

LIVE SESSIONS

Tuesday, May 4th

Plenary Lecture Session I (10:30 – 11:30a ET)

Abstract #693: [Gut dysbiosis plays a role in the development of alopecia areata](#)

A. R. Abdelaziz, J. Chen, B. N. Sallee, E. H. Wang, Z. Dai, E. Loesch, R. Perez-Lorenzo, L. A. Bordone, A. M. Christiano

Abstract #209: [Epidermal interferon production is positively regulated by Staphylococcus aureus in SLE and involves the STING pathway](#)

S. Sirobhusanam, M. K. Sarkar, H. Stickney, J. Banfield, J. E. Gudjonsson, J. M. Kahlenberg

Abstract #646: [Antimicrobial Perforin-2 in chronic wounds correlates with healing outcomes](#)

V. Chen, R. C. Stone, J. Burgess, N. Strbo, I. Pastar, M. Tomic-Canic

Wednesday, May 5th

American Dermato-Epidemiology Network (ADEN) Annual Meeting (8:00 – 9:30p ET)

Abstract #323: [Access to dermatologic care in urban underserved communities](#)

L. Roberson, S. Collier

Plenary Lecture Session II (10:30 – 11:30a ET)

Abstract #026: [CXCR4+ skin-resident natural killer T cells participate in cutaneous allergic inflammation in atopic dermatitis](#)

Z. Sun, J. Kim, S. Kim, K. Zhang, H. Kim, S. Kim, K. Lee, T. S. Kupper, C. Park

Abstract #097: [Adipose triglyceride lipase dependent adipocyte lipolysis inhibits dermal fibrosis](#)

E. A. Caves, V. Lei, V. Horsley

Pediatric Dermatology Session - PeDRA (12:30 – 2:00p ET)

Abstract #150: [PerIPHERAL nervous system degeneration in patients with xeroderma pigmentosum](#)

T. Lehky, P. Sackstein, D. Tamura, M. Quezado, T. Wu, S.G. Khan, N.J. Patronas, E. Wiggs, C.C. Brewer, J.J. DiGiovanna, K.H. Kraemer

Abstract #300: [Comparison of ItchyQuant, KidsItchyQoL and TweenItchyQoL: Pruritus assessment tools for 6-7- year-olds vs. 8-17 year olds](#)

H. Kong, S. Francois, S. Smith, M. Spraker, L.P. Lawley, G.K. Lee, K. Chen, J.S. Roberts, S. Chen

Abstract #314: [Comorbidities of pediatric hidradenitis suppurativa: A retrospective analysis](#)

J. Seivright, E. Collier, M. Hogeling, V. Shi, J. Hsiao

Abstract #422: [The Ichthyosis Scoring System \(ISS\): Development and validation of a novel ichthyosis severity assessment instrument](#)

Q. Sun, A. Paller, K. Choate

Abstract #206: [The distinct skin microbiota of congenital ichthyoses](#)

A. Paller, K. Tham, R.L. Lefferdink, K. Duan, S. Lim, E. Ibler, M. Chima, H. Kim, B. Wu, H. Abu-Zayed, S. Rangel, E. Guttman-Yassky, B. Lee, J. Common

POSTER AND EXHIBITOR SESSION I (2:30 – 4:00p ET)

Abstract #008: [Multiplexed skin immunophenotyping of new-onset dermatomyositis lesions following first time use of *Spirulina platensis*](#)

T. Vazquez, J. Patel, C. Bax, D. Diaz, M. Grinnell, E. Keyes, M. Sharma

Abstract #010: [Demystification of the effects of docosahexaenoic acid on the PPAR signaling pathway in psoriasis](#)

S. Morin, M. Simard, R. Pouliot

Abstract #013: [Different effects of combined blockade of IL-4/IL-13 and selective inhibition of IL-13 in in vitro model systems for atopic dermatitis with allergen stimulated lymphocytes](#)

T. Honstein, S. Evers, L. M. Roesner, J. Zeitvogel, T. Werfel

Abstract #015: [Role of hippo signaling in apoptosis of lupus keratinocytes](#)

G. Hile, P. Coit, S. Estadt, M. Maz, B. Xu, R. Wasikowski, L. Tsoi, A.C. Billi, J.E. Gudjonsson, A. Sawalha, J.M. Kahlenberg

Abstract #018: [TSST-1+ *Staphylococcus aureus* in bullous pemphigoid](#)

K.A. Messingham, M. Cahill, S. Kilgore, A. Munjal, P. Schlievert, J. Fairley

Abstract #021: [Multidimensional in situ immune profiling of discoid and subacute cutaneous lupus erythematosus](#)

T. Vazquez, J. Patel, E. Keyes, D. Yan, D. Diaz, M. Bashirm, R. Feng, M. Grinnell, V.P. Werth

Abstract #022: [UHRF1 downregulation promotes T follicular helper cell differentiation by increasing BCL6 expression in SLE](#)

M.I. Liu, Y.I. Hu, M. Zhao

Abstract #023: [Single-cell composition and architecture of cutaneous lupus](#)

A.C. Billi, F. Ma, O. Plazyo, R. Wasikowski, M. Gharaee-Kermani, A. Hurst, C. Dobry, L. Tsoi, M. Pellegrini, R. Modlin, J.E. Gudjonsson, J.M. Kahlenberg

Abstract #029: [Topical xenobiotics promote oral food allergy](#)

A. Eisenstein, A. Wang

Abstract #038: [High-throughput single-cell \$\alpha\beta\$ TCR sequencing identifies pathogenic CD8+ T cell clones that are sufficient to induce alopecia areata in a C3H/HeJ retrogenic model](#)

Z. Dai, E. H. Wang, E. Y. Lee, W. Zeng, R. Perez-Lorenzo, A.M. Christiano

Abstract #041: [CXCR3 blockade reduces skin germinal center B cells and autoantibody titers in murine cutaneous lupus erythematosus](#)

H.S. Raef, L. Wong, C. Garelli, E. Kim, M. Ahmed, K. Pike, S. Moses, J. Harris, A. Marshak-Rothstein, M. Rashighi, J. Richmond

Abstract #044: [Nonmelanoma skin cancer in children and young adults with iatrogenic risk factors](#)

A.C. Garza-Mayers, M. Azin, J. Huang, S. Demehri

Abstract #057: [Understanding the distinct roles of p53 family of transcription factors through identification of protein-protein interactions](#)

E. Guven Maiorov, K. King, N. Sakakibara, H. Matar, R. Ponnampereuma, W. Weinberg

Abstract #064: [Genome analysis reveals UV signature mutations in sun-exposed skin tumors in tuberous sclerosis complex](#)

X. Zhang, J. Wang, J. Roy, A. Cartron, H. Wu, A. Jones, P. Julien-Williams, M. Wilkerson, C. Dalgard, J. Moss, T. Darling

Abstract #075: [PTCH1 mutations in high-frequency basal cell carcinoma patients without Gorlin stigmata](#)

V.J. Hua, W.H. Chan, G.H. Cho, H. Do, I. Bailey, A. Oro, J. Tang, K.Y. Sarin

Abstract #121: [Unbearable transepidermal water loss \(TEWL\) experimental variability: Why?](#)

R.P. Peer, A. Burli, H. Maibach

Abstract #122: [Identification of novel molecular markers of disease severity and skin itchiness in children with atopic dermatitis](#)
D. Andersen, O. Yélamos, M. Røpke, M. Pont Giralt, N. Banhos Danneskiold-Samsøe, K. Kristiansen, J.N. Malvey, R. Guy, S. Puig, S. Brix

Abstract #124: [Lipidomic analysis of congenital ichthyotic skin suggests disruption in ceramide catabolism](#)
*S. Rangwani, L. Cowart, J. Allegood, S. Rangel, M.S. Bonkowski, **R.L. Lefferdink, E. Guttman-Yassky, A. Paller***

Abstract #126: [EphA2 is a novel regulator of autolysosome recycling at end-stage autophagy and a key regulator in epidermal proliferation](#)
H. Peng, J. Wang, W. Yang, N. Kaplan

Abstract #130: [Development of a minimally-invasive method, guided by in vivo non-invasive imaging, to sample atopic skin](#)
O. Yélamos, D. Andersen, P. Iglesias, M. Potrony, M. Dominguez, A. Herrero, B. Alejo, J. Mateu, M. Røpke, M. Pont Giralt, N. Banhos Danneskiold-Samsøe, K. Kristiansen, J. Malvey, R. Guy, S. Brix, S. Puig

Abstract #133: [Unbound corneocyte lipid envelopes in 12R-lipoxygenase deficiency support a direct role in lipid-protein crosslinking](#)
*J.M. Meyer, D. Crumrine, H. Schneider, A. Dick, M. Schmuth, R. Gruber, F. Radner, S. Grond, J. Wakefield, T. Mauro, **P. Elias***

Abstract #135: [Comparing hydration levels in healthy normals vs. atopic dermatitis and xerosis cutis using a novel wireless, non-invasive sensor](#)
*D. Lin, J. Chang, A. Banks, J. Rogers, **A. Paller**, S. Xu*

Abstract #141: [Translation and growth pathways are directly influenced by autoimmune regulator \(Aire\) in skin keratinocytes](#)
R.P. Feehan, T. Gao, P.M. Ioffreda, R. Hobbs

Abstract #142: [Optimization of the barrier function of a tissue-engineered skin model through supplementation of cell culture media with docosahexaenoic acid](#)
A. Tremblay, M. Simard, P. Julien, R. Pouliot

Abstract #143: [Skin barrier dysfunction initiates psoriasis inflammation via activating FPR1-ER stress-NLRC4 axis in keratinocytes](#)
S. Shao, Z. Sun, E. Dang, G. Wang

Abstract #146: [A two-phase model of epidermal stratification: Lessons from centrosomes](#)
M. Damen, L. Wirtz, E. Soroka, H. Khatif, C. Kukat, B. Simons, H. Bazzi

Abstract #147: [Role of voltage-gated T-type calcium channel in acute and chronic itch](#)
S. Kim, S. Chung, S. Lee

Abstract #149: [Dermatologic manifestations of PIK3CA-related Overgrowth Spectrum \(PROS\)](#)
M. Tollefson, O. Davies, B. Drolet

Abstract #150: [Peripheral nervous system degeneration in patients with xeroderma pigmentosum](#)
T. Lehky, P. Sackstein, D. Tamura, M. Quezado, T. Wu, S.G. Khan, N.J. Patronas, E. Wiggs, C.C. Brewer, J.J. DiGiovanna, K.H. Kraemer

Abstract #151: [Complex phenotypes in trichothiodystrophy patients with XPD \(ERCC2\) mutations](#)
J. Jeskey, E.H. Rizza, M. Sarihan, S.G. Khan, J. Boyle, D. Tamura, N. Mendelsohn, B.P. Brooks, M. Merideth, J.J. DiGiovanna, K.H. Kraemer

Abstract #154: [Glucocorticoids promote inflammation by induction of CCL20 expression in keratinocytes](#)
*L. Wang, M. Yang, X. Wang, Q. Ju, **D. Eichenfield**, B. Cheng, B. Sun*

Abstract #155: [Assessment of safety in repeat dosing of an in vivo topical gene therapy for the treatment of recessive dystrophic epidermolysis bullosa \(RDEB\) in a phase I/II trial](#)

M. Marinkovich, S. Forte, S. Oliver, J. Dolorito, K. Sridhar, H. Liu, N. Reitze, N. Sarma, S. Krishnan

Abstract #157: [A comparison study of Outcome Measures for Epidermolysis Bullosa; Epidermolysis Bullosa Disease Activity and Scarring Index \(EBDASI\) and the Instrument for Scoring Clinical Outcomes of Research for Epidermolysis Bullosa \(iscorEB\)](#)

C. Rogers, M. Gibson, J.S. Kern, L.K. Martin, S.J. Robertson, J.C. Su, B.S. Daniel, D.F. Murrell

Abstract #158: [Generation of junctional epidermolysis bullosa model mice with revertant mosaicism](#)

H. Nguyen, S. Shinkuma, S. Takashima, M. Mori, M. Ikawa, H. Shimizu, R. Abe

Abstract #159: [Congenital leukonychia caused by a mutation in the GJB2 gene](#)

R. Yokoyama, R. Hayashi, O. Ansai, A. Hasegawa, S. Shinkuma, R. Abe

Abstract #164: [ENPP1 variants in patients with GACI and PXE: Genotype/phenotype overlap of heritable disorders with ectopic mineralization](#)

D. Ralph, S. Terry, M.A. Levine, J. Uitto, Q. Li

Abstract #165: [Elucidating the METTL3-m6A epitranscriptome in epidermal development and carcinogenesis](#)

A.M. Maldonado López, Y. Aubert, A. Anderson, E. Ko, F. Liu, B. C. Capell

Abstract #166: [Functional characterization of missense variants in ABCC6, the gene responsible for pseudoxanthoma elasticum](#)

J. Huang, L. Kowal, J. Singh, A.E. Snook, J. Uitto, Q. Li

Abstract #170: [Psoriasis and coronary artery disease share a genetic risk factor through IFIH1](#)

M.T. Patrick, S. Sreeskandarajan, Q. Li, N. Mehta, J.E. Gudjonsson, J.T. Elder, D. Liu, L. Tsoi

Abstract #172: [Inherited STK4/MST1 deficiency in two unrelated families with atypical epidermodysplasia verruciformis](#)

A. Saeidian, L. Youssefian, S. Sotoudeh, A. Goodarzi, H. Mahmoudi, M. Yousefi, S. Zeinali, J. Casanova, E. Jouanguy, J. Uitto, H. Vahidnezhad

Abstract #173: [Patient reported outcomes following EB-101 treatment of recessive dystrophic epidermolysis bullosa \(rdeb\) wounds showed durable wound healing and reduction in disease burden](#)

J. Tang, M. Marinkovich, M. Barriga, I. Bailey, N. Harris, D. Rudin

Abstract #177: [Integrative computational analysis identifies eQTL-lincRNA pairs associated with alopecia areata](#)

I. Monga, S. Erjavec, L. Petukhova, A.M. Christiano

Abstract #179: [The pivotal role of the autotaxin/lysophosphatidic acid pathway in RDEB fibrosis and scarring](#)

D. Mosallaei, Y. Hou, J. Cogan, D.T. Woodley, M. Chen

Abstract #183: [Differential gene expression in psoriatic vs. normal T-cells is enhanced by CD3-CD28 activation](#)

Z. Zhang, Y. Zhao, L. Tsoi, R.P. Nair, P.E. Stuart, X. Wen, J.T. Elder

Abstract #185: [GJB2 mutations in patients with ichthyosis follicularis and histopathology of porokeratotic adnexal ostial nevus](#)

L. Youssefian, F. Abdollahimajd, M. Naji, F. Rajabi, H. Mahmoudi, K. Kamyab Hesari, F. Ghalamkarpour, M. Zabihi, M. Teimoorian, L. Youssefian, S. Zeinali, J. Uitto, H. Vahidnezhad

Abstract #186: [Kindler epidermolysis bullosa-like skin phenotype and downregulated basement membrane zone gene expression in poikiloderma with neutropenia and a homozygous USB1 mutation](#)

H. Vahidnezhad, L. Youssefian, A. Touati, A. Saeidian, N. Harvey, M. Zabihi, M. Barzegar, S. Sotoudeh, L. Liu, A. Guy, A. Kariminejad, S. Zeinali, L. Boyden, K. Choate, J.A. McGrath, J. Uitto

Abstract #396: [Dermatology consent form readability: A barrier to comprehension and inclusivity](#)

A. Faletsky, J.J. Han, S.J. Li, K. Lee, Y. Soliman, M. Stephens, J. Ko, A. Mostaghimi

Abstract authors in **bold** are PeDRA Members.

Abstract #397: [Dupilumab improves health-related quality of life \(HRQoL\) in children aged ≥6–<12 years with severe atopic dermatitis \(AD\)](#)

A.D. Irvine, M. Deleuran, A. Praestgaard, D. Delevry, N.A. Levit, A.B. Rossi

Abstract #398: [Comparison of patient satisfaction after the laser treatment of female hirsutism: Low fluence or high fluence?](#)

F. Etaee, M. Ebrahimzadeh Ardakani, M. Azad, N. Ghanei, T. Naguib, A. Suggs

Abstract #400: [BOTE \(Beginning Of The End\) inflammation can be enhanced with SB206, a nitric oxide-releasing topical medication for molluscum contagiosum](#)

T. Maeda-Chubachi, D. Hebert, E. Siegfried, E. Messersmith

Abstract #401: [Using electronic health records to evaluate factors associated with treatment escalation in psoriasis](#)

J.L. Rhoads, W. Malatestinic, R. Burge, M.L. Ganz, S. Saravanan, K.C. Duffin

Abstract #403: [Discoid lupus and positive smoking history are negative predictors of disease activity remission in cutaneous lupus](#)

S. Florez-Pollack, S.K. Rizvi, L.S. Hynan, B.F. Chong

Abstract #405: [Dupilumab normalizes expression of type 2 inflammatory genes](#)

J.D. Hamilton, M.H. Collins, W. Lim, S. Hamon, M.F. Wiperman, A. Radin, M. Chehade, I. Hirano, E.S. Dellon, S. Harel, K. Patel, M.E. Rothenberg

Abstract #406: [Dermatologist and patient perspectives on implementing cardiovascular risk prevention in the management of psoriasis: A qualitative study](#)

A. Gustafson, A.E. Lieberman, J.B. Mason, A. Armstrong, A. Ogdie, N. Mehta, R. Beidas, J. Gelfand

Abstract #408: [Sunscreen use and photosensitivity in lupus patients](#)

L.A. DeLouise, J. Anolik, T.A. Jusko, C.T. Richardson

Abstract #411: [Demographic and clinical factors associated with patient-reported remission in psoriasis](#)

G. Gondo, E. Haderler, N. Brownstone, E. Maverakis, J. Merola, A. Armstrong, T. Bhutani, S. Bell, W. Liao

Abstract #413: [Association between atopic dermatitis and headaches throughout childhood and adolescence – A longitudinal study](#)

J. Manjunath, J.I. Silverberg

Abstract #414: [Treatment of refractory cutaneous Crohn's disease with ustekinumab](#)

B.M. Patel, C. Ramos Rivers, F. Koutroumpakis, M. Ahsan, J. Dueker, J. Hashash, E. Johnston, A. Barrie, J. Harrison, M. Schwartz, D. Babichenko, G. Tang, D.G. Binion

Abstract #418: [Treatment of patients experiencing dupilumab facial redness with itraconazole and fluconazole: A single institutional retrospective medical record review](#)

D.X. Gao, S. Song, J.S. Kahn, S.R. Cohen, K. Fiumara, N. Dumont, D. Rosmarin

Abstract #419: [Effects of anti-calcitonin gene related peptide migraine medications on psoriasis and atopic dermatitis severity](#)

E. Pope, F. Bawany, L.A. Beck, J. Ryan Wolf

Abstract #421: [Defining flares in cutaneous lupus erythematosus using the cutaneous lupus erythematosus disease area and severity index \(CLASI\)](#)

E. Keyes, R. Borucki, R. Feng, M. Grinnell, T. Vazquez, D. Diaz, V.P. Werth

Abstract #422: [The Ichthyosis Scoring System \(ISS\): Development and validation of a novel ichthyosis severity assessment instrument](#)

Q. Sun, A. Paller, K. Choate

Abstract #423: [Factors impacting likelihood of discontinuing immunosuppression in dermatomyositis: A single-center study](#)
S. Cho, D. Fiorentino

Abstract #424: [Health disparities in clinical trials for mycosis fungoides/Sézary syndrome: A systematic review](#)
S. Rastogi, L. Zhou, E.J. Kim

Abstract #427: [Discerning patient perspectives towards specific treatments of alopecia areata using artificial intelligence](#)
J. Jueng, A. Su, B. Maner, J. Meisenheimer, **L. Dupuis**, R. Dellavalle, I. Brooks, S. Shaikh, V. Burton, **J.A. Solomon**

Abstract #430: [Atopic dermatitis is not associated with maternal alcohol use or alcohol use during adolescence](#)
J. Manjunath, J.I. Silverberg

Abstract #431: [Correlation of the peripheral blood CD4/CD8 ratio with the disease stage and overall survival in mycosis fungoides](#)
C. Lu, L. Chang, K. Doeden, W. Leyva, J. Deng

Abstract #432: [Calcipotriene 0.005%/betamethasone dipropionate 0.064% foam as a treatment for nail psoriasis: A case series](#)
S. Akhtar, M. Perez, J. Sharma, A. Canazza, M. Zaiac

Abstract #437: [SMASH: Perceived stigma and social health in patients with chronic skin disease](#)
G. Lee, F. Tausk, K. Somers, C.T. Richardson, M. Mercurio, L.A. Beck, J. Ryan Wolf

Abstract #445: [Mycophenolate mofetil and methotrexate in dermatomyositis treatment](#)
M. Grinnell, E. Keyes, D. Diaz, T. Vazquez, R. Feng, V. Werth

Abstract #447: [Quality appraisal of recent guidelines for adult atopic dermatitis](#)
S. Ghazal, Z. Ridha, K. D'aguanno, D. Nassim, C. Jack

Abstract #448: [Evaluation of psoriasis severity using AI](#)
T. Okamoto, M. Kawai, S. Shimada, T. Kawamura

Abstract #452: [Use of technology for the objective evaluation of scratch: A systematic review](#)
A.F. Yang, M. Nguyen, A.W. Li, A. Fishbein, **A. Paller**, S. Xu

Abstract #455: [Correlation between objective measures of sleep and nocturnal scratch in children with atopic dermatitis](#)
A.F. Yang, S. Xu

Abstract #456: [Mapping recommendations of recent guidelines for adult atopic dermatitis](#)
S. Ghazal, Z. Ridha, D. Nassim, K. D'aguanno, C. Jack

Abstract #458: [Hidradenitis suppurativa: Delays in care and misdiagnoses](#)
J. Rick, A.M. Thompson, J. Fernandez, M. Maarouf, J.L. Hsiao, V.Y. Shi

Abstract #459: [Screening for hearing loss in pediatric alopecia areata](#)
L. Castelo-Soccio, S. Rangu, P. McKenzie

Abstract #462: [Clinical improvement in primary cicatricial alopecias following mast cell stabilizer treatment](#)
E.H. Wang, B.N. Sallee, A.R. Abdelaziz, J. Chen, L.A. Bordone, A.M. Christiano

Abstract #463: [Automated atopic dermatitis severity assessment based on convolutional neural networks](#)
S. Cho, D. Lee, B. Han, J. Lee, J. Hong, J. Chung, D. Lee, J. Na

Abstract #464: [3D head visualization for mapping and tracking dermatological conditions](#)
T. Mane, A. Bayramova, E. Bernardis

Abstract #550: [Inpatient burden of Lyme Disease in Skin of Color](#)
R. Khanna, S.S. Makhani, B. Nguyen

Abstract authors in **bold** are PeDRA Members.

Abstract #551: [No racial differences in mental health comorbidities in psoriasis patients](#)

A. Kohn, **S. Pourali**, Y. Gutierrez, M. Jones, J. Rajkumar, C. Read, A. Armstrong

Abstract #557: [Assessment of skin of color and diversity and inclusion content published in the Journal of Investigative Dermatology: An analysis and call to action](#)

B.N. Wilson, **M. Sun**, J. Olayinka, D.F. Murrell, J. Murase

Abstract #558: [Scalp cooling therapy for chemotherapy-induced alopecia including skin of color patients: A review of the literature](#)

R.L. Quinonez, G.E. Beraja, J.J. Jimenez

Abstract #559: [Racial disparities in melanoma: Subtypes, stage at diagnosis, and mortality in the U.S.](#)

K. Ratnakumar, T.N. Nguyen, M. Kawasumi

Abstract #561: [Patient-dermatologist racial/ethnic and gender concordance are associated with higher Press Ganey scores](#)

J. Takeshita, R. Fitzsimmons, D. Shin

Abstract #564: [Using the CLASI score to categorize and identify risk factors for disease activity and damage in CLE](#)

L. Abbas, K. Nandy, B.F. Chong

Abstract #571: [Morphea in patients of color: A cross sectional study of the morphea in adults and children \(MAC\) cohort](#)

L. Abbas, A. Joseph, **H. Jacobs**

Abstract #615: [Efficacy and safety of Oleogel-S10 \(birch triterpenes\) for recessive dystrophic epidermolysis bullosa \(RDEB\): Results of 3 months double-blind treatment of the phase 3 study 'EASE'](#)

A. Bruckner, J.S. Kern, E. Sprecher, M. Fernandez, T. Cunningham, M. Sumeray, D.F. Murrell

Abstract #618: [Glucose transporter 1 enhances glycolysis, oxidative stress, and fibroblast proliferation in keloid](#)

Y. Lu, C. Hong, K. Chang, C. Lee

Abstract #625: [Contribution of miRNAs as epigenetic regulators of retinol efficacy in the skin dermis](#)

V. Bardey, N. Pelletier, L. Danoux, L. Philip, C. Reymermier

Abstract #628: [The impact of a wound dressings starter kit on hidradenitis suppurativa patient quality of life](#)

C. Schneider, D.P. Sanchez, F. MacQuhae, S. Stratman, H. Lev-Tov

Abstract #629: [PLGA-immune modifying particles as a potential therapy for treating injured skin](#)

U. Onay, D. Biyashev, D. Xu, M. Demczuk, S.T. Evans, J. Techner, S.D. Miller, K. Lu

Abstract #630: [IRF6 is required for directed cell migration in murine primary keratinocytes](#)

R. Avvari, L. Rhea, M. Dunnwald

Abstract #635: [Mechanical stretch mobilizes Lgr6+ stem cells to drive skin growth](#)

Y. Xue, C. Lyu, A.V. Ee, A. Kiemen, D. Wirtz, L.A. Garza, S. Reddy

Abstract #636: [Factors associated with prolonged wound healing](#)

A. Kuzyk, C. Zhang, L. Parsons

Abstract #638: [Cellular senescence profiling of chronic wounds](#)

S. Wyles, J. Lehman, M. Li, A. Weaver, T. Tchkonja, J. Kirkland, A. Meves

Abstract #642: [REDD1 \(regulated in development and DNA damage 1\) is essential for skin wound healing](#)

G. Baida, A. Ismail, I. Budunova

Thursday, May 6th

Plenary Lecture Session III (10:30 – 11:30a ET)

Abstract #439: [Oral 25-hydroxyvitamin D3 reduces chemical-induced skin inflammation in humans](#)

J. Techner, R. M. Rothbaum, L. Christensen, S. T. Evans, U. Onay, D. Biyashev, M. Demczuk, K. D. Cooper, K. Lu

Abstract #487: [Topical MEK inhibition as precision targeted chemoprevention](#)

B. Sell, J. Shahryari, A. Shah, M. Duncton, W. Sun, P. Fenn, S. Plotkin, J. Kincaid, K. Y. Sarin, K. Y. Tsai

POSTER AND EXHIBITOR SESSION II (2:30 – 4:00p ET)

Abstract #089: [The mevalonate pathway enzyme HMGCS1 upregulation in keratinocytes contributes to psoriasis by promoting IL-23 expression](#)

H. Xiong, D. Huang

Abstract #104: [Comparative transcriptomic profiles of cutaneous sarcoidosis and granuloma annulare](#)

X. Li, M.H. Patel, C.M. Brumfiel, A. Hughes, A. Sekulic, M.R. Pittelkow, S.A. Nelson, A. Mangold

Abstract #187: [Viral reactivation and severe systemic syndromes in post-stem cell transplant patients](#)

A. Burns, R.F. Ambinder, S. Rozati

Abstract #188: [IL-36 \$\beta\$ or IL-36 \$\gamma\$ induces peeling skin syndrome-like symptom by suppressing TGM5 and CDSN in a three-dimensional human epidermis model](#)

E. Sato, S. Kawasaki, M. Sakaguchi, K. Nakamura, S. Imafuku

Abstract #189: [Microbial expression of lantibiotics may explain discrepancies between *S. aureus* culturability and metagenomics in atopic dermatitis subjects and healthy controls](#)

J.L. Forman, T. Yoshida, J. Lillis, A. Gill, A. Corbett, M. Cahill, A. Lockhart, E. Simpson, M. Boguniewicz, J. Hanifin, A. De Benedetto, G. David, D. Leung, P. Schlievert, S. Gill, L.A. Beck

Abstract #193: [Epidermal invasion by *Malassezia* spp. yeasts in 3D-reconstructed tissue](#)

B. Tirtiaux, Y. Poumay, C. Lambert de Rouvroit, E. Faway

Abstract #195: [Comprehensive succinylome profiling reveals the pivotal role of lysine succinylation in energy metabolism and quorum sensing of *Staphylococcus epidermidis*](#)

Y. Zhao, R. Qi, H. Chen, X. Gao

Abstract #200: [Phenotypic heterogeneity of heterozygous dedicator of cytokinesis 8 \(DOCK8\) mutations](#)

A. Mahmoudabadi

Abstract #206: [The distinct skin microbiota of congenital ichthyoses](#)

A. Paller, K. Tham, R.L. Lefferdink, K. Duan, S. Lim, E. Ibler, M. Chima, H. Kim, B. Wu, H. Abu-Zayed, S. Rangel, E. Guttman-Yassky, B. Lee, J. Common

Abstract #208: [Sarecycline demonstrates reduced activity against representative fungal and bacterial species commonly found in the human gastrointestinal tract](#)

M.A. Ghannoum, L. Long, S. Joussef, T.S. McCormick, A. Grada

Abstract #211: [Tight junction changes associate with increased epidermal susceptibility to viruses](#)

M.C. Moran, M.G. Brewer, R.P. Pandya, T. Yoshida, B.M. Ward, S. Gill, L.A. Beck

Abstract #213: [A multitargeted approach for soothing irritated skin](#)

C. Crane, T. Oswald, C. Hwang, J.S. Craw, T. Falla, K. Rodan, K. Fields

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H. Kim, H. Gu, J. Lim, Y. Jung

Abstract #217: [The dynamic change of the skin microbiome in severe hidradenitis suppurativa after short term effective treatment with adalimumab](#)

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Abstract #220: [A retrospective study of acute graft-versus-host disease and its mimickers in the post-transplant period](#)

C. Calhoun, E. Stallman, S. Jaglowski, B. Kaffenberger

Abstract #221: [Pharmacological properties of Myrtacine and Celastrol extracts on Cutibacterium acnes and immuno-inflammatory cascade involved in acne](#)

C. Mias, M. Maitre, N. Chansard, M. Galliano, L. Garidou, V. Mengeaud, S. Bessou-Touya, H. Duplan

Abstract #227: [Effect of triamcinolone & manuka honey on Staphylococcus aureus growth & hemolytic activity](#)

R.P. Pandya, L.A. Beck, T. Yoshida

Abstract #231: [Bacteroides colonization is associated with reduced depigmentation in vitiligo](#)

E.R. Dellacecca, R.S. Shivde, J. Mhlaba, C. Cosgrove, R. Kundu, S. Rangel, I.C. Le Poole

Abstract #232: [The association between topical calcineurin inhibitor use and risk of cancer: A systematic review and meta-analysis](#)

M. Lam, J. Zhu, M. Tadrous, A.M. Drucker

Abstract #233: [Differences in outpatient dermatology encounter work Relative Value Units by patient race, sex, and age](#)

L.A. Orenstein, M.M. Nelson, Z. Wolner, M. Laugesen, Z. Wang, R.E. Patzer, R.A. Swerlick

Abstract #236: [Opiate use in dermatology in the United States: A population-based study using the national ambulatory medical care survey](#)

S. Pourali, *A. Kohn, Y. Gutierrez, M. Jones, J. Rajkumar, G. Kostandy, A. Armstrong*

Abstract #242: [The epidemiology of atopic eczema in older adults: A population-based study in the United Kingdom](#)

L.N. Chan, A. Magyari, M. Ye, N. Al-Alusi, S.M. Langan, D. Margolis, C.E. McCulloch, K. Abuabara

Abstract #246: [The association between adenotonsillectomy and alopecia areata in childhood: A nationwide population-based retrospective cohort study](#)

H. Lee, S. Cho, D. Yu, D. Kim, O. Kwon

Abstract #250: [Direct healthcare cost of atopic dermatitis in the Swedish population](#)

I. Lindberg, A. de Geer, G. Ortsäter, A. Rieem Dun, K. Geale, J.P. Thyssen, L. Von Kobyletzki, A. Metsini, D. Henrohn, P. Neregard, A. Cha, J.C. Cappelleri, W. Romero, M.P. Neary

Abstract #252: [Dermatology on TikTok: Analysis of content and creators](#)

M. Nguyen, R. Youssef, A. Kwon, R. Chen, J.H. Park

Abstract #253: [Racial differences in cutaneous sarcoidosis](#)

J. Lai, Y. Semenov, N. Sutaria, S. Roh, J. Choi, Z. Bordeaux, N. Kim, J. Alhariri, S. Kwatra

Abstract #256: [Female sex and white race are associated with Hidradenitis Suppurativa diagnostic delay](#)

F.B. Rinderknecht, M. Paul, N. Hills, H. Naik

Abstract #257: [Examination of characteristics and treatments in pediatric and adult hidradenitis suppurativa](#)

J.H. Hardin, R. Makadia, E. Brouwer, S. Black, I. Lara-Corrales, L. Diaz, J. Sciacca Kirby, C. DeKlotz

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J.S. Barbieri, *O. Rodriguez, M. Rosenbach, D. Margolis*

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T. Engel, A. Nguyen, J. Fergus, R. Dellavalle, E. Maverakis, R. Sivamani

Abstract #261: [A national, retrospective cohort study to estimate survival and standardized mortality in tuberous sclerosis complex \(TSC\) patients: Late disease diagnosis is significantly associated with increased mortality](#)

J. Peng, H. Tu, C. Hong

Abstract #264: [Understanding diversity in eczema clinical trial participation](#)

I. Thibau, W. Smith Begolka

Abstract #265: [A meta-epidemiologic study of power and sample size in randomized controlled trials published in dermatology journals](#)

A. Bridgman, M. McPhie, S. Voineskos, A. Chan, A.M. Drucker

Abstract #266: [Risk of opportunistic, viral, and hospitalized infections in atopic dermatitis](#)

J. Wan, D. Shin, M. Syed, K. Abuabara, J. Gelfand

Abstract #268: [Analysis of association between variation in ambient solar ultraviolet exposure and disease severity for patients with moderate-severe psoriasis](#)

T.S. Okun, M.M. Okun

Abstract #271: [“Moisturize and get off any steroid cream”: An analysis of social media posts regarding TCS use in AD](#)

J. Rajkumar, A.H. Kohn, S. Pourali, M. Jones, Y. Gutierrez, A. Armstrong

Abstract #272: [Access and usage of technology among patients with dermatologic conditions](#)

D. Linggonegoro, K. Williams, J. Huang

Abstract #273: [Reluctance towards digital image sharing and challenges for tele dermatology](#)

G. Wei, K. Turner, K. Hennessy, L. Seminario-Vidal

Abstract #276: [Risk of headache and migraine in patients with atopic dermatitis- A population based cohort study](#)

B.E. Hefele, D. Shin, J. Wan, J. Gelfand

Abstract #283: [Cumulative ultraviolet radiation exposure is associated with both increased melanoma and non-cutaneous cancer risk](#)

M.S. Chang, R.I. Hartman, E.L. Giovannucci, H. Nan, X. Li

Abstract #285: [Age of melanoma diagnosis in patients with limited English proficiency](#)

D. Barzallo, D.P. DeMeo, B.T. Carroll

Abstract #286: [Dermatology visits account for a majority of dermatologic diagnoses: A representative sample of U.S. outpatient visits](#)

V. Ranpariya, S. Muddasani, A.B. Fleischer, S.R. Feldman

Abstract #288: [Characterizing risk factors for hospitalization for psoriasis patients](#)

C. Kovalchin, J. Kaffenberger, J. Trinidad, T. Gilkey, A. Minta, J.E. Gudjonsson, B. Kaffenberger

Abstract #289: [Wrong-site surgery in medicine and dermatology: Analysis of data from the Joint Commission and from the Patient Safety Authority of Pennsylvania](#)

J.S. Taylor, R.A. Yonash, M.A. Taylor

Abstract #290: [Evaluating clinical features and the presence of eosinophilia in pityriasis rubra pilaris](#)

S. Ghatnekar, N. Shah, M. Min, D. Mazori, A. Lachance, R. Vleugels, V. Nambudiri

- Abstract #295: [Multimodal skin lesion classification in dermoscopy and clinical images using a hierarchical attention fusion network](#)
X. He, Y. Wang, S. Zhao, X. Chen
- Abstract #297: [Risk stratification of patients with stage I cutaneous melanoma \(CM\) using 31-gene expression profiling \(GEP\)](#)
A.P. Quick, B.J. Martin, C. Bailey, K.R. Covington, R. Cook
- Abstract #300: [Comparison of ItchyQuant, KidsItchyQoL and TweenItchyQoL: Pruritus assessment tools for 6-7-year-olds vs. 8-17 year olds](#)
*H. Kong, S. Francois, S. Smith, M. Spraker, **L.P. Lawley**, G.K. Lee, K. Chen, J.S. Roberts, S. Chen*
- Abstract #304: [Lifestyle modifications associated with symptom improvement in Hidradenitis Suppurativa patients](#)
P. Macklis, K. Tyler, J. Kaffenberger, S.G. Kwatra, B. Kaffenberger
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*L. Abbas, A. Joseph, D. Glaser, D. Mathew, K. Torok, C. Derderian, **H. Jacobe***
- Abstract #308: [Risk factors associated with detection of osteomyelitis on magnetic resonance imaging in patients with cellulitis](#)
*S. Chand, R. Rrapi, J. Lam, T. Chakrala, Z. Yi, S. Song, E. Nguyen, **D. Kroshinsky***
- Abstract #310: [Risk factors associated with detection of cutaneous abscess on ultrasonography in patients with cellulitis](#)
*S. Chand, R. Rrapi, J. Lam, T. Chakrala, Z. Yi, S. Song, E. Nguyen, **D. Kroshinsky***
- Abstract #311: [Effects of ruxolitinib cream in patients with atopic dermatitis with head and/or neck involvement](#)
***E. Simpson**, R. Bissonnette, M.E. Kuligowski, M.E. Venturanza, K. Sun, J.I. Silverberg*
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*A. Blauvelt, J.C. Szepietowski, K. Papp, **E. Simpson**, J.I. Silverberg, B.S. Kim, S.G. Kwatra, M.E. Kuligowski, M.E. Venturanza, K. Sun, L. Kircik*
- Abstract #314: [Comorbidities of pediatric hidradenitis suppurativa: A retrospective analysis](#)
***J. Seivright**, E. Collier, **M. Hogeling**, V. Shi, J. Hsiao*
- Abstract #316: [The impact of COVID-19 on gender representation in academic dermatology publications](#)
M.D. Szeto, M. Laughter, M.B. Maymone, T.E. Sivesind, C.L. Presley, S.M. Lada, K.J. Pulsipher, R. Dellavalle
- Abstract #320: [Dupilumab in Canadian eczema clinic](#)
N. Merati, P. Patel, C. Jack
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- Abstract #326: [Clinical trial publication trends and disease focus: 2015-2019](#)
J.M. Swink, Z.H. Hopkins, Z. Frost, J. Olayinka, A.M. Secrest
- Abstract #327: [Food insecurity in wound healing](#)
S. Stratman, C. Schneider, D.P. Sanchez, H. Lev-Tov
- Abstract #329: [Efficacy of ruxolitinib cream in adults and adolescents with atopic comorbidities](#)
***E. Simpson**, M. Lee, K.K. Brar, M.E. Kuligowski, M.E. Venturanza, K. Sun, D. Toth*
- Abstract #333: [Atopic dermatitis: Patient characteristics and patient-reported outcomes on topical therapy](#)
P. Anderson, J. Austin, J. Lofland, J. Piercy, V. Joish

Abstract #344: [The infodemiology of impetigo: Examining trends and seasonality of public interest](#)

R. Raiker, H. Pakhchanian, A. Fong, V.A. Patel

Abstract #346: [Ensuring the content validity of a quality-of-life measure for patients with chronic itch](#)

L. Edwards, D.G. Schlundt, K. Bonnet, M. Chren

Abstract #351: [Most influential authors in dermatology: Standardized citation indicators from updated databases](#)

T.E. Sivesind, C.L. Presley, M.D. Szeto, **A. Afrin**, S.M. Lada, M. Laughter, M.B. Maymone, R. Dellavalle

Abstract #352: [Dermatology research with the Observational Health Data Sciences and Informatics \(OHDSI\) network](#)

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Abstract #354: [The problematic use of change scores in dermatology clinical trials](#)

Z.H. Hopkins, J.M. Swink, J. Olayinka, Z. Frost, A.M. Secrest

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E. Pedersen, P. Harms, L. Zhao, A. Andea, M. Chan, D. Fullen, L. Lowe, R. Patel, A. Durham

Abstract #357: [Qualitative study of pain experiences among patients with hidradenitis suppurativa](#)

N. Salame, M. Urbanski, M. Siira, A. Garg, D. Kavalieratos, R.E. Patzer, S. Chen, L. Orenstein

Abstract #358: [The association of patient income levels and prescribing patterns of psoriasis therapies in the medical expenditure panel survey](#)

S.J. Eley, D.P. DeMeo, N.J. Korman, B.T. Carroll

Abstract #359: [Boundary-aware convolutional neural network for skin lesion segmentation in clinical images](#)

Y. Wang, Z. Jin, S. Zhao, X. Chen

Abstract #360: [Factors in topical steroid selection: A qualitative study](#)

B. Kassamali, A. Faletsky, J.J. Han, L.M. Pérez-Chada, M.S. Lee, C. Lopez, K. Lee, A. Mostaghimi, A. Lachance

Abstract #361: [Prevalence of non-validated disease scores in dermatology clinical trials](#)

J. Olayinka, Z.H. Hopkins, J.M. Swink, Z. Frost, A.M. Secrest

Abstract #362: [Sociodemographic factors associated with scabies in the inpatient setting](#)

D.X. Zheng, C. Cullison, K. Mulligan, J.F. Scott

Abstract #363: [The impact of atopic dermatitis on caregivers of patients of all ages](#)

N. Tomaszewski, K. Batra, W. Smith Begolka, K. Capozza, S. Eftekhari, K.Z. Tullos, K. Abuabara

Abstract #364: [Cardiovascular risk in atopic eczema is only associated with active disease in adulthood](#)

M. Ye, A.R. Mulick, R. Silverwood, C.E. McCulloch, D. Margolis, D. Strachan, H. Williams, S.M. Langan, K. Abuabara

Abstract #365: [Adult atopic dermatitis is associated with lymphopenia in two large cohorts](#)

M. Ye, L. Hollenstein, K.E. Mansfield, K. Abuabara, S.M. Langan

Abstract #369: [Large scale epidemiological analysis of common inflammatory skin diseases to identify shared and unique comorbidities and demographical factors](#)

Q. Li, M.T. Patrick, S. Sreeskandarajan, J.M. Kahlenberg, J.E. Gudjonsson, J. Kang, Z. He, L. Tsoi

Abstract #370: [TikTok: An emerging social media platform for dermatologist influencers](#)

C.L. Presley, K.J. Pulsipher, H.R. Rietcheck, M.D. Szeto, M. Laughter, R. Dellavalle

Abstract #371: [Scarcity of the LGBTQ community in dermatology literature](#)

C.L. Presley, M.D. Szeto, K.J. Pulsipher, **S. Swink**, M. Militello, K. Ward, M. Laughter, R. Dellavalle

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Abstract #372: [Gender representation in academic dermatology: A necessary shift to the current paradigm](#)
M. Laughter, M. Yemc, C.L. Presley, K.J. Pulsipher, M.D. Szeto, T. Zangara, C. Rundle, M. Maymone, R. Dellavalle

Abstract #373: [The value of an anonymous online interactive forum: What questions are applicants asking?](#)
S.A. Veerabagu, J. Strunck, K. Lin, A. Wu, I. Jefferson, C.M. Brumfiel, R. Brodell, J. Etkorn

Abstract #375: [Consumer preferences of top-rated over-the-counter acne treatment products: A cohort study](#)
M. Sachar, M. Xiong, K.C. Lee

Abstract #376: [Suitability of clinical workflows for automation](#)
J. Ryan Wolf, I. Kim, Y. Xie, A. Pentland, B. Pentland

Abstract #377: [Using artificial intelligence \(AI\) to compare patient perspective of PD-1 and BRAF inhibitors for melanoma treatment](#)
*A. Su, J. Jueng, **L. Dupuis**, I. Brooks, R. Sinha, B. Maner, J. Meisenheimer, R. Dellavalle, V. Burton, **J.A. Solomon***

Abstract #378: [Impact of pregnancy on hidradenitis suppurativa: A systematic review and meta-analysis](#)
***J. Seivright**, N.M. Villa, T. Grogan, A.M. Thompson, V. Shi, J. Hsiao*

Abstract #383: [Rate of hidradenitis suppurativa readmission has increased in the united states: A 9- year longitudinal study of the national readmission database](#)
E. Edigin, S. Kaul, H. Shaka, P. Eseaton

Abstract #385: [Incidence, racial profile, and co-morbidity burden of hidradenitis suppurativa hospitalization has changed in the last decade: A longitudinal study of the national inpatient sample](#)
E. Edigin, S. Kaul, P. Eseaton, P.E. Ojemolon, H. Shaka

Abstract #386: [Incidence, co-morbidity burden and resource utilization of psoriasis hospitalization has increased in the last decade: A 11-year longitudinal study of the national inpatient sample](#)
E. Edigin, P. Eseaton, H. Shaka, P. Ojemolon

Abstract #387: [Biologic and nonbiologic systemic treatment of psoriasis are protective against solid organ, hematologic, and cutaneous cancer in a large multi-institution cohort](#)
*N. Theodosakis, N. Klebanov, P. Ugwu-Dike, **V. Pahalyants**, **W. Murphy**, A. Gusev, S.G. Kwatra, Y. Semenov*

Abstract #391: [Public sunscreen dispensers and consumer sunscreen trends during the COVID-19 pandemic](#)
J. Maghfour, C. Rundle, M.D. Szeto, C.L. Presley, C. Eason, C. Dunnick, J. Hugh, R. Dellavalle

Abstract #393: [Are we systematically excluding pediatric hidradenitis suppurativa patients from clinical trials?](#)
H. Bui, C. Sayed

Abstract #474: [IL-25 induces skin inflammation in mice: Effects of a selective JAK inhibitor](#)
Z. Su, H. McDonald, V. Todorovic, J. Wetter, S. Paulsboe, K. Chu, L. Leys, M. Namovic, D. Donnelly-Roberts, V. Scott, P. Honore, S. McGaraughty

Abstract #477: [Topical treatment of human skin and cultured keratinocytes with high-dose spironolactone reduces XPB expression and induces genotoxicity](#)
M.A. Carpenter, M.G. Kemp

Abstract #478: [Development of a tape-stripping/LC-MS method for evaluating deposition of topical tazarotene in skin](#)
Z. Draelos, M. Draelos

Abstract #480: [Cannabigerol: The mother of cannabinoids demonstrates a broad spectrum of anti-inflammatory and anti-microbial properties important for skin](#)

M. Schuetz, C. Savile, C. Webb, K. Rouzard, J.R. Fernandez, E. Perez

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Abstract #482: [Defining drugs that are high-risk associations for drug reactions within the hospital setting](#)

T. Gilkey, J. Trinidad, C. Kovalchin, A. Minta, M. Rosenbach, B. Kaffenberger

Abstract #492: [Safety profile of topical cannabidiol and palmitoylethanolamide: A compilation of clinical and in vitro studies](#)

T.E. Sivesind, J. Maghfour, H.R. Rietcheck, C. Rundle, R. Dellavalle, P. Lio, C. Dunnick, J. Fernandez, H. Yardley

Abstract #493: [Determination of the critical sources of cAMP for Crisaborole activity in human keratinocytes](#)

J. You, M. Reilly, M. Drozd, J. Bang, J. Zippin

Abstract #495: [From transcriptomes to drugs: Psoriasis as a model](#)

A. Hughes, X. Li, C.M. Brumfiel, M.H. Patel, M.R. Pittelkow, S.A. Nelson, A. Mangold, A. Sekulic

Abstract #498: [Efficacy of photobiomodulation therapy for the off-label treatment of alopecia in skin types V-VI](#)

S. Pratapaneni, M. Inyang, O. Raymond, J.A. Shaik, G. Bellefeuille, M. Hordinsky, R. Farah

Abstract #507: [A high throughput method of identifying naturally-occurring sunscreen agents](#)

A.G. Zhou, S. Tomer, J. Lewis, M. Girardi

Abstract #511: [Skin protection in extreme conditions: A multiparametric approach for a new SPF50+ suncare product containing TriAsorB](#)

P. Lapalud, S. Letellier, D. Bacqueville, S. Bessou-Touya, H. Duplan, F. Boyer

Abstract #512: [Phenylene Bis-Diphenyltriazine \(TriAsorB\), a new full-spectrum photoprotector against sunlight radiation induced skin damage](#)

D. Bacqueville, C. Jacques-Jamin, H. Dromigny, F. Boyer, D. Redoulès, S. Bessou-Touya, H. Duplan

Abstract #516: [Quantitation of blue light irradiation dose emitted by electronic communication devices and its potential impact on human skin](#)

W. Jia, G. Diwakar, N. Kata, D. Kern, T. Milner

Abstract #520: [Exploring the melanoma survivorship experience: A qualitative study](#)

Z.J. Wolner, N. Flowers, S. Chen, H. Yeung

Abstract #525: [Genipin contained in gardenia fruit induced skin pigmentation](#)

M. Mizawa, T. Andoh, T. Shimizu

Abstract #527: [Expression of OPN3 correlating to tumor initiation and development in cutaneous melanoma](#)

W. Zhang, H. Lu

Abstract #528: [Opsin3 expression in human nevus and reconstructed nevus model in vitro](#)

X. Dong, H. Lu

Abstract #529: [HHLA2 modulates MMP/NF-kappa B recycling to drive malignant melanoma metastasis](#)

Y. Chen, D. Luo

Abstract #530: [Analysis of BRAF mutation and expression of NGFR and P16 in nevus and melanoma](#)

J. Feng, W. Zeng, H. Lu

Abstract #534: [The impact of particulate matter on melanogenesis](#)

Y. Ahn, E. Lee, J. Kim, Y. Bae, S. Park, J. Choi, J. Lee, S. Oh

Abstract #536: [Impact of electrical impedance spectroscopy on diagnostic accuracy and clinician confidence in a survey-based evaluation of melanocytic skin lesions suspicious for melanoma](#)

A.M. Kolla, L. Fried, P. Shah, T. Liebman, J. Stein, D. Polsky

Abstract authors in **bold** are PeDRA Members.

Abstract #540: [Human skin organ culture permits to preclinically assess the effects of “UV-free tanning” and “skin lightening” agents on epidermal melanogenesis](#)

M. van Lessen, T. Biro, J. Edelkamp, M. Bertolini, R. Paus

Abstract #545: [Long-term outcome of pigmented lesions clinically suspicious for melanoma previously tested with the Pigmented Lesion Assay \(PLA\): Results from the TRUST Study](#)

J. Rock, M.K. Skelsey, G. Peck, S. McKitty, B. Brouha, T. Frumento, S. Jazayeri, Z. Yao, M.D. Howell, B. Jansen

Abstract #574: [A deep learning classifier for the analysis of tiger tail banding in trichothiodystrophy](#)

A. Ho, E.H. Rizza, J. Jeskey, S. Folarin, D. Tamura, S.G. Khan, X. Zhou, J.J. DiGiovanna, C.L. Evans, K.H. Kraemer

Abstract #575: [An extract of *Leontopodium alpinum* prolongs anagen phase in human hair follicles ex vivo](#)

R. Campiche, A. Le Riche, J. Edelkamp, E. Martin, M. Gempeler, M. Bertolini

Abstract #576: [A systematic review of autologous adipose-derived stromal vascular fraction \(SVF\) for the treatment of noncicatricial alopecia](#)

B.Y. Kang, A.W. Li, M.H. Lee, C.C. Wong, N. Naseer, S.A. Ibrahim, E. Keimig, E. Poon, M. Alam

Abstract #585: [UBE2N is essential for normal epidermal homeostasis and controlling inflammation](#)

M. Ben Hammouda, J. Yingai, Y. Huang, H. Sun, J. Zhang

Abstract #600: [Evaluation of anti-hairloss shampoo through in vitro activity in human hair follicle dermal papilla cells and sensorial study](#)

C. Mas, F. Sanches, V. Mengeaud, A. Coutinho, S. Bessou-Touya, F. Chaves, H. Duplan

Abstract #602: [mTORC1 activity controls human scalp hair follicle pigmentation and growth](#)

J. Cheret, T. Suzuki, F. Scala, J. O'Sullivan, C. Nicu, J. Gherardini, G. Epstein-Kuka, A. Bauman, C. Demetriades, R. Paus

Abstract #603: [Depilatory laser induces dermal papilla cell necrosis through thermal diffusion and miniaturizes hair](#)

H. Chiu, W. Wang, C. Kuan, S. Lin

Abstract #649: [Validation of the Optimal Psoriasis Assessment Tool \(OPAT\) as a method of assessing psoriasis severity and impact from physician and patient perspectives](#)

C. Leonardi, R.B. Warren, K. See, R. Burge, G. Gallo, M. McKean-Matthews, S. Park, C. de la Cruz, M. El Sayed, B. Strober

Abstract #651: [Moisturizer prevents skin barrier damage induced by prolonged face mask usage](#)

L. Feng, Q. Zhang, N. Ruth, Y. Wu, C. Saliou, M. Yu

Abstract #652: [Using implementation science to understand tele dermatology during the COVID-19 pandemic](#)

S. Briggs, J. Lipoff, S. Collier

Abstract #656: [A computational approach to understanding rosacea, acne, and hidradenitis suppurativa](#)

J.S. McGee, L. Li, Y. Wang, G. Church

Abstract #657: [Characteristics and merits of NIH award recipients of dermatology research](#)

A.M. Thompson, K.N. Price, S. Atluri, D. Yee, J.L. Hsiao, V.Y. Shi

Abstract #658: [Readability of isotretinoin resources from iPLEDGE in English and Spanish](#)

M. Cowden, D.P. DeMeo, B.T. Carroll

Abstract #662: [Dupilumab associated facial and neck erythema](#)

C. Jo, A. Finstad, J.R. Georgakopoulos, V. Piguat, J. Yeung, A.M. Drucker

Abstract #666: [Effect of dupilumab on the host-microbe interface in atopic dermatitis](#)

L.A. Beck, M. Boguniewicz, T. Hatta, Z. Chiesa Fuxench, **E. Simpson**, A. De Benedetto, J. Ko, P. Ong, T. Yoshida, R. Gallo, P. Schlievert, S. Gill, T. Mosmann, E. Berdyshev, G. David, S. Lussier, A. Rudman Spergel, D. Leung

Abstract #668: [Qualitative assessment of patient values in decision making for alopecia areata: Preliminary results](#)

J.J. Han, A. Faletsky, S. Ghatnekar, K. Lee, S.J. Li, P. Manjalay, L.M. Pérez-Chada, K. Huang, A. Mostaghimi

Abstract #670: [Leukocytes as an objective measure of hidradenitis suppurativa disease severity](#)

T.M. Andriano, G. Benesh, K. Campton, H. Hosgood, S.R. Cohen

Abstract #673: [Health-related quality of life in pyoderma gangrenosum: A qualitative analysis](#)

K.B. Nusbaum, B. Kaffenberger

Abstract #676: [Variation in Medicare topical steroid prescription costs](#)

A. Faletsky, B. Kassamali, J.J. Han, A. Lachance, A. Mostaghimi

Abstract #677: [Personal protective equipment needs during the COVID-19 pandemic: A survey of medical dermatologists](#)

S. Chand, R. Rrapi, C. Gabel, Y. Levin, V. Neel, **D. Kroshinsky**

Abstract #680: [Novel injectable coolant induced reduction in cutaneous nerve fiber density is comparable to the FDA-approved cryoneurolysis device](#)

S. Moradi Tuchayi, Y. Wang, I. Pence, C.L. Evans, R.R. Anderson, **L. Garibyan**

Abstract #681: [Identifying inflammatory gene expression signatures for skin and soft tissue infections](#)

J. Yeh, M. Pereira da Silva, A. Raff, R.K. Foreman

Abstract #682: [Lebrikizumab directly reverses IL-13 driven neuronal gene regulation and neuronal excitability](#)

Y. Miron, P.E. Miller, C. Hughes, E.A. Lerner, F. Cevikbas

Abstract #683: [Xerosis cutis and its association with chronic inflammatory illnesses](#)

B.N. Bubic, S. Kang, A. Chien

Abstract #684: [Distinct IL-13 production and accumulation in lesional and non-lesional skin of atopic dermatitis patients](#)

G. Isola, V. Gimenez-Riviera, C. Jack

Abstract #688: [How to soothe scalp irritation when your head is covered most of the day?](#)

A. Mandeau, M. Borel, J. Attia

Abstract #689: [An integrated scalp and blood biomarker approach suggests the systemic nature of alopecia areata](#)

J. Glickman, C. Dubin, D. Dahabreh, J. Han, E. Del Duca, Y. Estrada, N. Zhang, G. Kimmel, G. Singer, J.G. Krueger, A.B. Pavel, **E. Guttman-Yassky**

Abstract #690: [Atopic dermatitis-induced psychological stress-related behavioral changes in NC/Nga mice model](#)

J. Ryu, M. You, Y. Jang, D. Kim, M. Kwon, J. Shin

Abstract #692: [Interrogating mechanisms of granuloma annulare pathogenesis through RNA sequencing](#)

E. Xing, A.C. Billi, L. Tsoi, J.E. Gudjonsson

Abstract #694: [Topical steroids as a noninvasive treatment for pediatric pyogenic granulomas](#)

H. Neale, **D. Moustafa**, S.M. Ostrowski, S.E. Gellis, **E.B. Hawryluk**

Abstract #700: [Vascularization in the deep dermis of hidradenitis suppurativa lesions](#)

S. Williams, K. Navrazhina, J. Frew, S. Garcet, J.G. Krueger

Abstract #703: [Blood analysis uncovers novel inflammatory, oncologic and cardiovascular biomarkers in psoriasis and Hidradenitis Suppurativa](#)

K. Navrazhina, Y. Renert-Yuval, J. Frew, D. Grand, S. Garcet, J.G. Krueger

Abstract #704: [Transcriptomic immune sensors and endotype modeling in psoriasis via systems biology](#)

J.B. Golden, B. Richardson, M. Cartwright, A.B. Young, T.S. McCormick, K.D. Cooper, M. Cameron

Abstract #705: [Not 'Just Another Kinase': The therapeutic potential of JAK inhibitors in the treatment of atopic dermatitis](#)

M. Le, M. Berman Rosa, F. Ghazawi, I. Litvinov

American Acne & Rosacea Society Scientific Virtual Symposium (6:00 – 8:30p ET)

Abstract #240: [Differences in Acne Therapy Prescribing Patterns Between Pediatricians and Dermatologists](#)

*M. Jones, **S. Pourali**, A.H. Kohn, Y. Gutierrez, J. Rajkumar, I. Singh, A. Armstrong*

Abstract #281: [Racial and Language Disparities in Teledermatology Visits for Acne During the COVID-19 Pandemic](#)

*M.S. Lee, B. Kassamali, **N. Shah**, A. Lachance, V. Nambudiri*

Abstract #215: [Reactive Adipogenesis in the Perifollicular Stroma Is a Component of the Host Immune Response in Acne](#)

M.C. Liggins, A. O'Neill, F. Li, J. Seidman, J. Chang, F. Shafiq, T. Hatta, R. Gallo

Abstract #228: [Shifts in the Skin Bacteria and Fungi in Healthy Children Transitioning through Puberty](#)

J. Park, N.H. Schwardt, J. Jo, J. Portillo, M.A. Macgibeny, M. Pensler, J. Yanovski, J. Segre, H.H. Kong

Abstract #219: [Isotretinoin Disrupts Skin Microbiome Composition and Metabolic Function After 20 Weeks of Therapy](#)

*Z.T. Nolan, K. Banerjee, Z. Cong, S. Gettle, A. Longenecker, X. Zhan, Y. Imamura, **A. Zaenglein**, D. Thiboutot, A. Nelson*

Abstract #199: [Activity of Sarecycline in Murine Models of Infection and Inflammation](#)

C. Bunick, J. Del Rosso, S. Tying, M. Draper, J.L. Johnson, A. Grada

Abstract #319: [Acne, Androgenetic Alopecia, and Atopic Dermatitis in Transgender Patients on Hormone Therapy: A Retrospective Comparative Cohort Study](#)

J.L. Gao, E.D. Dommasch

Abstract #171: [Hidradenitis Suppurativa Genome-Wide Association Study](#)

A. Khan, C.P. Lu, M. Hayes, J. Connolly, F. Mentch, P. Sleiman, H. Hakonarson, E. Mukherjee, C. Weng, G. Hripcsak, K. Kiryluk, L. Wheless, L. Petukhova

Abstract #394: [Intramuscular Triamcinolone for Acute Hidradenitis Suppurativa Flares](#)

G. Benesh, T.M. Andriano, K. Campton, S.R. Cohen

Abstract #030: [Defining Adaptive and Innate Immune Cell Profiles in Hidradenitis Suppurativa at the Single Cell Resolution](#)

W. Yu, M. Marohn, M. Lin, J. Barrett, E. Chiu, C.P. Lu

Friday, May 7th

American Hair Research Society Scientific Session (12:00 – 3:30p ET)

Abstract #020: [Induction of hair loss by expanded CD4 T cells from previously affected AA mice](#)

S.J. Connell, S. Crotts, P. Christy, L. Ortolan, N. Henderson, A. Jabbari

Abstract #037: [Functional interrogation of immune cell types identified by single-cell RNA sequencing in alopecia areata](#)

E.Y. Lee, Z. Dai, E.H. Wang, E. Chang, A.M. Christiano

Abstract #593: [Asynchronous and perturbed catagen regression in C3H/HeJ mice precedes the onset of alopecia areata](#)
J. Kim, A.M. Christiano

Abstract #589: [Hair follicle chemosensation: TRPM5 signaling is required for anagen maintenance](#)
A. Mardaryev, M. van Lessen, F.J. Acosta, T. Biro, R. Paus

Abstract #280: [Epidemiology of alopecia areata in black patients](#)
B. Feaster, A.J. McMichael

Biomarkers in psoriasis and psoriatic arthritis: Moving towards personalized therapy session (1:00 – 3:00p ET)

Abstract #176: [Transethnic analysis of psoriasis susceptibility in South Asians and Europeans enhances finemapping in the MHC and genomewide](#)
P.E. Stuart, L. Tsoi, R.P. Nair, M. Ghosh, M. Kabra, P.A. Shaiq, R. Qamar, T. Tejasvi, J.J. Voorhees, A. Franke, V.K. Sharma, J.T. Elder

Abstract #687: [Comparing the pediatric and adult plaque psoriasis transcriptomes](#)
W. Tom, *C. Shimizu, A. Fostino, J. Kim*

Saturday, May 8th

Plenary Lecture Session IV (10:30 – 11:30a ET)

Abstract #184: [Whole-transcriptome analysis by RNA-Seq for genetic diagnosis of Mendelian skin disorders in the context of consanguinity](#)
L. Youssefian, A. Saeidian, P. Fortina, A. South, J. Uitto, H. Vahidnezhad

ON DEMAND

Mini-Symposium: Adaptive and Auto-Immunity

Abstract #002: [Colitis alters the antigen-specific response to skin commensal bacteria and predisposes to neutrophilic skin inflammation](#)
G. R. Merana, M. Dhariwala, T. Scharschmidt

Abstract #012: [FABP5-induced Th17 polarization in atopic march](#)
J. Lee, B. Kim, K. Zhang, S. Kim, T. S. Kupper, K. Lee, C. Park

Abstract #019: [Vgll3 causes discoid lupus-like fibrosis in a mouse model of lupus](#)
M. Gharaee-Kermani, A. C. Billi, J. M. Kahlenberg, J. E. Gudjonsson

Abstract #024: [Immune microenvironment deep profiling of cutaneous lupus erythematosus skin stratified by patient response to antimalarials](#)
J. Patel, T. Vazquez, D. Yan, E. Keyes, D. Diaz, Y. Li, M. Grinnell, R. Feng, V. Werth

Abstract #027: [Langerhans cells rely on good neighbors to overcome gene deficiencies](#)
C. Herbst, A. Bouteau, Q. Su, B. Z. Igyártó

Abstract #033: [IL-15 is an unexpected guardian of hair follicle immune privilege and promotes human hair growth ex vivo](#)
T. Suzuki, F. Scala, J. Gherardini, C. Nicu, J. O'Sullivan, G. Epstein-Kuka, T. Purba, J. Cheret, R. Paus

Abstract #035: [Expansion of bacterial phosphatidylglycerol reactive CD4+ T cells in atopic dermatitis](#)
G. C. Monnot, M. Wegrecki, B. N. Sallee, L. A. Bordone, C. H. Rohde, J. Rossjohn, A. de Jong

Abstract #036: [IL-23 maintains tissue resident memory Th17 cells in murine and psoriatic skin](#)
S. K. Whitley, M. Li, T. Hirai, J. Ho, R. Lafyatis, M. J. McGeachy, D. H. Kaplan

Abstract authors in **bold** are PeDRA Members.

Mini Symposium: Cell-Cell Interactions in the Skin

Abstract #087: [Expression of opsin 3 in skin tissues and hemangioma vessels and may be involved in vascular development](#)

H. Luo, H. Lu

Abstract #095: [Bioengineering a complex skin equivalent for skin care applications](#)

L. Costello, K. Goncalves, A. Simpson, L. Smith, M. Freer, V. Maltman, P. De Los Santos Gomez, P. Ritchie, B. Hulette, R. Tasseff, T. Dicolandrea, K. Mills, R. Isfort, C. Bascom, S. Przyborsk

Abstract #100: [Pathogenic CD8+ T cells form cytolytic immune synapses to mediate hair follicle destruction in Alopecia Areata](#)

R. Gund, E. Mace, A. M. Christiano

Abstract #102: [Transcriptomic profiling of cutaneous sarcoidosis](#)

X. Li, C. M. Brumfiel, M. H. Patel, A. Hughes, A. Sekulic, M. R. Pittelkow, S. A. Nelson, A. Mangold

Abstract #106: [IL-33 signaling in sensory neurons promotes dry skin itch](#)

A. M. Trier, M. R. Mack, J. Guo, M. Tamari, A. Fredman, L. K. Oetjen, J. Feng, R. W. Gereau, S. Davidson, H. Hu, Q. Liu, B. S. Kim

Abstract #107: [CO-Detection by indexing \(CODEX\) reveals clinically distinct classes of eczematous rashes](#)

Y. Liu, C. P. Cook, J. B. Cheng, R. Cho

Mini Symposium: Epidermal Structure and Barrier Function

Abstract #109: [IL-4 and IL-13 cytokines drive sex steroid hormone synthesis and lipid abnormalities in sebocyte during atopic dermatitis pathogenesis](#)

C. Zhang, M. Chinnappan, M. Artami, K. Eckert, G. Vale, J. McDonald, T. Harris-Tryon

Abstract #111: [Type XVII collagen modulates epidermal patterning](#)

Y. Wang, H. Kitahata, H. Kosumi, M. Watanabe, Y. Fujimura, S. Takashima, S. Osada, T. Hirose, W. Nishie, M. Nagayama, H. Shimizu, K. Natsuga

Abstract #116: [SDR9C7 catalyzes the critical dehydrogenation of acylceramides for skin barrier formation](#)

T. Takeichi, T. Hirabayashi, Y. Miyasaka, A. Kawamoto, Y. Okuno, S. Taguchi, K. Tanahashi, C. Murase, H. Takama, K. Tanaka, W. Boeglin, M. Calcutt, D. Watanabe, M. Kono, Y. Muro, J. Ishikawa, T. Ohno, A. R. Brash, M. Akiyama

Abstract #117: [Effect of the antimicrobial peptide derived from insulin-like growth factor-binding protein 5 on skin barrier regulation](#)

H. L. Nguyen, J. V. Trujillo, G. Peng, H. Yue, M. Takahashi, R. Ikutama, Y. Umehara, H. Ogawa, S. Ikeda, F. Niyonsaba

Abstract #118: [Ichthyosis transcriptome reveals increased atherosclerosis markers and immune and barrier differences amongst subtypes](#)

M. Kim, D. Mikhaylov, M. Sun, K. Malik, H. He, Y. Renert-Yuval, A. B. Pavel, A. Paller, E. Guttman-Yassky

Abstract #123: [Skin-resident immune cells actively coordinate their distribution with epidermal cells during homeostasis](#)

S. Park

Abstract #139: [Heterochromatin maintenance is crucial for terminal keratinocyte differentiation and inhibition of inflammatory responses in the epidermis](#)

G. Chen, A. Aziz, T. Sharova, E. Rozhkova, L. Yang, N. Lau, V. A. Botchkarev, K. Muegge, A. Sharov

Mini-Symposium: Genetic Disease, Gene Regulation, and Gene Therapy

Abstract #153: [A specific mutation in TRPM4 predisposes mice to psoriasiform dermatitis \(PsD\)](#)

D. Yamada, S. Vu, X. Wu, Z. Shi, M. Huynh, J. Zheng, S. Hwang

Abstract #160: [Replacing COL7A1-deficient epidermis over the entire body by autografting cultured revertant keratinocytes in severe recessive dystrophic epidermolysis bullosa](#)

T. Fusumae, M. Tsuchiya, K. Yashiro, H. Kitahara, M. Amagai, A. Kubo

Abstract #161: [Pharmacogenetics study of different psoriasis treatments](#)

H. Zhang, M. T. Patrick, P. E. Stuart, R. P. Nair, T. Tejasvi, J. T. Elder, L. Tso

Abstract #162: [Application of microdissection-based spatial transcriptomics for mechanistic and biomarker investigations in dermatology](#)

T. Miyai, H. Kawasaki, H. Matsunaga, M. Hosokawa, A. Sekita, H. Takeyama, M. Amagai, H. Kosek

Abstract #167: [INZ-701 prevents ectopic mineralization in an Abcc6^{-/-} mouse model of pseudoxanthoma elasticum](#)

J. D. Jacobs, Q. Li, Z. Cheng, K. O'Brien, D. Thompson, J. Uitto, Y. Sabbagh

Abstract #180: [ASPRV1 mutations cause dominantly inherited ichthyosis](#)

L. Boyden, J. Zhou, R. Hu, T. Zaki, E. Loring, J. Scott, H. Traupe, A. Paller, R. Lifton, K. Choate

Abstract #181: [Tristetraprolin family members repress early T cell cytokine production and are recurrently downregulated in diverse human rashes](#)

C. P. Cook, Y. Liu, R. Schmidt, S. B. Ramos, A. Marson, R. Cho, J. B. Cheng

Abstract #182: [Functional genomic analysis of STX17 in alopecia areata reveals a novel role in melanocyte function](#)

S. Erjavec, A. R. Abdelaziz, C. Wang, P. Lin, I. Monga, R. Gund, I. Ionita-Laza, L. Petukhova, A. M. Christiano

Mini-Symposium: Innate Immunity, Microbiology, and Microbiome

Abstract #190: [Commensal microbiota regulates skin barrier function and repair via signaling through the aryl hydrocarbon receptor](#)

A. Uberoi, C. Bartow-McKenney, Q. Zheng, L. Flowers, A. Campbell, S. Knight, N. Chan, M. Wei, V. Lovins, J. Bugayev, J. Horwinski, C. Bradley, J. Meyer, D. Crumrine, C. Sutter, P. Elias, E. Mauldin, T. Sutter, E. Grice

Abstract #191: [Small proline-rich proteins \(SPRRs\) function as antimicrobial proteins in the skin](#)

C. Zhang, Z. Hu, A. Lone, M. Artami, T. Harris-Tryon

Abstract #192: [Bile acids improve psoriasiform dermatitis with inhibition of IL-17A production and CCL20-CCR6 mediated trafficking of T cells](#)

Z. Shi, X. Wu, Y. Y. Wan, S. Hwang

Abstract #198: [TNF directs protective neutrophil and IL17+ \$\gamma\delta\$ T cell responses against Staphylococcus aureus skin infections](#)

C. Youn, M. P. Alphonse, D. Dikeman, Y. Wang, S. Nolan, N. A. Orlando, L. Miller, N. K. Archer

Abstract #201: [A basophil-neuronal axis promotes itch](#)

F. Wang, A. M. Trier, F. Li, S. Kim, Z. Chen, J. Chai, M. Mack, S. Morrison, J. D. Hamilton, J. Baek, T. B. Yang, A. M. Ver Heul, A. Z. Xu, Z. Xie, X. Dong, M. Kubo, H. Hu, C. Hsieh, X. Dong, Q. Liu, D. Margolis, M. Ardeleanu, M. J. Miller, B. S. Kim

Abstract #207: [Targeting of HDAC8 and HDAC9 in keratinocytes to enhance skin immune defense](#)

Y. Sawada, T. Dokoshi, N. Kulkarni, M. Liggins, T. Nakatsuji, G. Sen, R. Gallo

Abstract #210: [Eosinophil-derived IL-17 protects against epicutaneous Staphylococcus aureus infections](#)

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

Abstract #212: [Skin controls the gut immune response through innate ECM cross talk](#)

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

Abstract #222: [Whole-blood immune profile in hidradenitis suppurativa](#)

P. Dimitrion, C. Yin, K. Subedi, N. Khalasawi, Y. Yao, A. Miller, J. Veenstra, G. Vellaichamy, H. Lim, I. Hamzvi, L. Zhou, Q. Mi

Abstract authors in **bold** are PeDRA Members.

Abstract #225: [Induction of protective antimicrobial responses mediated by NOD2 as a treatment for wounds infected with multidrug-resistant bacteria](#)

S. Jatana, A. Ponti, J. A. Mack, E. V. Maytin, C. McDonald

Abstract #229: [Single cell transcriptomics identifies a potential role for Arg1+ macrophages in alopecia areata pathogenesis](#)

E. Y. Lee, E. H. Wang, Z. Dai, I. Monga, A. M. Christiano

Mini-Symposium: Patient Population Research

Abstract #247: [Four childhood atopic dermatitis subtypes identified from trajectory and severity of disease](#)

A. R. Mulick, K. E. Mansfield, R. Silverwood, A. Budu-Aggrey, A. Roberts, A. Custovic, N. Pearce, A. D. Irvine, L. Smeeth, K. Abuabara, S. M. Langan

Abstract #262: [Association of dermatologic manifestations of IBD with natural history and biomarkers of severity](#)

B. M. Patel, C. Ramos Rivers, F. Koutroumpakis, M. Ahsan, J. Dueker, J. Hashash, E. Johnston, A. Barrie, J. Harrison, M. Schwartz, D. Babichenko, G. Tang, D. G. Binion

Abstract #266: [Risk of opportunistic, viral, and hospitalized infections in atopic dermatitis](#)

J. Wan, D. Shin, M. Syed, K. Abuabara, J. Gelfand

Abstract #267: [Comorbidities among children with hidradenitis suppurativa](#)

N. L. Tamashunas, C. Wong

Abstract #270: [Association of lichen planus with cardiovascular disease: An international cohort study](#)

A. C. Leasure, J. N. Acosta, J. M. Cohen, G. J. Falcone

Abstract #284: [Rates, characteristics, and comparison of hidradenitis suppurativa readmissions in the united states: A national population-based study](#)

E. Edigin, S. Kaul, P. Eseaton, J. Albrecht

Abstract #328: [Data driven approach identifies hidradenitis suppurativa subtypes in electronic health records](#)

A. Bell, K. Babbush, A. Khan, M. Hayes, J. Connolly, F. Mentch, P. Sleiman, H. Hakonarson, E. Mukherjee, G. Hripcsak, K. Kiryluk, C. Weng, S. Cohen, L. Wheless, L. Petukhova

Abstract #339: [Impact and associations of atopic dermatitis out-of-pocket healthcare expenses in the United States](#)

R. Chovatiya, W. Smith Begolka, I. Thibau, J. I. Silverberg

Abstract #366: [Adverse reproductive outcomes among women with hidradenitis suppurativa](#)

A. Colvin, E. Dabela, A. Khan, M. Hayes, J. Connolly, F. Mentch, B. Almoguera, H. Hakonarson, E. Mukherjee, G. Hripcsak, C. Weng, K. Kiryluk, L. Wheless, L. Petukhova

Mini-Symposium: Patient-Targeted Research

Abstract #402: [Non-invasively stratifying atopic dermatitis patients based on inflammatory genes](#)

M. D. Howell, T. Allen, M. Hanhan, J. Rock, Z. Yao, B. Jansen, J. Dobak

Abstract #410: [Tape-strips capture gene-expression changes in moderate-to-severe atopic dermatitis patients treated with dupilumab](#)

D. Mikhaylov, E. Del Duca, C. Meyer Olesen, H. He, J. Wu, B. Ungar, Y. Estrada, N. Zhang, M. Chowdhury, M. Clausen, J. G. Krueger, A. B. Pavel, T. Agner, E. Guttman-Yassky

Abstract #412: [Immune and barrier characterization of atopic dermatitis skin phenotype in Tanzanian patients](#) *C. Lang, Y. Renert-Yuval, E. Del Duca, A. B. Pavel, J. Wu, N. Zhang, C. Dubin, A. Obi, M. Chowdhury, M. Kim, Y. Estrada, J. G. Krueger, H. Kaderbhai, G. Semango, P. Schmid-Grendelmeier, M. Brügggen, J. Masenga, E. Guttman-Yassky*

Abstract #417: [The molecular features of normal and atopic dermatitis skin in infants, children, adolescents and adults](#)
Y. Renert-Yuval, E. Del Duca, A. B. Pavel, **M. Fang, R. L. Lefferdink, J. Wu, C. Dubin, A. Diaz, Y. Estrada, T. Canter, N. Zhang, A. Wagner, S. Chamlin, J. G. Krueger, E. Guttman-Yassky, A. Paller**

Abstract #428: [Randomized, double-blind, placebocontrolled study of efficacy and safety of secukinumab to treat adults with ichthyoses](#)
R. L. Lefferdink, M. Chima, E. Ibler, A. B. Pavel, H. Kim, B. Wu, H. Abu-Zayed, S. Rangel, J. Wu, K. Zumpf, K. Jackson, K. Choate, E. Guttman-Yassky, A. Paller

Abstract #438: [A phase 1/2 trial of PTR-01, a collagen 7 \(C7\) protein replacement therapy, in patients with recessive dystrophic epidermolysis bullosa \(RDEB\)](#)
J. Tang, **A. Bruckner, M. Chen, D. T. Woodley, D. Keene, M. Barriga, K. Peoples, R. Johnson, D. Ramsdell, H. Landy**

Abstract #443: [Clinical risk factors associated with MRSA incidence in inpatient pediatric cellulitis](#)
S. Chand, R. Rrapi, C. Gabel, S. Song, R. Shah, C. El Saleeby, **D. Kroshinsky**

Abstract #446: [Altered gene expression following targeted therapy for vascular malformation](#)
J. M. Teng

Abstract #451: [Spironolactone for treatment of concomitant female pattern hair loss in scarring alopecia patients](#)
K. E. Flanagan, J. T. Pathoulas, C. J. Walker, I. M. Pupo Wiss, M. M. Senna

Mini-Symposium: Pharmacology and Drug Development

Abstract #472: [Telazorlimab in atopic dermatitis: Phase 2b study shows improvement at 16 weeks](#)
L. Sher, B. Rewerska, A. Acocella, G. Gudi, Y. Salhi, M. Mbow, K. Changela, N. Mozaffarian

Abstract #473: [Investigation of cell death patterns of SJS/ TEN model cells harboring formyl peptide receptor 1](#)
T. Nishiguchi, R. Abe

Abstract #484: [Dupilumab provides clinically meaningful improvement in atopic dermatitis \(AD\) signs and symptoms and quality of life \(QoL\) in children with severe AD: Results from the LIBERTY AD PEDS phase 3 clinical trial](#)
A. Paller, M. J. Cork, D. Marcoux, H. Zhang, C. Chuang, A. Zhang, J. Chao

Abstract #486: [Repurposing disulfiram for the treatment of Merkel cell carcinoma](#)
N. Hill, T. Gelb, D. Urban, T. Kellenberger, A. Lin, S. Vilasi, M. Hall, I. Brownell

Abstract #489: [Sphingosine 1-phosphate receptors are expressed in human scalp hair follicles and their modulation by etrasimod warrants further investigation for management of alopecia areata](#)
I. Piccini, M. Fehrholz, O. Egriboz, L. Ponce, J. W. Adams, C. M. Crosby, M. Bertolin

Mini-Symposium: Photobiology

Abstract #503: [Ex vivo preclinical testing of a wearable UVA phototherapy device](#)
B. E. Perez White, H. Zhao, J. Zhao, A. Kobeissi, S. Xu, J. Rogers, H. Zhang

Abstract #504: [Nanoparticle encapsulation enhances stability and efficacy of sunscreen actives](#)
S. Tomer, H. Suh, A. G. Zhou, B. Yu, J. Lewis, M. Saltzman, M. Girardi

Abstract #506: [Xeroderma Pigmentosum A deficiency results in increased generation of microvesicle particles in response to Ultraviolet B Radiation](#)
L. R. Christian, C. E. Borchers, L. Liu, C. Rapp, M. G. Kemp, J. B. Travers

Abstract #515: [p63 regulates XPC binding dynamics and global nucleotide excision repair in keratinocytes](#)
C. T. Wong, D. H. Oh

Abstract #518: [Chronic UV exposure decreases sun sensitivity by a tanning independent mechanism](#)

S. Craig, A. Viros

Mini-Symposium: Pigmentation and Melanoma

Abstract #538: [Sox9 knockout in the endothelium decreases melanoma tumour vascularisation, metastasis, and alters melanoma gene expression](#)

G. Hashemi, J. W. Dight, L. Sormani Le Bourhis, K. Khosrotehrani

Abstract #541: [Inhibition of soluble adenylyl cyclase \(sAC\) rescues defective melanosomal pH and pigmentation in oculocutaneous albinism type 2 \(OCA2\)](#)

M. Yusupova, D. Zhou, K. Wakamatsu, J. Zippin

Abstract #547: [Regulatory T cell production of IFN- \$\gamma\$ in vitiligo](#)

E. Katz, K. Gellatly, K. Essien, M. Garber, J. Harris

Abstract #549: [Design and in vitro efficacy of TRP-1 CAR T cells to target melanoma](#)

R. S. Shivde, D. Jaishankar, A. Thomas, I. Le Poole

Mini-Symposium: Skin of Color

Abstract #552: [Fitzpatrick skin type and photographic skin color assessment in a diverse population](#)

S. A. Sreekantaswamy, S. Siddiqui, K. Chu, J. Lester, L. Zukley, K. Abuabara

Abstract #553: [Herpes simplex virus type 1 infects melanocytes](#)

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

Abstract #560: [Racial/ethnic diversity in U.S. clinical trials for acne, atopic dermatitis, and psoriasis](#)

A. Sevagamoorthy, C. Akoh, P. Sockler, J. Takeshita

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

E. E. Limmer, D. A. Glass

Abstract #565: [Epidermal remodeling and immunogenicity within sinus tracts in hidradenitis suppurativa at the singlecell resolution](#)

M. Lin, M. Marohn, W. Yu, C. Mendoza, J. Remark, A. Khodadadi-Jamayran, E. Chiu, C. P. Lu

Abstract #567: [Differences in discoid lupus distribution and characteristics in black and non-black patients](#)

A. Joseph, B. Windsor, L. S. Hynan, B. F. Chong

Abstract #570: [A genome-wide association study in an African American cohort implicates IL-12A in acne](#)

*A. Khan, J. McGovern, Z. Yang, C. Wang, T. Hughes, E. Dabela, **M. C. Garzon, C. T. Lauren, L. E. Levin**, Z. Dai, M. Hayes, J. Connolly, F. Mentch, B. Almoguera, P. Sleiman, H. Hakonarson, J. Denny, J. C. Love, A. K. Shalek, G. Hripcsak, C. Weng, I. Ionita-Laza, K. Kiryluk, L. Petukhova*

Abstract #573: [Racial and ethnic differences in cutaneous immune-related adverse events and outcomes](#)

***V. Pahalyants**, N. Theodosakis, P. Ugwu-Dike, **W. Murphy**, N. Klebanov, T. Le, A. Gusev, V. Naranbhai, K. Reynolds, S. Kwatra, Y. Semenov*

Mini-Symposium: Skin, Appendages, and Stem Cell Biology

Abstract #578: [Genetic ablation of autoimmune regulator \(Aire\) results in spontaneous alopecia](#)

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

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C. Nicu, T. C. Wikramanayake, R. Paus

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Abstract #595: [Recapitulating atopic dermatitis in vitro with a multi-organ 3D model](#)

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

Abstract #605: [Generation of Dkk4-Cre knock-in mice to study morphogenesis of ectodermal appendages](#)

H. Khatif, H. Bazzi

Mini-Symposium: Tissue Regeneration and Wound Healing

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J. Wei, H. S. Kim, C. Spencer, D. Brennan-Crispi, Y. Zheng, D. Leung, G. Cotsarelis, T. Leung

Abstract #624: [Langerhans cells promote revascularization and repair during skin wound healing](#)

R. Wasko, Y. Xing, I. Sidhu, K. Bridges, K. Miller-Jensen, S. Naik, V. Horsley

Mini-Symposium: Translational Studies

Abstract #655: [Plasma cytokine profiles in atopic dermatitis: Association with itch intensity](#)

Y. S. Roh, N. Sutaria, T. Pritchard, K. A. Williams, I. Brown, J. Choi, D. P. Patel, M. P. Alphonse, Y. Semenov, N. K. Archer, S. G. Kwatra

Abstract #659: [Persistence of mature dendritic cells, Th2A and Tc2 cells characterize clinically resolved atopic dermatitis under IL-4R-alpha blockade](#)

C. Bangert, K. Rindler, T. Krausgruber, N. Alkon, F. Thaler, T. Ayub, V. Vorstandlechner, W. M. Bauer, M. Mildner, A. Elbe-Buerger, J. Griss, C. Bock, P. M. Brunner

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D. P. DeMeo, B. Richardson, J. B. Golden, A. B. Young, S. G. Al-Kindi, M. Cameron, T. S. McCormick, K. D. Cooper

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A. Wang, B. King, W. Damsky

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

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*G. Barber, J. O'Brien, H. Chen, **H. Jacobe***

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

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R. Raiker, H. Pakhchanian, V. A. Patel

Abstract #336: [Risks of COVID-19 infection and mortality for patients on biologics](#)

***V. Pahalyants, W. Murphy**, N. Klebanov, N. Theodosakis, M. Klevens, E. Lilly, M. Asgari, Y. Semenov*

Abstract #342: [Clinical outcomes in COVID-19 patients with Atopic dermatitis](#)

H. Pakhchanian, R. Raiker, V. A. Patel

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