongoing clinical studies investigating novel therapeutics for both cutaneous lupus erythematosus and dermatomyositis. Her laboratory studies include studies of potential biomarkers in cutaneous lupus, pathogenesis of cutaneous lupus, and ultraviolet light effects on skin. Recent clinical studies have examined mechanistic effects of therapeutics in CLE, as well as subset-specific expression of interferon signatures.

2:35 pm

**Robert Carter, MD*****Future Directions in Autoimmune Disease Research***

Robert H. Carter, MD, is Deputy Director of the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS). Dr. Carter received his bachelor's degree in Biology from Williams College in Williamstown, Mass. He received his medical degree from Harvard Medical School. Dr. Carter has an established record of exemplary career achievements in the fields of rheumatology and immunology. His research contributed to the understanding of molecular regulation of B lymphocyte activation and to the identification of targets for therapeutic control of autoantibody production. His work focused on signal transduction by the B cell surface molecule CD19, target identification in human lupus, and the study of B cells in the immune response of healthy individuals.



Cicatricial Alopecia Research Foundation Research Symposium & Roundtable



C . A . R . F .

Wednesday, May 11, 2016

1:00 pm – 7:30 pm

Rainmakers

- 1:00 pm** **John Sundberg: Welcome, Introduction**
10 minutes for presentation + 5 minutes for Q&A and change of speaker
- 1:15 pm** **Wilma Bergfeld:** What are cicatricial alopecias? Types and how to tell them apart. This overview will define the clinical and diagnostic criteria for the various types of cicatricial alopecias.
- 1:30 pm** **Yolanda M. Lenzy:** The prevalence of centrifugal cicatricial alopecia (CCCA) among a cohort of African American women. Analysis of CCCA in the Black Women's Health Study (1995- to date). CARF Research Grant recipient.
- 1:45 pm** **Amy McMichael:** CCCA Severity and Treatment Response.
- 2:00 pm** **Maria Hordinsky:** Setting up a registry on cicatricial alopecias: lessons learned from the alopecia areata model. Can this be integrated into existing studies such as those above? How will biological samples be coordinated to deliver to basic scientists?
- 2:15 pm** **Angela Christiano:** Alopecia areata as a research model for cicatricial alopecias. Are some forms of cicatricial alopecia autoimmune based disease? Can systematic basic research approaches used to define the pathophysiology of alopecia areata be applied to cicatricial alopecias?
- 2:30 pm** **Coffee Break**
- 3:00 pm** **Keynote Speaker, Tracy McGregor:** Harnessing modern sequencing technologies and biobanks to find candidate genes for understanding the molecular pathways underlying cicatricial alopecias. Numerous software packages are now available to display and expand known molecular pathways. Using mouse models for cicatricial alopecia due to a series of single gene mutations one can then search human biobanks for patients to obtain DNA for sequencing or search for specific genetic polymorphisms in known genes from the mouse studies for SNPs that potentially cause changes in the proteins.
- 3:45 pm** **Kurt Stenn:** The role of the sebaceous gland in the pathogenesis of cicatricial alopecias. Mouse and dog models suggest that the sebaceous gland may be the primary anatomical target for a number of the cicatricial alopecias. Inflammation in and around human sebaceous glands have subsequently become an early diagnostic feature of cicatricial alopecias. What does this suggest as target sites for investigation?
- 4:00 pm** **Raja Sivamani:** Sebaceous gland transcriptome for lichen planopilaris. CARF Research Grant recipient.
- 4:15 pm** **C. Herbert Pratt:** The mouse hairpatches mutation (Hpt), a new model for cicatricial alopecia and skin surface lipid profile variations in mouse models for cicatricial alopecia associated with specific genetic mutations. CARF Research Grant recipient.
- 4:30 pm** **Panel discussion on major topics**
Moderators: John P. Sundberg, Maria Hordinsky, and Lloyd E. King, Jr.
 - What are the underlying pathobiological principles that underlie all types of primary cicatricial alopecia (PCA) in mice and man?
 - Can one dissect distinct general pathobiological families in human PCA that integrate clinical and histopathological phenomenology with recent molecular/cellular pathology insights - beyond the customary and purely descriptive "lymphocytic", "neutrophilic" and "mixed" patterns? Which ones are likely to be autoimmune diseases, which ones are not? Where does EMT play a major role? Are immune privilege collapse, pathogens, and/or uncontrolled innate immune signaling, and epigenetic components likely to be very important?
 - Is there any mouse model available that truly mimics one of the more common PCAs (LPP, FFA, CDLE, folliculitis decalvans)? If not, which criteria exactly should such a mouse model meet in order to be convincing (i.e. clinically relevant)?
 - Which are the important open, therapeutically relevant research questions on the pathobiology of the major (re-defined) groups of PCAs?
 - What exactly needs to be done by CARF, and in which order of priority, to help answer these questions?
 - How can we effectively attract bright young investigators (from outside of dermatology) to work these topics?
- 5:30 pm** **Closed Session:** The CARF Scientific Advisors and interested members of the CARF Board of Directors are encouraged to remain for a working dinner to set priorities for future clinical and research initiatives.

Visit www.carfintl.org for more information about CARF

IRVIN H. BLANK FORUM

Fibroblast Biology

Wednesday, May 11, 2016

3:00 pm – 5:00 pm

Kierland Ballroom

3:00 pm

INTRODUCTION**Valerie Horsley, PhD**

Dr. Horsley is Maxine F. Singer '57 Associate Professor in the Department of Molecular, Cellular and Developmental and Associate Professor in the Dermatology Department at Yale University. She is internationally recognized as a leading researcher in skin biology. Her research group has made seminal discoveries on the roles of adipocytes and hormones in the regeneration of the skin and its appendages. Dr. Horsley serves as an Editorial Board member for Experimental Dermatology, and has received several awards in recognition of her research contributions including a Presidential Early Career Award for Scientists and Engineers (PECASE) for her research on adipocytes in the skin.

3:10 pm

Fiona Watt, PhD***Understanding How Epidermal Stem Cells Communicate with their Neighbors***

Fiona Watt obtained her first degree from Cambridge University and her DPhil, in cell biology, from the University of Oxford. She was a postdoc at MIT, where she first began studying differentiation and tissue organization in mammalian epidermis. She established her first research group at the Kennedy Institute for Rheumatology and then spent 20 years at the CRUK London Research Institute. She helped to establish the CRUK Cambridge Research Institute and the Wellcome Trust Centre for Stem Cell Research and in 2012 she moved to King's College London to found the Centre for Stem Cells and Regenerative Medicine. Fiona Watt is a Fellow of the Royal Society and a Fellow of the Academy of Medical Sciences. She is internationally recognized for her work on stem cells and their interactions with the niche in healthy and diseased skin.

3:35 pm

George Cotsarelis, MD***Cutaneous Fat Regeneration***

Dr. Cotsarelis received his BA and MD from the University of Pennsylvania, and did his dermatology residency at Penn. After a Dermatology Foundation Research award and a Howard Hughes Medical Institute Postdoctoral Research Fellowship for Physicians, he joined the faculty at Penn as an Assistant Professor of Dermatology in 1996. He was promoted to full professor in 2009, and achieved his current position as Milton B. Hartzell Professor of Dermatology and Chairman of the Department in 2010. Through his research on epithelial stem cells, Dr. Cotsarelis impacted dermatology. He launched the hair follicle stem cell field and his work resulted in understanding the pathogenesis of alopecias. He showed that stem cells are destroyed in scarring alopecia, but are still retained in male pattern baldness.

3:55 pm

David Woodley, MD***Lack of Type VII Collagen Promotes Skin Fibrosis and Scarring***

Dr. Woodley completed his undergraduate degree in English Literature at Washington University in St. Louis and his medical school education at the University of Missouri in Columbia, Missouri. He completed his dermatology residency training at the University of North Carolina in Chapel Hill, North Carolina. He left Chapel Hill in 1989 to be Professor and Associate Chair of the Department of Dermatology at Stanford University. In 1992, he was appointed the Walter Hamlin Professor and Chair of Dermatology at Northwestern University. In 1999, he joined the medical faculty at the Keck School of Medicine of the University of Southern California (USC) and in 2004, he assumed his current position as the Founding Chair of the USC Department of Dermatology. He is the author of over 200 original articles and is a clinician-investigator with continuous NIH funding since 1982.

4:15 pm

Jeff Biernaskie, PhD***Characterizing Dermal Stem Cell Function in Adult Skin and Factors that Influence their Behavior***

Jeff Biernaskie completed his BSc in Neuroscience at the University of Lethbridge, his PhD in Neuroscience at Memorial University and completed postdoctoral training at the Hospital for Sick Children. He is now an Assistant Professor in Stem Cell Biology and Regenerative Medicine at the University of Calgary. He is a member of the Alberta Children's Hospital Research Institute and holds the Calgary Firefighters Burn Treatment Society Chair in Skin Regeneration and Wound Healing. Dr. Biernaskie's lab is interested in understanding how specialized niche cells modulate stem cell behavior and how these cellular interactions ultimately influence tissue homeostasis and regeneration. His lab is particularly interested in understanding the diverse functions of dermal/mesenchymal cells within the skin and adult hair follicle with the ultimate goal of exploiting these cells to improve tissue regeneration following injury.

4:35 pm

Michael T. Longaker, MD/MBA/FACS***Minimizing Scarring During Wound Repair***

Michael T. Longaker earned his undergraduate degree at Michigan State University, and his medical degree at Harvard Medical School. He completed his surgical residency at the University of California, San Francisco, a residency in Plastic Surgery at NYU and a craniofacial fellowship at UCLA. Dr. Longaker joined the Stanford University School of Medicine on September 1, 2000, as Director of Children's Surgical Research in the Department of Surgery, Division of Plastic and Reconstructive Surgery and the Lucile Salter Packard Children's Hospital. In 2003, he was named the Deane P. and Louise Mitchell Professor. Michael Longaker's extensive research experience includes the cellular and molecular biology of extracellular matrix with specific applications to the differences between fetal and post-natal wound healing, the biology of keloids and hypertrophic scars and the cellular and molecular events that surround distraction osteogenesis with respect to craniofacial development. To date, he has over 1180 publications and numerous federal grants to support his research.

4:55 pm

WRAP-UP**Valerie Horsley, PhD**

STATE-OF-THE-ART PLENARY LECTURES

LECTURE I

Hair Follicles as Regulators of Immune Homeostasis

Wednesday, May 11, 2016

5:00 pm – 5:30 pm

Kierland Ballroom

Introduction by:

Daniel Kaplan, MD/PhD



Keisuke Nagao, MD/PhD

Center for Cancer Research
National Cancer Institute
National Institute of Health
Bethesda, MD

Dr. Nagao has an interest in the mechanisms that regulate immune homeostasis in skin. He has shown through a series of studies that Langerhans cells take up bacterial antigens/toxins that have not yet breached the epidermis, and elicit humoral responses that preemptively protect mice from developing toxin associated conditions. Dr. Nagao has identified that stress-induced production of chemokines by hair follicles regulate skin dendritic cell trafficking, demonstrating hair follicles as immunoregulatory structures. This interesting finding will be extended in the context of other leukocytes in clinically relevant models, including lymphoma and alopecia areata. Dr. Nagao has also developed a mouse model for eczematous dermatitis, with which mechanisms of dysbiosis-driven inflammation will be explored.

LECTURE II

Mesenchymal Control of Hair Follicle Formation, Growth, and Regeneration

Wednesday, May 11, 2016

5:30 pm – 6:00 pm

Kierland Ballroom

Introduction by:

Ethan Lerner, MD/PhD



Michael Rendl, MD

Icahn School of Medicine at Mt. Sinai
New York, NY

The Rendl Laboratory studies the formation and function of stem cell niches. Specifically, they utilize genetic mouse models for embryonic hair follicle formation and for adult hair growth and regeneration to uncover how specialized Dermal Papilla (DP) cells act as instructive niche cells for hair follicle stem cells. A major focus is also to define how DP cells acquire the hair-inducing cell fate in the first place that sets them apart from regular skin fibroblasts. Insights from these studies will reveal general mechanisms on how stem cell niches function and provide a platform for developing hair regenerative therapies.



PRESIDENT'S WELCOME

Mark C. Udey, MD/PhD

Wednesday, May 11, 2016

6:00 pm – 6:15 pm

Kierland Ballroom

ALBERT M. KLIGMAN / PHILLIP FROST LEADERSHIP LECTURE

Evo-Devo of the Skin: A Bird's Eye View

Wednesday, May 11, 2016

6:15 pm – 6:45 pm

Kierland Ballroom

Introduction by:

Mark C. Udey, MD/PhD



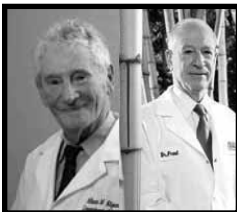
Cheng-Ming Chuong, MD/PhD

University Southern California
Los Angeles, California

Dr. Cheng-Ming Chuong received his MD from Taiwan University in 1978. He then obtained his PhD from The Rockefeller University in 1983. Later he moved to the University of Southern California in 1987 and worked on the development and regeneration of feather, tooth, and hairs. He is currently a professor of pathology and also serves as the Chair of Graduate Committee in the Department of Pathology. Dr. Chuong directs the Laboratory of Tissue Development and Engineering in the Department of Pathology, USC. The laboratory is mainly supported by the National Institute of Health and studies how stem cells are guided to form special tissues and organs of specific size and shape. Dr. Chuong has received many honors including the award for creativity in research by USC. In 2008, he was elected to the prestigious Academia Sinica, the National Academy equivalent of Taiwan. In 2014, he was elected as a fellow of the American Association for the Advancement of Science for "Distinguished contribution to advance new understanding in the development, regeneration and evolution of patterns in ectodermal organs". His work on Evo-Devo of feathers contributes to new understanding in the "The Birth of Birds" which was chosen by Science as one of the 10 major breakthroughs in 2014. Using the ectoderm as a model, his laboratory learned from nature how to mold stem cells into different ectodermal organs during development, evolution and stem cell engineering. He has promoted the concept of "topobiology" which is crucial for guiding epidermal stem cells into proper architectures. He demonstrated how the process can guide stem cells to the multiple forms of ectodermal organs. Dr. Chuong has published more than 210 papers on the biology of integuments in top journals, including multiple research papers and commentaries in Nature, Science, CELL. He published two books (Molecular Basis of Epithelial Appendage Morphogenesis; Fossil Birds of China) and two journal special issues (Development and Evolution of Amniote Integuments; Pattern Formation). He is an associate editor of J. Investigative Dermatology, Expt. Dermatology and on the editorial board of Developmental Biology, Genesis, J. Expt. Zoology. He wrote chapters for textbooks on stem cell biology and regenerative medicine in English and in Chinese. He is frequently interviewed by the media for his work in stem cell biology and evolution and development of feathers and other integument organs. Interviews have appeared in LA times, BBC, Scientific American, Smithsonian magazine, NPR, Science Daily News, Business week, Chinese Daily news, Fox news, etc. In Taiwan, he works as honorary director for Center for Developmental Biology and Regenerative Medicine of National Taiwan University, Integrative Stem Cell Center of China Medical University, International laboratory of Wound Repair and Regeneration of National Cheng Kung University (iWRR), and Integrative Evolutionary Galliform Genomics (IEGG) Center of National Chung Hsing University.

LECTURESHIP HISTORY

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



Dermatology Foundation



Wednesday, May 11, 2016

6:45 pm - 7:00 pm

Kierland Ballroom

Our Eyes Remain on the Future

The Dermatology Foundation is a major force in the development of the academic and scientific base of the specialty.

For over five decades the DF has identified and launched the careers of promising new teachers and researchers in all aspects of the specialty, enabling advancements in patient care.

Today, the DF remains fully committed to the future of dermatology by providing early career research funding to those who have the potential to make major contributions to the specialty.

A Challenging Time for New Investigators

It has never been more difficult to pursue an investigative career in dermatology. The downward trend in inflation-adjusted federal research grants and increasingly stiff competition are severe threats to continued progress in dermatology. New investigators are finding it tremendously discouraging to begin careers in the specialty, making the need for DF support urgent.

The Dermatology Foundation plays a crucial role in supporting and retaining emerging thought leaders. The DF's early career research awards enable today's newest generation of investigators to gain the experience and data needed to compete successfully for NIH grants.

Since 1967, the DF has provided about \$70 million in research support to over 1,000 individuals, including almost 350 career development awardees. This year the Foundation was proud to fund \$2.6 million in research awards for 51 promising individuals.

For every \$1 in DF career development award funding, at least \$10 have been obtained in NIH grants. About 80% of all career development awardees have remained in academics.

Individual Support is Essential

The need for DF research funding is critical and ongoing. Individual member support has always been at the center of the Foundation's ability to support tomorrow's new teachers and researchers. To become a member or increase your support, visit dermatologyfoundation.org. Every contribution is meaningful and effective.

1560 Sherman Avenue Suite 500 Evanston, IL 60201-4808
847.328.2256 Voice
dfgen@dermatologyfoundation.org



NOTES

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Thursday Sessions

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36	International Transplant Skin Cancer Collaborative (ITSCC)
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38	International Society for Cutaneous Lymphomas/ Cutaneous T-Cell Lymphoma (ISCL/CCL) Symposium
39	American Acne and Rosacea Society (AARS)
40	Concurrent Mini-Symposium 1: Adaptive Immunity and Vaccination
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42	Concurrent Mini-Symposium 3: Clinical Research I: Epidemiology and Patient Outcomes Research
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44	Concurrent Mini-Symposium 5: Epidermal Structure and Barrier Function

TICKETED EVENT: PRE-REGISTRATION REQUIRED

Social Event

Thursday, May 12, 2016

6:00 pm – 10:00 pm

The Musical Instrument Museum

Join us on Thursday, May 12, 2016 from 6:00 pm – 10:00 pm and experience the power of music at the Social Event taking place at the Musical Instrument Museum (MIM). The MIM displays more than 6,000 instruments collected from around 200 of the world's countries and territories. Most displays are enhanced by state-of-the-art audio and video technologies that allow guests to see the instruments, hear their sounds, and observe them being played in their original contexts—performances that are often as spectacular as the instruments themselves. Come see for yourself!

The SID is pleased to announce that the Social Event will take place throughout the venue.

TICKETED EVENT: PRE-REGISTRATION REQUIRED

- Tickets may be purchased for \$75 pp at the SID registration desk in the Hall of State at the Westin Kierland Resort. (Depending on availability)
- Tickets/Wristbands are required to enter the Museum, please ensure you have them in advance of boarding the bus or entering the Museum.

5:30 pm – Transportation to the Musical Instrument Museum begins from the Westin.

8:00 pm – Return shuttle service from the Museum to the hotel begins.





Meeting-At-A-Glance

THURSDAY, MAY 12, 2016

Pediatric Dermatology Research Alliance Society for Pediatric Dermatology Session	7:00 am – 8:00 am Trailblazers A & B
Registration	7:30 am – 4:00 pm Hall of State
Plenary Session I	8:00 am – 9:00 am Kierland Ballroom
Eugene M. Farber Lecture <i>Modelling Mayhem-What Transgenic Mice Can Teach us about Psoriasis Pathogenesis</i> Nicole Ward, PhD	9:00 am – 9:30 am Kierland Ballroom
Naomi M. Kanof Lecture <i>Progress in Immune-Mediated Control of Malignant Disease</i> Roger Perlmutter, MD/PhD	9:30 am – 10:00 am Kierland Ballroom
Come See My Poster I Poster #'s 677, 713, 589, 255, 365, 485, 075, 483, 343, 471, 625, 741, 037	10:00 am – 10:15 am Kierland Ballroom
Clinical Scholars Program Session I <i>Tissue Regeneration & Wound Healing</i>	10:15 am – 12:00 pm Kierland Ballroom
Poster Session I/Coffee Break Odd Poster #'s 001-755 / LB #'s 757-825	10:15 am – 12:15 pm Herberger Ballroom
Satellite Symposium Academic-Industry Partnership Project (AIPP) Panel Discussion <i>Preparing for Interactions with Industry</i>	12:00 pm – 1:45 pm Kierland 4
International Transplant Skin Cancer Collaborative (ITSCC) Inaugural Transplant Dermatology Symposium	12:00 pm – 1:30 pm Trailblazers A & B
International Eczema Council	12:00 pm – 1:30 pm Trailblazers D & E
International Society for Cutaneous Lymphomas Cutaneous T-Cell Lymphoma Symposium (ISCL/CTCL)	12:00 pm – 1:30 pm Trailblazers C
American Acne and Rosacea Society (AARS) 5th Annual Scientific Symposium	12:00 pm – 1:30 pm Rainmakers
Concurrent Mini-Symposia 1. Adaptive Immunity and Vaccination 2. Carcinogenesis/Cancer Genetics 3. Clinical Research I: Epidemiology and Patient Outcomes Research 4. Photobiology 5. Epidermal Structure & Barrier Function	2:00 pm – 4:30 pm Trailblazers A & B Trailblazers D & E Kierland 1, 2, 3 Trailblazers C Kierland 4
Mini-Symposia Mixers	4:30 pm – 5:00 pm Individual Concurrent Meeting Rooms
Social Event The Musical Instrument Museum Ticketed Event: Pre-Registration Required Buses load from the Westin Kierland beginning at 5:30 pm. Buses will begin shuttling guests back to the hotel beginning at 8:00 pm.	6:00 pm – 10:00 pm

ASSOCIATE GROUPS ARE LISTED IN BLUE.

Pediatric Dermatology at the SID Meeting

Thursday, May 12, 2016

7:00 am – 8:00 am

Trailblazers A & B

Coffee will be served

7:00 am **Welcome/Overview I: Pediatric Dermatology at SID**
Megha Tollefson, Mayo Clinic

7:15 am **Special Presentation:**
Atopic Dermatitis - A failure of the microbial immunocyte
Richard Gallo, University of California, San Diego



7:40 am **Abstract #470**
The gut microbiome is required for the development of alopecia areata.
James Chen et al. Columbia University, New York

7:50 am **Discussion and Concluding Remarks**

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



EUGENE M. FARBER LECTURE***Modelling Mayhem-What Transgenic Mice Can Teach Us About Psoriasis Pathogenesis*****Thursday, May 12, 2016****9:00 am – 9:30 am****Kierland Ballroom**

Introduction by:

Ethan Lerner, MD/PhD

**Nicole Ward, PhD**Case Western Reserve University
Cleveland, OH

Nicole Ward, PhD, earned her Bachelors of Science degree in Biology/ Psychology at the University of Winnipeg followed by a Masters of Science in Neuroscience at McMaster University and a PhD in Anatomy & Neurobiology from Dalhousie University. She then completed a post-doctoral fellowship at the University of Toronto, Sunnybrook Research Institute focused on angiogenesis and molecular genetics and a visiting post-doctoral fellowship in Neuroscience at the University of Manitoba. Dr. Ward is an Associate Professor of Dermatology and Director of the Morphology Core of the Skin Diseases Research Center in the Department of Dermatology at Case Western Reserve University and University Hospitals Case Medical Center.

**LECTURESHIP HISTORY**

The Eugene M. Farber endowment was established by the family of Eugene M. Farber, MD, 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.



NAOMI M. KANOF LECTURE
*Progress in Immune-Mediated Control of
Malignant Disease*

Thursday, May 12, 2016

9:30 am – 10:00 am

Kierland Ballroom

Introduction by:

Angela Christiano, PhD



Roger Perlmutter, MD/PhD
Merck & Co., Inc.
Rahway, NJ

Roger M. Perlmutter, MD/PhD, is Executive Vice President and President of Merck Research Laboratories, Merck's global R&D organization. Before joining Merck, Dr. Perlmutter was Executive Vice President and head of R&D at Amgen. Before assuming leadership roles in industry, Dr. Perlmutter was a professor in the Departments of Immunology, Biochemistry and Medicine at the University of Washington, Seattle, and also served as chairman of its Department of Immunology, where he was a Howard Hughes Medical Institute investigator. Dr. Perlmutter graduated from Reed College in Portland, Oregon, and received his MD and PhD degrees from Washington University in St. Louis, Missouri. He pursued clinical training in internal medicine at Massachusetts General Hospital, Boston, and at the University of California, San Francisco. Dr. Perlmutter is a Fellow of the American Academy of Arts and Sciences and the American Association for the Advancement of Science.



LECTURESHIP HISTORY

Established in 1988, this award was established to honor the memory of Naomi Kanof, MD. The Naomi M. 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.



COME SEE MY POSTER I

President: Sam Hwang, MD/PhD

Thursday, May 12, 2016

10:00 am – 10:15 am

Kierland Ballroom

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

1. **Positive selection of Involucrin and Filaggrin-2 in the rapid evolution of the human EDC.** Zane Goodwin and Cristina de Guzman Strong. St. Louis, MO. 10:01 am, Poster #677
2. **Epidermal wound repair requires the calcium-sensing receptor (CaSR).** Chia-Ling Tu, Anna Celli and Daniel Bikle. San Francisco, CA. 10:02 am, Poster #713
3. **UVA-induced formation of singlet oxygen upregulates the long non-coding RNA GS1-600G8.5, which controls the induction of IL-8 expression.** Kazuyuki Yo and Thomas M. Ruegge. Providence, RI and Yokohama, Japan. 10:03 am, Poster #589
4. **5-fluorouracil decreases rates of persistent actinic keratoses.** Moniyya Sachar, Julia A. Siegel, Joanna L. Walker, Suephy C. Chen, Susan M. Swetter, Robert Dellavalle, George Stricklin and Martin A. Weinstock. Providence, RI; Atlanta, GA; Palo Alto, CA; Nashville, TN and Denver, CO. 10:04 am, Poster #255
5. **The genetics of chronic itch: Correlating itch severity to gene expression in the skin of atopic dermatitis and psoriasis patients.** Leigh A. Nattkemper, Rodrigo Valdes-Rodriguez, Helen G. Lee, Nicholas K. Mollanazar, Christian Albornoz and Gil Yosipovitch. Philadelphia, PA. 10:05 am, Poster #365
6. **Essential roles of TRAF6-mediated transcriptional activation of keratinocytes in imiquimod-induced psoriasis-like dermatitis.** Reiko Matsumoto, Teruki Dainichi, Kenji Sakurai, Takashi Nomura and Kenji Kabashima. Kyoto, Japan. 10:06 am, Poster #485
7. **Ephrin-A loss in cutaneous squamous cell carcinoma progression and metastasis.** Ji Zheng, Bethany Perez White, Nihal Kaplan, Aaron Petty, Zhe Zhao, Kord Honda, Mitchell Denning, Miroslav Blumenberg, Spiro Getsios and Bingcheng Wan. Chicago, IL; Cleveland, OH and New York, NY. 10:07 am, Poster #075
8. **MDM2 binds and ubiquitinates keratin 10 in VZV infection and is required for viral propagation and blister formation.** Cristina Tomassi, Daniel Depledge D, Rejoice Otto, Winnie Tan, Daniel Duddy, Judith Breuer and Ryan O'Shaughnessy. London, United Kingdom. 10:08 am, Poster #483
9. **Mitochondrial dysfunction activates the AMPK signaling and autophagy to promote cell survival.** Baozhong Zhao, Lei Qiang, Joy Joseph, Balaraman Kalyanaraman, Benoit Violette and Yu-Ying He. Chicago, IL; Paris, France and Milwaukee, WI. 10:09 am, Poster #343
10. **A requirement for slc15a4 in the establishment of psoriasiform inflammation.** Alexis Griffith, Asifa Zaidi, Matthew Hadiono, Rachel Davis and Daniel Popkin. Cleveland, OH. 10:10 am, Poster #471
11. **Loss of soluble adenylyl cyclase is a marker of invasive melanoma and facilitates melanomagenesis.** Jack Levy, Anthony Saviola, Ruth Halaban, Antonella Bacchiocchi, Cynthia Magro, Jad Saab, Taha Merghoub, Dalee Zhou and Jonathan H. Zippin. New York, NY and New Haven, CT. 10:11 am, Poster #625
12. **Identification of a specific subset of monocytes/macrophages that coordinates skin wound healing.** Brett Shook, Akiko Iwasaki, Valerie Horsley. New Haven, CT. 10:12 am, Poster #741
13. **Complement-independent blister formation in IgG4-dominant bullous pemphigoid.** Teruki Dainichi, Wataru Nishie, Yuna Yamagami, Hiroko Sonobe, Hideyuki Ujiiie, Yo Kaku and Kenji Kabashima. Kyoto, Japan and Sapporo, Japan. 10:13 am, Poster #037



CLINICAL SCHOLARS PROGRAM-SESSION I

Tissue Regeneration and Wound Healing

Thursday, May 12, 2016

10:15 am – 12:00 pm

Kierland Ballroom

10:15 am

**INTRODUCTION****Valerie Horsley, PhD**

Dr. Horsley is Maxine F. Singer '57 Associate Professor in the Department of Molecular, Cellular and Development and Associate Professor in the Dermatology Department at Yale University. She is internationally recognized as a leading researcher in skin biology. Her research group has made seminal discoveries on the roles of adipocytes and hormones in the regeneration of the skin and its appendages. Dr. Horsley serves as an Editorial Board member for Experimental Dermatology, and has received several awards in recognition of her research contributions including a Presidential Early Career Award for Scientists and Engineers (PECASE) for her research on adipocytes in the skin.

10:20 am

**Ardeshtir Bayat, MD/PhD**

Keloid disease: A challenging enigmatic disorder with unresolved links between exaggerated repair and quasi-neoplastic tendencies in the human skin

Dr. Ardeshtir Bayat, MD/PhD, is a clinician scientist and associate professor at the University of Manchester, England, whose work has focused on the subject of skin repair and regeneration. His main aim has been to make a major impact on human skin health through researching better outcomes for patients suffering either from delayed healing (chronic wounds) or cutaneous fibrosis (hypertrophic and keloid scars). Using cutting-edge experimental tools to gain a deeper insight into the molecular basis of skin repair and regeneration. Dr Bayat has utilized this knowledge to develop new tools to evaluate wound repair as well as enable targeted therapies for managing abnormal tissue repair. He has published extensively with more than 375 papers, scientific abstracts and book chapters and either delivered or supervised numerous scientific lectures by his team (in excess of 450 to date). He is a recognized international expert in cutaneous wound repair.

10:50 am

**Luis Garza, MD/PhD*****Skin as a model towards limb regeneration***

Dr. Garza is Associate Professor, Department of Dermatology at Johns Hopkins Medicine and Associate Editor of the Journal of Investigative Dermatology. His research goals are to investigate skin function during both health and disease in an effort to define new treatments for dermatology patients. His laboratory translates basic studies on in vitro and animal models to FDA IND approved clinical trials for interventional therapies to help skin disease. The current focus of the Garza lab is on regeneration and wound healing. He is a standing member of the NIH NIAMS AMS study section.

11:20 am

Q & A

11:25 am

Hyaluronan controls adipogenesis following skin injury

T. Dokoshi, L. Zhang, R.L. Gallo, C. Adase, T. Takahashi, J.A. Sanford, M.R. Williams, E. Sato, T. Nakatsuji. *Poster #739*. Presented by Tatsuya Dokoshi, PhD.

11:40 am

IL-27 facilitates skin wound healing through induction of epidermal proliferation and host defense

B. Yang, R. Sanchez Lagunes, T. Phillips, J. Suwanpradid, A. MacLeod. *Poster #738*. Presented by Amanda MacLeod, MD.

11:55 am

Q & A

SATELLITE SYMPOSIUM
ACADEMIC-INDUSTRY
PARTNERSHIP PROJECT (AIPP)
Preparing for Interactions with Industry

Thursday, May 12, 2016

12:00 pm – 1:45 pm

Kierland 4

12:00 pm

Welcome and Overview**Kevin Cooper, MD****Professor and Chair, Department of Dermatology,
Case Western Reserve University**

Dr. Kevin D. Cooper is the Professor and Chair of the Department of Dermatology at Case Western Reserve University (CWRU) and University Hospitals Case Medical Center (UHCMC) in Cleveland, Ohio. He directs the NIH NIAMS Skin Diseases Research Center at CWRU and the UHCMC Murdough Family Center for Psoriasis, and directed the first NIAMS Center of Research Translation focused on skin disease. He is co-inventor of the first biologic approved for psoriasis, has taken several lab-based projects into NIH-funded phase I clinical trials, and has participated in multiple industry-based pre-clinical and clinical translational therapeutic programs.

12:05 pm

Jean Tang, MD/PhD**Associate Professor, Department of Dermatology, Stanford University*****Using an Accelerant: Partnering with The Harrington Discovery Institute***

Dr. Tang's research focuses on the clinical development of novel therapeutics for Basal Cell Cancer. She has led or co-led the conduct and completion of 5 investigator initiated clinical trials that have been published in high impact journals, and filed multiple Investigational New Drug applications. She has extensive clinical research, regulatory experience, and expertise in dermatology.

12:20 pm

William Ju, MD**President, Advancing Innovation in Dermatology*****Sparking Curiosity: Preparing Your 'Elevator Pitch'***

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

12:35 pm

Neal Walker, DO**Founder and CEO, Aclaris Therapeutics, Inc.*****Meeting Your Match: Finding the Right Entrepreneur***

Dr. Walker is a board certified dermatologist and serial entrepreneur with over 18 years of experience in the pharmaceutical industry. He served as a consultant to a number of pharmaceutical companies, co-founded and served as President and Chief Executive Officer and a member of the board of directors of Vicept Therapeutics, a dermatology-focused specialty pharmaceutical company, from 2009 until its acquisition by Allergan. Previously, Dr. Walker co-founded and led a number of life science companies including Octagon Research Solutions, Trigenesis Therapeutics, and Cutix.

12:50 pm

Angela M. Christiano, PhD**Professor, Departments of Dermatology and Genetics & Development, Vice-Chair for Basic Science Research, Department of Dermatology*****Fanning the Flame: Pursuing a Partnership***

Dr. Christiano obtained her PhD in Genetics at Rutgers University. The major focus of her research is the study of inherited skin and hair disorders in humans and mice, using genetics, stem cells, gene editing and functional approaches to address fundamental questions in hair and skin biology. Translational research in her lab is aimed at developing rationally designed and targeted therapies for skin and hair diseases through understanding the underlying pathogenetic mechanisms.

1:10 pm

Panel Discussion Moderated by Kevin Cooper, MD

Inaugural Transplant Dermatology Symposium sponsored by the International Transplant Skin Cancer Collaborative



Thursday, May 12, 2016

12:00 pm – 1:30 pm

Trailblazers A & B

- 12:00 pm** **Introduction, description of ITSCC.**
Fiona Zwald, Ken Tsai.
- 12:10 pm** **Development of metastatic xenograft model of cutaneous squamous cell carcinoma.** EB. Olasz, B. Michalski, A. Schock, N. Duncan, AM. Lopez, M. Neuburg, M. Flister and Z. Lazarova¹. Dermatology, Medical College of Wisconsin, Milwaukee, WI and Physiology, Medical College of Wisconsin, Milwaukee, WI., *Poster #96*
- 12:22 pm** **Reason for referral to dermatologic care and non-melanoma skin cancer diagnoses in solid organ transplant recipients.** S. Chundydya, J. Cheng, F. Li and O. Colegio. Dermatology, Yale University, New Haven, CT., *Poster #132*
- 12:34 pm** **Trends of skin cancer incidence following transplantation in the United States.** GL Garrett and ST. Arron. UCSF, San Francisco, CA., *Poster #177*
- 12:46 pm** **The role of skin resident donor T cells in face transplant rejection.** I. Win, J. Teague, EL. Lowry, H. Kiwanuka, N. Krezdorn, D. Hamm, E. Bueno, B. Pomahac and R. Clark. Brigham and Women's Hospital, Boston, MA and Adaptive Biotechnologies, Seattle, WA., *Poster #236*
- 12:58 pm** **Host skin T cells survive chemotherapy and transplant conditioning regimens and are present during acute GVHD.** S. Divito, CP. Elco, G. Romar, C. Cutler and TS. Kupper. BWH/HMS, Boston, MA and Oncology, Dana Farber Cancer Institute, Boston, MA., *Poster #225*
- 1:10 pm** **Transplant immunosuppression drives catastrophic carcinomatosis through IL 22.** M. Abikhair, N. Roudiani, K. Tober, T. Oberyszyn, JG. Krueger, D. Felsen and J. Carucci. Dermatology, NYU, New York, NY, OHSU, Columbus, OH, Rockefeller, New York, NY and Cornell, New York, NY, *Poster #244*
- 1:22 pm** **An inpatient, bilaterally-controlled clinical trial comparing a sequential combination of topical 5-fluorouracil (5-FU) and photodynamic therapy (PDT), versus PDT alone, in photodamaged patients and organ transplant recipients with actinic keratoses.** EV. Maytin, M. Riha, S. Anand and A. Vidimos. Dermatology, Cleveland Clinic, Cleveland, OH., *Poster #284*

The International Transplant Skin Cancer Collaborative (ITSCC) is an organization of dermatologic surgeons, clinicians and researchers from multiple disciplines dedicated to advancing the care and understanding of skin cancer in organ transplant recipients. These patients are up to 65 times more likely to develop skin cancer than people without transplants. Skin cancer is the most common cancer affecting solid organ transplant recipients, affecting up to 70 percent of patients within 20 years, and is the result of intense immunosuppressive regimens. Learn more at www.itsc.org.



International Eczema Council at the SID Meeting

Thursday, May 12, 2016

12:00 pm – 1:30 pm

Trailblazers D & E

Lunch will be served

12:00 pm

Welcome/Overview of the IEC and Roadmap of AD at the SID

Amy Paller, Northwestern University, Chicago

12:10 pm

Abstract Presentations

The genetics of chronic itch: Correlating itch severity to gene expression in the skin of atopic dermatitis and psoriasis patients. *Natkemper et al. Temple University, Philadelphia, Poster #365*

Commensal microbiota-responsive basophils promote acute atopic dermatitis-associated itch. *Xu et al. Washington University, St. Louis, Poster #468*

In vivo imaging reveals that neural recruitment precedes the inflammatory infiltrate in a mouse model of atopic dermatitis. *Elmariah et al. Harvard University, Boston, Poster #479*

12:45 pm

Special Presentation: Recent advances in the pathogenesis and treatment of atopic dermatitis.

Kenji Kabashima, Kyoto University, Kyoto, Japan



1:10 pm

Abstract Presentations

IL-36R signaling promotes Staphylococcus aureus-induced atopic dermatitis-like skin inflammation. *Liu et al. Johns Hopkins University, Baltimore, Poster #487*

Variation in the 'atopic march' by age of atopic dermatitis onset. *Wan et al., University of Pennsylvania, Philadelphia, Poster #169*

Special thanks to the International Eczema Council for supporting this session



International Society for Cutaneous Lymphomas/ Cutaneous T Cell Lymphoma Symposium (ISCL/CTCL)



Thursday, May 12, 2016

12:00 pm – 1:30 pm

Trailblazers C

12:00 pm

ISCL Announcements

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

1. 12:10 pm Cutaneous Lymphoma Foundation's Young Investigator's Award
2. 12:20 pm Small molecule screening identifies novel compounds that induce significant apoptosis in cutaneous T-cell lymphoma (CTCL). Jianqiang Wu and G Wood. *Abstract Final ID #282*
3. 12:30 pm Direct gene expression measurement in skin predicts long-term clinical outcome in patients with cutaneous T-cell lymphomas. Adele De Masson, CP Elco, J O'Malley, S Garcia, S Divito, EL Lowry, J Teague, N LeBoeuf, R Clark and TS Kupper. *Abstract Final ID #135*
4. 12:40 pm Cutaneous lymphoma international consortium (CLIC): Uniting worldwide experts to develop and validate a prognostic index model. K Rogers, M Vermeer, P Quaglino, R Hoppe, P Porcu, J Guitart, J Kim, A Gru, G Wood, M Duvic, S Whittaker, J Scarisbrick and Y Kim. *Abstract Final ID #183*
5. 12:50 pm Novel FISH probe panel for the detection of gene copy number alterations in CTCL. Jason Weed, J Gibson, J Lewis, K Carlson, F Foss, J Choi, P Li and M Girardi. *Abstract Final ID #071*
6. 1:00 pm Low-dose radiation preferentially kills malignant T cells, recruits benign T cells and normalizes the immune milieu in mycosis fungoides. John T O'Malley, EL Lowry, A Gehad, J Teague, CP Elco, PA Vieyra, N LeBoeuf, P Devlin, TS Kupper and R Clark. *Abstract Final ID #227*
7. 1:10 pm A novel RXR selective ligand inhibits cutaneous T-cell lymphoma proliferation, in part, through suppressing Skp2 expression. Chu-Fang Chou, Y Hsieh, V R., I Eto, R Dummer, D Muccio, C Elmetts, C Grubbs, and P Chang. *Abstract Final ID #531*
8. 1:20-1:30 C-CBL E3 ubiquitin ligase expression increases across the spectrum of benign to malignant T-cell skin diseases. Katrin A Salva, M Reeder, R Lloyd and G Wood. *Abstract Final ID #258*

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



American Acne & Rosacea Society 5th Annual AARS Scientific Symposium



Thursday, May 12, 2016

12:00 pm – 1:30 pm

Rainmakers

The Mission of the American Acne & Rosacea Society

- Promote, support, develop and provide a forum for the exchange of information about acne and rosacea
- Promote research in acne and rosacea
- Improve the care of patients with acne and rosacea

Become an AARA member today!
www.acneandrosacea.org

To Register: <https://acneandrosacea.org/initiatives/scientific-symposia/5th-annual>



CONCURRENT MINI-SYMPOSIUM 1: *Adaptive Immunity and Vaccination*

Studies of adaptive immune responses involving T and B lymphocytes, antigen presenting cells, dendritic cells and antigen processing/presentation

Thursday, May 12, 2016

2:00 pm – 4:30 pm

Trailblazers A & B

Presiders: John Harris, MD/PhD and Niroshana Anandasapathy, MD/PhD

1. **c-Abl regulates homeostatic transvascular IgG transport in the skin.** Sachiko Ono, Gyohei Egawa, Tetsuya Honda and Kenji Kabashima. Kyoto, Japan. 2:00 pm, Poster #002
2. **Identification and characterization of CD19^{hi}B cells in pemphigus development.** Zhicui Liu, Huijie Yuan, Weihong Zeng, Jie Zheng, Ying Wang and Meng Pan. Shanghai, China. 2:12 pm, Poster #001
3. **First identification of dermal IL-17 producing ab TCR CD4 T_{RM} cells that provide protective immunity to skin infection with *Candida albicans*.** Changook Park, Xuijun Fu, Nicholas Collins, Francis Carbone, Rachael Clark, Charles Lin and Thomas S. Kupper. Boston, MA and Melbourne, Australia. 2:24 pm, Poster #020
4. **Epidermal skin infection induces transcriptionally distinct activated T cells and is the superior route for generating resident memory T cells (T_{RM}).** Youdong Pan, Changook Park, Serena Loftus, Sherrie Divo, Robert Fuhlbrigge and Thomas S. Kupper. Boston, MA. 2:36 pm, Poster #021
5. **CD1 signaling supports the survival, proliferation and cytokine production of human skin resident T cells.** Jung-Im Na, Jessica Teague, Ahmed Gehad, Elizabeth L. Lowry, Tan-Yun Cheng, Rachel Cotton, David B. Moody and Rachael Clark. Boston, MA and Seongnam-si, Korea. 2:48 pm, Poster #003
6. **Boosting of the delayed-type hypersensitivity response to varicella-zoster virus antigen following zoster vaccination in ageing individuals is associated with a local reduction in regulatory T cells.** Neil Patel, Daisy Sandhu, Milica Vukmanovic-Stejic, Malcolm Rustin and Arne Akbar. London, United Kingdom. 3:00 pm, Poster #026
7. **Chemo-immunotherapy of melanoma using dissolvable microneedle arrays.** Blake E. Friedman, Cara Donahue, Geza Erdos and Louis Falot. Pittsburgh, PA. 3:12 pm, Poster #017
8. **Blockade of multiple immune checkpoints cooperatively enhanced the antitumor effect of melanoma-specific CTLs.** Takashi Inozume, Tomonori Yaguchi, Tatsuyoshi Kawamura, Yutaka Kawakami and Shinji Shimada. Chuo, Japan. 3:24 pm, Poster #030
9. **NK help during protective immunization with protein-vaccine is critical to generate adoptive T effector immunity.** Taegyun Kim, Yong Liu, Christopher Nirschl and Niroshana Anandasapathy. Boston, MA. 3:36 pm, Poster #019
10. **Identification of a gain-of-function STAT3 mutation (p.Y640F) in lymphocytic variant hypereosinophilic syndrome.** Sarah Walker, Chen Wang, Trent Walradt, Bok S. Hong, Justin R. Tanner, Jonathan Levinsohn, Gerald Goh, Antonio Subtil, Stuart R. Lessin, Warren Heymann, Eric C. Vonderheid, Brett A. King, Richard Lifton and Jaehyuk Choi. Boston, MA; New Haven, CT; Chicago, IL; Philadelphia, PA; Baltimore, MD and Camden, NJ. 3:48 pm, Poster #027
11. **The spectrum of mild-to-severe psoriasis vulgaris is defined by a constant genomic response to inflammation, but with key differences in immune regulatory genes.** Jaehwan Kim, Robert Bissonnette, Jongmi Lee, Joel Correa-da Rosa, Mayte Suarez-Farinas, Michelle A. Lowes and James G. Krueger. New York, NY; Montreal, Canada and Bronx, NY. 4:00 pm, Poster #011
12. **Commensal microbes augment expression of the hair follicle chemokine Ccl20 to facilitate accumulation of Tregs in neonatal skin.** Tiffany C. Scharschmidt, Kimberly S. Vasquez, Mariela L. Pauli, Hong-An Truong, Justin L. Sonnenburg, Sarah E. Millar and Michael D. Rosenblum. San Francisco, CA; Philadelphia, PA and Stanford, CA. 4:12 pm, Poster #014

Immediately following this session, a 30 minute mixer will be held. Presenters, moderators and attendees will be able to interact as they enjoy light refreshments and snacks. These mixers are designed to encourage informal discussion, mingling and networking among SID meeting attendees.



CONCURRENT MINI-SYMPOSIUM 2: *Carcinogenesis and Cancer Genetics*

Studies on the development, maintenance and metastasis of cancer, and the genetic basis of skin cancer

Thursday, May 12, 2016

2:00 pm – 4:30 pm

Trailblazers D & E

Presiders: Raymond Cho, MD/PhD and Brian Pollack, MD/PhD

1. **Stromal re-organization in hair follicle development and cancer suppression.** Thomas Yang Sun, Valentina Greco and Peggy Myung. New Haven, CT. 2:00 pm, Poster #090
2. **Neoplasms bypass immune evasion via hair follicle residence.** Bradley J. Kubick and Dennis R. Roop. Aurora, CO. 2:12 pm, Poster #089
3. **Identification of metastasis-associated exosomal microRNAs in basal cell carcinoma.** Julia Chang, Gefei A. Zhu, Rui Li, Travis Antes, Robert Spitale and Anne Lynn S. Chang. Stanford, CA; Mountain View, CA and Irvine, CA. 2:24 pm, Poster #102
4. **Resistant basal cell carcinomas require SRF/MRTF to maintain hedgehog pathway activation and tumor growth.** Ramon Whitson, Alex Lee, Nicole Urman, Jiang Li, Amar Mirza, Alexander Brown, Catherine Yao, Gautam Shankar, Micah Fry, Scott X. Atwood, Ervin Epstein, Jean Tang and Anthony E. Oro. Stanford, CA; Oakland, CA and Irvine, CA. 2:36 pm, Poster #081
5. **Examining dual loss of hedgehog receptors ptch1 and ptch2 in mouse models of basal cell carcinoma.** Shelby Peterson and Sunny Wong. Ann Arbor, MI. 2:48 pm, Poster #094
6. **The polycomb protein EZH2 promotes disease progression in cutaneous CD30+ lymphoproliferative disease through histone methyltransferase activity.** Shengguo Yi, Jingru Sun, Wenjing Fu, Marshall E. Kadin, Ping Tu and Yang Wang. Beijing, China and Providence, RI. 3:00 pm, Poster #087
7. **UV light and direct arsenic contact synergistically enhances carcinogenesis through activating inflammasome pathway in keratinocytes.** Yi-Lin Chin, Tsen-Fang Tsai, Yueh-Feng Wu, Huei-Wen Chen and Sung-Jan Lin. Taipei, Taiwan. 3:12 pm, Poster #113
8. **Autophagy regulates DNA repair and controls skin tumorigenesis.** Lei Qiang, Baozhong Zhao, Palak Shah, Ashley Sample, Seungwon Yang and Yu-Ying He. Chicago, IL. 3:24 pm, Poster #111
9. **UV-signature Notch mutations are subclonal in human UV-exposed skin and clonal in squamous cell carcinoma *in situ*.** Stephen Prouty, Zheng Qi, Aaron Chen, Rachel Tang, Vince Anagnos, Paola Barriera, Hasan Bashir, Lauren Lawton and John T. Seykora. Philadelphia, PA. 3:36 pm, Poster #112
10. **GWAS identifies novel susceptibility loci for cutaneous squamous cell carcinoma.** Maryam M. Asgari, Wei Wang, Nilah Ioannidis, Jacqueline Itnyre, Thomas Hoffman, Eric Jorgenson and Alice Whittemore. Boston, MA; Oakland, CA; Stanford, CA and San Francisco, CA. 3:48 pm, Poster #107
11. **Rigosertib for the treatment of squamous cell carcinoma in recessive dystrophic epidermolysis bullosa.** C Pourreyaon, S. A. Watt, S Wright, C Gruber, M Prisco, J A. McGrath, J E. Mellerio, J Bauer and Andrew South. Dundee, United Kingdom; Salzburg, Austria; Philadelphia, PA and London, United Kingdom. 4:00 pm, Poster #097
12. **Merkel cell polyomavirus small T antigen co-expressed with Atoh1 drives development of intraepidermal MCC.** Monique E. Verhaegen, Doris Mangelberger, Paul W. Harms, Dawn Wilbert, Julia Meireles, Thomas Saunders and Andrzej A. Dlugosz. Ann Arbor, MI. 4:12 pm, Poster #092

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CONCURRENT MINI-SYMPOSIUM 3:

Clinical Research I: Epidemiology and Patient Outcomes Research

Includes retrospective meta-analysis of interventional trials, epidemiology of skin disease, and patient outcomes research

Thursday, May 12, 2016

2:00 pm – 4:30 pm

Kierland 1, 2, 3

Presiders: Meg Chren, MD and Joel Gelfand, MD

1. **Mobile phone messaging reminders lead to minimal increase in attendance in outpatient dermatology clinics.** Noori Kim, Katharine Wong and Anna L. Chien. Baltimore, MD. 2:00 pm, Poster #145
2. **Online advertising and skin cancer prevention: Understanding demographics of our target audience.** Kristina Lee, Adi Nosrati, Sherry Pagoto, Mary-Margaret Chren and Eleni Linos. San Francisco, CA and Worcester, MA. 2:12 pm, Poster #217
3. **Better photo-protection in patients with recent skin check does not prevent sunburn among adults with no history of skin cancer.** Alexander H. Fischer, Timothy Wang, Gayane Yenokyan, Sewon Kang and Anna L. Chien. Baltimore, MD. 2:24 pm, Poster #134
4. **Geographic variations in the cost of treating actinic keratosis.** Joslyn Kirby, Tanner Gregory and Guodong Liu. Hershey, PA. 2:36 pm, Poster #160
5. **Epidemiological and mechanistic evidence that AHR signaling is involved in airborne particle-induced skin damage.** Anke Huels, Andrea Vierkoetter, Ursula Kraemer, Sabine Stolz, Thomas Haarmann-Stemmann, I. Felsner, H. Brenden, Susanne Grether-Beck, Jean Krutmann and Tamara Schikowski. Duesseldorf, Germany. 2:48 pm, Poster #188
6. **Genetic variants in the Wnt pathway genes NFATC1 and PLCB1 predict melanoma survival.** Qiong Shi, Hongliang Liu, Chunying Li, Yanru Wang, Zhensheng Liu, Christopher Amos, Jeffrey Lee and Qingyi Wei. Durham, NC; Xi'an, China; Hanover, NH and Houston, TX. 3:00 pm, Poster #211
7. **Prognosis of melanomas by depth within T1, SEER 13 1992-2003.** Shoshana M. Landow, Annie Gjelsvik, Hyemin Pomerantz and Martin A. Weinstock. Providence, RI. 3:12 pm, Poster #214
8. **Association of childhood atopic dermatitis with decreased physical activity and increased sedentary behavior.** Mark A. Strom and Jonathan I. Silverberg. Chicago, IL. 3:24 pm, Poster #179
9. **Decreased prevalence of digital ulcers in patients with systemic sclerosis treated with SSRIs.** Michael Lichtman, Sarah Kam, Elizabeth Damstetter, Shankar Mundluru, Justin Besen, Christina Lam, Howard Cabral and Vincent Falanga. Boston, MA. 3:36 pm, Poster #122
10. **Epidemiology and treatment of refractory cutaneous lupus erythematosus.** Renee Fruchter, Drew Kurtzman, Janice Lin, Alisa N. Femia, Ruth Ann Vleugels. Boston, MA and New York, NY. 3:48 pm, Poster #176
11. **Sociodemographic characteristics predict persistent atopic dermatitis disease activity into early adulthood: A longitudinal cohort study.** Katrina Abuabara, Ole Hoffstad, Andrea B. Troxel, Joel M. Gelfand and David Margolis. San Francisco, CA and Philadelphia, PA. 4:00 pm, Poster #197
12. **Stevens-Johnson syndrome and toxic epidermal necrolysis in United States adults.** Derek Hsu, Joaquin Brieve and Jonathan I. Silverberg. Chicago, IL. 4:12 pm, Poster #168

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CONCURRENT MINI-SYMPOSIUM 4: *Photobiology*

Studies on the development, maintenance and metastasis of cancer, and the genetic basis of skin cancer

Thursday, May 12, 2016

2:00 pm – 4:30 pm

Trailblazers C

Presiders: Hasan Mukhtar, PhD and Hui Xu, PhD

1. **Ubiquitin-specific peptidase 11 regulates XPC activity in UV-induced DNA damage repair.** Palak Shah, Lei Qiang, Seungwon Yang and Yu-Ying He. Chicago, IL. 2:00 pm, Poster #574
2. **Hypoxia-inducible factor-1 α protects from UVB-mediated skin damage and photoaging.** Kevin Sondenheimer, Sonja Didovic, Marc Majora, Maren Schneider, Ingo Utthe, Thomas Haarmann-Stemmann, Irmgard Förster, Heike Weighardt and Jean Krutmann. Düsseldorf, Germany and Bonn, Germany. 2:12 pm, Poster #586
3. **Topical application of ST266 reduces UV-induced skin damage.** Emily Galan, Linna Guan, Amanda Suggs, Minh Lam and Elma Baron. Cleveland, OH. 2:24 pm, Poster #580
4. **Protein kinase C delta is a central regulator of DNA damage responses.** Gargi Patil, Arnaud Wautlet, Joshua Scheck, Christopher Negro and Mitchell Denning. Maywood, IL. 2:36 pm, Poster #572
5. **Vitamin D signaling regulates inducible DNA repair genes.** Amy E. Scandurra, Daniel Bikle and Dennis H. Oh. San Francisco, CA. 2:48 pm, Poster #564
6. **Neutrophil NETosis is involved in UVB induced-skin inflammation.** Minglin Liu, Meena Sharma and Victoria P. Werth. Philadelphia, PA. 3:00 pm, Poster #568
7. **UVB generates microvesicle particles via platelet-activating factor-receptor signaling: A novel pathway by which a skin-specific stimulus exerts systemic effects.** Jeffrey B. Travers, Christine Rapp and Ji Bihl. Dayton, OH. 3:12 pm, Poster #590
8. **Serum amyloid A1 from UV-irradiated keratinocytes induces matrix metalloproteinase-1 in fibroblasts through toll-like receptor 4.** Sangbum Han, Seon-Pil Jin, Jianghee Oh, Eun-young Seo, Chi-hyun Park, Hyun-Sun Yoon, Yeji Kim, Yuri Lee, Dong Hun Lee and Jin Ho Chung. Seoul, Korea. 3:24 pm, Poster #587
9. **FOXO3a-dependent expression of Trail and Bim is regulated by mTORC2 in UVB-induced apoptosis.** Robert P. Feehan and Lisa M. Shantz. Hershey, PA. 3:36 pm, Poster #571
10. **Discovery of new pathway activating lumisterol *in vivo* to biologically active molecules.** Andrzej T. Slominski, Tae-Kang Kim, Judith Hobrath, Zorica Janjetovic, Allen S. Oak, Arnold Postlethwaite, Wei Li, Anton Jetten and Robert Tuckey. Birmingham, AL; Memphis, TN; Research Triangle Park, NY and Crawley, Australia. 3:48 pm, Poster #596
11. **Akt1 activation promotes the survival of UV-irradiated keratinocytes and drives SCC carcinogenesis.** Arianna L. Kim, Yucui Zhu, John Zade, Mohammad Athar and David R. Bickers. New York, NY and Birmingham, AL. 4:00 pm, Poster #578
12. **Photoactivation of sulfur-modified DNA and RNA analogs induces cytotoxicity in epidermoid carcinoma cells.** Marvin Pollum, Linna Guan, Sayeeda Ahsanuddin, Elma Baron, Minh Lam and Carlos Crespo-Hernández². Cleveland, OH. 4:12 pm, Poster #593

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CONCURRENT MINI-SYMPOSIUM 5:

Epidermal Structure and Barrier Function

Research on the components or regulation of keratinocyte proliferation, terminal differentiation, and/or epidermal barrier function

Thursday, May 12, 2016

2:00 pm – 4:30 pm

Kierland 4

Presiders: Cristina de Guzman Strong, PhD and Terry Lechler, PhD

1. **Form and function of keratins in the nucleus.** Ryan Hobbs, Justin T. Jacob, Brian G. Poll and Pierre A. Coulombe. Baltimore, MD. 2:00 pm, Poster #306
2. **Characterization of the molecular surface properties of keratin 1-keratin 10 intermediate filaments using x-ray crystallography.** Leonard M. Milstone and Christopher G. Bunick. New Haven, CT. 2:12 pm, Poster #342
3. **Epidermal fragility in Keratin 10 ichthyosis with confetti mutation results from loss of keratin 1-desmoplakin interaction.** Yin Lu, Haris Mirza, Rong-Hua Hu, Jing Zhou, Debra A. Crumrine, Peter M. Elias, Richard Lifton and Keith Choate. New Haven, CT and San Francisco, CA. 2:24 pm, Poster #351
4. **A novel desmosome-cop9 signalosome interaction: A role in epidermal differentiation and egfr neddylation.** Nicole A. Najor, Jennifer L. Koetsier, Gillian Fitz, Lauren Albrecht and Kathleen Green. Chicago, IL. 2:36 pm, Poster #340
5. **The antioxidant enzyme peroxiredoxin 1 stabilizes desmoglein 1 at the plasma membrane to promote epidermal differentiation.** Sherry Lee, Robert Harmon, Oxana Nekrasova, Jodi L. Johnson and Kathleen Green. Chicago, IL. 2:48 pm, Poster #336
6. **NBR1 exhibits differentiation-dependent expression in human keratinocytes and may function as a specific autophagy receptor within the epidermal granular layers.** Cory L. Simpson and Erika L. Holzbaur. Philadelphia, PA. 3:00 pm, Poster #333
7. **Preferential protein translation is required for keratinocyte differentiation.** Dan Spandau, Annie Collier and Ron Wek. Indianapolis, IN. 3:12 pm, Poster #355
8. **Allelic series for an EDC enhancer generated by CRISPR/Cas9 genome editing identifies an enhancer requirement for proximal gene expression and efficient wound healing.** Inez Oh, Ashley Quiggle, Renate Lewis and Cristina de Guzman Strong. St. Louis, MO. 3:24 pm, Poster #352
9. **Elucidating the DLX3 interactome to identify the mechanisms through which it regulates skin differentiation.** Kathleen Baysac, Paul Bible, Jenny Smith, Meghan Kellett, Lisa Jenkins and Maria I. Morasso. Bethesda, MD. 3:36 pm, Poster #354
10. **Regulation of epidermal differentiation by MAF and MAFB.** Vanessa Lopez-Pajares, Brook C. Barajas, Adam Rubin and Paul A. Khavari. Stanford, CA and Palo Alto, CA. 3:48 pm, Poster #335
11. **Inter-alpha-trypsin inhibitor heavy chain 5 (ITI5) could be a novel key player in skin barrier formation.** Sebastian Huth, Ruth Heise, Claudia S. Vetter-Kauczok, Claudia Skazik, Yvonne Marquardt, Katharina Czaja, Edgar Dahl, Martin Leverkus and Jens M. Baron. Aachen, Germany and Würzburg, German. 4:00 pm, Poster #319
12. **Enhanced susceptibility of the epidermis to mechanical stress due to the loss of loricrin activates the Nrf2/Keap1 pathway and mediates an atopic response via direct regulation of the IL-33/ST2 pathway.** Yosuke Ishitsuka, Robert H. Rice, Bin Lianghua, Donald Y. Leung and Dennis R. Roop. Aurora, CO; Davis, CA and Denver, CO. 4:12 pm, Poster #312

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Friday Sessions

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60	Concurrent Mini-Symposium 6: Auto-Immunity
61	Concurrent Mini-Symposium 7: Genetic Disease, Gene Regulation and Gene Therapy
62	Concurrent Mini-Symposium 8: Clinical Research II: Pathophysiology and Therapeutics
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64	Concurrent Mini-Symposium 10: Tissue Regeneration and Wound Healing
65	Concurrent Mini-Symposium 11: Interdisciplinary Spotlight: Immunomodulation
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67-68	North American Hair Research Society (NAHRS) Scientific Meeting
69	National Psoriasis Foundation
70	SATO Japan Scientific Forum

TICKETED EVENT: PRE-REGISTRATION REQUIRED

Trainee/Faculty Mixer

Friday, May 13, 2016

6:00 pm – 7:30 pm

Marshall's Outpost Pavilion

Throughout the years, the SID has encouraged meeting between Residents and Post-Doc Fellows. To continue its promotion of collegiality, the SID presents a Trainee Mixer-small group meetings in which senior and junior scientists and a group of four to six residents and post-doc fellows-to discuss issues over cocktails and light fare. These sessions provide an opportunity to talk informally about subject matter of interest including research opportunities in dermatology, life in academia or how to combine clinical work with research.





Meeting-At-A-Glance

FRIDAY, MAY 13, 2016

Pediatric Dermatology Research Alliance Society for Pediatric Dermatology Session	7:00 am – 8:00 am Trailblazers A & B
Registration	7:30 am – 4:00 pm Hall of State
Plenary Session II	8:00 am – 9:00 am Kierland Ballroom
Stephen Rothman Memorial Award Presented to R. Rox Anderson, MD	9:00 am – 9:15 am Kierland Ballroom
Herman Beerman Lecture <i>Beyond the Sequence: Understanding the Genome in 3D</i> Tom Misteli, PhD	9:15 am – 9:45 am Kierland Ballroom
Coffee Break Sponsored by Travel Portland	9:45 am – 10:00 am Hall of State
BJD Editorial Board Meeting	9:45 am – 10:45 am Noble Boardroom
State-of-the-Art Plenary Lecture III <i>Harnessing Big Data to Answer Clinically Relevant Questions in Dermatology</i> Maryam M. Asgari, MD/MPH	10:00 am – 10:30 am Kierland Ballroom
State-of-the-Art Plenary Lecture IV <i>Cutaneous Mosaicism: Clinical Presentations and Pathogenic Mechanisms</i> Dawn H. Siegel, MD	10:30 am – 11:00 am Kierland Ballroom
Come See My Poster II Poster #'s 124, 658, 316, 234, 730, 362, 676, 690, 644, 034, 566, 036	11:00 am – 11:15 am Kierland Ballroom
American Skin Association Awards	11:15 am – 11:30 am Kierland Ballroom
Business Meeting for Members	11:30 am – 12:00 pm Kierland Ballroom
International Psoriasis Council	12:00 pm – 1:30 pm Trailblazers A & B
American Dermato-Epidemiology Network (ADEN) Symposium	12:00 pm – 1:45 pm Kierland 4
Medical Dermatology Society	12:00 pm – 1:45 pm Trailblazers C
Women's Dermatologic Society Luncheon	12:00 pm – 1:45 pm Tribal A & B
Research in Cutaneous Surgery (RCS) Symposium	12:00 pm – 1:30 pm Rainmakers

Continued on next page.

ASSOCIATE GROUPS ARE LISTED IN BLUE.



Meeting-At-A-Glance (continued)

FRIDAY, MAY 13, 2016

Dystrophic Epidermolysis Bullosa Research Association (debra) of American	12:00 pm – 1:30 pm Trailblazers D & E
Satellite Symposium <i>Academic-Industry Partnership Project (AIPP) – Speed Dating at SID</i> Individual Meetings (set up in advance by the SID)	12:00 pm – 2:00 pm Pathfinders
Concurrent Mini-Symposia	2:00 pm – 4:30 pm
6. Auto-Immunity	Trailblazers A & B
7. Genetic Disease, Gene Regulation and Gene Therapy	Trailblazers D & E
8. Clinical Research II: Pathophysiology and Therapeutics	Kierland 4
9. Growth Factors, Cell Adhesion, and Matrix Biology	Rainmakers
10. Tissue Regeneration and Wound Healing	Trailblazers C
11. Interdisciplinary Spotlight: Immunomodulation	Kierland 1, 2, 3
Mini-Symposia Mixers	4:30 pm – 5:00 pm Individual Concurrent Meeting Rooms
National Eczema Association	6:00 pm – 7:00 pm Mapmakers A & B
North American Hair Research Society (NAHRS)	6:00 pm – 8:30 pm Kierland 4
National Psoriasis Foundation Reception	6:00 pm – 8:00 pm Pathfinders A
SATO Japan Scientific Forum	6:00 pm – 9:30 pm Tribal A & B
Trainee/Faculty Mixer	6:00 pm – 7:30 pm Marshall's Outpost Pavilion

ASSOCIATE GROUPS ARE LISTED IN BLUE

Friday, May 13, 2016 **7:00 am – 8:00 am** **Trailblazers A & B**

Coffee will be served

7:00 am **Introduction and Welcome**
Amy Paller, Northwestern University

7:05 am Abstract #136
Squamous cell carcinoma complicating recessive dystrophic epidermolysis bullosa in Australasia: 1991-2015.
 Minhee Kim et al. St. George Hospital, Sydney, Australia

7:15 am Special Presentation
Autoimmunity in vitiligo and emerging targeted treatments
 John Harris, University of Massachusetts, Wooster



7:40 am Abstract #254
Use of systemic agents in pediatric psoriasis: characteristics, comorbidities, and reported adverse events in an international registry.
 Amy Paller et al. Northwestern Univ., Chicago and Radboud Univ., Nijmegen

7:50 am Discussion and Concluding Remarks

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



PLENARY SESSION II

Presiders: Ponciano D. Cruz, MD and Paul Nghiem, MD/PhD

Friday, May 13, 2016

8:00 am – 9:00 am

Kierland Ballroom

1. **Effective melanoma immune defense by turning tumor resident mast cells into T-cell recruiting immune sentinels.** Susanne Kaesler, F. Wölbing, Y. Skabytska, W. Kempf, M. Köberle, A. Yazdi, T. Volz, M. Röcken and T. Biedermann. Munich, Germany and Tübingen, Germany. *8:00 am, Poster #012*
2. **A novel mechanism for long-term protection against CA-MRSA skin reinfection that is not dependent upon antibody responses or CD4+ T cells.** Carly Page, Da B. Lee, Bret Pinsker, Yu Wang, Haiyun Liu, Roger Ortines, Jonathan Shahbazian, Alyssa Ashbaugh and Lloyd S. Miller. Baltimore, MD. *8:12 am, Poster #451*
3. **PUVA therapy fails to deplete malignant T cells in CTCL and instead exerts its clinical effect by modulating benign T cell populations.** Pablo A. Vieyra, John T. O'Malley, Jessica Teague, Elizabeth L. Lowry, Ahmed Gehad, Peter Wolf and Rachael Clark. Boston, MA and Graz, Austria. *8:24 am, Poster #240*
4. **CDK1 promotes tumor initiation by interacting with Sox2 and enhancing its function.** Yuchun Luo, John J. Arcaroli, Sucai Liu, Lekha K. Kutty, Stacey Bagby, Wells Messersmith and Mayumi Fujita. Aurora, CO and Denver, CO. *8:36 am, Poster #617*
5. **Ceramide accumulation in mitochondria: A novel anti-cancerous approach via inducing mitophagy.** Mohammed Dany and Besim Ogretmen. Charleston, SC. *8:48 am, Poster #522*



STEPHEN ROTHMAN MEMORIAL AWARD

Friday, May 13, 2016

9:00 am – 9:15 am

Kierland Ballroom

Introduction by:

Mark C. Udey, MD/PhD



R. Rox Anderson, MD

Harvard Medical School
Boston, MA

Dr. Anderson graduated from MIT, and then received his MD degree magna cum laude from the joint MIT-Harvard medical program, Health Sciences and Technology. After completing his dermatology residency and an NIH research fellowship at Harvard, he joined the faculty where he is now Harvard Medical School Professor in Dermatology, Director of the Wellman Center for Photomedicine; and adjunct Professor of Health Sciences and Technology at MIT. Dr. Anderson conceived and developed many of the non-scarring laser treatments now widely used in medical care. Dr. Anderson's research has advanced the basic knowledge of human skin photobiology, drug photosensitization mechanisms, tissue optics, and laser-tissue interactions. In addition to research at the Wellman Center, he practices dermatology at Massachusetts General Hospital and teaches at Harvard and MIT. Dr. Anderson has been awarded over 60 national and international patents, and has co-authored over 250 scientific books and papers.



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 award.



HERMAN BEERMAN LECTURE***Beyond the Sequence: Understanding the Genome in 3D*****Friday, May 13, 2016****9:15 am – 9:45 am****Kierland Ballroom**

Introduction by:

Mark C. Udey, MD/PhD

**Tom Misteli, PhD**

Center for Cancer Research,
National Cancer Institute (CCR, NCI)
Bethesda, MD

Tom Misteli, PhD, is an internationally renowned cell biologist who pioneered the use of imaging approaches to study genomes and gene expression. His laboratory uses cell biological, molecular, biochemical and imaging approaches to uncover fundamental principles of genome architecture and to apply this knowledge to the development of novel diagnostic and therapeutic strategies for cancer and aging.

**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 LECTURES

LECTURE III

Harnessing Big Data to Answer Clinically Relevant Questions in Dermatology

Friday, May 13, 2016

10:00 am – 10:30 am

Kierland Ballroom

Introduction by:

Lloyd Miller, MD/PhD

**Maryam M. Asgari, MD/MPH**Massachusetts General Hospital
Boston, MA

Dr. Asgari, MD/MPH, is a board-certified Dermatologist, Epidemiologist, and Mohs Micrographic surgeon. After obtaining a bachelor's degree from Stanford University; she completed her medical degree from Yale University School of Medicine, followed by an internship at Beth Israel Deaconess Medical Center, and a residency at the University of Washington Seattle, Division of Dermatology. Next, she completed a fellowship in Mohs Micrographic Surgery at the University of Texas Southwestern Medical Center, Dallas, Texas. For the past ten years, Dr. Asgari has been a research investigator and attending physician at Kaiser Permanente in Walnut Creek, CA. As a dermatologic surgeon, her area of expertise is Mohs Surgery with a special focus on cosmetically sensitive areas. Other areas of skin surgery expertise include excision of melanoma, removal of benign skin lesions such as cysts and lipomas, and scar revisions. As a dermatoepidemiologist, she works to improve outcomes related to skin cancer with a special focus on skin cancer prevention. She has published more than 70 papers, including the Journal of the American Academy of Dermatology, Dermatologic Surgery, and the American Journal of Epidemiology. She is a member of several professional associations and has delivered more than 100 presentations. Dr. Asgari received President Obama's Award for Volunteerism for her work to improve healthcare, especially to patient populations in underserved areas.

LECTURE IV

Cutaneous Mosaicism: Clinical Presentations and Pathogenic Mechanisms

Friday, May 13, 2016

10:30 am – 11:00 am

Kierland Ballroom

Introduction by:

Kevin Wang, MD/PhD

**Dawn H. Siegel, MD**Medical College of Wisconsin
Milwaukee, WI

Dr. Siegel has a particular interest in general pediatric dermatology and skin health in infants, children and adolescents. Dr. Siegel focuses on improving the quality of life of children and their families by treating the skin conditions such as acne, eczema and psoriasis. Dr. Siegel is a founding member and scientific co-chairman for the Pediatric Dermatology Research Alliance (PeDRA) to promote and discover better treatments for the pediatric dermatology conditions through research. In addition to practice of common pediatric dermatology conditions, Dr. Siegel also has an expertise in genetic skin syndromes. She is co-director of the Neurofibromatosis and RASopathy clinic at Children's Hospital of Wisconsin and she works on the Medical Advisory Committee for the Costello Syndrome Family Network. Through her research, Dr. Siegel has spent the last several years determining the features and cause of a hemangioma syndrome called "PHACE syndrome". By studying these rare genetic diseases, Dr. Siegel hopes to gain a better understanding about the causes and treatments for common skin conditions in children.



COME SEE MY POSTER II

Presider: Sarah Millar, PhD

Friday, May 13, 2016

11:00 am – 11:15 am

Kierland Ballroom

The Come See My Poster session gives opportunities to select presenting authors of highly scored abstracts to give a brief one-minute (and one slide) introduction to their submitted abstract. This rapid paced session provides excitement for all attendees.



1. **The risk of liver disease in psoriasis patients: A population-based cohort.** Sungat K. Grewal, Alexis Ogdie, Junko Takeshita, Daniel B. Shin, Rotonya M. Carr and Joel M. Gelfand. Philadelphia, PA. 11:01 am, Poster #124
2. **Combination with gamma secretase inhibitor prolongs treatment efficacy of BRAF inhibitor in BRAF mutant melanoma cells.** Guannan Zhu, Xiuli Yi, Sebastian Haferkamp, Sonja Hesbacher, Chunying Li, Matthias Goebeler, Tianwen Gao, Roland Houben and David Schram. Xi'an, China; Würzburg, Germany and Regensburg, Germany. 11:02 am, Poster #658
3. **The Aryl hydrocarbon receptor (AHR) is critical for skin barrier function and a target for dietary intervention.** Katharina Haas, René Deenen, Karl Köhrer, Wilhelm Bloch, Petra Boukamp, Jean Krutmann and Charlotte Esse. Düsseldorf, Germany and Cologne, Germany. 11:03 am, Poster #316
4. **Anti-Ro60 T and B cells in human lupus cross-react with Ro60 orthologs from cutaneous commensals.** Teri Greiling, Carina Dehner, Stephen Renfroe, Xinguo Chen, Silvio M. Vieira, William Ruff, Michael Girardi, Andrew Goodman, Sandra Wolin and Martin A. Kriegel. New Haven, CT. 11:04 am, Poster #234
5. **M2 macrophages promote wound induced hair neogenesis through the production of growth factors.** Akira Kasuya, Taisuke Ito and Yoshiki Tokur. Hamamatsu, Japan. 11:05 am, Poster #730
6. **Epigenetic regulation of DNA damage-induced inflammation.** Brian C. Capell and Shelley L. Berger. Philadelphia, PA. 11:06 am, Poster #362
7. **An underlying mechanism of hair loss in acrodermatitis enteropathica.** Youichi Ogawa, Tatsuyoshi Kawamura and Shinji Shimada. Yamanashi, Japan. 11:07 am, Poster #676
8. **Galectin-12 regulates sebaceous gland function.** Wei-Chen Hsieh, Ching-Han Tsao, Ri-Yao Yang, Maria Karmella Apaya, Lie-Fen Shyur, Huan-Yuan Chen and Fu-Tong Liu. Taipei, Taiwan and Sacramento, CA. 11:08 am, Poster #690
9. **Tumor cell adhesion as a risk factor for SLN metastasis and predictor of disease recurrence in primary cutaneous melanoma.** Sindhuja S. Damodaran and Alexander Meves. Rochester, MN. 11:09 am, Poster #644
10. **Recombinant replication competent attenuated vaccinia virus expressing human Flt3L for cancer immunotherapy.** Weiyl Wang, Peihong Dai, Stewart Shuman, Taha Merghoub, Jedd D. Wolchok and Liang Deng. New York, NY. 11:10 am, Poster #034
11. **UV radiation causes transcriptomic instability coupled with dynamic remodeling of enhancer chromatin in human keratinocytes.** Yao Shen, Xiaoyun Sun, Rong Du, Arianna L. Kim and Liang Liu. New York, NY. 11:11 am, Poster #566



American Skin Association (ASA) Awards



Friday, May 13, 2016

11:15 am – 11:30 am

Kierland Ballroom

David Martin Carter Mentor Award

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

*American Skin Association is delighted to present its
2016 David Martin Carter Mentor Award to:*

Barbara A. Gilchrest, MD

Massachusetts General Hospital, Harvard Medical School

A world-renowned dermatologist and researcher;

A devoted mentor and educator for over three decades;

Author of hundreds of scholarly articles, other writings and eight books.

Research Achievement Awards

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

*American Skin Association is delighted to present its
2016 Research Achievement Awards to:*

Kim B. Yancey, MD

UT Southwestern Medical Center

Autoimmune & Inflammatory Skin Diseases

Boris C. Bastian, MD, PhD

University of California, San Francisco

Skin Cancer & Melanoma

Pearl E. Grimes, MD, FAAD

Vitiligo & Pigmentation Institute of Southern California

Clinical Professor of Dermatology at UCLA

Vitiligo & Pigment Cell Disorders



BUSINESS MEETING FOR MEMBERS

Friday, May 13, 2016

11:30 am – 12:00 pm

Kierland Ballroom

Honorary Membership is one of the highest honors the Society for Investigative Dermatology (SID) bestows. Each of the following SID Members has made sustained and important contributions to the research base in cutaneous biology and has contributed to the organizational success of the SID. Each has also excelled in their role as a mentor to numerous individuals over the course of their academic career.

Congratulations to Drs. Richard Edelson, Peter Elias, and John Parrish on their appointment to SID Honorary Membership!



Richard Edelson, MD

Yale University
New Haven, Connecticut

Richard Edelson is Aaron and Marguerite Lerner Professor and Chairman of the Department of Dermatology. During a decade at Columbia University's Medical School, he was Professor of Dermatology and Director of the Columbia University Cancer Center's Immunology Research Program and Associate Director of its Clinical Research Center. He has been Yale Dermatology Chairman since 1986, and has also served as Deputy Dean for Clinical Affairs and Director of the Yale Comprehensive Cancer Center.



Peter M. Elias, MD

Professor Emeritus, Department of Dermatology,
University of California San Francisco, San Francisco, California
Staff Physician, Veterans Affairs Medical Center, San Francisco, California

Dr. Elias received his MD from University of California, San Francisco and trained in dermatology at Harvard University. He has authored/co-authored over 600 scientific articles, and has edited/co-authored three books on the skin barrier in health and disease; is an invited speaker at worldwide scientific meetings; and has been a consultant to the pharmaceutical and cosmetic industries. He has contributed to the present wealth of knowledge on the structure and myriad functions of mammalian stratum corneum.



John Parrish, MD

Massachusetts General Hospital
Boston, Massachusetts

In the growing domain of multidisciplinary, multi-institutional, translational research, including the government-academia-industry triad, John Parrish may be the world's most successful academic physician. During the 1970's and 80's, his own basic, applied, translational and clinical research markedly changed the practice of Dermatology and introduced the use of lasers in several medical and surgical specialties. In addition, Dr. Parrish served for 18 years as Professor and Chair of Dermatology, Harvard Medical School, generated over 300 medical and scientific publications, was inducted into the National Academy of Medicine of the National Academies of Science, and received numerous prizes for teaching, training, mentorship, basic research, clinical research, and humanitarian impact. He is a member of the American Academy of Arts and Sciences.



International Psoriasis Council



Friday, May 13, 2016 12:00 pm – 1:30 pm Trailblazers A & B

PROGRAM CHAIR

Johann Gudjonsson, MD/PhD – Ann Arbor, Michigan

- 12:00 pm Welcome and Overview**
Johann Gudjonsson, MD/PhD – Ann Arbor, Michigan
- 12:05 pm Pediatric Registry**
Amy Paller, MD – Chicago, Illinois (invited)
- 12:20 pm Cardiovascular Proteins**
James G. Krueger, MD/PhD – New York, New York (invited)
- 12:35 pm Gene Expression - Hair and sebaceous glands in psoriasis**
JT Elder, MD/PhD – Ann Arbor, Michigan (invited)
- 12:50 pm Pathogenic T-cell clones in psoriasis**
Rachel A. Clark, MD/PhD – Boston, Massachusetts (invited)
- 1:05 pm Pustular Psoriasis and the Role of Neutrophils**
Andrew Johnston, PhD – Ann Arbor, Michigan (invited)
- 1:20 pm Closing Comments**
Johann Gudjonsson, MD/PhD – Ann Arbor, Michigan

The International Psoriasis Council is pleased to announce an exciting and informative symposium entitled “Psoriasis-the way forward: Novel clinical and pathogenic insights”. Our understanding of the complex interaction of cytokines and autoimmune response targets has led to the innovation of effective therapies for psoriasis. The symposium will explore psoriasis advances on a broad clinical level and also on a fine molecular level. Key opinion leaders will present new data on major drivers of inflammation in pustular and plaque psoriasis examined through state of the art technologies. In addition, the impact of systemic psoriasis agents on cardiovascular comorbidities will also be investigated at the protein level. Finally, we will present a retrospective look into the treatment of pediatric psoriasis and discuss characteristics, comorbidities and adverse events reported through an international registry.





American Dermato-Epidemiology Network (ADEN) Symposium

Friday, May 13, 2016

12:00 pm – 1:45 pm

Kierland 4

12:00 pm	Welcome and Introductions
12:05 pm	Founders Award Presentation <i>"DermatoEpidemiology: To be or not to be"</i> David J. Margolis MD/PhD
12:25 pm	Trainee Awards
12:30 pm	Increased risk of serious infection among patients with psoriasis: A population-based cohort study in the United Kingdom. <i>Poster #191.</i>
12:40 pm	Variation in the 'atopic march' by age of atopic dermatitis onset. <i>Poster #169.</i>
12:50 pm	Association of socioeconomic and geographic factors with Google search trends for skin protective and risk behaviors. <i>Poster #182.</i>
1:00 pm	A predictive model for suspected lower limb cellulitis in the emergency department. <i>Poster #201.</i>
1:10 pm	Prenatal risk factors associated with increasing incidence of infantile hemangiomas. <i>Poster #141.</i>
1:20 pm	ADEN business meeting



Medical Dermatology Society at the SID Annual Meeting



Friday, May 13, 2016

12:00 pm – 1:45 pm

Trailblazers C

12:00 pm Introduction and Welcome



Daniela Kroshinsky, MD, MPH
MDS President
Massachusetts General Hospital



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

12:05 pm Association of 25-hydroxyvitamin D levels and cutaneous melanoma in postmenopausal women in the Women's Health Initiative study. Poster #130
Gina Kwon, MD, University of Washington

12:17 pm Shading around the border: A study of skin cancer risk reduction behaviors among American Indians and non-Hispanic whites in a Navajo Nation border town. Poster #137
Mary E. Logue, BA, University of New Mexico in Albuquerque

12:29 pm The risk of lymphoma in patients with psoriasis: A cohort study in the United Kingdom. Poster #139
Zelma Chiesa Fuxench, MD, University of Pennsylvania Health System

12:41 pm Using the American College of Rheumatology and Systemic Lupus International Collaborating Clinics criteria to measure disease severity in discoid lupus erythematosus. Poster #143
Jenna K. Presto, BS, University of Pennsylvania, Perelman Center for Advanced Medicine

12:52 pm Predictors of dermatologic medication primary nonadherence in an urban hospital population: Are electronic prescriptions superior? Poster #174
Adewole Adamson, MD, MMP, University of North Carolina, Chapel Hill

1:04 pm Preferential sites of initial distant metastatic disease in Merkel cell carcinoma. Poster #185
Jamiluddin Qazi, University of Washington

1:16 pm Efficacy and safety of ustekinumab treatment in adults with moderate-to-severe atopic dermatitis. Poster #231
Patrick M. Brunner, MD, The Rockefeller University

1:28 pm Transplant immunosuppression drives catastrophic carcinomatosis through IL 22. Poster #244
John A. Carucci, MD, PhD, New York University Langone Medical Center

1:40 pm Discussion and Concluding Remarks

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

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

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



Research in Cutaneous Surgery

Friday, May 13, 2016

12:00 pm – 1:30 pm

Rainmakers

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

Moderator: Murad Alam, MD

Co-Moderators: Jeremy Bordeaux, MD & Ian Maher, MD

1. 12:00 pm **Enhanced dermal mechanical support rapidly stimulates fibroblasts and stable accumulation of collagen bundles in photoaged human skin**
Frank Wang
2. 12:08 pm **Helping children be safe outdoors with sun protection**
June K. Robinson
3. 12:16 pm **Increased risk of cutaneous squamous cell carcinoma after vismodegib therapy for basal cell carcinoma**
Anne Lynn Su Chang
4. 12:24 pm **Onabotulinum toxin injections for the treatment of psoriasis vulgaris: Efficacy and effects on neuropeptide expression**
Kelly Aschenbeck
5. 12:32 pm **Ablative non-sequential fractional ultrapulsed CO2 laser pretreatment improves conventional photodynamic therapy with methyl aminolevulinate in a novel human in vitro 3D actinic keratosis skin model**
Jens Malte Baron
6. 12:40 pm **Analysis of association between keloids, hypertension and obesity**
Donald A. Glass
7. 12:48 pm **UV exposure and risk of lentigo maligna in the United States**
H. William Higgins
8. 12:56 pm **Using crowdsourcing to improve accuracy of pigmented lesion triage**
Keith C. Olsen
9. 1:05 pm **5-fluorouracil improves biopsy yield for basal cell carcinoma but not squamous cell carcinoma**
Julia Siegel
10. 1:13 pm **Predictors of actinic keratosis count**
Adam J. Luber
11. 1:21 pm **The influence of health insurance status on stage at diagnosis of cutaneous melanoma**
Oleksandr Trofymenko



CONCURRENT MINI-SYMPOSIUM 6: *Auto-Immunity*

Basic and pre-clinical experimental studies focused on auto-immunity

Friday, May 13, 2016

2:00 pm – 4:30 pm

Trailblazers A & B

Presiders: Michael Rosenblum, MD/PhD and Mary Tomayko, MD/PhD

- Dysfunction of CD19⁺CD24^{hi}CD27⁺B regulatory cells in patients with bullous pemphigoid.** Zhenfeng Liu, Bing Li, Hongjiang Qiao and Gang Wang. Xi'an, China. 2:00 pm, Poster #035
- Collagen XVII autoantibodies in Parkinsons disease sera react with tyrosine hydroxylase positive neurons, but not epidermal basement membrane zone.** Grant Randall, Samuel Connell, Nandakumar Narayanan, Kelly A. Messingham and Janet A. Fairley. Iowa City, IA. 2:12 pm, Poster #056
- γδT cells as novel players in alopecia areata pathobiology: Vδ1⁺ T lymphocytes may recognize "stressed" hair follicle keratinocytes, leading to IFN-γ-dependent hair follicle dystrophy and immune privilege collapse.** Youhei Uchida, Marta Bertolini, Majid Alam, Jennifer Gherardini, Alfredo Rossi, Amos Gilhar, Takuro Kanekura and Ralf Paus. Münster, Germany; Kagoshima, Japan; Rome, Italy; Haifa, Israel and Manchester, United Kingdom. 2:24 pm, Poster #051
- Alopecia areata reversal by il-7ra blockade via upregulation of the pd-1 signaling pathway.** Zhenpeng Dai, Jane Cerise, L. Petukhova, Raphael Clynes and Angela M. Christiano. New York, NY. 2:36 pm, Poster #042
- Langerhans cells suppress autoimmune effector T cell responses in vitiligo by promoting the proper positioning of T regulatory cells.** Kingsley Essien, Jillian Richmond, Mehdi Rashighi and John E. Harris. Worcester, MA. 2:48 pm, Poster #066
- HO-1 regulates the function of Treg: Association with aberrant tolerogenic immunity in vitiligo.** Qian Zhang, Tianwen Gao, Chunying Li and Zhe Jian. Xi'an, China. 3:00 pm, Poster #041
- VGLL3 is a key regulator of gender biased transcriptome changes and may explain female bias in lupus and other autoimmune diseases.** Yun Liang, Lam C. Tsoi, Xianying Xing, Mrinal K. Sarkar, John J. Voorhees, Paul W. Harms, Joanne M. Kahlenberg and Johann E. Gudjonsson. Ann Arbor, MI. 3:12 pm, Poster #062
- Signaling through the P2X7 receptor for ATP induces an acute psoriasis-like inflammatory response.** Meaghan Killeen, Laura K. Ferris, Louis Falo and Alicia R. Mathers. Pittsburgh, PA. 3:24 pm, Poster #052
- IL-23/IL-17 blockade in chronic psoriasiform mice improves thrombosis and decreases splenic neutrophils and skin NF-κB.** Yumeng Li, Jackelyn B. Golden, Yunmei Wang, Daniel I. Simon, Thomas S. McCormick and Nicole L. Ward. Cleveland, OH. 3:36 pm, Poster #053
- Soluble tumor necrosis factor receptor 1 released by skin-derived mesenchymal stem cells is critical for inhibiting Th17 cell differentiation.** Fang Ke, Lingyun Zhang, Zhaoyuan Liu, Sha Yan, Zhenyao Xu, Jing Bai, Huiyuan Zhu, Fangzhou Lou, Wei Cai, Yang Sun, Yuanyuan Gao, Hong Wang and Honglin Wang. Shanghai, China. 3:48 pm, Poster #036
- Early onset pediatric atopic dermatitis skin phenotype is Th2, but also Th17-polarized.** Hitokazu Esaki, Patrick M. Brunner, Tali Czarnowicki, Giselle Rodriguez, Supriya Immaneni, Yael Renert-Yuval, Mayte Suarez-Farinas, James G. Krueger, Amy S. Paller and E. Guttman-Yassky. New York, NY and Chicago, IL. 4:00 pm, Poster #039
- Multicytokine-producing tissue resident memory (T_{RM}) cells in atopic dermatitis patient.** Seo Hyeong Kim, Chang Ook Park, Jung U. Shin, Ji Yeon Noh, Hye Ran Kim, Ji Hye Kim, Hemin Lee, Jung Soo Lee, Thomas S. Kupper and Kwang Hoon Lee. Seoul, Korea and Boston, MA. 4:12 pm, Poster #049

Immediately following this session, a 30 minute mixer will be held. Presenters, moderators and attendees will be able to interact as they enjoy light refreshments and snacks. These mixers are designed to encourage informal discussion, mingling and networking among SID meeting attendees.



CONCURRENT MINI-SYMPOSIUM 7: *Genetic Disease, Gene Regulation and Gene Therapy*

Studies on cutaneous gene expression and genetic diseases; preclinical and clinical studies in gene therapy

Friday, May 13, 2016

2:00 pm – 4:30 pm

Trailblazers D & E

Presiders: Keith Choate, MD/PhD and Alain Hovnanian, MD/PhD

1. **A simple, efficient non-viral gene therapy for recessive dystrophic epidermolysis bullosa.** Lara Cutlar, Dezhong Zhou, Xuejun Hu, Blanca Duarte, Fernando Larcher and Wenxin Wang. Dublin, Ireland and Madrid, Spain. 2:00 pm, Poster #398
2. **CRISPR/Cas9-based genetic correction for recessive dystrophic epidermolysis bullosa (RDEB).** Mark J. Osborn, Beau Webber, Amber McElroy, Anthony Defeo, Dharmeshkumar Patel, Christopher Lees, Ron T. McElmurry, Megan J. Riddle, Bruce Blazar and Jakub Tolar. Minneapolis, MN. 2:12 pm, Poster #371
3. **Epigenetic regulation of alopecia areata.** Eddy Hsi Chun Wang, Catherine Do, Benjamin Tycko and Angela M. Christiano. New York, NY. 2:24 pm, Poster #409
4. **Disease severity and cutaneous inflammation in ichthyosis are linked to Th17 pathway activation.** Amy S. Paller, Mayte Suarez-Farinas, Yael Renert-Yuval, Margeaux Oliva, Thy Huynh, Hitokazu Esaki, Maria Suprun, Rivka Friedland, Robalee Wanderman, James G. Krueger, Keith Choate and E Guttman-Yassky. Chicago, IL; New York, NY and New Haven, CT. 2:36 pm, Poster #395
5. **A novel polyalanine frameshift mutation in KRT10 causes ichthyosis with confetti.** Young H. Lim, Corey Saraceni and Keith Choate. New Haven, CT. 2:48 pm, Poster #392
6. **A novel erythrokeratoderma-cardiomyopathy syndrome is caused by dominant, clustered mutations in desmoplakin.** Lynn M. Boyden, Chen Y. Kam, Angela Hernández-Martín, Jing Zhou, Brittany G. Craiglow, Leonard M. Milstone, Ronghua Hu, Peter M. Elias, Kathleen J. Green and Keith A. Choate. New Haven, CT; Chicago, IL; Madrid, Spain and San Francisco, CA. 3:00 pm, Poster #383
7. **Postzygotic mutations in the actin gene ACTB causes Becker's nevus and Becker's nevus syndrome.** Emily Cai, Kerri Rieger, Anna Rogers, Laura Bernet, Joyce Teng, Bryan Sun, Jean Tang, Alex Lee, Micah Fry, Flora Ting, Grace Wang and Kavita Sarin. Stanford, CA and Oakland, CA. 3:12 pm, Poster #406
8. **Mutation in SASH1 causes human skin hyperpigmentation.** Karoline Lambert, Donald Backos, David A. Norris, Richard Spritz, Kristin Artinger, Theresa Pacheco and Yiqun Shellman. Aurora, CO. 3:24 pm, Poster #407
9. **Large scale meta-analysis characterizes genetic architecture for common psoriasis-associated variants.** Lam C. Tsoi, Philip Stuart, Chao Tian, Johann E. Gudjonsson, David Hinds, Rajan Nair, Goncalo Abecasis and James Elder. Ann Arbor, MI and Mountain View, CA. 3:36 pm, Poster #358
10. **A new form of ectodermal dysplasia caused by mutations in TSPEAR.** Alon Peled, O Sarig, L Samuelov, M Bertolini, L Ziv, D Weissglas-Volkov, M Eskin-Schwartz, C Adase, N Malchin, R Bochner, G Fainberg, K Sugawara, A Baniel, D Tsuruta, C Luxemburg, N Adir, I Goldberg, R Gallo, N Shomron, R Paus and E Sprecher. Tel Aviv, Israel; San Diego, CA; Münster, Germany; Ramat Gan, Israel; Osaka, Japan; Haifa, Israel; Ashland, MA and Manchester, United Kingdom. 3:48 pm, Poster #414
11. **Highly efficient RNA based reprogramming of a small number of human primary fibroblasts.** Ganna Bilousova, Igor Kogut, Sandra M. Ortega, Maryna V. Pavlova, David P. Astling, Kenneth Jones and Dennis R. Roop. Aurora, CO. 4:00 pm, Poster #415
12. **Defining the targets of a microRNA: miR-31 regulates STK40 and LATS2 in keratinocyte.** Thomas Andl and Yu Zhengquan. Orlando, FL and Beijing, China. 4:12 pm, Poster #408

Immediately following this session, a 30 minute mixer will be held. Presenters, moderators and attendees will be able to interact as they enjoy light refreshments and snacks. These mixers are designed to encourage informal discussion, mingling and networking among SID meeting attendees.



CONCURRENT MINI-SYMPOSIUM 8:

Clinical Research II: Pathophysiology and Therapeutics

Includes translational human tissue and human cell-based work that furthers our understanding of human skin disease; prospective clinical trials; clinical studies aimed at testing therapeutics

Friday, May 13, 2016

2:00 pm – 4:30 pm

Kierland 4

Presiders: Anna Di Nardo, MD/PhD and Jean Tang, MD/PhD

- An open label pilot clinical trial of the JAK inhibitor tofacitinib for alopecia areata.** Ali Jabbari, Jane Cerise, James C. Chen, Grace Ulerio, Julissa Borbon, Shawn Sidharthan, Raphael Clynes, Angela M. Christiano and Julian Mackay-Wiggan. New York, NY. 2:00 pm, Poster #277
- Chemoprevention of basal and squamous cell carcinoma with a single course of 5-fluorouracil 5% cream.** Martin A. Weinstock, Kimberly Marcolivio, Soe Soe Thwin and VAKCC Trial Group. Providence, RI and Boston, MA. 2:12 pm, Poster #252
- Topical 5-fluorouracil and calcipotriol combination: A potent immunotherapeutic for actinic keratosis.** Trevor Cunningham, Sara Moradi Tuchayi, Mary Tabacchi, Sindhu Manivasagam, Hengameh Mirzaalian, Ahu Turkoz, Raphael Kopan, Andras Schaffer, Michael Wallendorf, Lynn Cornelius and Shadmehr Demehri. Boston, MA and St. Louis, MO. 2:24 pm, Poster #222
- Single course of 5-fluorouracil treatment prevents new actinic keratoses for 6 to 12 months.** Joanna L. Walker, Julia A. Siegel, Moniyka Sacha¹, Abrar A. Qureshi, Suephy C. Chen, Susan M. Swetter, Robert Dellavalle, George Stricklin and Martin A. Weinstock. Providence, RI; Atlanta, GA; Palo Alto, CA; Denver, CO and Nashville, TN. 2:36 pm, Poster #257
- Skin engraftment and type VII collagen (C7) expression after allogeneic hematopoietic cell transplantation (HCT) for generalized severe recessive dystrophic epidermolysis bullosa (RDEB).** Jakub Tolar, J. A. McGrath, Mark J. Osborn, Douglas Keene, Kristen Hook, Maria K. Hordinsky, Peter Marinkovich, David Woodley, Mei Chen, Alain Hovnanian, Katsuto Tamai, Bruce Blazar and John A. Wagner. Minneapolis, MN; London, United Kingdom; Portland, OR; Stanford, CA; Los Angeles, CA; Paris, France and Suita, Japan. 2:48 pm, Poster #263
- Recipient skin resident memory T cells can induce GvHD-like dermatitis in human engrafted mice.** Tiago R. Matos, Kolyvan F. Lima, Ahmed Gehad, Christopher P. Elco, Elizabeth L. Lowry, Jessica Teague, Sherrie Divito, Thomas S. Kupper and Rachael Clark. Boston, MA. 3:00 pm, Poster #229
- Doxycycline modified release (MR) capsules improve rosacea clinical outcomes by modifying antimicrobial peptide metabolism: Results of a multicenter, randomized, double blind, placebo controlled study of 170 adults with papulopustular rosacea.** Anna Di Nardo, Anna Holmes, Yumiko Muto, Eugene Huang, Norman Preston, Warren Winkelman and Richard L. Gallo. Fort Worth, TX; La Jolla, CA and San Diego, CA. 3:12 pm, Poster #281
- Preferential expression of CD134, HHV-6 cellular receptor, on CD4 T cells in drug-induced hypersensitivity syndrome/ drug reaction with eosinophilia and systemic symptoms.** Fumi Miyagawa, Yuki Nakamura and Hideo Asada. Kashiwara, Japan. 3:24 pm, Poster #246
- Malignant T cell plasticity in cutaneous T cell lymphoma.** John T. O'Malley, Elizabeth L. Lowry, Jessica Teague, Christopher P. Elco, Ilan R. Kirsch, Harlan Robins, David C. Fisher, Thomas S. Kupper and Rachael Clark. Boston, MA and Seattle, WA. 3:36 pm, Poster #237
- Pilot trial to evaluate the effect of vitamin D on melanocyte biomarkers.** Eric Anderson, Melika Rezaee, Irene Bailey-Healy, Kavita Sari and Jean Tang. Stanford, CA. 3:48 pm, Poster #265
- MEK is a therapeutic and chemopreventative target in squamous cell carcinoma.** Charles Adelman, Andrew South, Charlotte Proby, Irene Leigh, Cristian Coarfa, Elsa Flores and Kenneth Y. Tsai. Houston, TX; Dundee, Scotland and Philadelphia, PA. 4:00 pm, Poster #239
- PDL1 and CD8 expression in basal cell carcinoma correlates with response to Hedgehog inhibitor therapy.** Julia Chang, Gefei A. Zhu, Shufeng Li, J. Kim and Anne Lynn S. Chang. Stanford, CA. 4:12 pm, Poster #250

Immediately following this session, a 30 minute mixer will be held. Presenters, moderators and attendees will be able to interact as they enjoy light refreshments and snacks. These mixers are designed to encourage informal discussion, mingling and networking among SID meeting attendees.



CONCURRENT MINI-SYMPOSIUM 9:

Growth Factors, Cell Adhesion and Matrix Biology

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

Friday, May 13, 2016

2:00 pm – 4:30 pm

Rainmakers

Presiders: Thomas Andl, PhD and Spiro Getsios, PhD

- Dsg2 increases exosome release and enhances EGFR/c-Src content: A mechanism for an intercellular mitogenic effect.** Andrew M. Overmiller, Jennifer Pierluissi, Peter Wermuth, Ubaldo Martinez-Outschoorn, Joseph Curry, Andrew South and My G. Mahoney. Philadelphia, PA. 2:00 pm, Poster #422
- Tissue polarization of mechano-adhesive signals, cytoskeleton and EGFR signaling controls skin barrier formation.** Matthias Ruebsam, Aaron Mertz, Gladiola Goranci, Valerie Horsley, Eric Dufresne, Wolfgang Ziegler, Akiharu Kubo, Masayuki Amagai and Carlen M. Niessen. Cologne, Germany; New Haven, CT; Hannover, Germany and Tokyo, Japan. 2:12 pm, Poster #430
- α E integrin contributes to the pathological dermal fibrosis in a bleomycin-treated murine model of systemic sclerosis via the activation of retinoic acid pathway.** Shunsuke Miura, Yoshihide Asano, Ryosuke Saigusa, Takashi Yamashita, Takashi Taniguchi, Takehiro Takahashi, Yohei Ichimura, Tetsuo Toyama, Ayumi Yoshizaki, Takafumi Kadono and Shinichi Sato. Tokyo, Japan. 2:24 pm, Poster #437
- Laminin-511 is a new player in the development of psoriasis and controlled via cannabinoid receptor type 1.** Koji Sugawara, Aki Natsumi, Makiko Yasumizu, Yukari Mizukami, Ayano Yonamine, Ralf Paus and Daisuke Tsuruta. Osaka, Japan; Manchester, United Kingdom and Munster, Germany. 2:36 pm, Poster #438
- Mast cells survival and maturation in human skin are regulated and maintained by sensory nerve fibers.** Jérémy Chéret, Leslie Ponce, Christelle Le Gall-Hanotto, Laurent Misery, Marta Bertolini and Ralf Paus. Münster, Germany; Brest, France and Manchester, United Kingdom. 2:48 pm, Poster #425
- Topical application of anti-cancer drug Bortezomib stimulates proliferation of follicular cells and induces expression of hair keratins via GATA-3 transcription factor.** Gleb Baida, Aussara Panya, Alex Yemelyanov, Pankaj Bhalla, Melissa Brown, Pa-thai Yenchitsomanus and Irina Budunova. Chicago, IL and Bangkok, Thailand. 3:00 pm, Poster #440
- Glucocorticoids and rapamycin upregulate desmoglein 3 transcription by inhibiting the mTOR/Stat3 axis.** X. Mao, MJ Cho, Eric Mukherjee, CT Ellebrecht and AS Payne. Philadelphia, PA. 3:12 pm, Poster #434
- The intracellular domain of amphiregulin localizes to the nucleus and rescues growth inhibition in response to EGF receptor blockade.** Stefan W. Stoll, Philip Stuart, Sylviane Lambert and James T. Elder. Ann Arbor, MI. 3:24 pm, Poster #423
- RPGRIP1L facilitates desmosomal adhesion through suppressing PKC β II-mediated desmoglein endocytosis: Implication in pemphigus.** Yeun Ja Choi, Li Li, Ning Yang, Xuming Mao, Kenneth R. Shroyer, Peter J. Koch, Yusuf A. Hannun, Richard A. Clark, Aimee S. Payne and Jiang Chen. Stony Brook, NY; Beijing, China; Philadelphia, PA and Aurora, CO. 3:36 pm, Poster #441
- Nanoscale molecular organization of the desmosome as revealed by super-resolution microscopy.** Sara N. Stahley, Emily I. Bartle, Claire E. Atkinson, Andrew P. Kowalczyk and Alexa L. Mattheyses. Atlanta, GA and Chicago, IL. 3:48 pm, Poster #429
- Discovery of an alternate, flotillin-dependent, clathrin-mediated endocytosis pathway for IGF-1 receptor internalization and signaling in keratinocytes.** Duncan Hieu M. Dam, Sophia Jelsma and Amy S. Paller. Chicago, IL. 4:00 pm, Poster #445
- A novel function for JNK in regulating desmosome assembly and adhesion.** Ning Li, Moonhee Park, Zhi Liu and Luis A. Diaz. Chapel Hill, NC. 4:12 pm, Poster #428

Immediately following this session, a 30 minute mixer will be held. Presenters, moderators and attendees will be able to interact as they enjoy light refreshments and snacks. These mixers are designed to encourage informal discussion, mingling and networking among SID meeting attendees.



CONCURRENT MINI-SYMPOSIUM 10:

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

Friday, May 13, 2016

2:00 pm – 4:30 pm

Trailblazers C

Presiders: Elizabeth Grice, PhD and Peggy Myung, MD/PhD

1. **The integrin α v-TGF β signaling axis is necessary for keratinocyte proliferation during cutaneous wound healing.** Elizabeth Duperret, Christopher Natale, Ankit Dahal and Todd W. Ridky. Philadelphia, PA. 2:00 pm, Poster #716
2. **The contribution of pre-existing adipocytes to skin wound healing.** Brett Shook and Valerie Horsley. New Haven, CT. 2:12 pm, Poster #748
3. **β 2 integrin-dependent activation of NOX2 oxidase in wound macrophages is required for physiological wound healing.** Andrea Kuegler, Susanne Schatz, Seppe Vander Beeken, Dongsheng Jiang, Angelika Rück, Bruno De Geest, Phillip Hawkins, Karin Scharffetter-Kochanek and Sindilaru Anc. Ulm, Germany; Ghent, Belgium and Cambridge, United Kingdom. 2:24 pm, Poster #736
4. **Mesenchymal stem cells-derived MFG-E8 accelerates cutaneous wound healing in diabetic mice model.** Akihiko Uchiyama, Osamu Ishikawa and Sei-ichiro Motegi. Maebashi, Japan. 2:36 pm, Poster #715
5. **Regulatory T cells impair cutaneous wound healing in diabetic mice.** Danielle M. Tartar, Michelle So, Michelle D. Bagood, Natasha Pineiro, Hsinya Yang, Marianne Chigbrow, Athena Soulika, William Murphy and Rivkah Isseroff. Sacramento, CA. 2:48 pm, Poster #710
6. **Differentiation of sensory neurons from human induced pluripotent stem cells.** Zongyou Guo, Chi-Kun Tong, Hasan E. Abaci, Ellen A. Lumpkin and Angela M. Christiano. New York, NY. 3:00 pm, Poster #746
7. **Adipocyte stem cells are maintained by Pdgfra signaling in the skin.** Guillermo Rivera Gonzalez, Brett Shook, Brandon Holtrup, Matthew Rodeheffer and Valerie Horsley. New Haven, CT. 3:12 pm, Poster #743
8. **Biomechanical forces modulate epithelial competence and regeneration patterning during wound-induced hair neogenesis.** Hans I-Chen Harn, Po-Yuan Chiu, Hung-Yang Chen, Edward Lin, Chia-Ching Wu, Ming-Jer Tang, Cheng-Ming Chuong and Michael Hughes. Tainan, Taiwan; Los Angeles, CA and Taichung, Taiwan. 3:24 pm, Poster #749
9. **Augmentation of HGF signaling: Potential for enhancing hair follicle neogenesis and development in bioengineered skin.** Rajesh Thangapazham, Ognoon Mungunsukh, Gauthaman Sukumar, Clifton Dalgard, Matthew Wilkerson, Regina Day and Thomas Darling. Bethesda, MD. 3:36 pm, Poster #742
10. **Role of Sdf1-Cxcr4 signaling in mouse appendage regeneration.** Thomas H. Leung and Seung Kim. Philadelphia, PA and Stanford, CA. 3:48 pm, Poster #744
11. **In vivo mechanisms by which a bioengineered living cell construct stimulates healing of chronic ulcers: Activation, inflammation and remodeling.** Rivka C. Stone, Olivera Stojadinovic, Ashley M. Rosa, Andrew Sawaya, Horacio Ramirez, Evangelos V. Badiava¹, Miroslav Blumenberg and Marjana Tomic-Canic. Miami, FL and New York, NY. 4:00 pm, Poster #752
12. **Vitamin D protection against acute UV damage – A critical role of autophagy in the skin.** Lopa M. Das, Jeffrey F. Scott and Kurt Q. Lu. Cleveland, OH. 4:12 pm, Poster #740

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CONCURRENT MINI-SYMPOSIUM 11:

Interdisciplinary Spotlight: Immunomodulation

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

Friday, May 13, 2016

2:00 pm – 4:30 pm

Kierland 1, 2, 3

Presiders: Isaac Brownell, MD/PhD and Kevin Cooper, MD

1. **Effect of Prostaglandin D₂ on hair follicle growth and its impact on hair follicle stem/progenitor cells.** Ying Zheng, Jen-Chih Hsieh, Heather Rosengard, A. Nace, Gang Ma, Mikhail Geyfman, Serge Lichtsteiner, Ken Washenik and George Cotsarelis. Philadelphia, PA and Los Angeles, CA. 2:00 pm, Poster #699
2. **Gene expression signatures and ALADIN score correlates with response of alopecia areata patients to treatment with JAK inhibitors.** Ali Jabbari, Jane Cerise, James C. Chen, Grace Ulerio, Shawn Sidharthan, Julissa Borbon, Julian Mackay-Wiggan, Raphael Clynes and Angela M. Christiano. New York, NY. 2:12 pm, Poster #546
3. **Extensive alopecia areata is reversed by IL-12/23p40 cytokine antagonism.** Emma Guttman-Yassky, Benjamin Ungar, Shinji Noda, Maria Suprun, Anjali Shroff, Riana Dutt, Saakshi Khattri, Michelle Min, Yasaman Mansouri, Xiuzhong Zheng, Yeriel D. Estrada, Giselle K. Singer, Mayte Suarez-Farinas, James G. Krueger and Mark G. Lebwohl. New York, NY. 2:24 pm, Poster #294
4. **Precision medicine in psoriasis: Machine learning and proteomics join forces to develop a blood-based test to predict response to tofacitinib or Etanercept in psoriasis patients.** Jaehwan Kim, Joel Correa-da Rosa, Julie Lee, Lewis Tomalin, Michelle A. Lowes, Lori Fitz, Gabriel Berstein, Hernan Valdez, Robert Wolk, James G. Krueger and Mayte Suarez-Farinas. New York, NY and Cambridge, MA. 2:36 pm, Poster #545
5. **The iRHOM2-ADAM17 axis as a driver of epidermal hyperproliferation and inflammation.** Matthew A. Brooke, Benjamin Fel and David Kelsell. London, United Kingdom. 2:48 pm, Poster #432
6. **Pooled analyses of two phase II trials of Brentuximab vedotin in patients with Mycosis Fungoides (MF) and Sézary Syndrome (SS).** Ziba Rahbar, Rakhshandra Talpur, Shufeng Li, M. Duvic and YH. Kim. Stanford, CA and Houston, TX. 3:00 pm, Poster #243
7. **Mutational landscape of MCPyV-positive and MCPyV-negative Merkel cell carcinomas with implications for immunotherapy.** Trent Walradt, Vladimir Makarov, Ryan Doumani, Nadeem Riaz, Krista Stafstrom, Ata Moshiri, Lola Yelistratova, Jonathan Levinsohn, Timothy Chan, Paul Nghiem, Richard Lifton and Jaehyuk Choi. Chicago, IL; New Haven, CT; New York, NY and Seattle, WA. 3:12 pm, Poster #080
8. **OX40/OX40L and 4-1BB/4-1BBL signaling in cutaneous anti-tumoral immunity.** Glenn Geidel, Marcus Maurer, Thomas Luger and Karin Lose. Muenster, Germany and Berlin, Germany. 3:24 pm, Poster #649
9. **Suppressor of cytokine signaling 2 directs early tumor-immune escape of skin cancer.** Mayte Suarez-Farinas, Yong Liu, Taegyun Kim, David Chau, Melika Rezaee, Hans Widlund, Nicholas Gulati, Kavita Sarin, James G. Krueger and Niroshana Anandasabapathy. New York, NY; Boston, MA and Stanford, CA. 3:36 pm, Poster #032
10. **Use of an MCL-1 inhibitor to overcome melanoma's resistance to current therapy.** Nabanita Mukherjee, Yan Lu, Adam Almeida, Karoline Lambert, Chung-Wai Shiao, Jung-Chen Su, Mayumi Fujita, Yuchun Luo, William A. Robinson, Steven Robinson, David A. Norris and Yiqun Shellman. Aurora, CO. 3:48 pm, Poster #659
11. **Stat1-dependent senescence is necessary for cancer control during immunotherapy.** Ellen Brenner, Barbara Schörg, Thomas Wieder, Heidi Braumüller, Manfred Kneilling, Jürgen Bauer, Kamran Ghoreschi, A. Yazdi and M. Röcken. Tübingen, Germany. 4:00 pm, Poster #068
12. **Polycytotoxic T cells protect against intracellular infection.** Samuel J. Balin, Steffen Stenger, Matteo Pellegrini, Maria Ochoa, Mirjam Schenk and Robert Modlin. Ulm, Germany and Los Angeles, CA. 4:12 pm, Poster #010

Immediately following this session, a 30 minute mixer will be held. Presenters, moderators and attendees will be able to interact as they enjoy light refreshments and snacks. These mixers are designed to encourage informal discussion, mingling and networking among SID meeting attendees.



National Eczema Association



Friday, May 13, 2016

6:00 pm – 7:00 pm

Mapmakers A & B

Join the National Eczema Association at our 2016 SID Cocktail Reception to learn about exciting advances in this new era of patient care!

Speakers:

Amy Paller, MD

Northwestern University

NEA Scientific Advisory Committee

Eric L. Simpson, MD, MCR

Oregon Health & Science University

Co-Chair, NEA Scientific Advisory Committee

Julie Block

President & CEO

National Eczema Association

Please join us for great conversation, drinks, and light hors d'oeuvres - and to learn about NEA's new direction.



North American Hair Research Society Scientific Meeting



Friday, May 13, 2016

6:00 pm – 8:30 pm

Kierland 4

6:00 pm Poster Viewing & Reception

1. **A common acute myeloid leukemia-associated DNMT3A mutation, when expressed ubiquitously in mice, causes reversible alopecia.** David Chen, A Verdoni and T Ley. *Abstract Final ID #680.*
2. **Ablation of alkaline phosphatase in human dermal papilla spheroid impairs hair follicle induction.** M Kwack, M Kim, J Kim and Young Sung. *Abstract Final ID #705*
3. **Effect of lithocholic acid as a ligand of vitamin D receptor on hair growth in alopecia.** Soyoung Kim, S Ryu, CA Armstrong, B Kim and Peter I Song. *Abstract Final ID #698*
4. **Hairpatches (Tal1Hpt): A novel mouse model for cicatricial alopecia due to formation of abortive hair follicle-like structures in adults.** CS Potter, C. Herbert Pratt, J Cook, V Philip and JP Sundberg. *Abstract Final ID #411*
5. **Induced expression of gasdermin A3 in the skin caused keratinocyte necrosis and anagen delay in the hair cycle.** H Lin, P Lin and Liang-Tung Yang. *Abstract Final ID #396*
6. **Correlation between frequency of circulating lesional T cell clones and disease severity in human Alopecia Areata.** A de Jong, L Xing, A Jabbari, Z Dai, Dustin Lee, VH Price, M Duvic, DA Norris, MK Hordinsky, J Mackay-Wiggan, R Clynes and AM Christiano. *Abstract Final ID #006*
7. **Topical curcumin promotes induction of the murine hair cycle.** E Wang, Aakash V Patel, S Harel, Z Dai and AM Christiano. *Abstract Final ID #691*
8. **An underlying mechanism of hair loss in acrodermatitis enteropathica.** Yuuichi Ogawa, T Kawamura and S Shimada. *Abstract Final ID #676*
9. **UVB irradiation with anti-CD154 antibody prolonged the survival of hair follicle allografts in humanized mice.** Jin Yong Kim, J Yoon, B Kang, H Park, H Wi, K Jung, S Jo, K Kim and O Kwon. *Abstract Final ID #686*
10. **First indications that peri-follicular macrophages contribute to the regulation of catagen initiation and progression in the murine hair follicle.** Jonathan A Hardman, D Pena-Jimenez, M Perez-Morena and R Paus. *Abstract Final ID #684*
11. **Topical gabapentin for the treatment of symptomatic scalp in cicatricial alopecias.** Erin M Dodd, E Hurliman, G Wendelschafer-Crabb, D Miller, W Kennedy and MK Hordinsky. *Abstract Final ID #292*
12. **Growth hormone-induced signaling as a novel, intrafollicular neuroendocrine control of human hair growth.** Diana Below, M Alam, R Clayton, J Chéret, M Bertolini and R Paus. *Abstract Final ID #670*



North American Hair Research
Society Scientific Meeting (continued)



Friday, May 13, 2016 6:00 pm – 8:30 pm Kierland 4

Continued from previous page.

- 6:45 pm Keynote Speaker**
Dynamic control of quiescence and self-renewal in hair follicle stem cells and their niche
Rui Yi, PhD
Associate Professor, Department of Molecular, Cellular, and Developmental Biology,
University of Colorado, Boulder
- 7:15 pm Oral Presentations**
12 minutes for presentation + 3 minutes for Q&A and change of speaker
1. **7:15 pm**
The gut microbiome is required for the development of alopecia areata.
James C. Chen, Z Dai, A Abdelaziz, Ivanov, and AM Christiano. *Abstract Final ID #470*
2. **7:30 pm**
Epidermal dysplasia and hair defects in the disheveled hair and ears (LmnaDhe) mouse.
C. Herbert Pratt, J Cook and JP Sundberg. *Abstract Final ID #413*
3. **7:45 pm**
Regulatory natural killer cells in alopecia areata.
Zhenpeng Dai, J Cerise, A de Jong, R Clynes and AM Christiano. *Abstract Final ID #043*
- 8:00 pm NAHRS Business Meeting**

Visit www.nahrs.org for more information
about the NAHRS and membership!





National Psoriasis Foundation Reception at SID

Friday, May 13, 2016

6:00 pm – 8:00 pm

Pathfinders A

Join us on Friday the 13th for this opportunity to network and learn about NPF's research grants and fellowships, patient engagement in research, and membership opportunities.

Hosted bar and light hors d'oeuvres will be provided



SATO JAPAN Scientific Forum at SID 2016



Friday, May 13, 2016

6:00 pm – 9:30 pm

Tribal A & B

Current Situation of Patch Testing in USA

**Dr. Curt Hamann, MD**

Medical Director- Contact Dermatitis Institute
Phoenix, Arizona

Appropriate diagnosis and management of persistent eczematous conditions such as contact dermatitis are common challenges for the dermatologist. The prevalence of contact dermatitis in the general U.S. population has been variably estimated between 1.5% and 5.4%. Contact dermatitis is the third most common reason for patients to seek consultation with a dermatologist, accounting for 9.2 million visits in 2004. It also accounts for 95% of all reported occupational skin diseases.

Contact dermatitis is an acute or chronic immunologic (allergic) or non-immunologic (irritant) inflammation of the skin usually caused by contact with chemicals but occasionally by biologic or physical agents. Of the more than 85,000 chemicals in our environment, many can be irritants and more than 4,350 have been identified as contact allergens. The potential for these substances to cause contact dermatitis varies greatly, and the severity of the dermatitis or eczema, the most common clinical expression, ranges from a mild, short-lived condition to a severe, persistent, job-threatening disease.

This presentation will cover the following:

- Who is patch testing in America?
- Who is not patch testing in America and why?
- Top allergens in the US
- Top irritants in the US
- Products available in the US for patch testing
- Atopic patients and patch testing

Chair: Prof. Masayuki Amagai (Keio University)



NOTES

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Saturday Sessions

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74	William Montagna Lecture
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76	Clinical Scholars Program Session II
77	Concurrent Mini-Symposium 12: Innate Immunity, Inflammation, and Microbiology
78	Concurrent Mini-Symposium 13: Pigmentation and Melanoma
79	Concurrent Mini-Symposium 14: Pharmacology and Drug Development
80	Concurrent Mini-Symposium 15: Skin and Hair Developmental Biology



**SAVE
THE
DATE**



76TH ANNUAL MEETING
PORTLAND
O R E G O N
APRIL 26-29, 2017
Hilton Portland & Executive Tower

**SOCIETY FOR
INVESTIGATIVE
DERMATOLOGY**





Meeting-At-A-Glance

SATURDAY, MAY 14, 2016

SID Board of Directors Meeting	7:00 am – 7:45 am Mapmakers
Registration	7:30 am – 12:00 pm Hall of State
Plenary Session III	8:00 am – 9:00 am Kierland Ballroom
William Montagna Lecture <i>Targeted Tumor Therapy and the Race Against Resistance</i> Anthony Oro, MD/PhD	9:00 am – 9:30 am Kierland Ballroom
Julius Stone Lecture <i>Cytokine Signaling: From Genomic Switches to New Drugs</i> John O'Shea, MD	9:30 am – 10:00 am Kierland Ballroom
Clinical Scholars Program Session II <i>The Tumor Microenvironment and Skin Cancer</i>	10:00 am – 12:00 pm Kierland Ballroom
Poster Session II/Coffee Break Even Poster #'S 002-754 / LB #'s 756-824	10:00 am – 12:00 pm Herberger Ballroom
Concurrent Mini-Symposia 12. Innate Immunity, Inflammation, and Microbiology 13. Pigmentation and Melanoma 14. Pharmacology and Drug Development 15. Skin and Hair Developmental Biology	12:30 pm – 3:00 pm Kierland 4 Trailblazers D & E Trailblazers C Trailblazers A & B

PLENARY SESSION III

Presiders: Nicole L. Ward, PhD and Victoria Werth, MD

Saturday, May 14, 2016

8:00 am – 9:00 am

Kierland Ballroom

1. **Establishment of an autologous microbiome transplant in atopic dermatitis targeting *Staphylococcus aureus*.** Teruaki Nakatsuji, Saisindhu Narala, Tiffany H. Chen, Kimberly A. Chun, Tissa Hata and Richard L. Gallo. San Diego, CA. 8:00 am, Poster #273
2. **Trends in emergency department visits for herpes zoster from 2006-2012.** Erica Dommasch, Cara Joyce and Arash Mostaghimi. Boston, MA; Deerfield, IL and Chicago, IL. 8:12 am, Poster #158
3. **The AHR-p27 axis modulates DNA damage responses in UV-irradiated keratinocytes *in vitro* and *in vivo*.** Siraz Shaik, Marius Pollet, Jean Krutmann and Thomas Haarmann-Stemmann. Düsseldorf, Germany. 8:24 am, Poster #570
4. **Small non-coding snoRNAs control Ras superfamily GTPases in stem cell differentiation and cancer.** Brian Zarnegar, Eon Rios, Zurab Siprashvili and Paul A. Khavari. Stanford, CA and Palo Alto, CA. 8:36 am, Poster #095
5. **Cell shape determines the regulatory mechanisms for maintaining tight junction barrier homeostasis in epidermal turnover.** Mariko Yokouchi, Toru Atsugi, Mayumi Kajimura, Makoto Suematsu, Mikio Furuse, Masayuki Amagai and Akiharu Kubo. Toyko, Japan and Okazaki, Japan. 8:48 am Poster # 344



WILLIAM MONTAGNA LECTURE

Targeted Tumor Therapy and the Race Against Resistance

Saturday, May 14, 2016

9:00 am – 9:30 am

Kierland Ballroom

Introduction by:

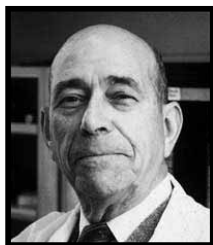
Sarah Millar, PhD



Anthony Oro, MD/PhD

Stanford University School of Medicine
Palo Alto, CA

As a practicing Dermatologist, Anthony Oro, MD/PhD, has focused for the last 18 years on determinants of epithelial development, morphogenesis, and tumorigenesis using the skin as a model system. He has studied early embryonic development in *Drosophila*, focusing on the function of orphan nuclear receptors in pattern formation. As a post doc and now PI, he has studied the role of the hedgehog signalling pathway in skin and hair stem cell biology, hair stem cell regulation and patterning, and epithelial-mesenchymal regulation.



LECTURESHIP HISTORY

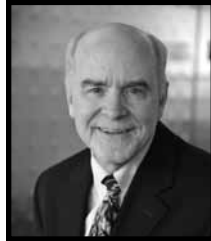
The William Montagna Lecture is given annually at the Society's Annual Meeting. This award is intended to honor and reward young active investigators. Primary emphasis is given to researchers in skin biology.



JULIUS STONE LECTURE

Cytokine Signaling: From Genomic Switches to New Drugs

Saturday, May 14, 2016**9:30 am – 10:00 am****Kierland Ballroom**

Introduction by:**Sam Hwang, MD/PhD****John O'Shea, MD**

National Institutes of Health
Bethesda, MD

Dr. O'Shea graduated Phi Beta Kappa with a Bachelor of Science degree from St. Lawrence University, and received a Doctor of Medicine degree from the University of Cincinnati. He then served as an intern and resident in Internal Medicine at the State University of New York Upstate Medical University in Syracuse, NY. He came to the National Institutes of Health (NIH) in 1981 for subspecialty training in Allergy and Immunology in the National Institute of Allergy and Infectious Diseases. He did additional postdoctoral work in the Cell Biology and Metabolism Branch in the National Institute of Child Health and Human Development. Dr. O'Shea is board certified in Internal Medicine and Allergy and Immunology. Dr. O'Shea is one of the co-founders of the NIH/Oxford/Cambridge program in Biomedical Science, is a member of NIH-UPENN Immunology Program, and has served as a Howard Hughes Medical Institute Scholars Advisor.

**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.



CLINICAL SCHOLARS PROGRAM-SESSION II

The Tumor Microenvironment and Skin Cancer

Saturday, May 14, 2016

10:00 am – 12:00 pm

Kierland Ballroom

10:00 AM

**INTRODUCTION****Maryam Asgari, MD/MPH**

Dr. Asgari, MD/MPH, is a board-certified dermatologist, epidemiologist, and Mohs Micrographic surgeon. She received her bachelor's degree from Stanford University; her MD from Yale University School of Medicine, followed by an internship at Beth Israel Deaconess Medical Center, and a residency at the University of Washington Seattle, Division of Dermatology. Next, she completed a fellowship in Mohs Micrographic Surgery at the University of Texas Southwestern Medical Center, Dallas, Texas. For the past ten years, Dr. Asgari has been a research investigator and attending physician at Kaiser Permanente in Walnut Creek, CA. Dr. Asgari received President Obama's Award for Volunteerism for her work to improve healthcare, especially to patient populations in underserved areas.

10:05 am

**Kenneth Tsai, MD/PhD/FAAD*****Cutaneous Squamous Cell Carcinoma: Insights from Genomics***

Kenneth. Y. Tsai, MD/PhD/FAAD, is an Associate Professor of Dermatology and Translational Molecular Pathology at the University of Texas MD Anderson Cancer Center. He is a dermatologist and dermatopathologist with a primary research interest in cutaneous squamous cell carcinoma (SCC). He will join the Moffitt Cancer Center, Tampa, FL this fall as an Associate Member and the Section Head of Non-Melanoma Skin Cancer within the Center of Excellence in Melanoma and Skin Cancer.

10:35 am

Characterization of the tumor immune microenvironment in anal squamous cell carcinomas from HIV(+) versus HIV(-) patients. G. Kaunitz, S.L. Topalian, T. Cottrell, J. Esandrio, J.M. Taub, E.L. Yanik, E.A. Engels. *Poster #241*. Presented by Genevieve Kaunitz.

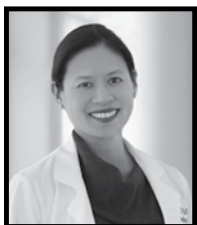
10:50 am

Defining gene expression profiles for subtypes of high risk squamous cell carcinoma (SCC) using RNA from formalin fixed paraffin embedded specimens (FFPEs). N. Roudiani, M. Abikhair, A. Santana, J. Carucci. *Poster #152*. Presented by John Carucci.

11:05 am

Q & A

11:10 am

**Delphine Lee, MD*****Insights to survival from the study of metastatic melanoma at the site of the tumor***

Dr. Delphine J. Lee is the Director of the Dermatological Center for Skin Health at Providence Saint John's Health Center and director of the Carolyn Dirks and Brett Dougherty Laboratory for Cancer Research in the Department of Translational Immunology at John Wayne Cancer Institute. Her Department's research combines bioinformatic approaches to analyze "omics" data combined with classical immunologic and molecular studies to investigate immunologic mechanisms relevant to a broad spectrum of solid malignancies, including breast cancer, melanoma, brain and gastrointestinal cancers. Dr. Lee's clinical practice focuses on complex medical dermatology, skin cancer and melanoma.

11:40 am

Soluble DC-HIL receptor from melanoma promotes metastasis by creating local immuno suppression at perivascular regions in lung. V. Ramani, T. Teshima, J. Chung, K. Arizumi. *Poster #620*. Presented by Kiyoshi Arizumi.

11:55 am

Q & A

CONCURRENT MINI-SYMPOSIUM 12:

Innate Immunity, Inflammation and Microbiology

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

Saturday, May 14, 2016

12:30 pm – 3:00 pm

Kierland 4

Presiders: Anna Di Nardo, MD/PhD and Heidi Kong, MD

1. **Early pediatric atopic dermatitis is a T-cell driven disease accompanied by a secondary B-cell activation.** Tali Czarnowicki, Hitokazu Esaki, Patrick M. Brunner, Juana Gonzalez, Sreya Talasila, Adam Berry, Jayla Gray, James G. Krueger, E Guttman-Yassky and Amy S. Paller. New York, NY and Chicago, IL. 12:30 pm, Poster #466
2. ***Staphylococcus aureus* exploits barrier defects in atopic dermatitis to trigger skin inflammation.** Teruaki Nakatsuji, Aimee M. Two, Kimberly A. Chun, Tiffany H. Chen, Raif S. Geha, Tissa Hata and Richard L. Gallo. San Diego, CA and Boston, MA. 12:42 pm, Poster #484
3. **Trim32 deficiency enhances Th2 immunity and predisposes to features of atopic dermatitis.** Zhiping Wang, Rachel De La Torre, Ashley Barling, Eric L. Simpson, Emily Swanzey, Yun Wang, Aaron Wortham, Hao Ding, Yuangang Liu and Molly Kulesz-Martin. Portland, OR and Winnepeg, MB, Canada. 12:54 pm, Poster #480
4. **The molecular mechanism for IL-4 down-regulation of loricrin expression in atopic dermatitis is through sequestration of the coactivator CBP in the Jak-Stat6 pathway.** Lei Bao, Girish C. Mohan, Jaime B. Alexander, Caroline Doo, Kui Shen and Lawrence S. Chan. Chicago, IL. 1:06 pm, Poster #495
5. ***In situ* mapping of innate lymphoid cells in normal and inflamed human skin.** Marie-Charlotte Brüggen, Wolfgang Bauer, Bärbel Reininger, Eduard Clim, Catalin Captarencu, Barbara Meier, Patrick M. Brunner, Lars French and Georg Stingl. Zurich, Switzerland; Vienna, Austria; New York, NY and Iasi, Romania. 1:18 pm, Poster #449
6. **Identification of the MAVS signaling pathway as a driver of epidermal interferon beta production in psoriasis and wound repair.** Lingjuan Zhang, George Sen, Yifang Chen, Nicole L. Ward, Andrew Johnston, Yi Fritz, Jaymie Baliwag, Kimberly A. Chun, Michael R. Williams, Tissa Hata and Richard L. Gallo. La Jolla, CA; Ann Arbor, MI and Cleveland, OH. 1:30 pm, Poster #469
7. **Proinflammatory effect of HMGB1 on keratinocytes: An autocrine mechanism underlying psoriasis development.** Weigang Zhang, Sen Guo, Rui Ge and Chunying Li. Xi'an, China. 1:42 pm, Poster #463
8. **Autocrine IFN- κ maintains baseline type I interferon responses in keratinocytes in a Tyk2 dependent manner.** Mrinal K. Sarkar, Lam C. Tsoi, Xianying Xing, Yun Liang, John J. Voorhees, Paul W. Harms, Jasmine Stannard, Stefan W. Stoll, James Elder, Andrew Johnston, Spiro Getsios, Joanne M. Kahlenberg and Johann E. Gudjonsson. Ann Arbor, MI and Chicago, IL. 1:54 pm, Poster #465
9. **TRPV4 allows for mast cell activation in cathelicidin-mediated rosacea inflammation.** S. Nicholas Mascarenhas, Zhenping Wang and Anna Di Nardo. La Jolla, CA. 2:06 pm, Poster #505
10. **Healthy human skin harbours a resident T cell subset with rapid, innate-like responsiveness: A new perspective on tissue immune-surveillance.** Richard Woolf, Oliver Nussbaumer and Adrian Hayda. London, United Kingdom. 2:18 pm, Poster #464
11. **An IL-1 α producing dermal macrophage enhances adaptive immunity to a broad group of tumors in skin.** Tian Tian, Serena Loftus, Sherrie Divito, Youdong Pan, Jake Marglous, Robert Fuhlbrigge and Thomas S. Kupper. Boston, MA. 2:30 pm, Poster #473
12. **Ablation of DLX3 in adult murine keratinocytes lead to deregulation of cell cycle and infiltration of IL-17 producing leukocytes.** Shreya Bhattacharya, Jinchul Kim, Gaku Nakato, Youichi Ogawa, Mark Udey and Maria I. Morasso. Bethesda, MD. 2:42 pm, Poster #477



CONCURRENT MINI-SYMPOSIUM 13:

Pigmentation and Melanoma

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

Saturday, May 14, 2016

12:30 pm – 3:00 pm

Trailblazers D & E

Presiders: Craig Ceol, PhD and Akinori Kawakami, MD/PhD

1. **Phenformin targets the stem cell compartment in melanoma.** Katiuscia Dallaglio, Alessandra Romagnani, Tiziana Petrachi, Giulia Grisendi, Massimo Dominici, Caterina Longo, Giuseppe Argenziano, Simonetta Piana, Adriana Albini and Alessia Ciarrocchi. Reggio Emilia, Italy and Milan, Italy. 12:30 pm, Poster #660
2. **CD271 downregulation promotes melanoma invasion in multicellular tumor spheroids and in a zebrafish melanoma model.** Marika Quadri, Annalisa Saltari, Francesca Truzzi, Roberta Lotti, Elisabetta Palazzo, Alessandra Marconi and Carlo Pincelli. Reggio Emilia, Italy. 12:42 pm, Poster #628
3. **miRNA processing enzyme regulates melanoma formation and growth.** Goran Micevic, Katrina Meeth, Nicholas Theodosakis, Alessandra Ventura, Xiaoni Liu and Marcus Bosenberg. New Haven, CT. 12:54 pm, Poster #637
4. **Down-regulated mir-23a contributes to invasion and metastasis of cutaneous melanoma by promoting autophagy.** Qiong Shi, Huina Wang, Weinan Guo, Yuqi Yang, Weigang Zhang, Sen Guo, Tao Zhao, Lin Liu, Zhe Jian, Qi Luan, Ling Liu, Gang Wang, Tianwen Gao and Chunying Li. Xi'an, China. 1:06 pm, Poster #621
5. **MicroRNA-7 reverses the resistance to BRAF inhibitor in melanoma by targeting EGFR/IGF-1R/CRAF and inhibiting the MAPK and PI3K/AKT signaling pathways.** Jun Li, Xiaoyan Sun and Juan Tao. Wuhan, China. 1:18 pm, Poster #634
6. **Cell cycle phase-specific drug resistance as an escape mechanism of melanoma cells.** Kimberley Beaumont, David Hill, Sheena Daignault, Danae Sharp, Brian Gabrielli, Wolfgang Weninger and Nikolas Haas. Sydney, Australia; Brisbane, Australia and Newcastle upon Tyne, United Kingdom. 1:30 pm, Poster #654
7. **Alpha-1 antitrypsin suppresses melanoma growth by upregulating melanocyte differentiation antigens and enhancing T cell cytotoxicity.** David R. Pearson, Yuchun Luo, Zili Zhai, Kasey L. Coutts, Tania Azam, Charles A. Dinarello and Mayumi Fujita. Aurora, CO and Denver, CO. 1:42 pm, Poster #611
8. **UV-induced somatic mutations elicit a functional T cell response and tumor regression in BRAF^{V600E}, CDKN2A^{-/-}, PTEN^{-/-} melanoma model.** Jake Wang, Katrina Meeth, Curtis Perry, Alessandra Ventura, Susan Kaeck, Richard Edelson and Marcus Bosenber. New Haven, CT. 1:54 pm, Poster #616
9. **Handheld dual-modality ultrasound and photoacoustic imaging for *in vivo* determination of melanoma depth.** Shivani V. Tripathi, Yong Zhou, Gerry P. Linette, Ilana S. Rosman, M.Laurin Council, Ryan C. Fields, Lihong V. Wang and Lynn Cornelius. St. Louis, MO. 2:06 pm, Poster #603
10. **PIKFYVE regulates the maturation of the melanosome.** Marc C. Liggins, Jessica Flesher, Smanpreet Sandhu, Raymond Boissy and Anand Ganesan. Irvine, CA and Cincinnati, OH. 2:18 pm, Poster #663
11. **Vasoactive intestinal peptide (VIP) regulates human melanocyte biology and hair follicle pigmentation.** Marta Bertolini, Marcel Bähr, Mathias Sulk, Leslie Ponce, Jonathan A. Hardman, Tamás Bíró, Desmond Tobin and Ralf Paus. Münster, Germany; Lübeck, Germany; Manchester, United Kingdom; Debrecen, Hungary and Bradford, United Kingdom. 2:30 pm, Poster #664
12. **The pH sensor soluble adenylyl cyclase regulates melanogenesis.** Dalee Zhou, Ruth Halaban, Antonella Bacchiocchi, Charlee Nardin and Jonathan H. Zippin. New York, NY and New Haven, CT. 2:42 pm, Poster #606



CONCURRENT MINI-SYMPOSIUM 14:

Pharmacology and Drug Development

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

Saturday, May 14, 2016 12:30 pm – 3:00 pm Trailblazers C

Presiders: Sherrie DiVito, MD/PhD and David Rubenstein, MD/PhD

1. ***In vitro* and *in vivo* efficacy of nitric oxide-releasing antiviral therapeutic agents.** Kimberly A. McHale, K Balogh, Hsu-Kun Wang, Stan Hollenbach, Neil Christensen, Louise Chow, Thomas Broker and Nathan Stasko. Durham, NC; Hershey, PA and Birmingham, AL. 12:30 pm, Poster #536
2. **The topical OTC antimicrobial zinc pyrithione (ZnPT) suppresses tumorigenic progression in a SKH-1 mouse model of solar UV-induced skin carcinogenesis.** Rebecca Justiniano, Christopher M. Cabello, Carol Seanez, Mohammad Fazel and Georg T. Wondrak. Tucson, AZ. 12:42 pm, Poster #550
3. **Repurposing a clinical antimalarial for the therapeutic induction of lethal ER stress targeting BRAF-kinase inhibitor-resistant malignant melanoma.** Sophia L. Park, Tamara Steinfass, Anh Hua and Georg T. Wondrak. Tucson, AZ. 12:54 pm, Poster #554
4. **DRM01, a novel, topical sebum inhibitor for the treatment of acne.** Juliette Masure, David Bonnel, Jonathan Stauber, David Hunt and Hans E. Hofland. Loos, France and Menlo Park, CA. 1:06 pm, Poster #528
5. **Improvement of erlotinib-induced itch and skin toxicity with aprepitant: Cross-talk between NK1R and EGFR in human keratinocyte HaCaT cells.** Shawn G. Kwatra, Cory Nanni, Callie Roberts and Madan Kwatra. Baltimore, MD and Durham, NC. 1:18 pm, Poster #532
6. **EGR1 as a molecular target for the treatment of skin inflammatory disease.** Ofer Sarig, Levi Fried, Lee Megal, Aviad Keren, Dan Vodo, Dov Hershkovitz, Jouni Uitto, Amos Gilhar and Eli Sprecher. Tel Aviv, Israel; Haifa, Israel and Philadelphia, PA. 1:30 pm, Poster #541
7. **Simvastatin protects melanocytes from oxidative against oxidative stress via Nrf2 signaling in vitiligo.** Yuqian Chang, S. Li, Tianwen Gao and Chunying Li. Xi'an, China. 1:42 pm, Poster #520
8. **Topical application of chitosan-based nanoformulated green tea polyphenol EGCG ameliorates imiquimod-induced psoriasis-like skin lesion in mice.** Jean Christopher Chamcheu, Imtiaz Siddiqui, Vaqar Adhami, Shah-Johan Dodwad, Dhruva Bharali, G.S. Wood, Shaker Mousa and Hasan Mukhtar. Madison, WI. 1: 54 pm, Poster #537
9. **ENAC inhibition as a therapy for psoriasis.** Marten C. Winge, Mazen Nasrallah, Ngon T. Nguyen, Mohammed Inayathullah, Jayakumar Rajadas, Atul Butte and Peter Marinkovich. Stanford, CA and San Francisco, CA. 2:06 pm, Poster #529
10. **Th1/Th17/Th22 cytokine and cell-driven paracrine signaling networks in a 3-D organotypic human skin model with relevance to psoriasis.** Ariel Finkelshtein, Heath McDonald, Paul Hoover, Prisca Honore, Amy S. Paller, Victoria E. Scott and Spiro Getsios. Chicago, IL. 2:18 pm, Poster #535
11. **Dual inhibition of PI3K/Akt and mTOR by delphinidin ameliorates imiquimod-induced psoriasis-like lesions in mice.** Jean Christopher Chamcheu, Vaqar Adhami, Maria Ines Chaves-Rodriguez, B. Jack Longley and Hasan Mukhtar. Madison, WI. 2:30 pm, Poster #542
12. **A model to evaluate intra-patient differential effects of topical agents in atopic dermatitis.** E. Guttman-Yassky, Mayte Suarez-Farinas, B. Ungar, M. Oliva, Maria Suprun, Dan Todd, T. Labuda and Robert Bissonnette. New York, NY; Ballerup, Denmark and Montreal, QB, Canada. 2:42 pm, Poster #544



CONCURRENT MINI-SYMPOSIUM 15:

Skin and Hair Developmental Biology

Studies on the hair follicle, sebaceous gland, and other skin appendages; developmental biology of skin and hair; the roles of stem cells in normal development and postnatal growth

Saturday, May 14, 2016

12:30 pm – 3:00 pm

Trailblazers A & B

Presiders: Bruce Morgan, PhD and Michael Rendl, MD

1. **Histone Deacetylase 3 coordinates protein and lipid synthesis to establish a functional epidermal barrier.** Fang Liu, Sarah E. Millar, Matthew LeBoeuf and Mitch Laza. Philadelphia, PA. 12:30 pm, Poster #673
2. **Chromatin remodeler Lymphoid-specific helicase (Lsh) is a critical determinant controlling postnatal epidermal growth, differentiation and response to injury.** Ahmar Aziz, Tatyana Sharova, Anna Klimova, Byungwoo Ryu, Kathrin Muegge, Vladimir Botchkarev and Andrey Sharov. Boston, MA; Frederick, MD and Bradford, United Kingdom. 12:42 pm, Poster #707
3. **Dissecting the roles of Polycomb repressive complex 2 in the control of skin development.** Katherine Dauber, Carolina Perdigoto, Victor J. Valdes, Francis J. Santoriello, Idan Cohen and Elena Ezhkova. New York, NY. 12:54 pm, Poster #674
4. **Polycomb-ediated repression and Sonic hedgehog signaling regulate Merkel cell specification.** Elena Ezhkova, Carolina Perdigoto and Katherine Dauber. New York, NY. 1:06 pm, Poster #708
5. **Engrailed-1 promotes eccrine sweat gland development in permissive environments.** Bruce Morgan and Yana Kamberov. Boston, MA. 1:18 pm, Poster #706
6. **Foxc1 ablated mice are anhidrotic and recapitulate features of a sweat retention syndrome, miliaria.** Chang-Yi Cui, Marc Michel, Yulan Piao, Tsutomu Kume and David Schlessinger. Baltimore, MD and Chicago, IL. 1:30 pm, Poster #682
7. **BMP signaling in the hair follicle stem cell niche regulates hair growth and skin pigmentation.** Jamien Lim, Delia Quek, Jonathan Tan and Carlos Clavel. Singapore, Singapore. 1:42 pm, Poster #687
8. **Signaling networks between stem cell precursors, transit amplifying progenitors, and their niche in developing hair follicles.** Amelie Rezza, Zichen Wang, Rachel Sennett, Wenlian Qiao, Dongmei Wang, Nicholas Heitman, Ka wai Mok, Carlos Clavel, Rui Yi, Peter Zandstra, Avi Ma'ayan and Michael Rendl. New York, NY; Toronto, ON, Canada and Boulder, CO. 1:54 pm, Poster #701
9. **Dermal papilla-derived Wnt ligands are required for adult hair follicle growth.** Linli Zhou, Yongguang Yang, Thomas Andl, Richard Lang and Yuhang Zhang. Cincinnati, OH and Orlando, FL. 2:06 pm, Poster #693
10. **dsRNA induces ectopic KRT9 expression via WNT/ β -catenin-mediated signaling.** Dongwon Kim, M. Zulfiquer Hossain, Sydney Resnik, Ruosi Chen, Parker Dubee, Christina Sierra, Janis M. Taube, Sewon Kang and Luis Garza. Baltimore, MD. 2:18 pm, Poster #702
11. **Oncostatin M is upstream of JAK-STAT signaling during the murine hair cycle.** Etienne Wang and Angela M. Christiano. New York, NY. 2:30 pm, Poster #700
12. **Synthetic developmental tissue engineering of human hair follicles.** Hasan E. Abaci, Etienne Wang, Zongyou Guo, Abigail Coffman, James C. Chen and Angela M. Christiano. New York, NY. 2:42 pm, Poster #709



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