**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*

Abstract #209: *Epidermal interferon production is positively regulated by Staphylococcus aureus in SLE and involves the STING pathway*
S. Sirobhashanam, 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*

Abstract #300: *Comparison of ItchyQuant, KidsItchyQoL and TweenItchyQoL: Pruritus assessment tools for 6-17 year-olds vs. 6-7 year olds*

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

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. Gharaeee-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 αβ TCR sequencing identifies pathogenic CD8+ T cell clones that are sufficient to induce alopecia areata in a C3H/HeJ retrogenic model

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

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. Ponnamperuma, W. Weinberg

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

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

Abstract #121: Unbearable transepidermal water loss (TEWL) experimental variability: Why?
R.P. Peer, A. Burli, H. Maibach

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

Abstract #133: **Unbound corneocyte lipid envelopes in 12R-lipoxygenase deficiency support a direct role in lipid-protein crosslinking**

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**

Abstract #151: **Complex phenotypes in trichothiodystrophy patients with XPD (ERCC2) mutations**

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 #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 #167: **Psoriasis and coronary artery disease share a genetic risk factor through IFIH1**

*M.T. Patrick, S. Sreesandarajan, 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 epidermodyplasia verruciformis**


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**


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


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

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

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 #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

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 authors in bold are PeDRA Members.
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

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. Canazzo, M. Zaiac

Abstract #437: SMASH: Perceived stigma and social health in patients with chronic skin disease

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

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

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 #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. Jacob

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’

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

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

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. Tchkonia, 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

Abstract #487: Topical MEK inhibition as precision targeted chemoprevention
B. Sell, J. Shahryari, A. Shah, M. Duncion, 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. Brumfield, 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-36β or IL-36γ 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

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

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

Abstract #213: A multitargeted approach for soothing irritated skin
C. Crane, T. Oswald, C. Hwang, J.S. Craw, T. Falla, K. Rodan, K. Fields

Abstract authors in **bold** are PeDRA Members.
Abstract #214: Inflammatory changes of the small intestinal microenvironments in the murine model of psoriasis
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
T. Hsu, H. Tseng, C. Lee

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

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

Abstract #250: Direct healthcare cost of atopic dermatitis in the Swedish population

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

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. Sciacc a Kirby, C. DeKlotz

Abstract #259: Incidence and prevalence of granuloma annulare in the United States: A cohort study
J.S. Barbieri, O. Rodriguez, M. Rosenbach, D. Margolis

Abstract authors in **bold** are PeDRA Members.
Abstract #260: Sun protection attitudes and behaviors among minority groups in a low socioeconomic community  
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. Voinikos, 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 teledermatology  
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 authors in bold are PeDRA Members.
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

Abstract #304: Lifestyle modifications associated with symptom improvement in Hidradenitis Suppurativa patients
P. Macklis, K. Tyler, J. Kaffenberger, S.G. Kwatra, B. Kaffenberger

Abstract #306: Outcomes of surgical correction of facial morphea: A cross-sectional analysis

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

Abstract #313: Itch-free state in patients with atopic dermatitis treated with ruxolitinib cream

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

Abstract #320: Dupilumab in Canadian eczema clinic
N. Merati, P. Patel, C. Jack

Abstract #325: Risk factors associated with detection of osteomyelitis on magnetic resonance imaging in patients with cellulitis

Abstract #326: Clinical trial publication trends and disease focus: 2015-2019

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

Abstract #333: Atopic dermatitis: Patient characteristics and patient-reported outcomes on topical therapy
P. Anderson, J. Austin, J. Lofland, J. Piercy, V. Joish

Abstract authors in bold are PeDRA Members.
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

Abstract #352: Dermatology research with the Observational Health Data Sciences and Informatics (OHDSI) network
T.E. Sivesind, T. Runion, M. Branda, L. Schilling, R. Dellavalle

Abstract #354: The problematic use of change scores in dermatology clinical trials

Abstract #356: Polypoid melanoma is associated with aggressive histopathological characteristics and poor clinical prognosis

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

Abstract #362: Sociodemographic factors associated with scabies in the inpatient setting

Abstract #363: The impact of atopic dermatitis on caregivers of patients of all ages

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

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

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

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, T. 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

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 antimicrobial properties important for skin
M. Schuetz, C. Savile, C. Webb, K. Rouzard, J.R. Fernandez, E. Perez

Abstract authors in bold are PeDRA Members.
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

Abstract #493: Determination of the critical sources of cAMP for Crisaborole activity in human keratinocytes
J. You, M. Reilly, M. Drozdz, 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. Hordsinsky, 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 #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 #529: Opsin3 expression in human nevus and reconstructed nevus model in vitro
X. Dong, H. Lu

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 #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

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

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

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

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 teledermatology 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. Piguet, J. Yeung, A.M. Drucker
Abstract #666: Effect of dupilumab on the host-microbe interface in atopic dermatitis

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. Navrathina, J. Frew, S. Garce, J.G. Krueger
Abstract #703: Blood analysis uncovers novel inflammatory, oncologic and cardiovascular biomarkers in psoriasis and Hidradenitis Suppurativa  

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  

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

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

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  
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: Transecthic analysis of psoriasis susceptibility in South Asians and Europeans enhances finemapping in the MHC and genomewide  

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  

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

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

*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

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 #104: IL-33 signaling in sensory neurons promotes dry skin itch

Abstract #107: CO-Detection by indexing (CODEX) reveals clinicly 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

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

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

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

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

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

Abstract #153: A specific mutation in TRPM4 predisposes mice to psoriasiform dermatitis (PsD)
Abstract #160: Replacing COL7A1-deficient epidermis over the entire body by autografting cultured revertant keratinocytes in severe recessive dystrophic epidermolysis bullosa

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

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

Mini-Symposium: Innate Immunity, Microbiology, and Microbiome

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

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+ γδ 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

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

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

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**  

**Mini-Symposium: Patient Population Research**

Abstract #247: **Four childhood atopic dermatitis subtypes identified from trajectory and severity of disease**  

Abstract #262: **Association of dermatologic manifestations of IBD with natural history and biomarkers of severity**  

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**  

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**  

**Mini-Symposium: Patient-Targeted Research**

Abstract #402: **Non-invasively stratifying atopic dermatitis patients based on inflammatory genes**  

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

Abstract #412: **Immune and barrier characterization of atopic dermatitis skin phenotype in Tanzanian patients**  
Abstract #417: The molecular features of normal and atopic dermatitis skin in infants, children, adolescents and adults

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

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)

Abstract #443: Clinical risk factors associated with MRSA incidence in inpatient pediatric cellulitis
S. Chand, R. Rrapi, C. Gabel, S. Song, R. Shah, C. E. 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. Accocella, 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

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

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

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 authors in bold are PeDRA Members.
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-γ 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**  

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**  

Abstract #573: **Racial and ethnic differences in cutaneous immune-related adverse events and outcomes**  
V. Pahalyants, N. Theodosakis, P. Uguwu-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

Abstract #583: **Hair cycle regulation by a mitochondrially localized protein: Is MPZL3 a central component of the elusive hair cycle clock?**  
C. Nicu, T. C. Wikramanayake, R. Paus

Abstract authors in **bold** are PeDRA Members.
Abstract #591: Chromatin architectural protein CTCF regulates terminal keratinocyte differentiation in the developing epidermis and hair follicles
G. Chen, N. V. Botchkareva, E. Rozhkova, A. Sharov, V. A. Botchkarev

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
Abstract #608: Neuroimmune control of adult mammalian scarless skin regeneration
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

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

Abstract #663: Psoriasis patients with subclinical atherosclerosis parse into distinct endotypes by differential gene expression
D. P. DeMeo, B. Richardson, J. B. Golden, A. B. Young, S. G. Al-Kindi, M. Cameron, T. S. McCormick, K. D. Cooper

Abstract #674: Single-cell RNA sequencing (scRNA-seq) of sarcoidosis skin biopsies reveals key pathogenic cytokines and potential treatment targets
A. Wang, B. King, W. Damsky

Abstract #691: Neutrophil and C5aR dynamics in hidradenitis suppurativa disease progression

Abstract #696: Interleukin 6 signalling in endovascular progenitors is a driver of melanoma vascularisation and metastasis
J. W. Dight, G. Hashemi, H. Wong, S. Sim, L. Sormani Le Bourhis, J. Patel, K. Khosrotehrani

Abstract #698: Validation of CXCL9 as a biomarker in morphea

Abstract #699: Pharmacological blockade of the CX3CR1/ CX3CL1 fractalkine axis prevents alopecia areata in C3H/ HeJ mice
Y. Chang, Z. Dai, A. M. Christian

Mini-Symposium: Interdisciplinary Spotlight: The “Skin”ny on COVID-19
Abstract #254: COVID-19 related outcomes in psoriasis and psoriasis arthritis patients
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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