

Pediatric Dermatology at the SID

**Clinical Scholars program and Academic-Industry Partnership session are only open to those who sign up in advance (free).

WEDNESDAY May 7, 2014

Pachyonychia Congenita Project Meeting 7:00-9:30 am
Aztec, Albuquerque Convention Center

Epidermolysis bullosa symposium 11:30 am- 3:00 pm
Donna Ana, Albuquerque Convention Center

11:30 AM	Brett Kopelan DEBRA of America
11:35 AM	Dennis Roop University of Colorado
12:05 PM	Satoru Shinkuma Columbia University
12:20 PM	David Woodley University of Southern California
12:50 PM	Mei Chen University of Southern California
1:20 PM	John Sundberg The Jackson Laboratory
1:50 PM	Katsuto Tamai Osaka University
2:10 PM	Zurab Sibrashvili Stanford University
2:25 PM	General Discussion

Translational Symposium on Neurobiology 12:00 pm- 3:00 pm

Kiva Auditorium, Albuquerque Convention Center

Atopic Dermatitis Project: A convening template- Lisa Beck, MD

Neurobiology of Itch in Health and Disease- Earl Carstens, PhD

Immunology and Neurogenic Inflammation of Itch- Ethan Lerner MD, PhD

Itch, Acupuncture and the Brain- Florian Pfab, PhD

The Beginnings of a Standard Chronic Pruritus Protocol- Suephy Chen, MD, MS
Itch as a Disease- Gil Yosipovitch, MD
Regulatory Considerations in Translation- Jonathan Wilkin, MD

Irwin H. Blank Forum 3:00 am- 5:00 pm

Kiva Auditorium, Albuquerque Convention Center
Hot Topics in Research Dermatology & Cutaneous Genomics
Introduction- Anand Ganesan MD/PhD
Microbiome- Richard Gallo MD/PhD and Heidi Kong MD/PhD
Melanoma Genetics- Roger Lo, MD/PhD

State of the Art Plenary Lecture 1 5:00 pm- 5:30 pm

Kiva Auditorium, Albuquerque Convention Center
Organ Regeneration: Lessons From the Hair Follicle
Mayumi Ito, PhD

State of the Art Plenary Lecture 2 5:30 pm- 6:00 pm

Kiva Auditorium, Albuquerque Convention Center
Scleroderma: Toward Molecular Diagnosis and Rational Therapy
John Varga, MD

Kligman/Frost Leadership Lecture 6:00 pm- 6:30 pm

Kiva Auditorium, Albuquerque Convention Center
“Learning from Leprosy: Patterns of Inflammation in Skin Disease”
Robert L. Modlin, MD University of California-Los Angeles

Welcome Reception 6:30 pm- 8:30 pm

Upper West Foyer, Albuquerque Convention Center

THURSDAY May 8, 2014

Pediatric Dermatology Morning Session 7:00 am- 8:00 am

Brazos Room, Albuquerque Convention Center

7:00 am - 7:15 am **Welcome/Overview I: Pediatric Dermatology at SID**

Amy Paller, Northwestern University

7:15 am – 7:40 am **Special Presentation:** New genetic discoveries
through exome sequencing

David Kelsell, Queen Mary University of London

7:40 am – 7:50 am Abstract #472

Disorders of keratinization: Genetic characterization of a
large cohort via targeted and whole exome sequencing

Lynn Boyden, Yale University

7:50 am – 7:55 am **Concluding Remarks and Networking**

Plenary Session I 8:00 am- 9:00 am

Kiva Auditorium, Albuquerque Convention Center

1. A novel desmosome-COP9 signalosome complex in epidermal differentiation.

Nicole A. Najor, Robert M. Harmon and Kathleen J. Green. Chicago, IL. 8:00 am, Poster #404

2. Keratinocytes drive depigmentation in a mouse model of vitiligo via recruitment and activation of CD8+ T cells in the skin.

Jillian Richmond, Kingsley Essien, Joanna Groom, Andrew Luster and John Harris. Worcester, MA; Melbourne, Australia and Boston, MA. 8:12 am, Poster #065

3. Higher-order chromatin folding and coordinated gene regulation at the Epidermal Differentiation Complex (EDC) locus in keratinocytes.

Joanne Yarker, Krzysztof Poterlowicz, Natalia Naumova, Bryan Lajoie, Andrei Mardaryev, Andrey Sharov, Job Dekker, Vladimir A. Botchkarev and Michael Fessing. Bradford, United Kingdom; Worcester, MA and Boston, MA. 8:24 am, Poster #444

4. A lncRNA-MAF:MAFB transcription factor network regulates epidermal differentiation.

Vanessa Lopez-Pajares, Kun Qu, Jiajing Zhang, Dan Webster, Brook Barajas, Brian Zarnegar, Lisa Boxer, Markus Kretz and Paul Khavari. Palo Alto, CA. 8:36 am, Poster #255

5. Induction of melanocytes from multilineage-differentiating stress-enduring (Muse) cells derived from human adipose tissue.

Takeshi Yamauchi, Kenichiro Tsuchiyama, Fumitaka Ogura, Shohei Wakao, Saaya Koike, Kenshi Yamasaki, Mari Dezawa and Setsuya Aiba. Sendai, Japan. 8:48 am, Poster #700

Eugene M. Farber Lecture 9:00 am- 9:30 am

Kiva Auditorium, Albuquerque Convention Center

Psoriasis: Getting to the Heart of the Matter

Joel M. Gelfand, MD

Naomi M. Kanof Lecture 9:30 am- 10:00 am

Kiva Auditorium, Albuquerque Convention Center

Integrating OMICS-Data for Understanding Complex Disease

Mark R. Chance, PhD

Poster Session I 10:00 am- 12:00 pm

NE Exhibit Hall, Albuquerque Convention Center

Late-breaking abstracts

Discussion: Poster #s 001-263 Odd & #s 264-526 Even

****Clinical Scholars Plenary Session 10:15 am- 12:15 pm**

Kiva Auditorium, Albuquerque Convention Center

1. The mTOR C1 protein raptor controls filaggrin levels through an Akt1/cathepsin H dependent mechanism.

Naeem, Aishath, Zhu, Yanan, Moffat, Miriam, Cookson, William, Harper, John, Di, Wei-Li, Reinheckel, Thomas, O'Shaughnessy, Ryan 10:20 am, Poster #362, Presented by Ryan O'Shaughnessy, MD/PhD

2. Reduction of IL-31 expression during therapy of CTCL correlates with improved pruritus.

Skabytska, Yuliya, Wölbing, Florian, Günther, Claudia, Köberle, Martin, Kaesler, Susanne, Guenova, Emmanuella, Volz, Thomas, Biedermann, Tilo 10:40 am, Poster #634, Presented by Yuliya Skabytska, PhD

Atopic Dermatitis- Evolving pathogenic concepts and the translational revolution- Emma Guttman-Yassky, MD/PhD

Microbiome-Host Immune Interactions in Atopic Dermatitis- Elizabeth Grice, PhD

****Academic-Industry Partnership Project Session 12:00 pm- 2:00 pm**

San Miguel/Mesilla Room, Albuquerque Convention Center

Special session with a panel of representatives from industry and academia, followed by "speed dating"/networking session. Preregistration required for Speed Dating/Networking.

Wound Healing Session 12:00 pm- 2:00 pm

Ballroom A, Albuquerque Convention Center

The role of the epidermis and TEWL in scarring: new insights into signaling- Thomas Mustoe, MD 12:05-12:30

Modeling the immunologic/inflammatory process of wound healing basic science- Luisa DiPietro, DDS/PhD 12:30-12:55

Life in a bad neighborhood: cell survival strategies in a toxic wound environment- Alan Wells, MD/DMSc 12:55- 1:20

Of mice and men: preclinical strategies to push the limits of the translational significance of wound healing research- Andrew Baird, PhD 1:20-1:45

Concurrent Minisymposia 2:00 pm- 5:00 pm

CM1-Adaptive Immunity

Ballroom A, Albuquerque Convention Center

Benjamin Chong, MD and Michael Rosenblum MD, PhD

Programmed cell death1 (PD-1) regulates the effector function of autoimmune CD8 T cells

via the ligands expressed on target epidermal cells.

Naoko Okiyama and Stephen I. Katz. Bethesda, MD. 2:36 pm, Poster #018

Identification of skin resident memory CD4+ T cells (TRM) producing IL-17A after cutaneous candida infection. Chang O. Park, Xiujun Fu, Xiaodong Jiang, Rei

Watanabe, Rachael Clark, Robert C. Fuhlbrigge, Charles Lin and Thomas S. Kupper.

Boston, MA. 3:00 pm, Poster #044

IL-37 induces tolerogenic dendritic cells and suppresses skin contact hypersensitivity.

Yuchun Luo, Xiangna Cai, Sucai Liu, Sen Wang, Suzhao Li, Claudia A. Nold-Petry, Marcel F. Nold, Philip Bufler, David A. Norris, Charles A. Dinarello and Mayumi Fujita. Aurora, CO; Melbourne, Australia and Munich Germany. 3:48 pm, Poster #028

CM2- Interdisciplinary spotlight: Atopic Dermatitis
Kiva Auditorium, Albuquerque Convention Center
Diana Bautista, PhD and Richard Gallo Md, PhD

Over the past two years the SID has convened special working groups comprised of the SID scientific community focused on Atopic Dermatitis, specifically its biomarkers, clinical trials and epidemiology. Through their focused research we hope to advance the understanding of AD and its many components. The minisymposium's novel format will feature select abstracts from a wide array of abstract categories, and cover a broad spectrum of investigational approaches to understanding AD. It will feature Basic, Clinical and Translational content, and cover multiple dimensions of the disease including genetic mutations, auto-immunity, neurobiology, environmental factors, quality of life, and epidemiological data. Collectively, these topics will provide attendees with access to the cutting edge of the AD research horizon.

1. Identification of host pathways influenced by the skin microbiota and their role in modulating cutaneous commensal microbiota.

Adam SanMiguel, Jacqueline Meisel, Christel Chehoud, Stavros Rafail, Brendan P. Hodkinson, John T. Seykora, John D. Lambris and Elizabeth A. Grice. Philadelphia, PA. 2:00 pm, Poster #636

2. Defects in nicotinic receptor activation and chromogranin A promote epidermal innate immune dysregulation to increase staphylococcus aureus susceptibility.

Mari Kishibe, Tina M. Griffin and Katherine A. Radek. Maywood, IL. 2:12 pm, Poster #626

3. A selective defect in IFN production possibly explains viral skin infections in atopic dermatitis.

Tali Czarnowicki, James Krueger, Juana Gonzalez and Emma Guttman. New York, NY. 2:24 pm, Poster #525

4. Analysis for distinctive activation patterns of pain and itchy in the human brain cortex measured using near infrared spectroscopy (NIRS).

Chih-Hung Lee, Takashi Sugiyama, Aiko Kataoka, Ayako Kudo, Fukue Fujino, Yu-Wen Chen, Yuki Mitsuyama, Shinobu Nomura and Tohru Yoshioka. Kaohsiung, Taiwan; Taoyuan, Taiwan; Tokyo, Japan; Kanagawa, Japan and Kaohsiung, Taiwan. 2:36 pm, Poster #360

5. Neural recruitment and activation is required for the development of atopic dermatitis: Novel insights into disease pathogenesis revealed by in vivo imaging.
Sarina Elmariah, Tuanlian Luo, Ehsan Azimi, Vemuri B. Reddy and Ethan A. Lerner. Boston, MA. 2:48 pm, Poster #090

6. IL-31 controls skin barrier function through the IL-1 signaling network.

Kai Hänel, Philipp Amann, Christian Cornelissen, Yvonne Marquardt, Katharina Czaja, Juliane Lüscher-Firzlaff, Bernhard Luescher and Jens M. Baron. Aachen, Germany. 3:00 pm, Poster #359

7. Immune suppression in severe atopic dermatitis is mediated by myeloid derived suppressor cells.

Yuliya Skabytska, Florian Wölbing, Claudia Günther, Martin Köberle, Susanne Kaesler, Emmanuella Guenova, Thomas Volz and Tilo Biedermann. Tübingen, Germany; Dresden, Germany and Zurich, Switzerland. 3:12 pm, Poster #634

8. The mTORC1 protein Raptor controls filaggrin levels through an Akt1/cathepsin H dependent mechanism. Aishath Naeem, Yanan Zhu, Miriam Moffat, William Cookson, John Harper, Wei-Li Di, Thomas Reinheckel and Ryan O'Shaughnessy. London, United Kingdom and Freiburg, Germany. 3:24 pm, Poster #362

9. Severe atopic dermatitis in an African-American pediatric cohort is associated with a filaggrin low intragenic copy number variant.

Ashley Quiggle, Zane Goodwin, Twinkal C. Pansuriya, Monique Kumar-Gupta, Emily Beck, Emily Gurnee, Heather Ciliberto, Kara J.

Gulewicz, Susan J. Bayliss and Cristina de Guzman Strong. St. Louis, MO. 3:36 pm, Poster #331

11. Maximal use systemic exposure (MUSE) study evaluating AN2728, a novel boron-based small molecule, for the treatment of pediatric and adolescent subjects with mild-to-moderate atopic dermatitis.

Leon Kircik, Lee Zane and Adelaide A. Hebert. Louisville, KY; Palo Alto, CA and Houston, TX. 4:00 pm, Poster #612

CM3- Carcinogenesis & Cancer Genetics

Ballroom A, Albuquerque Convention Center

2. BET bromodomain inhibition triggers apoptosis of NF1-associated malignant peripheral nerve sheath tumors through Bim induction.

Amish Patel, Chung-Ping Liao, Zhiguo Chen,

Chiachi Liu, Yong Wang and Lu Q. Le. Dallas, TX. 2:12 pm, Poster #183

3. Firmocidin, a small molecule produced by *S. epidermidis*, provides antineoplastic and antibiotic function from the commensal skin microbiome.

Teruaki Nakatsuji, Lynn L. Trzoss, William Fenical and Richard L. Gallo. San Diego, CA. 2:24 pm, Poster #173

CM4- Photobiology

Ballroom C, Albuquerque Convention Center

Tumor necrosis factor alpha (TNF-) dependent augmentation of ultraviolet B-induced apoptosis and inflammation as well as a profound defect in contact hypersensitivity responses are seen in mice lacking epidermal peroxisome proliferator activated receptor gamma (PPAR).

Raymond L. Konger, Jeffrey B. Travers and Ravi Sahu.

Indianapolis, IN. 3:00 pm, Poster #685

CM-5 Tissue Regeneration & Wound Healing

San Miguel/Mesilla, Albuquerque Convention Center

Generation of induced pluripotent stem cells from revertant mosaic keratinocytes.

Noriko Umegaki-Arao, Anna M. Pasmooij, Munenari Itoh, Jane E. Cerise, Zongyou

Guo, Antoni Gostynski, Marcel F. Jonkman and Angela Christiano. New York, NY and Groningen,

Netherlands. 2:24 pm, Poster #783

The role of AKR1C3-mediated metabolism of prostaglandin D2 in keloid fibrosis.

Alon Mantel, Austin Newsome, Theresa Joseph, Erika Clark and Meena Katdare.

Hampton, VA and Norfolk, VA. 3:24 pm, Poster #781

Epidermal nicotinic acetylcholine receptor activation impairs toll-like receptor 2 responses during wound infection.

Mari Kishibe, Tina M. Griffin and Katherine A. Radek. Maywood, IL. 4:00 pm, Poster #769

Roundtable Discussions 5:00 pm- 6:00 pm

FRIDAY May 9, 2014

Pediatric Dermatology Morning Session 7:00 am- 8:00 am

Brazos Room, Albuquerque Convention Center

- | | |
|-------------------|---|
| 7:00 am – 7:05 am | Introduction and Welcome
<i>Megha Tollefson, Mayo Clinic</i> |
| 7:05 am - 7:15 am | Abstract #474
Site-specific genome editing using TALENs for correction of dominant dystrophic epidermolysis bullosa
<i>Satoru Shinkuma, Columbia University</i> |
| 7:15 am - 7:40 am | Special Presentation: Recombinant type VII collagen for recessive dystrophic epidermolysis bullosa
<i>David Woodley and Mei Chen, University of Southern California</i> |
| 7:40 am - 7:50 am | Abstracts #300 and 698
Dermoscopic and Genetic Insights into Nevogenesis: Results from the Study of Nevi in Children (SONIC)
<i>Michael Marchetti, Memorial Sloan-Kettering Cancer Center</i> |
| 7:50 am – 7:55 am | Discussion and Concluding Remarks |

Plenary Session II 8:30 am- 9:30 am

Kiva Auditorium, Albuquerque Convention Center

1. Platelet-activating factor mediates ultraviolet B radiation systemic immunosuppression via mast cell products and IL-33. Jesus A. Ocana, Ravi Sahu, Raymond L. Konger and Jeffrey B. Travers. Indianapolis, IN. 8:30 am, Poster #668
2. Unexpected complexity in smoothened variants associated with drug resistant basal cell carcinoma. Kavita Sarin, Scott Atwood, Jiang Li, Anne Lynn S. Chang, Anthony Oro and Jean Tang. Palo Alto, CA. 8:42 am, Poster #206

3. Health care utilization prior to diagnosis as a predictor of melanoma-specific mortality. Melody J. Eide, Gordon Jacobsen, Richard Krajenta and Christine C. Johnson. Detroit, MI. 8:54 am, Poster #309
4. MyD88 deficiency affords immune maintenance after UV-irradiation through elevated PARP-dependent DNA repair. Erin Harberts, Rita Fischelevich, Juan Liu and Anthony A. Gaspari. Baltimore, MD. 9:06 am, Poster #646
5. Double stranded RNA and TLR3 initiates hair follicle neogenesis after wounding. Amanda M. Nelson, Adiya S. Katseff, Tabetha S. Ratliff, Sydney R. Resnik, Alexander J. Whittam, Lloyd Miller and Luis Garza. Baltimore, MD and Hershey, PA. 9:18 am, Poster #765

Herman Beerman Lecture 9:45 am- 10:15 am

Kiva Auditorium, Albuquerque Convention Center From Darwin to DNA:
How Animals Adapt Hopi E. Hoekstra, PhD

State of the Art Plenary Lecture 3 10:15 am- 10:45 am

Kiva Auditorium, Albuquerque Convention Center
Epigenetic Mechanisms Controlling Epidermal Development and Differentiation
Vladimir Botchkarev, MD/PhD

State of the Art Plenary Lecture 4 10:45 am- 11:15 am

Kiva Auditorium, Albuquerque Convention Center
Calcium and the Endoplasmic Reticulum in Keratinocyte Differentiation
Theodora M. Mauro, MD

Poster Session II 11:15 am-1:15 pm

NE Exhibit Hall, Albuquerque Convention Center
Discussion: Poster #s 002-262 Even & #s 529-791 Odd

Satellite Symposium 12:00 pm-2:00 pm

San Miguel/Mesilla, Albuquerque Convention Center
Research in Latin America

Tropical diseases and leishmaniasis- Jesus Valenzuela, PhD 12:05 pm- 12:45 pm

Itch prevalence and characteristics in Hispanic geriatric population: a comprehensive study using a validated itch questionnaire- Rodrigo Valdes-Rodriguez, MD 12:55 pm- 1:07 pm

Sensitive skin in Mexico: prevalence, biophysical response and its relationship with TRPV1- Adriana Rodriguez-Arambula, MD 1:10 pm- 1:22 pm

Anetoderma, and example of primary thrombophilia- Benjamin Moncada, MD 1:25 pm- 1:37 pm

Academic Dermatologists Luncheon 12:00 pm- 2:00 pm

Aztec, Albuquerque Convention Center
Sponsored by the Women's Dermatologic Society

American Acne and Rosacea Society 12:00 pm- 2:00 pm

Ballroom C, Albuquerque Convention Center

12:10 Lipoproteins and bovine milk peptides stimulate lipogenesis and inflammatory response- Raja Sivamani

12:25 DRM01, a novel acetylcoenzyme a carboxylase (ACC) inhibitor, reduces sebum production- David Hunt

12:40 Histological analysis of acne samples reveals different macrophage populations within the pilosebaceous unit- Daniel Torocsik

12:55 Different proprionibacterium acnes strains have variable pathogenicity- Yu Yang

1:10 IL-37 is a potent inhibitor of inflammatory responses induced by proprionibacterium acnes and UVB radiation in human keratinocytes- Andrew Park

1:25 Opposing effects of epigenetic influences in skin immunity- James Sanford

1:40 Acne core outcomes research network (ACORN): standardizing outcome measures in acne trials- Diane Thiboutot

American DermatoEpidemiology Network 12:00 pm- 2:00 pm

Ballroom B, Albuquerque Convention Center

1. Appearance-based video education is more effective than health-based video education in promoting sunscreen use among adolescents: A randomized controlled trial. William Tuong, April W Armstrong. Sacramento, CA and Aurora, CO. Abstract # 283

4. Factors associated with being clear/almost clear of psoriasis in patients receiving adalimumab, etanercept, or methotrexate as part of routine clinical care.

Yuan Hong, Kristina Callis Duffin, Junko Takeshita, Daniel B Shin, Gerald G Krueger, Andrew D Robertson,, Andrea B Troxel, Abby S Van Voorhees and Joel M Gelfand. Philadelphia, PA; Salt Lake City, UT and Portland, OR. Abstract # 289

5. Longitudinally followed nevi in children and adolescents show significant size changes. Xinyuan Wu, Maira Fonseca, Michael Armando Marchetti, Stephen Dusza, Ashfaq Marghoob, Alan C Geller and Allan C Halpern. New York, NY and Boston, MA. Abstract # 300

6. Development and validation of chemotherapy-induced dermatology distress scale. Juhee Cho, Danbee Kang, Eun-Kyung Choi, Im-Ryung Kim, Jung Hee Yoon and Soo Jung Park. Seoul, Republic of Korea. Abstract # 317

9. Severe atopic dermatitis in an African-American pediatric cohort is associated with a filaggrin low intragenic copy number variant. Zane Goodwin, Ashley Quiggle, Twinkal C Pansuriya, Monique Kumar-Gupta, Emily Beck, Emily Gurnee, Heather Ciliberto, Kara Jill Gulewicz, Susan J Bayliss and Cristina de Guzman Strong. St. Louis, MO. Abstract # 331

10. Initial findings for the effectiveness of using IVIG to treat Stevens-Johnson syndrome and toxic epidermal necrolysis. Melissa McEnery-Stonelake, Arash Mostaghimi and Daniela Kroshinsky. Worcester, MA and Boston, MA. Abstract # 346

Concurrent Minisymposia 2:00 pm- 5:00 pm

CM6- Growth Factors, Cell Adhesion, Matrix Biology

San Miguel, Mesilla, Albuquerque Convention Center

Type VII collagen binds pro-fibrogenic TGF beta isoforms: Implications for scarring in RDEB patients and scarless wound healing.

Jon Cogan, Lauren Moy, Kaitlyn Kim, David T. Woodley and Mei Chen. Los Angeles, CA. 2:12 pm, Poster #502

Inducible basal keratinocyte-specific knockout of the LAMA3 gene: More than another model for epidermolysis bullosa. Monique Aumailley. Gundula Grimberg, Monika Pesch and Haiyan Qu. Cologne, Germany. 2:36 pm Poster #499

CM7- Auto-Immunity & Inflammation

Kiva Auditorium, Albuquerque Convention Center

6. Treatment with anti-IFN and anti-CXCR3 antibodies prevent the onset of alopecia areata in mice. Luzhou Xing, Zhenpeng Dai, Ali Jabbari, Angela Christiano and Raphael Clynes. New York, NY. 3:00 pm, Poster #098

7. A quantitative increase in regulatory T cells controls development of vitiligo. Shilpak Chatterjee, Jonathan Eby, Amir A. Al-khami, Myroslawa Soloshchenko, Hee-Kap Kang, Navtej Kaur, Osama S. Naga, Anuradha Murali, Michael I. Nishimura, Caroline LePoole and Shikhar Mehrotra. Charleston, SC and Maywood, IL. 3:12 pm, Poster #140

8. Oxidative stress-induced CXCL16 production mediated CD8+ T cells trafficking in vitiligo. Shuli Li, Sen Guo, Qiong Shi, Rui Ge, Jingjing Ma, Gang Wang, Tianwen Gao and Chunying Li Shaanxi, China. 3:24 pm, Poster #048

CM8- Genetic Diseases/Gene Regulation/Gene Therapy

Ballroom B, Albuquerque Convention Center

Meta-analysis of genome-wide association studies in alopecia areata reveals new susceptibility loci. L. Petukhova, R. C. Betz, S. Ripke, H. Huang, A. Menelaou, S. Redler, T. Becker, S. Heilmann, M. Duvic, M. Hordinsky, D. Norris, V. Price, J. Mackay-Wiggan, G. M. DeStefano, M. Bohm, U. Blume-Peytavi, H. Wolff, G. Lutz, R. Kruse, B. Blaumeiser, D. Altshuler, M. Nothen, P. I. W de Bakker, M. Daly and A. M. Christiano. New York, NY; Bonn, Germany; Boston, MA; Houston, TX; Minneapolis, MN; Denver, CO; San Francisco, CA; Münster, Germany; Berlin, Germany; Düsseldorf, Germany; Wesseling, Germany; Paderborn, Germany; Antwerp, Belgium and Utrecht, Netherlands. 2:00 pm, Poster #455

2. Somatic activating mutations in HRAS and NRAS cause cutaneous skeletal hypophosphatemic syndrome. Young H. Lim, Diana Ovejero, Jeffrey Sugarman, Lawrence Eichenfield, Moise Levy, Michael Collins and Keith A. Choate. New Haven, CT; Bethesda, MD; San Francisco, CA; San Diego, CA and Austin, TX. 2:12 pm, Poster #467

4. Genetic basis of congenital wound disorders: Aplasia cutis congenital Alexander Marneros Boston, MA. 2:36 pm, Poster #451

5. Cole disease results from mutations in ENPP1.

O. Eytan, F. Morice-Picard, O. Sarig, J. Nousbeck, K. Ezzedine, O. Isakov, Q. Li, A. Ishida-Yamamoto, N. Shomron, T. Goldsmith, N. Adir, J. Uitto, S. J. Orlow, A. Taieb and

- E. Sprecher. Tel Aviv, Israel; Bordeaux, France; Philadelphia, PA; Asahikawa, Japan; Haifi, Israel and New York, NY. 2:48 pm, Poster #416
8. Analysis of CARD14 polymorphisms in pityriasis rubra pilaris: Activation of NF-KB. Q. Li, H. J. Chung, J. Andrews, H. Sabaawy, E. Sprecher and J. Uitto. Philadelphia, PA; New Brunswick, NJ and Tel Aviv, Israel. 3:24 pm, Poster #465
9. Corrected patient-specific, iPSC-derived epithelial sheets for dystrophic epidermolysis bullosa. Vittorio Sebastiano, Hanson Zhen, Pei Wang, Bahareh Haddad, Elizaveta Bashkirova, Mohamed Ameen, Zurab Sibrashvili, Sandra Melo, Jiang Li, Seung Kim, Alfred Lane, Marius Wernig and Anthony Oro. Stanford, CA. 3:36 pm, Poster #453
11. Sirolimus normalizes skin and dramatically reduces internal tumors in a mouse model of tuberous sclerosis complex (TSC). Peter Klover, Rajesh Thangapazham, Jiro Kato, Ji-an Wang, Shaowei Li, Stasia A. Anderson, Victoria Hoffmann, Elizabeth McCart, Neera Nathan, Joel Moss and Thomas N. Darling. Bethesda, MD. 4:00 pm, Poster #454

CM9- Human Clinical Research & Therapeutics
Ballroom A, Albuquerque Convention Center

6. Cyclosporine A treatment in atopic dermatitis results in suppression of Th2/Th22 inflammation and epidermal pathology. Saakshi Khattri, Avner Shemer, Mariya Rozenblit, Mayte Suarez-Farinas, Nikhil Dhingra, Jim G. Krueger and Emma Guttman-Yassky. New York, NY and Tel Aviv, Israel. 3:00 pm, Poster #518
7. Patient-centered, direct-access online care model for follow-up management of atopic dermatitis: A randomized controlled trial. April W. Armstrong, Mary Ann Johnson, Steven Lin, Thomas Nesbitt, Richard Kravitz and Fu-Tong Liu. Aurora, CO. 3:12 pm, Poster #561
8. Impact of ixekizumab on blood neutrophil levels and the incidence of infections caused by candida albicans or staphylococcus aureus. Andrew Blauvelt, D. K. Braun, Gregory S. Cameron, David Shrom and Michael P. Heffernan. Portland, OR and Indianapolis, IN. 3:24 pm, Poster #519
9. Time course classification of response to treatment in psoriatic patients. Joel M. Corrêa da Rosa, Suyan Tian, Carrie Brodmerkel, A. B. Gottlieb, James Krueger and Mayte Suarez-Farinas. New York, NY; Changchun, China; Spring House, PA and Boston, MA. 3:36 pm, Poster #592

CM10- Hair & Cutaneous Development
Ballroom C, Albuquerque Convention Center

Roundtable Discussions 5:00 pm- 6:00 pm

North American Hair Research Society Scientific Meeting 6:00 pm- 9:30 pm
Brazos Room, Albuquerque Convention Center

7. The JAK 1/2 inhibitor baricitinib prevents and reverses alopecia areata in C3H/HeJ mice. Dai, Zhenpeng; Xing, Luzhou; Jabbari, Ali; Christiano, Angela; Clynes, Raphael. Poster #131

9. Gaining insight in the pathogenesis of alopecia areata through next generation T cell receptor sequencing. O'Malley, John T.; de Jong, Annemieke; Jabbari, Ali; Dai, Zhenpeng; Kurban, Mazen; Christiano, Angela; Clynes, Raphael. Poster #39

10. IL-2 blockade prevents the onset of alopecia areata in C3H/HeJ mice.

Dai, Zhenpeng; Xing, Luzhou; Jabbari, Ali; Christiano, Angela; Clynes, Raphael.

Poster #133

11. Functional genomics defines an association of the ligand-independent CTLA4 isoform with alopecia areata. Christiano, Angela; Bian, Li; Gros, Marilyn; Petukhova, Lynn; Dai, Zhenpeng; Clynes, Raphael. Poster #137

12. Screening for autoantigen epitopes involved in the development of alopecia areata. Wang, Eddy H.; Breitkopf, Trisia; Akhoundsadegh, Noushin; Dutz, Jan P.;

Shapiro, Jerry; McElwee, Kevin J. Poster #248

National Psoriasis Foundation 6:00 pm- 9:00 pm

Suite A-B, Albuquerque Convention Center

Trainee Dinner Session 7:00 pm- 9:00 pm

Ticketed event: registration required

Dona Ana, Albuquerque Convention Center

SATURDAY May 10, 2014

Plenary Session III 8:00 am- 9:00 am

Kiva Auditorium, Albuquerque Convention Center

A direct role for Δ Np63 in regulating the pruritogenic cytokine IL-31 and alarmin IL-33, in the pathogenesis of atopic dermatitis. Rose-Anne Romano. 8:12 am, Poster #84.

William Montagna lecture 9:00 am- 9:30 am

Kiva Auditorium, Albuquerque Convention Center

TGFbeta-signaling in Skin Homeostasis, Diseases and Cancer: Paradoxes and Broken Dogmas

Xiao-Jing Wang, MD/PhD

Julius Stone lecture 9:30 am- 10:00 am

Kiva Auditorium, Albuquerque Convention Center

Role of Prostaglandins in Skin Cancer

Alice P. Pentland, MD

****Clinical Scholars Program 10:00 am-12:00 pm**

Characterization of the basal cell layer of squamous epithelia and their stem cell niche: the role of TGFbeta. LeBras, Gregoire, Loomans, Holli, Clay, Kiara A.; Andl, Claudia D., Andl, Thomas. 10:05 am, Poster #775, Presented by Thomas Andl, PhD

2. CD155/TIGIT interaction is an immune checkpoint regulating antimelanoma immune responses. Takashi Inozume, Tomonori Yaguchi, Junpei Furuta, Kazutoshi Harada, Yutaka Kawakami, Shinji Shimada. 10:25 am, Poster #693, Presented by Takashi Inozume

Lecture

30 years in the making: Targeting the Hedgehog signaling pathway for advanced basal cell carcinomas
Jean Tang, MD/PhD

Merkel cell carcinoma: using the host immune response against a polyomavirus to track and attack an often-lethal skin cancer
Paul T. Nghiem, MD/PhD

Poster Session III 10:00 am-12:00 pm

Discussion: Poster #s 265-527 Odd & #s 528-790 Even
NE Exhibit Hall, Albuquerque Convention Center

Concurrent Minisymposia 12:30 pm- 3:30 pm

CM11- Epidemiology & Health Services Research
Kiva Auditorium, Albuquerque Convention Center

8. Eczema remains active with age. Katrina Abuabara. 1:54 pm, Poster #285
10. Psoriasis patient preferences for health-related benefit-risk tradeoffs using choice-format conjoint analysis. April W. Armstrong, Julie Wu and Elizabeth Brezinski. Aurora, CO and Sacramento, CA. 2:18 pm, Poster #312
11. Existing self-report tools are not suitable for measuring adherence to topical therapies in psoriasis. Rachael J. Thorneloe, Pauline Nelson, Chris Bundy, Christopher E. Griffiths, Darren M. Ashcroft and Lis Cordingley. Manchester, United Kingdom. 2:30 pm, Poster #320
12. Ranking the most disabling skin diseases in the United States of America in 2010. Robert Dellavalle, Chante Karimkhani and Lindsay N. Boyers. Aurora, CO; Denver, CO; New York, NY and Washington, DC. 2:42 pm, Poster #342

CM12- Pigmentation and Melanoma
Ballroom A, Albuquerque Convention Center

CM13- Epidermal Structure and Barrier Function
Ballroom B, Albuquerque Convention Center

2. Palmitoylation of plakophilin is required for desmosome assembly. Brett Roberts. 12:42 pm, Poster #390.
10. Loss of keratin K2 expression causes aberrant aggregation of K10, hyperkeratosis and inflammation. Heinz Fischer, Lutz Langbein, Julia Reichelt, Silke Praetzel-Wunder, Maria Buchberger, Mino Ghannadan, Erwin Tschachler and

Leopold Eckhart. Vienna, Austria; Heidelberg, Germany and Newcastle upon Tyne, United Kingdom. 2:18 pm, Poster #400

CM14- Innate Immunity & Microbiology

Ballroom C, Albuquerque Convention Center

9. G2A attenuates *Propionibacterium acnes* induction of inflammatory cytokines via regulation of MAPK signaling and is regulated by 13-cis-retinoic acid. Andrew J. Park, Min Qin, Lisa D. Hisaw, Aslan Pirouz, George W. Agak, Laura Marinelli, Hermes J. Garban and Jenny Kim. Los Angeles, CA. 2:06 pm, Poster #627

11. Skin-specific expression of IL-33 causes atopic dermatitis-like inflammation with activation of group 2 innate lymphoid cells in mice. Yasutomo Imai, Koubun Yasuda, Hitoshi Mizutani, Tomohiro Yoshimoto, Kenji Nakanishi and Kiyofumi Yamanishi. Nishinomiya, Japan; Milwaukee, WI and Tsu, Japan. 2:30 pm, Poster #618

12. The cutaneous microbiota in atopic dermatitis changes with topical corticosteroid and bleach bath treatment. Mercedes Gonzalez. 2:42 pm, Poster #624

Posters:

Poster #19: New insights into epidermal and dermal compartments of lesional and non-lesional atopic dermatitis skin using laser capture micro-dissection. H. Esaki et al.

Poster #27: *Propionibacterium acnes* promotes Th17 and Th17/Th1 responses in acne patients. M. Kistowska et al.

Poster #30: IL-17 regulates Th17-mediated inflammatory and antimicrobial defense responses induced by *Propionibacterium acnes*. G. Agak et al.

Poster #31: Proteomic analysis of CRH-treated regulatory T cells in atopic dermatitis. S. Jin et al.

Poster #39: Gaining insight in the pathogenesis of alopecia areata through next generation T cell receptor sequencing. J.T. O'Malley et al.

Poster #53: Patient-reported outcomes differ between psoriasis patients with clear and almost clear skin in the routine clinical practice setting: Results from the Dermatology Clinical Effectiveness Research Network. Junko Takeshita et al.

Poster # 57: The natural history of pediatric chronic cutaneous lupus. Lisa Arkin et al.

Poster #66: Dupilumab, a fully human anti-IL4R α mAb: Efficacy evaluation in a novel murine model with human IL-4 and IL4R α gene replacements. L. Wang et al.

Poster #85: RNA-Seq profiling increases the atopic dermatitis transcriptome and identifies pro-inflammatory genes with potential therapeutic implications. M. Suarez-Farinas et al.

Poster #94: Treatment of blood monocytes with substance P may lead to an up-regulation of inflammatory cytokines in vitro: A mechanism underlying the pathogenesis of atopic dermatitis. V. Yanofsky et al.

Poster #97: PCR array study of atopic dermatitis-relevant genes in IL-4 transgenic mice before and after onset of the skin lesion. L. Bao et al.

Poster #101: Compound 48/80-treated keratinocytes mimics neurogenic inflammation of atopic dermatitis: A new role of compound 48/80 as an inducer of

neurogenic inflammation. H.Lee et al.

Poster #113: Evaluating morbidity and association with autoimmune thyroiditis of chronic urticaria in children. E. Netchiporouk and M. Ben-Shoshan.

Poster #116: IL-33 deficiency exacerbates the atopic dermatitis-like phenotype in STAT6^{VT} transgenic mice. S. C. DaSilva-Arnold et al.

Poster #118: Histological analysis of acne samples reveals different macrophage populations within the pilosebaceous unit. D. Torocsik et al.

Poster #124: S100A8/A9 promotes concomitant inflammation and proliferation via distinctive receptor oligomerization –potential relevance to atopic dermatitis. M. Yamamoto-Tanaka et al.

Poster #131: The JAK 1/2 inhibitor baricitinib prevents and reverses alopecia areata in C3H/HeJ mice. Z. Dai et al.

Poster #187: Identification of novel susceptibility genes in trichothiodystrophy and xeroderma pigmentosum patients by use of exome sequencing. C. Kuschal et al.

Poster #263: Lipoproteins and bovine milk peptides stimulate lipogenesis and inflammatory response in human sebocytes. R. Sivamani et al.

Poster #283: Appearance-based video education is more effective than health-based video education in promoting sunscreen use among adolescents: A randomized controlled trial. William Tuong and A.W Armstrong.

Poster #298: Female gender and acne disease are jointly and independently associated with the risk of major depression and suicide: A national population-based study. C. Hong et al.

Poster #300: Longitudinally followed nevi in children and adolescents show significant size changes. X.Wu et al.

Poster #303: Feasibility, validity, and reliability of pediatric pruritus-specific outcome measures. A. Ismael et al.

Poster #315: Dermoscopic patterns of nevi have a distinct anatomical distribution in adolescents. M. Fonseca et al.

Poster #326: Subjective component of SCORAD provides unique information when assessing atopic dermatitis. R. Nakrani et al.

Poster #338: Eczematous response to squaric acid sensitization not required for scalp treatment initiation in alopecia areata. P. Vedak and D. Kroshinsky.

Poster #346: Initial findings for the effectiveness of using IVIG to treat Stevens-Johnson syndrome and toxic epidermal necrolysis. M. McEnery-Stonelake et al.

Poster #357: Distribution of corneodesmosomes on superficial corneocytes differs between infants and adults: A new look at the stratum corneum maturation. M. Haftek et al.

Poster #375: Topical application of recombinant filaggrin restores the skin barrier function in filaggrin-deficient mice. M.A. Parker et al.

Poster #388: Does filaggrin deficiency alter epidermal tight junctions and tissue inflammation? L.A. Beck et al.

Poster #410: Initial findings from whole exome sequencing of pediatric morphea lesional tissue. Yvonne Chiu et al.

Poster #413: Increased prevalence of headaches in PHACE syndrome. J. Yiu, B. Drolet, D. Siegel.

Poster #428: Bone abnormalities in trichothiodystrophy: Central osteosclerosis is a

prognostic marker for increased risk of early death. A.B. Barsell et al.

Poster #431: A novel trinucleotide deletion in 2B domain of KRT10 presents with a mild epidermolytic ichthyosis phenotype. H. Mirza et al.

Poster #432: Mutations in TTDN1 are associated with a unique trichothiodystrophy phenotype. E.R. Heller et al.

Poster #440: A B-lymphoproliferative disorder is associated with severe skin erosions in AEC syndrome. M.Mollo et al.

Poster #441: A novel nonsense PTCH1 mutation in a Chinese family with nevoid basal cell carcinoma syndrome. W. Jiang et al.

Poster #449: Intravenously administered type VII collagen derived from genetically engineered Chinese ovarian hamster cells reverses the DEB disease phenotype in C7-knockout mice: Implications for available DEB therapy. Y.Hou et al.

Poster #456: Network-based modeling of skin and hair autoimmune susceptibility in alopecia areata. J.C. Chen et al.

Poster #458: A spontaneous mutation in the c-terminus of desmoplakin results in mice with a sparse, wavy coat. C.H. Pratt et al.

Poster #459: A novel missense mutation in HOXC13 leads to pure hair and nail ectodermal dysplasia. D.A. Glass et al.

Poster #471: Genetic variants in the moyamoya susceptibility gene, RNF213, in PHACE syndrome. Dawn Siegel et al.

Poster #472: Disorders of keratinization: Genetic characterization of a large cohort via targeted and whole exome sequencing. L Boyden et al.

Poster #473: Whole exome sequencing powered genetic discovery in mosaic disease. J.L. Levinsohn et al.

Poster #474: Site-specific genome editing using TALENs for correction of dominant dystrophic epidermolysis bullosa. S. Shinkuma and A. Christiano.

Poster #475: Gene expression profiling in pachyonychia congenita skin. Y. Cao et al.

Poster #501: The absence of functional type VII collagen in RDEB patients causes faulty regulation of TGF-beta and profound skin scarring. X. Wang et al.

Poster #526: "Iceberg" hemangioma: A segmental scalp lesion marking extensive multifocal extracutaneous involvement. Melinda Chu et al.

Poster # 539: Acne Core Outcomes Research Network (ACORN): Standardizing outcome measures in acne trials. D. Thiboutot et al.

Poster #551: Evaluation of a novel emollient balm containing Aquaphilus dolomiae extract in atopic dermatitis children: Effect on clinical parameters, skin barrier and microflora. P. Bianchi et al.

Poster #570: Childhood eczema is associated with injury requiring medical attention. N.Garg and J. Silverberg.

Poster #600: Improvement in atrophic acne scars by topical adapalene 0.3% gel is associated with induction of procollagen I and III. M. Patel et al.

Poster #606: Gene expression profiling in alopecia areata reveals distinct molecular signatures. A. Jabbari et al.

Poster #608: Ichthyosis hystrix Lambert type and Curth–Macklin type are one entity with palms and soles unaffected (KRT10 mutation) / affected (KRT1 mutation). W. Wang et al.

Poster # 616: Skin cleansers alter the skin's ability to retain antimicrobial peptides and impact the survival of surface bacteria. Aimee Two et al.

Poster #623: Altered skin microbial communities associated with wet wrap therapy for severe eczema. M. Glatz et al.

Poster #631: Different propionibacterium acnes strains have variable pathogenicity. Y.Yu et al.

Poster #635: Human and companion animal microbiota sharing and association with methicillin-resistant staphylococcal colonization and infection. A.M. Misic et al.

Poster #688: Efficacy of a dietary supplement versus placebo on skin protection after UV exposure. P. A. Oyetakin-White et al.

Poster #698: Host genetic factors are associated with nevus count and dermoscopic patterns: Preliminary results from the study of nevi in children (SONIC). Irene Orlow et al.

Poster #724: Regions of birth and residence are predictors of vitiligo extent. J. Silverberg et al.

Poster #774: MiR-31 regulates a gene network involved in keratinocyte activation, migration and differentiation. K.A. Clay et al.

Poster #777: Translating research to practice: A tale of timolol and wounds. R. Isseroff et al.