MEETING PROGRAM
SCOTTSDALE, ARIZONA
MAY 11-14, 2016
WESTIN KIERLAND RESORT & SPA
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!

Mark C. Udey, MD/PhD        Alice P. Pentland, MD        Richard L. Gallo, MD/PhD
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76th 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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SID 75TH ANNUAL MEETING 2

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Stephen Rothman Memorial Award Recipients
Presented for distinguished service to investigative cutaneous medicine.
1967 Marion Sutzbeger
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 BraunFalco
1987 Walter Shelley
1988 John Strauss
1989 Walter Lobitz, Jr.
1990 Walter Lever
1991 Robert Goitz
1992 Irwin Freedberg
1993 Arthur Eisen
1994 Ruth Freinkel
1995 Howard Baden
1996 Irma Gigli
1997 Stephen Katz
1998 Paul Bergstresser
1999 Donald Goldsmith
2000 Richard Dobson
2001 Robert Briggaman
2002 Eugene Bauer
2003 Georg Stingl
2004 Stuart Yuspia
2005 John Voorhees
2006 Thomas Lawley
2007 Barbara Gilchrest
2008 Luis Diaz
2010 Dennis Roop
2011 John Stanley
2012 Paul Bergstresser
2014 Jouni Utito
2015 Ervin H. Epstein
SID Governance

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 Petponen
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

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 Parke
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 Uttro
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 Gilchrest
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 Cristiano
2010 W. H. Irwin McLean
2011 John McGrath
2012 Howard Chang
2013 Andzej 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 Buettnner-Janusch
1969 Henry Kunkel
1970 Norman Wessells
1971 Aiden Brednach
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 Rudalle
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 Philppa Marrock
2000 Robert Langer
2001 William Haseltine
2002 Ronald DePinho
2003 Thomas Jessell
2004 Robert Weinberg
2005 Timothy Ley
2006 Armita Sehgal
2007 Stuart Schreiber
2008 Daniel Kastner
2009 Raymond Schinazi
2010 Jennifer Lippincot-Schwartz
2012 Mina Bissell
2013 Allan Balmain
2014 Hopi Hokestra
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
2004 Edmund Lee
2005 Curdin Conrad
2006 Helen Young
2007 Amos Gilhar
2008 Ronald de Pinho
2009 Lisa Barlow
2010 James Krueger
2011 Kevin Cooper
2012 Frank Nestle
2014 Joel Gelfand
2015 Christopher E. M. Griffiths

Julius Stone Lectureship
This lecture is intended to promote the advancement of knowledge in immunology as it relates to the skin and skin disease.
1975 Eli Gilboa
1976 Stephen Johnston
1977 Jeffrey Trent
1978 Brian Bridges
1979 Nigel Bunnett
2000 Ronald Crystal
2001 Ralph Steinman
2002 Roland Martin
2004 Frank Ruddle
2005 David Katz
2006 Carol Greaves
2007 C. David Allman
2008 Susan Gallo
2009 Peter Walter
2010 David Baltimore
2011 Stephen Buikema
2012 Robert Modlin
2013 Robert Modlin
2015 Kathleen J. Green

SID/Galderma Acne Research Award
This award is presented at the Annual Meeting to an investigator whose work is relevant to expanding our insights into the pathophysiology and treatment of acne.
2006 Jason S. Paller
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

SID/Galderma Rosacea Research Award
2009 Kenishi Yamasaki

SID 75TH ANNUAL MEETING 4
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:

What’s New at the SID Annual Meeting

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.
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.

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.

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.

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.
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:
Alice P. Pentland, MD
Chair, Department of Dermatology
University of Rochester

SUMMARY OF FACULTY DISCLOSURE/CONFLICT RESOLUTION
Staff and Content Validation
Reviewer Disclosure
The staff involved with this activity and any content validation reviewers of this activity have reported no relevant financial relationships with commercial interests.

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

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

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

INSTRUCTIONS ON HOW TO RECEIVE CREDIT
In order to receive CME credit, participants must sign-in, review the CME information (accreditation, learning objectives, faculty disclosures, etc.) and attend the CME activity. Participants should also complete the activity evaluation form and return it to the appropriate representative following the CME activity. Participants should also complete the activity evaluation form and return it to the Society for Investigative Dermatology via fax to 216.579.9333, scan to minnillo@sidnet.org or mail to:

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

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

AMA CREDIT STATEMENT
The University of Rochester School of Medicine and Dentistry designates this live activity for a maximum of 27.5 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
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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*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: Allyn, Promus, Senere, Novartis, Skyll Medical, Roche
Emma Gutfman-Vassy, MD, PhD, Grant/Research Support: LEO Pharmaceuticals, Celigne, Dermira, Janssen Biotech, Novartis, BMS, Regeneron: Consultant: AbbVie, Amgen, Anacor, AnaplyxBio, Celius Therapeutics, Drais, Galderma, Genmab, Medimmune, Pfizer, Sanofi, GlaxoSmithKline, Vifor, Mitsubishi Tanabe, Eli Lilly, Other Financial or Material Support: Genentech, Merck Pharmaceuticals
*Planning Committee / Speaker Declarations
Hans Hofland, PhD, Other Financial or Material Support: Employee and Shareholder: Dermira, Inc.
*Sam Hwang, MD/PhD, Grant/Research Support: Novartis, Consultant: AbbVie
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*Planning committee members
### TUESDAY, MAY 10, 2016

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td><strong>Resident Retreat</strong></td>
<td>By Invitation Only</td>
<td>Trailblazers A &amp; B</td>
</tr>
<tr>
<td>Registration &amp; Informal Networking</td>
<td>12:00 pm – 1:00 pm</td>
<td>Trailblazers A &amp; B</td>
</tr>
<tr>
<td>Program Session</td>
<td>1:00 pm – 6:15 pm</td>
<td>Kierland 1A</td>
</tr>
<tr>
<td><strong>PhD Retreat</strong></td>
<td>By Invitation Only</td>
<td>Trailblazers A &amp; B</td>
</tr>
<tr>
<td>Registration &amp; Informal Networking</td>
<td>12:00 pm – 1:00 pm</td>
<td>Trailblazers A &amp; B</td>
</tr>
<tr>
<td>Program Session</td>
<td>1:00 pm – 5:00 pm</td>
<td>Trailblazers A &amp; B</td>
</tr>
<tr>
<td>Breakout Session</td>
<td>5:00 pm – 6:15 pm</td>
<td>Kierland 1B</td>
</tr>
<tr>
<td><strong>Resident/PhD Retreat</strong></td>
<td>By Invitation Only</td>
<td>Trailblazers A &amp; B</td>
</tr>
<tr>
<td>Welcome Dinner</td>
<td>6:15 pm – 7:15 pm</td>
<td>Kierland 1C</td>
</tr>
<tr>
<td><strong>Resident/PhD Networking</strong></td>
<td>By Invitation Only</td>
<td>Hall of State Foyer</td>
</tr>
<tr>
<td>Reception</td>
<td>7:15 pm – 8:30 pm</td>
<td>Hall of State Foyer</td>
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### WEDNESDAY, MAY 11, 2016

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td><strong>Resident Retreat</strong></td>
<td>7:30 am – 12:00 pm</td>
<td>Trailblazers A &amp; B</td>
</tr>
<tr>
<td>By Invitation Only</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PhD Retreat</strong></td>
<td>By invitation Only</td>
<td>Trailblazers A &amp; B</td>
</tr>
<tr>
<td>Trailblazers A &amp; B</td>
<td>7:30 am – 9:00 am</td>
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<tr>
<td>Trailblazers D &amp; E</td>
<td>9:00 am – 10:00 am</td>
<td></td>
</tr>
<tr>
<td>Trailblazers A &amp; B</td>
<td>10:15 am – 12:00 am</td>
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</tr>
<tr>
<td><strong>SID Board of Directors Meeting</strong></td>
<td>8:00 am – 2:00 pm</td>
<td>Kierland 1C</td>
</tr>
<tr>
<td><strong>Registration</strong></td>
<td>8:00 am – 6:30 pm</td>
<td>Hall of State</td>
</tr>
<tr>
<td><strong>Translational Science Symposium</strong></td>
<td>12:00 pm – 3:00 pm</td>
<td>Kierland Ballroom</td>
</tr>
<tr>
<td><strong>Irvin H. Blank Forum</strong></td>
<td>3:00 pm – 5:00 PM</td>
<td>Kierland Ballroom</td>
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<tr>
<td>Fibroblast Biology</td>
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</tr>
<tr>
<td><strong>State-of-the-Art Plenary Lecture I</strong></td>
<td>5:00 pm – 5:30 pm</td>
<td>Kierland Ballroom</td>
</tr>
<tr>
<td>Hair Follicles as Regulators of Immune Homeostasis</td>
<td></td>
<td>Kierland Ballroom</td>
</tr>
<tr>
<td>Keisuke Nagao, MD/PhD</td>
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<tr>
<td><strong>State-of-the-Art Plenary Lecture II</strong></td>
<td>5:30 pm – 6:00 pm</td>
<td>Kierland Ballroom</td>
</tr>
<tr>
<td>Mesenchymal Control of Hair Follicle Formation, Growth, and Regeneration</td>
<td></td>
<td>Kierland Ballroom</td>
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<tr>
<td>Michael Rendi, MD</td>
<td></td>
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<tr>
<td><strong>President’s Welcome</strong></td>
<td>6:00 pm – 6:15 pm</td>
<td>Kierland Ballroom</td>
</tr>
<tr>
<td>Mark C. Udey, MD/PhD</td>
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<tr>
<td><strong>Kligman/Frost Leadership Lecture</strong></td>
<td>6:15 pm – 6:45 pm</td>
<td>Kierland Ballroom</td>
</tr>
<tr>
<td>Evo-Devo of the Skin: A Bird’s Eye View Cheng-Ming Chuong, MD/PhD</td>
<td></td>
<td>Kierland Ballroom</td>
</tr>
<tr>
<td><strong>Welcome Reception</strong></td>
<td>7:00 pm – 8:30 pm</td>
<td>Marshall’s Outpost Lawn/Pavilion</td>
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### THURSDAY, MAY 12, 2016

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
</tr>
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<tbody>
<tr>
<td><strong>Plenary Session I</strong></td>
<td>8:00 am – 9:00 am</td>
<td>Kierland Ballroom</td>
</tr>
<tr>
<td><strong>Eugene M. Farber Lecture</strong></td>
<td>9:00 am – 9:30 am</td>
<td>Kierland Ballroom</td>
</tr>
<tr>
<td>Modelling Mayhem-What Transgenic Mice Can Teach us about Psoriasis</td>
<td></td>
<td>Kierland Ballroom</td>
</tr>
<tr>
<td>Pathogenesis</td>
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<tr>
<td>Nicole Ward, PhD</td>
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<tr>
<td><strong>Naomi M. Kanof Lecture</strong></td>
<td>9:30 am – 10:00 am</td>
<td>Kierland Ballroom</td>
</tr>
<tr>
<td>Progress in Immune-Mediated Control of Malignant Disease</td>
<td></td>
<td>Kierland Ballroom</td>
</tr>
<tr>
<td>Roger Perlmutter, MD/PhD</td>
<td></td>
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</tr>
<tr>
<td><strong>Come See My Poster I</strong></td>
<td>10:00 am – 10:15 am</td>
<td>Kierland Ballroom</td>
</tr>
<tr>
<td>Poster #’s 677, 713, 589, 255, 485, 075, 483, 343, 471,625, 741, 037</td>
<td></td>
<td>Kierland Ballroom</td>
</tr>
<tr>
<td><strong>Clinical Scholars Program Session I</strong></td>
<td>10:15 am – 12:00 pm</td>
<td>Kierland Ballroom</td>
</tr>
<tr>
<td>Tissue Regeneration &amp; Wound Healing</td>
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<tr>
<td><strong>Satellite Symposium</strong></td>
<td>12:00 pm – 1:45 pm</td>
<td>Kierland 4</td>
</tr>
<tr>
<td>Academic-Industry Partnership Project (AIIPP) Panel Discussion</td>
<td></td>
<td>Kierland 4</td>
</tr>
<tr>
<td>Preparing for Interactions with Industry</td>
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<tr>
<td><strong>Concurrent Mini-Symposia</strong></td>
<td>2:00 pm – 4:30 pm</td>
<td>Kierland 4</td>
</tr>
<tr>
<td>1. Adaptive Immunity and Vaccination</td>
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<tr>
<td>Trailblazers A &amp; B</td>
<td></td>
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<tr>
<td>2. Carcinogenesis/Cancer Genetics</td>
<td></td>
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<tr>
<td>Trailblazers D &amp; E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Clinical Research I: Epidemiology and Patient Outcomes Research</td>
<td></td>
<td>Kierland 1, 2, 3</td>
</tr>
<tr>
<td>4. Photobiology</td>
<td></td>
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<tr>
<td>Trailblazers C</td>
<td></td>
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<tr>
<td>5. Epidermal Structure &amp; Barrier Function</td>
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<tr>
<td>Kierland 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mini-Symposia Mixers</strong></td>
<td>4:30 pm – 5:00 pm</td>
<td>Individual Concurrent Meeting Rooms</td>
</tr>
<tr>
<td><strong>Social Event</strong></td>
<td>6:00 pm – 10:00 pm</td>
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<tr>
<td>The Musical Instrument Museum</td>
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<tr>
<td>Ticketed Event: Pre-Registration Required</td>
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<tr>
<td>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.</td>
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</tbody>
</table>

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**2016 EDUCATIONAL TRACKS**

1. **YOUNG INVESTIGATOR/TRAINEE**
2. **INFLAMMATORY SKIN DISEASE**
3. **SKIN CANCER**
### Friday, May 13, 2016

**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**
Beyond the Sequence: Understanding the Genome in 3D  
Tom Misteli, PhD  
9:15 am - 9:45 am  
Kierland Ballroom

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

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

**State-of-the-Art Plenary Lecture IV**
Cutaneous Mosaicism: Clinical Presentations and Pathogenic Mechanisms  
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

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

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

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

7. Genetic Disease, Gene Regulation, 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

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

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### 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**
Targeted Tumor Therapy and the Race Against Resistance  
Anthony Oro, MD/PhD  
9:00 am - 9:30 am  
Kierland Ballroom

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

**Clinical Scholars Program Session II**
The Tumor Microenvironment and Skin Cancer  
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**
12:30 pm - 3:00 pm

12. Innate Immunity, Inflammation, and Microbiology  
Kierland 4

13. Pigmentation and Melanoma  
Trailblazers D & E

14. Pharmacology and Drug Development  
Trailblazers C

15. Skin and Hair Developmental Biology  
Trailblazers A & B
TUESDAY, MAY 10, 2016

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

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

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

WEDNESDAY, MAY 11, 2016

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

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

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

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

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 (SCL/CTCL)
Trailblazers C

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

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

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

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
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
- Danso 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
- Beattrice 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
- Huiyun Liu, PhD
- Alexander Marzuka, MD
- Jacquelyn Meisel, PhD
- Zachary Nahmias, MD
- Teruaki Nakatsui, PhD
- Leigh Nattkemper, PhD
- Kristian 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 Wilner, 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 Collegiality 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
- Katiucia Dallaglio, PhD
- Lopa Das, PhD
- Kingsley Essien
- Robert Feehan
- Alexander Fischer
- Renee Fruchter
- Emily Galan, MD
- Thomas Haarmann-Stemmann, PhD
- Songbum 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, BMdsC
- Marika Quadri, MSc
- Palak Shah, MB
- Rivka Stone, MD/PhD
- Eddy Hsi Chun Wang, PhD
- Richard Woolf, PhD
- Linii Zhou, PhD

#### 2016 SID PAUL BERGSTRESSER TRAVEL Awardees
- Hasan Abaci, PhD
- Kathleen Baysac, PhD
- Shreya Bhattacharya, PhD
- Emily Cai
- Linna Guan
- Dongwon Kim, PhD
- Joahwon Kim, MD/PhD
- Sherry Lee
- Thomas Leung, MD/PhD
- Yun Liang, PhD
- Vanessa Lopez-Pajares, PhD
- Nicholas Mascarenhas
- Gargi Patil
- Annelle 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
- Shivan Tripathi, MD
- Etienne Wang
- Ramon Whitson, PhD

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**SID 75TH ANNUAL MEETING**
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:

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>Wednesday, May 11, 2016</td>
<td>8:00 am – 6:30 pm</td>
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<tr>
<td>Thursday, May 12, 2016</td>
<td>7:30 am – 5:00 pm</td>
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<td>Friday, May 13, 2016</td>
<td>7:30 am – 4:00 pm</td>
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<tr>
<td>Saturday, May 14, 2016</td>
<td>7:30 am – 12:00 pm</td>
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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.gorllinsyndrome.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:

<table>
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<tr>
<th>Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>Thursday, May 12, 2016</td>
<td>10:00 am – 12:00 pm</td>
</tr>
<tr>
<td>Saturday, May 14, 2016</td>
<td>10:00 am – 12:00 pm</td>
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</tbody>
</table>

THE SID WELCOMES REPRESENTATIVES FROM THE FOLLOWING ORGANIZATIONS
- Castle Biosciences, Inc.
- Cytoo
- Elsevier
- Mattek
- Modulated Imaging
- Niams
- Zen Bio, Inc

COMMERCIAL 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 & Snowbowl at The Westin Kierland Resort & Spa.

https://www.surveymonkey.com/r/JDG2XG5
1. PARKE
2. SITGREAVES
3. WHIPPLE
4. PATHFINDERS
5. MAPMAKERS
6. TRIBAL
7. KIERLAND MINING CO.
8. TANGENT
9. FEDEX OFFICE™ BUSINESS CENTER
10. SCOTCH LIBRARY
11. COFFEE FLATS
12. TOONERVILLE 66 TRADING POST
13. CULTUREKEEPERS REGISTRATION
14. TRAILBLAZERS REGISTRATION
15. SOUTH ENTRANCE/BALLROOM ENTRANCE
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.

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>Wednesday, May 11</td>
<td>7:00 am – 8:00 pm</td>
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<tr>
<td>Thursday, May 12</td>
<td>7:00 am – 5:00 pm</td>
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<tr>
<td>Friday, May 13</td>
<td>7:00 am – 5:00 pm</td>
</tr>
<tr>
<td>Saturday, May 14</td>
<td>7:00 am – 2:00 pm</td>
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</tbody>
</table>

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

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)
Wednesday Sessions

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

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

ASSOCIATE GROUPS ARE LISTED IN BLUE.
International Pachyonychia Congenita
Consolidium 13th Annual Research Symposium

Wednesday, May 11, 2016

7:00 am – 8:30 am Breakfast Pathfinders
8:45 am – 12:30 pm Symposium Tribal

8:45 am Welcome
Session Chair: Eli Sprecher

9:00 am Peter Hein
Translational science and strategy: Grünenthal innovation

9:35 am Ruth Defrin
Initial report on PC pain study and clinical exam findings

10:00 am Alain Hovnanian
Topical sirolimus for Olmsted Syndrome

10:25 am BREAK

10:45 am Edel O’Toole
Proposed clinical trials for PC

11:10 am Ofir Artzi
Proposed clinical trial using botulinum toxin for PC and Laser assisted drug delivery

11:35 am Albert Bravo, C. David Hansen, Frances J.D. Smith
Nail removal as a PC treatment

12:10 pm International Pachyonychia Congenita Research Registry (IPCRR)
Ready! Set! Go!
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 dermatopepidemiologist, 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.

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 Subberger Fellow specializing in connective tissue diseases and, in particular, scleroderma.

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.

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.

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

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 Cristiano:  Alopecia areata as a 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?
          •  Are there any mouse model available that truly mimics one of the more common PCAs
             (LPP, FF, CDLE, folliculits 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 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.

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 alopecia. He showed that stem cells are destroyed in scarifying 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 Kanin 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 F. 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 1190 publications and numerous federal grants to support his research.

4:55 pm  WRAP-UP
Valerie Horsley, PhD
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
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.
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 feathers, 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 advancement 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 Would Repair and Regeneration of National Chung Kung University (WRR), and Integrative Evolutionary Galliform Genomics (EGG) 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.
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.
# Thursday Sessions

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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

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<td>Modelling Mayhem—What Transgenic Mice Can Teach us about Psoriasis Pathogenesis Nicole Ward, PhD</td>
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<td>Progress in Immune-Mediated Control of Malignant Disease</td>
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<td>Roger Perlmutter, MD/PhD</td>
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<td><strong>International Transplant Skin Cancer Collaborative (ITSCC)</strong></td>
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<td><strong>International Eczema Council</strong></td>
<td>12:00 pm – 1:30 pm</td>
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<td><strong>International Society for Cutaneous Lymphomas</strong></td>
<td>12:00 pm – 1:30 pm</td>
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<td>Cutaneous T-Cell Lymphoma Symposium (SCL/CTCL)</td>
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<td>Buses load from the Westin Kierland beginning at 5:30 pm.</td>
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<td>Buses will begin shuttling guests back to the hotel beginning at 8:00 pm.</td>
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**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.
PLENARY SESSION I
Presiders: Sam T. Hwang, MD/PhD and Sarah Millar, PhD

Thursday, May 12, 2016 8:00 am – 9:00 am  Kierland Ballroom


3. Cellular and molecular mechanisms during self-organization of mouse skin progenitor cells into reconstituted hairy skin. Mingxing Lei, Linus Schumacher, Yung-Chi Lai, Chao-Yuan Yeh, Philip Murray, Ping Wu, Ting-Xin Jiang, Ruth Baker, Wen-Tau Juan, Randall Widelitz, Li Yang and Cheng-Ming Chuong. Los Angeles, CA; Chongqing, China; Oxford, United Kingdom; Taichung, Taiwan and Dundee, United Kingdom. 8:24 am, Poster #747

4. Claudin-3 is expressed in sweat glands and prevents the leakage of sweat. Kosuke Yamaga, Hiroyuki Murota, Atsushi Tamura, Sachiko Tsukita and Ichiro Katayama. Osaka, Japan. 8:36 am, Poster #678

5. DDX6 maintains epidermal progenitor function through the mRNA degradation and translation pathways. George Sen and Ying Wang. La Jolla, CA. 8:48 am, Poster #683
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.

LECTURESHP 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
Presider: 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 #589

3. 5-Flourouracil decreases rates of persistent actinic keratoses. Monika Sachar, Julia A. Siegel, Joanna L. Walker, Suephy C. Chen, Susan M. Swetter, Robert Dellavalle, George Stricklin and Martin A. Weinstock. Providence, RI and Yokohama, Japan. 10:03 am, Poster #255


5. A requirement for slc15a4 in the establishment of psoriasiform inflammation. Alexis Griffith, Akiko Iwasaki, Matthew Hadiono, Rachel Davis and Daniel Popkin. Cleveland, OH. 10:05 am, Poster #625


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  Ardeshir Bayat, MD/PhD
Keloid disease: A challenging enigmatic disorder with unresolved links between exaggerated repair and quasi-neoplastic tendencies in the human skin
Dr. Ardeshir 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

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 Vicent 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

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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| 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. Lazarova.**  
(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. Chundydyal, 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.**  
**T. Win, J. Teague, EL. Lowry, H. Kwanuka, 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.Obersyn, 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 intrapatient, 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. Martín, 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.itscc.org](http://www.itscc.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

Abstract Presentations

12:10 pm  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**

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<td>12:00 pm</td>
<td>ISCL Announcements</td>
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<td>12:10 pm</td>
<td>Cutaneous Lymphoma Foundation’s Young Investigator’s Award</td>
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<tr>
<td>12:20 pm</td>
<td>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</td>
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<td>12:50 pm</td>
<td>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 #371</td>
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<tr>
<td>1:00 pm</td>
<td>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 Vlieyra, N LeBoeuf, P Devlin, TS Kupper and R Clark. Abstract Final ID #227</td>
</tr>
<tr>
<td>1:20-1:30</td>
<td>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</td>
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Visit [www.cutaneouslymphoma.org](http://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, Gyoheli Egawa, Tetsuya Honda and Kenji Kabashima. Kyoto, Japan. 2:00 pm, Poster #002

2. Identification and characterization of CD19^hiB 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, Xuilun 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 Lofts, Sherrie Divito, 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 Falo. 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 adaptive T effector immunity. Taeayun Kim, Yong Liu, Christopher Nirschli and Niroshana Anandasapathy. Boston, MA. 3:36 pm, Poster #019


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. Pau, 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 Spittle 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. Raman Whitten, Alex Lee, Nicole Urman, Jiang Li, Arman Mira, 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 ptc1 and ptc2 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. Kadlin, 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-Wei Chen and Sung-Jian Lin. Taipei, Taiwan. 3:12 pm, Poster #113

8. Autophagy regulates DNA repair and controls skin tumorigenesis. Lei Geng, Baozhong Zhao, Palak Shah, Ashley Sample, Seungwon Yang and Yu-Ying He. Chicago, IL. 3:24 pm, Poster #111


11. Rigosertib for the treatment of squamous cell carcinoma in recessive dystrophic epidermolysis bullosa. C Pourreyron, S. A. Watt, S. Wright, C. Gruber, M. Prisco, J. A. McGrath, J. E. Mellerio, J. Bauer and Andrew South. Dundee, United Kingdom; Saalburg, Austria; Philadelphia, PA and London, United Kingdom. 4:00 pm, Poster #097

12. Merkel cell polyomavirus small T antigen co-expressed with At3h1 drives development of intraepidermal MCC. Monique E. Verhoogen, Doris Mangelberger, Paul W. Harms, Dawn Wilbert, Julia Meireles, Thomas Saunders and Andrzej A. Dlugosz. Ann Arbor, MI. 4:12 pm, Poster #092

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 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


5. Epidemiological and mechanistic evidence that AHR signaling is involved in airborne particle-induced skin damage. Anke Huels, Andrea Vierkoeffer, 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, Zhengsheng Liu, Christopher Amos, Jeffrey Lee and Qingyi Wei. Durham, NC, Xi'an, China; Hanover, NH and Houston, TX. 3:00 pm, Poster #211


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


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 Brieva and Jonathan I. Silverberg. Chicago, IL. 4:12 pm, Poster #168

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 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 Geng, Seungwon Yang and Yu-Ying He. Chicago, IL.  2:00 pm, Poster #574

2. Hypoxia-inducible factor-1a protects from UVB-mediated skin damage and photoaging. Kevin Sondenheimer, Sonja Didovic, Marc Majora, Maren Schneider, Ingo Utte, 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. Sangbom Han, Seon-Pil Jin, Janghee Oh, Eun-young Seo, Chi-hyun Park, Hyun-Sun Yoon, Yei 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. Feetham and Lisa M. Shantz. Hershey, PA.  3:36 pm, Poster #571


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 Ansarudin, Elma Baron, Minh Lam and Carlos Crespo-Hernández. Cleveland, OH.  4:12 pm, Poster #593

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 5:  
Epidermal Structure and Barrier Function

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

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<td>Presiders: Cristina de Guzman Strong, PhD and Terry Lechler, PhD</td>
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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. Millstone and Christopher G. Bunick.** New Haven, CT. 2:12 pm, Poster #342


4. A novel desmosome-cop9 signalosome interaction: A role in epidermal differentiation and egfr neddylation. **Nicole L. Nagar, Jennifer L. Koetsier, Gillian Fritz, 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 (ITIH5) could be a novel key player in skin barrier formation. **Sebastian Huth, Ruth Heise, Claudia S. Vertter-Kauczok, Claudia Skazik, Yvonne Marquardt, Katharina Czaja, Edgar Dahl, Martin Levekis 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 Nr2f2/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

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.
### Friday Sessions

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<td>61</td>
<td>Concurrent Mini-Symposium 7: Genetic Disease, Gene Regulation and Gene Therapy</td>
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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

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<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td><strong>Pediatric Dermatology Research Alliance</strong>&lt;br&gt;Society for Pediatric Dermatology Session</td>
<td>7:00 am – 8:00 am</td>
<td>Trailblazers A &amp; B</td>
</tr>
<tr>
<td><strong>Registration</strong></td>
<td>7:30 am – 4:00 pm</td>
<td>Hall of State</td>
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<tr>
<td><strong>Plenary Session II</strong></td>
<td>8:00 am – 9:00 am</td>
<td>Kierland Ballroom</td>
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<tr>
<td><strong>Stephen Rothman Memorial Award</strong>&lt;br&gt;Presented to R. Rox Anderson, MD</td>
<td>9:00 am – 9:15 am</td>
<td>Kierland Ballroom</td>
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<tr>
<td><strong>Herman Beerman Lecture</strong>&lt;br&gt;Beyond the Sequence: Understanding the Genome in 3D&lt;br&gt;Tom Misteli, PhD</td>
<td>9:15 am – 9:45 am</td>
<td>Kierland Ballroom</td>
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<tr>
<td><strong>Coffee Break</strong>&lt;br&gt;Sponsored by Travel Portland</td>
<td>9:45 am – 10:00 am</td>
<td>Hall of State</td>
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<tr>
<td><strong>BJD Editorial Board Meeting</strong></td>
<td>9:45 am – 10:45 am</td>
<td>Noble Boardroom</td>
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<tr>
<td><strong>State-of-the-Art Plenary Lecture III</strong>&lt;br&gt;Harnessing Big Data to Answer Clinically Relevant Questions in Dermatology&lt;br&gt;Maryam M. Asgari, MD/MPH</td>
<td>10:00 am – 10:30 am</td>
<td>Kierland Ballroom</td>
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<tr>
<td><strong>State-of-the-Art Plenary Lecture IV</strong>&lt;br&gt;Cutaneous Mosaicism: Clinical Presentations and Pathogenic Mechanisms&lt;br&gt;Dawn H. Siegel, MD</td>
<td>10:30 am – 11:00 am</td>
<td>Kierland Ballroom</td>
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<tr>
<td><strong>Come See My Poster II</strong>&lt;br&gt;Poster #’s 124, 658, 316, 234, 730, 362, 676, 690, 644, 034, 566, 036</td>
<td>11:00 am – 11:15 am</td>
<td>Kierland Ballroom</td>
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<tr>
<td><strong>American Skin Association Awards</strong></td>
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<td>12:00 pm – 1:45 pm</td>
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<td><strong>Medical Dermatology Society</strong></td>
<td>12:00 pm – 1:45 pm</td>
<td>Trailblazers C</td>
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<tr>
<td><strong>Women’s Dermatologic Society Luncheon</strong></td>
<td>12:00 pm – 1:45 pm</td>
<td>Tribal A &amp; B</td>
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<tr>
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<td>12:00 pm – 1:30 pm</td>
<td>Rainmakers</td>
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**ASSOCIATE GROUPS ARE LISTED IN BLUE.**
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<tr>
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<td>12:00 pm – 1:30 pm</td>
<td>Trailblazers D &amp; E</td>
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<tr>
<td><strong>Satellite Symposium</strong></td>
<td>12:00 pm – 2:00 pm</td>
<td>Pathfinders</td>
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<tr>
<td><strong>Academic-Industry Partnership Project (AIPP) – Speed Dating at SID</strong></td>
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<td><strong>Individual Meetings (set up in advance by the SID)</strong></td>
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<tr>
<td><strong>Concurrent Mini-Symposia</strong></td>
<td>2:00 pm – 4:30 pm</td>
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<td>6. Auto-Immunity</td>
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<td><strong>Mini-Symposia Mixers</strong></td>
<td>4:30 pm – 5:00 pm</td>
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<td>6:00 pm – 7:00 pm</td>
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<td>6:00 pm – 8:30 pm</td>
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<td>6:00 pm – 8:00 pm</td>
<td>Pathfinders A</td>
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Pediatric Dermatology at the SID Meeting

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
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 Kaeeler, F. Wölling, Y. Skabytska, W. Kempf, M. Köberle, A. Yazdi, T. Voiz, 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, Huiyun Liu, Roger Ortines, Jonathan Shahrzad, 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. Arcarioli, Sucai Liu, Lekha K. Kutty, Stacey Bagby, Wells Messersmith and Mayumi Fujita. Aurora, CO and Denver, CO. 8:36 am, Poster #617

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.

LECTURESHP 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.
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.


2. Combination with gamma secretase inhibitor prolongs treatment efficacy of BRAF inhibitor in BRAF mutant melanoma cells. Guannan Zhu, Xiuli Yi, Sebastian Haferkamp, Sonja Hessbacher, 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


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


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 Shyu, Huan-Yuan Chen and Fu-Tong Liu. Taipei, Taiwan and Sacramento, CA. 11:08 am, Poster #690


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
   “DermatoEpidemiology: To be or not to be”
   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. Poster #191.
12:40 pm Variation in the ‘atopic march’ by age of atopic dermatitis onset.
   Poster #169.
12:50 pm Association of socioeconomic and geographic factors with Google search
   trends for skin protective and risk behaviors. Poster #182.
1:00 pm A predictive model for suspected lower limb cellulitis in the emergency
   department. Poster #201.
1:10 pm Prenatal risk factors associated with increasing incidence of infantile
   hemangiomas. Poster #141.
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
Jamiuluddin 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

| 1. Dysfunction of CD19+CD24+CD27-B regulatory cells in patients with bullous pemphigoid. Zhenfeng Liu, Qing Li, Hongjiang Gao and Gang Wang. Xi'an, China. 2:00 pm, Poster #035 |
| 2. 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. Farley. Iowa City, IA. 2:12 pm, Poster #056 |
| 3. γδT cells as novel players in alopecia areata pathobiology: Vδ1 T lymphocytes may recognize "stressed" hair follicle keratinocytes, leading to IFNγ-dependent hair follicle dystrophy and immune privilege collapse. Youhe Li, Licheng Ma, Hajnalka Gajewska, Matthew G. Stuve and Hitokazu Wang. Shanghai, China. 2:24 pm, Poster #051 |
| 5. Langerhans cells suppress autoimmune effector T cell responses in vitiligo by promoting the proper positioning of T regulatory cells. Kingsley Eissen, Jillian Richmond, Mehdi Rashighi and John E. Harris. Worcester, MA. 2:48 pm, Poster #066 |
| 6. 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 |
| 7. VGLL3 is a key regulator of gender biased transcriptome changes and may explain female bias in lupus and other autoimmune diseases. Yun Jiang, Lan C. Tsoi, Xiao Yang Xing, Mitali K. Sarkar, John J. Voorhees, Paul W. Harris, Joanne M. Kahlenberg and Johann E. Gudjonsson. Ann Arbor, MI. 3:12 pm, Poster #062 |
| 9. IL-23/IL-17 blockade in chronic psoriasiform mice improves thrombosis and decreases pBlended neutrophils and skin NF-kB. Yumeng Li, Jackelyn B. Golden, Yunmei Wang, Daniel I. Simon, Thomas S. McCormick and Nicole L. Ward. Cleveland, OH. 3:36 pm, Poster #054 |
| 10. 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, Fengzhou Lou, Wei Cai, Yang Sun, Yuan Yuan Gao, Hong Wang and Honglin Wang. Shanghai, China. 3:48 pm, Poster #058 |
| 11. Early onset pediatric atopic dermatitis skin phenotype is Th2, but also Th17-polarized. Hitokazu Esaki, Patrick M. Brunner, Tali Czarnowicki, Giselle Rodriguez, Supriya Irmaneni, Yael Renert-Yuval, Mayte Suarez-Fairinás, James G. Krueger, Amy S. Pollier and E. Guttman-Yassky. New York, NY and Chicago, IL. 4:00 pm, Poster #059 |

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-SYMPHOSYUM 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 Cutler, Dezhong Zhou, Xuejun Hu, Bianca Duarte, Fernando Larcher and Wensin Wang. Dublin, Ireland and Madrid, Spain. 2:00 pm, Poster #398


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. Pollet, Mayte Suarez-Farinas, Yael Renert-Yual, Margeaux Oliva, Thuy Huynh, Hitokazu Esaki, Maria Suprun, Rivka Friedland, Robalee Wanderman, James G. Krueger, Keith Choate and E Gutman-Yassky. Chicago, IL; New York, NY and New Haven, CT. 2:36 pm, Poster #396

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 erythrokeratodermia-cardiomyopathy syndrome is caused by dominant, clustered mutations in desmoplakin. Lynn M. Boyden, Chen Y. Kam, Angela Hernández-Martin, 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


9. Large scale meta-analysis characterizes genetic architecture for common psoriasis-associated variants. Lam C. Tsol, Philip Stuart, Chao Tian, Johann E. Guddonsson, David Hinds, Rojan Nair, Goncalo Abecasis and James Elder. Ann Arbor, MI and Mountain View, CA. 3:36 pm, Poster #358

10. A new form of ecdysteroid dysplasia caused by mutations in TSPEAR. Alon Peled, O Sarig, L Samuelov, M Bertolini, L Ziv, D Weisgals-Volkov, M Eskin-Schwarz, C Adage, N Malachin, R Bochner, G Flinberg, K Sugawara, A Baniel, D Tsuruta, C Luxembourg, 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; Halfa, 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 Biloussova, Igor Kogut, Sandra M. Ortega, Maryna V. Pavlova, David S. Astling, Kenneth Jones and Dennis R. Roop. Aurora, CO. 4:00 pm, Poster #415

12. Defining the targets of a microRNA: miR-31 regulates STX40 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


2. Chemoprevention of basal and squamous cell carcinoma with a single course of 5-flourouracil 5% cream. Martin A. Weinstock, Kimberly Marcolivio, See Soe Thwin and VAKCC Trial Group. Providence, RI and Boston, MA.  2:12 pm, Poster #252

3. Topical 5-flourouracil and calcipotriol combination: A potent immunotherapeutic for actinic keratosis. Trevor Cunningham, Sara Moradi Tuchayl, Mary Tabacchi, Sindhu Manivasagam, Hengameh Mirzaalian, Ahi Turkoz, Raphael Kopan, Andreas Schaffer, Michael Wallendorf, Lynn Cornelius and Shadmeir Demehri. Boston, MA and St. Louis, MO.  2:24 pm, Poster #222

4. Single course of 5-flourouracil treatment prevents new actinic keratoses for 6 to 12 months. Joanna L. Walker, Julia A. Siegel, Moniyka Sacha, Abrar A. Qureshi, Suephy C. Chen, Susan M. Swetter, Robert Delakas, George Stricklin and Martin A. Weinstock. Providence, RI; Atlanta, GA; Palo Alto, CA; Denver, CO and Nashville, TN.  2:36 pm, Poster #267

5. 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. Hardinsky, Peter Martinovich, David Woodley, Mei Chen, Alain Hovnanian, Katsumo Tarnai, Bruce Blazar and John A. Wagner. Minneapolis, MN; London, United Kingdom; Portland, OR; Stanford, CA; Los Angeles, CA; Paris, France and Sult, Japan.  3:00 pm, Poster #229


7. 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

8. 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 Hidee Asahara. Kashihara, Japan.  3:24 pm, Poster #246


11. MEK is a therapeutic and chemopreventative target in squamous cell carcinoma. Charles Adelmann, Andrew South, Charlotte Proby, Irene Leigh, Cristian Coarfa, Elsa Flores and Kenneth Y. Tai. Houston, TX; Dundee, Scotland and Philadelphia, PA.  4:00 pm, Poster #239

12. 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-SYMPHOSIUM 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

1. Dsg2 increases exosome release and enhances EGFR/c-Src content: A mechanism for an intercellular mitogenic effect. Andrew M. Overmiller, Jennifer Perfilisii, Peter Wermuth, Ubald Martinez-Outschoorn, Joseph Curry, Andrew South and My G. Mahoney. Philadelphia, PA. 2:00 pm, Poster #422

2. Tissue polarization of mechano-adhesive signals, cytoskeleton and EGFR signaling controls skin barrier formation. Matthias Ruebsam, Aaron Mertz, Giuditta Goranci, Valerie Horsley, Eric Dufresne, Wolfgang Ziegler, Akifuru Kubo, Masayuki Amagai and Carlen M. Niessen. Cologne, Germany; New Haven, CT; Hannover, Germany and Tokyo, Japan. 2:12 pm, Poster #430

3. αEβ1 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, Yoshide Asano, Ryosuke Saigusa, Takashi Yamashita, Takashi Taniguchi, Takehito Takahashi, Yohel Ichimura, Tetsuo Toyama, Ayumi Yoshizaki, Takauro Midoro and Shinichi Sato. Tokyo, Japan. 2:24 pm, Poster #437

4. 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

5. Mast cell survival and maturation in human skin are regulated and maintained by sensory nerve fibers. Jérémy Chéret, Leslie Ponce, Christelle Le Gall-Ianotto, Laurent Misy, Marta Bertolini and Ralf Paus. Munster, Germany; Brest, France and Manchester, United Kingdom. 2:48 pm, Poster #425

6. 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


8. The intracellular domain of amphiregulin localizes to the nucleus and rescues growth inhibition in response to EGF receptor blockade. Stefan W. Stoll, Philip Stuart, Sylvaine Lambert and James T. Elder. Ann Arbor, MI. 3:24 pm, Poster #423

9. RPGRIP1L facilitates desmosomal adhesion through suppressing PKCβII-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, Aimée S. Payne and Jiangan Chen. Stony Brook, NY; Beijing, China; Philadelphia, PA and Aurora, CO. 3:36 pm, Poster #441


11. Discovery of an alternate, flotillin-dependent, clathrin-mediated endocytosis pathway for IGF-1 receptor internalization and signaling in keratinocytes. Duncan Hieu M. Dang, Sophia Jelsma and Amy S. Palier. Chicago, IL. 4:00 pm, Poster #445


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-SYMPHOSYM 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 αv-β3 signaling axis is necessary for keratinocyte proliferation during cutaneous wound healing. Elizabeth Duperret, Christopher Natale, Ankit Dahal and Todd W. Riddy. 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. β2 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, Philipp Hawkins, Karin Scharfetter-Kochanek and Srdan Lucic. 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. Akiko Uchiyama, Osamu Ishikawa and Sei-Ichi Motoegi. Maebashi, Japan. 2:36 pm, Poster #715


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 #749

7. Adipocyte stem cells are maintained by Pdgfa 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 patternning during wound-induced hair neogenesis. Hsiao-Chen Ham, Po-Yuan Chiu, Hung-Yang Chen, Edward Lin, Chia-Ching Wu, Ming-Jer Tang, Cheng-Ming Chuong and Michael Hughes. Taichung, Taiwan; Los Angeles, CA and Taichung, Taiwan. 3:24 pm, Poster #749


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. Badiava, 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

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 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


3. Extensive alopecia areata is reversed by IL-12/23p40 cytokine antagonism. Emma Gutrman-Vassky, Benjamin Ungar, Shinji Noda, Maria Suprun, Anjali Shroff, Riana Dutt, Saakshi Khattri, Michelle Min, Yasaman Mansouri, Xu Zhong, Yeriel D. Estrada, Gisele K. Singer, Mayte Suarez-Farinacs, 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 Corona-de Rosa, Julie Lee, Lewis Tomalin, Michelle A. Lowes, Lori Fitz, Gabriel Berstein, Herman Valdez, Robert Wolk, James G. Krueger and Mayte Suarez-Farinacs. 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 and Benjamin Fel. 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, Rakshshandra Talpur, Shufeng Li, M. Duvic and YH. Kim. Stanford, CA and Houston, TX. 3:00 pm, Poster #243


8. OX40/OX40L and 4-1BB/4-1BBL signaling in cutaneous anti-tumoral immunity. Glenn Geldiel, Marcus Maurer, Thomas Luger and Karin Lose. Muenster, Germany and Berlin, Germany. 3:24 pm, Poster #649


10. Use of an MCL-1 inhibitor to overcome melanoma’s resistance to current therapy. Nabanita Mukherjee, Yan Lu, Adam Almeida, Karoline Lambert, Chung-Wal Shiau, 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 Wiedler, Heidi Braumüller, Manfred Knellinger, 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.
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

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


9. UVB irradiation with anti-CD154 antibody prolonged the survival of hair follicle allografts

10. First indications that peri-follicular macrophages contribute to the regulation of cata-
gen initiation and progression in the murine hair follicle. Jonathan A Hardman, D Pena-
Jimenez, M Perez-Morena and R Paus. Abstract Final ID #684


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
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)
## Saturday Sessions

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## Meeting-At-A-Glance

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<td>John O’Shea, MD</td>
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<td><strong>Clinical Scholars Program Session II</strong></td>
<td>10:00 am – 12:00 pm</td>
<td>Kierland Ballroom</td>
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<td><em>The Tumor Microenvironment and Skin Cancer</em></td>
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<td><strong>Poster Session II/Coffee Break</strong></td>
<td>10:00 am – 12:00 pm</td>
<td>Herberger Ballroom</td>
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<td><strong>Concurrent Mini-Symposia</strong></td>
<td>12:30 pm – 3:00 pm</td>
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<td>12. Innate Immunity, Inflammation, and Microbiology</td>
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<td>Trailblazers D &amp; E</td>
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<td>13. Pigmentation and Melanoma</td>
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<td>Trailblazers C</td>
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<td>15. Skin and Hair Developmental Biology</td>
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## PLENARY SESSION III

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

**Saturday, May 14, 2016 8:00 am – 9:00 am  Kierland Ballroom**

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<thead>
<tr>
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<th>Title</th>
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<tr>
<td>2.</td>
<td>Trends in emergency department visits for herpes zoster from 2006-2012.</td>
<td>Erica Dommasch, Cara Joyce and Arash Mostaghimi. Boston, MA; Deerfield, IL and Chicago, IL.</td>
<td>8:12 am</td>
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<td>3.</td>
<td>The AHR-p27 axis modulates DNA damage responses in UV-irradiated keratinocytes in vitro and in vivo.</td>
<td>Siraz Shaik, Marius Pollet, Jean Krutmann and Thomas Haarmann-Stemmann. Düsseldorf, Germany.</td>
<td>8:24 am</td>
<td>#570</td>
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<td>5.</td>
<td>Cell shape determines the regulatory mechanisms for maintaining tight junction barrier homeostasis in epidermal turnover.</td>
<td>Mariko Yokouchi, Toru Atsugi, Mayumi Kajimura, Makoto Suematsu, Mikio Furuse, Masayuki Amagai and Akiharu Kubo. Toyko, Japan and Okazaki, Japan.</td>
<td>8:48 am</td>
<td>#344</td>
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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 signaling pathway in skin and hair stem cell biology, hair stem cell regulation and patterning, and epithelial-mesenchymal regulation.

LECTURESHP 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.

LECTURESHP 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.


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 Dilks 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.


11:55 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.**  
   Toll Czarnowicki, Hitokazu Esaki, Patrick M. Brunner, Juana Gonzalez, Sreyta 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 Nakatsui, Aimee M. Two, Kimberly A. Chun, Tiffany H. Chen, Ralf 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 Swenszy, Yun Wang, Aaron Wortham, Hao Ding, Yuangang Lu and Molly Kulesz-Martin.  Portland, OR and Winnipeg, 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.**  
   Lel 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 Brügger, Wolfgang Bauer, Bärbel Reininger, Eduard Cilm, 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, Vi Fritz, Jaymie Ballweg, 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. Tsol, 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-1α 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 Fuhrlbrige 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 Nakata, Youichi Ogawa, Mark Udey and Marla 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. Katriuscia 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, Huihua Wang, Weinan Guo, Yuqi Yang, Weigang Zhang, Sen Guo, Tao Zhao, Lin Liu, Zhe Jian, Qi Luang, Jing Liu, Gang Wang, Tianwen Gao and Chunying Li. Xian, 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 Hans. 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, Zil Zhai, Kasey L. Couts, Tania Azarn, 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 BRAFV600E, CDKN2A-/-, PTEN-/- melanoma model. Jake Wang, Katrina Meeth, Curtis Perry, Alessandra Ventura, Susan Kaech, Richard Edeleston and Marcus Bosenberg. New Haven, CT. 1:54 pm, Poster #616


10. PIKFYVE regulates the maturation of the melanosome. Marc C. Liggins, Jessica Flesher, Sumanpreet 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 Sulik, Leslie Ponce, Jonathan A. Hardman, Tamás Biró, Desmond Tobin and Ralf Paus. Münster, Germany; Lübeck, Germany; Manchester, United Kingdom; Debrecen, Hungary and Bradford, United Kingdom. 2:30 pm, Poster #664

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


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. Cabellon, Carol Seanez, Mohammad Fazel and Georg T. Wondrak. Tucson, AZ. 12:48 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


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, Collie 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; Holifa, 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


9. ENAC inhibition as a therapy for psoriasis. Marten C. Wing, Mazen Nasrallah, Ngon T. Nguyen, Mohammed Inayathullah, Jayakumar Rajadas, Atul Butte and Peter Martinkovich. Stanford, CA and San Francisco, CA. 2:06 pm, Poster #529

10. Th1/Th17/Th22 cytokine and cell-driven paracrine signaling networks in a 3D organotypic human skin model with relevance to psoriasis. Ariel Finkelstein, Heath McDonald, Paul Hoover, Pasco Honore, Amy S. Paller, Victoria E. Scott and Spiri Getisios. 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

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


2. Chromatin remodeler lymphoid-specific helicase (Lsh) is a critical determinant controlling postnatal epidermal growth, differentiation and response to injury. Ahmar Aziz, Tatyan Sharova, Anna Klimova, Byungwoo Ryu, Kathrin Muegge, Vladimir Botchkarev and Andrew Sharpe. Boston, MA; Frederick, MD and Bradford, United Kingdom. 12:42 pm, Poster #707


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. Chong-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 Mak, 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


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

46TH ANNUAL ESRD MEETING

7-10 September 2016
Munich, Germany

www.esdr2016.org
The 41st Annual Meeting of the Japanese Society for Investigative Dermatology

41st JSID

Dates: December 9 (Fri.) - 11 (Sun.) 2016
Venue: SENDAI INTERNATIONAL CENTER
Mubanchi, Aobayama, Aoba-ku, Sendai 980-0856, Japan
President: Setsuya Aiba, M.D., Ph.D.
Department of Dermatology,
Tohoku University Graduate School of Medicine

Secretary-General: Kenshi Yamasaki
Secretariat: Department of Dermatology,
Tohoku University Graduate School of Medicine
1-1 Seiryo-cho, Aoba-ku, Sendai, 980-8574, Japan

Meeting Organizer: The Japanese Dermatological Association
1-4, Hongo 4-chome, Bunkyo-ku, Tokyo 113-0033, Japan
Fax: +81-3-3812-6790
E-mail: jsid41@dermatol.or.jp
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2015 Emi Nishimura M.D., Ph.D., Japan
2014 Julia A. Segre, Ph.D., Bethesda, USA
2013 Robert L. Modlin, M.D., Los Angeles, USA
2012 Martin Röcken, M.D., Ph.D., Tübingen, Germany
2011 Joke A. Bouwstra, Ph.D., Leiden, Netherlands
2010 Howard Y. Chang, M.D., Ph.D., Stanford, USA
2009 Sabine Werner, Ph.D., Zurich, Switzerland
2008 Paul A. Khavari, M.D., Ph.D., Stanford, USA
2007 Richard L. Gallo, M.D.,Ph.D., San Diego, USA
2006 Irwin McLean Ph.D., DSc, FRSE, Scotland, UK

2005 Masayuki Amagai, M.D., Ph.D., Tokyo, Japan
2004 Thomas Schwarz, M.D. Kiel, Germany
2003 Angela M. Christiano, Ph.D., New York, USA
2002 Dennis R. Roop, Ph.D., Houston, USA
2001 Fiona M. Watt, D. Phil., London, UK
2000 Michael Karin, Ph.D., San Diego, USA
1999 Jonathan Rees, M.D., Edinburg, UK
1998 Jean Krutmann, M.D., Düsseldorf, Germany
1997 Jens-Michael Schröder, Ph.D., Kiel, Germany
1996 Akira Takashima, M.D., Ph.D., Dallas, USA

DEADLINE FOR APPLICATIONS: JUNE 1, 2016

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