



Pediatric Dermatology at the 2022 SID Annual Meeting

Portland, OR. May 18 – 21, 2022

WEDNESDAY, May 18th

International Pachyonychia Congenita Consortium (PICC) Symposium (7:00 am – 1:00 pm)

A105-A106

American Acne and Rosacea Society 10th Annual Scientific Symposium (11:00 am – 1:00 pm)

Co-Chaired by **Lawrence Eichenfield, MD** and J. Mark Jackson, MD

C124

Translational Symposium II: Drug Reactions and Repurposing (2:30 – 3:30 pm)

Moderated by **Joyce Teng, MD, PhD**

Oregon Ballroom 201-202

Clinical Scholars/Outcomes Lecture: Clinician-Led Investigation and New Therapies (3:30 – 5:00 pm)

Moderated by Haley Naik, MD and **Eric Simpson, MD**; Presentation by **Beth Drolet, MD**

Oregon Ballroom 201-202

Welcome Reception (6:30 – 8:00 pm)

Oregon Ballroom Foyer

THURSDAY, May 19th

Concurrent Mini-Symposium 1: Clinical Research – Epidemiology and Observational Research (8:45 – 11:15 am)

Oregon Ballroom 203

- 8:57 am Abstract # 165: Risk of skin cancer in individuals with neurofibromatosis type 1 in the United States: A retrospective market claims analysis
P. Trinh, S. Li, K. Y. Sarin
- 9:09 am Abstract # 147: Development and validation of a caregiver-reported numeric rating scale for measuring pruritus in children aged 6 months to <6 years with atopic dermatitis
A. Paller, E. Siegfried, S. E. Marron, M. Clark, D. B. DiBenedetti, L. Nelson, J. Chao, A. Bansal, Y. Sun, C. Chuang, Z. Wang
- 9:21 am Abstract # 181: Development of systemic lupus in patients with cutaneous lupus: A comparison of three classification criteria
A. Walker, S. Black, F. Walocko, X. Li, B. F. Chong
- 9:33 am Abstract # 158: Skin cancer risk in people living with HIV during the antiretroviral therapy era
*Y. T. Luu, Q. Luo, M. Horner, M. Shiels, E. Engels, **M. Sargen***
- 10:21 am Abstract # 258: Prevalence of autosomal recessive genodermatoses: Determination based on pathogenic sequence variants in publicly available exomic and genomic databases
*C. Huang, A. Saeidian, L. Youssefian, H. Vahidnezhad, **J. Uitto***
- 10:45 am Abstract # 191: Clinical characteristics associated with functional abnormalities in pediatric and adult morphea: A cross-sectional study
H. W. Chen, A. Walker, K. Schollaert-Fitch, K. Torok, H. Jacobe

Names in **bold** are PeDRA Members.

Pediatric Dermatology Roadmap for 2022 SID | 1

Concurrent Mini-Symposium 2: Clinical Research – Epidermal Structure and Barrier Function (8:45 – 11:15 am)

Oregon Ballroom 204

- 10:33 am Abstract # 405: Atopic dermatitis patients have decreased epidermal innervation but increased neuronal substance p expression
*G. N. Calco, **W. Baghoomian**, D. B. Jacoby, **E. Simpson***
- 10:21 am Abstract # 424: C10orf99 governs keratinocyte inflammatory response and barrier formation of the skin
*T. Dainichi, Y. Nakano, H. Doi, S. Nakamizo, S. Nakajima, R. Matsumoto, T. Farkas, P. Wong, V. Narang, E. Kawakami, **E. Guttman-Yassky**, O. Dreesen, T. Litman, B. Reversade, K. Kabashima*
- 10:45 am Abstract # 399: Tralokinumab treatment modifies stratum corneum lipid composition in skin of adolescents with atopic dermatitis
*E. Berdyshev, **E. Simpson**, I. Bronova, A. Pavel, W. Soong, R. Antaya, S. Imafuku, M. A. Røpke, L. Jiang, **E. Guttman-Yassky**, D. Y. Leung*

Concurrent Mini-Symposium 3: Genetic Disease, Gene Regulation, and Gene Therapy (8:45 – 11:15 am)

Presiders: **Keith Choate, MD, PhD & Jean Tang, MD, PhD**

A105-A106

- 8:45 am Abstract # 502: The genomic and phenotypic landscape of ichthyosis: An analysis of 1000 kindreds
Q. Sun**, N. Marukian, S. Cheraghlou, **A. Paller**, M. Larralde, **L. Bercovitch**, J. Levinsohn, I. Ren, R. Hu, J. Zhou, T. Zaki, R. Fan, C. Tian, C. Saraceni, C. Nelson-Williams, E. Loring, **B. Craiglow**, L. Milstone, R. Lifton, L. Boyden, **K. Choate
- 9:21 am Abstract # 586: New class of mTOR inhibitor stabilizes intermediate filament networks in severe epidermolysis bullosa simplex keratinocytes.
K. McGuire, A. McCormick, D. Huey
- 10:33 am Abstract # 508: Skin barrier defect and inflammation in Netherton syndrome: Lessons from a comparative study of patients and mouse models
E. Petrova, J. Lopez-Gay Orts, M. Fahrner, F. Leturcq, C. Barbieux, J. de Villartay, H. Varet, J. Coppée, J. E. Gudjonsson, L. Tsoi, A. Hovnanian
- 10:45 am Abstract # 579: In vitro activity of efinaconazole against terbinafine and itraconazole resistant and susceptible dermatophyte, candida, and mold clinical isolates.
A. Gamal, M. Elshaer, B. Elewski, M. Ghannoum
- 10:57 am Abstract # 498: Artesunate inhibits RDEB fibrosis by downregulating AKT signaling pathway
D. Woodley, D. Polyakov, B. A. Levian, Y. Hou, X. Tang, M. Chen

Concurrent Mini-Symposium 4: Pharmacology and Drug Development (8:45 – 11:15 am)

B113-B116

- 9:45 am Abstract # 577: Synthetic melanin nanoparticles improve wound healing
D. Biyashev, Z. E. Siwicki, M. Demczuk, U. Onay, S. Evans, N. Collins-McCallum, N. Gianneschi, K. Lu
- 10:33 am Abstract # 575: Molecular characterization of trametinib-induced cardiotoxicity
T. C. Beck, J. Morningstar, D. Arhontoulis, L. Guo, G. Cortney, R. Biggs, K. Moore, N. Koren, T. Petrucci, R. Mukherjee, K. Helke, S. Vaena, M. Romeo, R. Norris
- 10:57 am Abstract # 574: Preliminary results from an escalating dose cohort study of VT30, a topically formulated phosphatidylinositol 3-kinase inhibitor (PI3K), intended as a treatment for cutaneous vascular malformations associated with underlying PIK3CA or TEK mutations
K. E. Truitt, L. Pugliese

Concurrent Mini-Symposium 5: Translational Studies (8:45 – 11:15 am)

C123-C124

- 9:09 am Abstract # 863: Blocking the LFA-1 signaling pathway reverses alopecia areata in C3H/HeJ mice
Z. Dai, Y. Chang, A. M. Christiano
- 9:57 am Abstract # 846: A new case series of olmedic syndrome subjects confirms EGFR activation and long term efficacy of oral erlotinib with acceptable tolerance
*J. Basset, Y. Diab, F. Santiago, L. Azulay, K. Cordoro, A. Zhang, F. Watanabe, A. Kirkorian, F. Frascari, **D. Siegel**, E. Bourrat, R. Howard, A. Hovnanian*
- 10:33 am Abstract # 865: Single-cell protein activity inference analysis of full-thickness skin uncovers novel pathways and a rare Arg1+ macrophage population in AA
E. Y. Lee, A. Obradovic, E. Wang, A. M. Christiano

Concurrent Mini-Symposium 6: Late Breaking Abstracts (8:45 – 11:15 am)

Oregon Ballroom 201-202

- 10:45 am Abstract # LB967: Monogenic mutations implicate STAT1 in hidradenitis suppurativa pathogenesis.
M. Youssef**, E. Baugh, **A. Colvin**, K. Babbush, T. Adriano, G. Benesh, M. E. Torpey, A. Nosrati, K. R. van Straalen, L. Tsoi, A. T. DeWan, S. M. Leal, R. Eisenberg, J. E. Gudjonsson, J. Milner, S. R. Cohen, **L. Petukhova
- 10:57 am Abstract # LB941: Importance of six-month dosing with QTORIN rapamycin to achieve maximal effect in patients with pachyonychia congenita
J. Teng**, J. Martini, **T. Funk**, J. Connor, E. Cook, D. Hansen, **A. Paller

Bristol-Myers Squibb Symposium (12:00 – 1:00 pm)

PeDRA Partner Level Corporate Council Member
A105-A106

UCB Symposium (12:00 – 1:00 pm)

PeDRA Silver Level Corporate Council Member
Oregon Ballroom 204

Krystal Biotech Symposium (12:15 – 1:15 pm)

PeDRA Partner Level Corporate Council Member
Symposium Chair: **Amy Paller, MD**
Oregon Ballroom 201-202

Plenary Session 1 (1:45 – 2:45 pm)

Oregon Ballroom 201-202

- 2:09 pm Abstract # 299: Oral difelikefalin improves itch and inflammatory biomarkers in atopic dermatitis subjects with moderate-to-severe pruritus
***E. Guttman-Yassky**, P. Facheris, J. Correa Da Rosa, E. Del Duca, Y. Estrada, E. David, A. Pavel, S. Bose, J. Goncalves, K. Nogales, B. Kim, M. Lebwohl*
- 2:21 pm Abstract # 480: The spectrum of oligogenic variants in the RAS pathway in a PHACE cohort
***D. Siegel**, E. Partan, **O. Davies**, **S. Chamlin**, **B. Drolet**, **A. Mancini**, L. Sundaram, M. Tutaj, **I. Frieden**, **D. Metry**, **F. Blei**, C. Lin, K. Wang, I. Karakikes, A. Urban, A. Oro, N. Sobreira*

Poster/Exhibitor/Happy Hour Session 1 (4:30 – 6:30 pm)

Odd Poster Numbers

Exhibit Halls A-A1-B

Abstract # 001: Inhibition of tissue resident memory-T cells as a therapy for contact hypersensitivity
T. Khosravi-Hafshejani, M. Ghoreishi, J. P. Dutz

Abstract # 025: Transcriptional profiling of cutaneous immunotoxicity from melanoma immunotherapy
D. Y. Chang, H. Claussen, B. Pollack, H. Yeung, S. C. Chen, R. Feldman, E. Cole

Abstract # 031: Tape strips better capture epidermal barrier abnormalities of patients with atopic dermatitis compared to skin biopsies
A. D. Pagan, *J. Cheng, E. Del Duca, A. B. Pavel, J. G. Krueger, R. Bissonnette, E. Guttman-Yassky*

Abstract # 049: Distinct transcriptomic profiles of sensory neurons in mouse model of atopic dermatitis and psoriasis: Insight into the mechanism of chronic itch in atopic dermatitis and psoriasis
S. Kim, I. Jeong, S. Lee

Abstract # 051: Exogenous IL-27 prevents disease induction in murine alopecia areata
P. Christy, S. Crotts, S. J. Connell, M. Lensing, L. Ortolan, N. Henderson, X. Bai, A. Jabbari

Abstract # 057: Targeting keratinocytes to potentiate skin immunization
J. You, X. Hao, L. Faló III, R. Hao, J. Zhang, C. Carey, Z. You, L. Faló Jr.

Abstract # 063: CD4 T cells exhibit an effector phenotype and transfer disease in murine alopecia areata
S. J. Connell, S. Crotts, P. Christy, M. Lensing, A. Jabbari

Abstract # 069: Non-supervised gene expression profiling of circulating regulatory T cells in severe Korean atopic dermatitis patient by scRNA-seq
S. Jin, K. Moon, K. Lee, Y. Bang, S. Jung, H. Nam, B. Cho, J. Lee, S. Choi, J. Lee, C. Park, D. Lee, H. Kim, E. Guttman-Yassky

Abstract # 093: Tumor mutational differences of cutaneous melanoma by age
D. Y. Kim, E. I. Buchbinder, R. Hartman

Abstract # 103: JAK-STAT activation in anti-PD-1 therapy-associated granuloma annulare
R. Choi, J. Wang, W. Damsky, A. Wang, A. Galan, J. S. Leventhal

Abstract # 109: Mutations in the T-cell receptor antigen-binding region of malignant cells in mycosis fungoides coincide with clinical and histological progression
L. Gleason, N. Nikbakht

Abstract # 113: The endogenous deaminase APOBEC3A readily localizes to the nucleus of cultured keratinocytes
S. Poojan, T. Chellappagounder, P. H. Park, A. P. South

Abstract # 145: Erythema multiforme in COVID-19 patients and following COVID-19 vaccination
F. Etaee, M. Basiri, T. Naguib, S. Daveluy

Abstract # 149: Proposing a standardized assessment of COVID-19 vaccine cutaneous reactions
R. Singh, R. Ali, S. Prasad, K. Blumenthal, E. Freeman

Abstract # 153: Wildfire air pollution is associated with increased eczema, acne, and itch queries on Google
R. P. Fadadu, M. Wei

Abstract # 155: Atopic dermatitis is associated with cardiovascular risk factors in pediatric patients: A systematic review and meta-analysis
C. Kern, M. Johanis, M. Johanis, P. Tahir, M. Ye, A. Mulick, I. Allen, C. McCulloch, S. Langan, K. Abuabara

Abstract # 167: Clinicopathologic integration of data from skin biopsies histologically classified as “Spongiotic Dermatitis” with the EMR facilitates identification of atopic dermatitis cases

P. G. Sockler, D. J. Margolis, J. T. Seykora

Abstract # 169: Poor validity of hidradenitis suppurativa diagnostic criteria in pediatric patients

*J. C. Williams, **N. W. Kittler**, M. V. Kudlinski, J. Lester, K. Abuabara, H. B. Naik*

Abstract # 171: International survey: Effects of cumulative exposure to corticosteroids in patients with eczema, including topical steroid withdrawal syndrome (TSWS).

K. Z. Tullos, K. Barta, P. Lio, T. Winders

Abstract # 173: Analyzing the impact of COVID-19 on trends in the dermatology literature

R. Ali, S. Prasad, R. Singh, L. Abdelrahman, R. Kankaria, S. Singh, S. Mehta, V. Mroz, E. Freeman

Abstract # 175: Impact of childhood atopic dermatitis on cognition and achievement

***J. Wan**, J. M. Gelfand, E. Ma, D. B. Shin, S. Hooper*

Abstract # 177: Associations between atopic dermatitis and arthritic conditions: A systematic review and meta-analysis

R. C. Williams, M. Brako, H. Usmani, W. Guo, S. Na, R. Clark

Abstract # 183: Multi-center, retrospective analysis of patients with drug reaction with eosinophilia and systemic symptoms (DRESS)

D. A. Emge, B. Liu, C. Green, L. Banez, M. Mauskar, C. Ziemer, R. Micheletti, F. Nutan, K. DeNiro, A. Mostaghimi, J. Keller, B. Nardone, C. Nguyen, L. Seminario-Vidal, J. Curtis, L. Madigan, R. deShazo, A. Cardones

Abstract # 185: Fracture risk in adult and pediatric patients with atopic dermatitis -a population-based cohort study

*M. Syed, D. B. Shin, **J. Wan**, A. Lemeshow, J. M. Gelfand*

Abstract # 207: The impact of childhood stressful life events on atopic dermatitis disease activity and severity: A prospective study

J. Tully, N. Tomaszewski, S. Kidd, S. Langan, K. Abuabara

Abstract # 209: Association of hidradenitis suppurativa with a Crohn’s disease panel

A. Nosrati, M. E. Torpey, T. M. Andriano, P. Y. Ch’en, T. Dervieux, K. L. Campton, S. R. Cohen

Abstract # 221: Distinguishing clinical features for pseudocellulitis in pediatric inpatients: A retrospective study

B. Biglione, B. Cucka**, S. Chand, R. Rrapi, C. K. Gabel, S. Song, **D. Kroshinsky

Abstract # 223: Evaluation of nailfold capillaries in dermatomyositis using a dermatoscope

J. Dan, G. Sprow, M. Afarideh, J. Concha, N. Kodali, T. Vazquez, D. Diaz, V. Werth

Abstract # 225L Identification of meaningful aspects of health connected to the symptom of nocturnal scratching in patients with atopic dermatitis

L. Cesnakova, L. Clay

Abstract # 231: Use of biologics in transplant patients: A retrospective cohort study

C. Madden, W. F. Dean, I. T. Smith, J. Ike, B. Hall, L. Wheless

Abstract # 233: Risk of herpetic and non-herpetic cutaneous infections in adult patients with atopic dermatitis exposed to oral janus kinase inhibitors or dupilumab.

E. A. Michelen-Gómez, Z. C. Chiesa Fuxench

Abstract # 237: Hidradenitis suppurativa interferes with socialization in the majority of patients regardless of objective disease severity: A cross-sectional survey study

P. O. Perche, R. Singh, A. Senthilnathan, S. R. Feldman, R. O. Pichardo

Abstract # 241: The association between sodium intake and atopic dermatitis in a US population-based cohort
M. Ye, B. Chiang, K. Abuabara

Abstract # 243: Health-related quality of life in a Canadian atopic dermatitis cohort
D. M. Lebo, C. Bouchard, N. Merati, V. Hladky, R. Habib, R. Jeremian, C. Jack

Abstract # 245: Short term exposure to wild-fire associated air pollution does not significantly increase clinic visits for psoriasis
M. Green, R. P. Fadadu, D. Seth, N. Jewell, M. Wei

Abstract # 249: Development and validation of a caregiver-reported numeric rating scale for measuring sleep quality in children aged 6 months to <6 years with atopic dermatitis
A. Paller, E. Siegfried, S. E. Marron, M. Clark, N. Harris, S. Quin, J. Chao, A. Bansal, Y. Sun, C. Chuang, Z. Wang

Abstract # 257: Understanding health disparities among patients with psoriasis: Results from National Psoriasis Foundation annual surveys 2019 – 2021
G. Gondo, L. Howard, R. Friesel, A. B. Gottlieb, J. Merola

Abstract # 263: Development of secondary neoplasms in patients with nevus sebaceous
A. Burli, F. Bawany, M. Cordisco

Abstract # 269: 10 year experience of pediatric kerion celsi in Costa Rica
B. Hidalgo-Matlock, D. Correa-Tovar

Abstract # 275: Effects of ruxolitinib cream on sleep and quality of life over 52 weeks in black patients with atopic dermatitis
L. F. Eichenfield, L. F. Stein Gold, K. K. Brar, Z. C. Chiesa Fuxench, J. I. Silverberg, M. E. Venturanza, H. Kallender, J. Gao, E. Simpson

Abstract # 277: Treatment of aphthous ulcers with montelukast
A. S. Hwang, E. H. Campbell, J. C. Sartori-Valinotti

Abstract # 287: Effects of ruxolitinib cream on pruritus in black patients with atopic dermatitis
L. F. Eichenfield, L. F. Stein Gold, K. K. Brar, Z. C. Chiesa Fuxench, J. I. Silverberg, M. E. Venturanza, H. Kallender, J. Gao, J. C. Szepietowski

Abstract # 293: Ixekizumab demonstrates comprehensive psoriasis clearance in patients with moderate-to-severe psoriasis with scalp, nail, and/or palmoplantar involvement: Uncover-1, -2 trials through 5 years
A. B. Gottlieb, J. Merola, N. Somani, B. Konicek, K. See, M. McKean Matthews, G. Gallo, P. Rich

Abstract # 297: Dupilumab reduces biomarkers indicative of type 2 inflammation in children aged ≥ 6 months to < 6 years with moderate-to-severe atopic dermatitis
A. Paller, E. Guttman-Yassky, M. Boguniewicz, Y. Sun, K. Wolfe, M. Dillon

Abstract # 307: High-threshold responses to ruxolitinib cream in adolescents and adults with atopic dermatitis
A. Blauvelt, J. C. Szepietowski, K. Papp, E. Simpson, D. Sturm, H. Kallender, J. Gao, L. Kircik

Abstract # 309: Losartan treatment improves recessive dystrophic Epidermolysis bullosa
M. Pourani, H. Vahidnezhad, L. Youssefian, A. Rakhshan, B. Hajimoradi, F. Abdollahimajd, J. Uitto

Abstract # 313: Evaluating the effectiveness of topical tofacitinib in reducing nonatopic dermatitis chronic itch
T. Ju, A. Labib, A. Vander Does, G. Yosipovitch

Abstract # 315: Herpes simplex and eczema herpeticum in moderate to severe atopic dermatitis treated with abrocitinib
S. Tyring, S. R. Feldman, K. Winthrop, J. Alderfer, W. Romero, S. Johnson, H. Fan, H. Valdez

Abstract # 319: The utilization of 3-dimensional imaging to establish a standardized acne severity scale
A. Schrobilgen, A. Lo, B. Chandani, M. Foss, N. Vesely, C. Dunn, S. Aneja, J. A. Solomon

Abstract # 333: A modified delphi consensus exercise: developing a skin-directed Stevens-Johnson Syndrome/toxic epidermal necrolysis scoring system

M. Waters, A. Dobry, S. Le, K. Shinkai, E. Maverakis, B. H. Kaffenberger

Abstract # 341: Hidradenitis suppurativa: Patient perspectives on biologic use

D. R. De, T. Shih, J. Hsiao, V. Y. Shi

Abstract # 351: Barriers to implementation of a teledermatology virtual clinic within an academic medical center

E. D. Borre, S. C. Chen, M. Nicholas, E. Cooner, T. Ashley, M. Ingrassia, C. Pineo, M. Kheterpal

Abstract # 365: Transition of care in patients with epidermolysis bullosa: A survey study

M. Dykman, J. Han, S. Lunos, A. Nguyen, C. Boull

Abstract # 367: Googling acne: Analyzing ingredients and price of over the counter acne products

K. Elhage, J. Yousif, M. Kwa, L. F. Stein Gold

Abstract # 371: Fear of negative evaluation in hidradenitis suppurativa patients is correlated with worse quality of life

R. Singh, A. Senthilnathan, I. M. Richardson, S. G. Kaplan, S. R. Feldman, R. O. Pichardo

Abstract # 381: Assessing the ease of use and adherence of topical corticosteroid drug delivery devices in caregivers of pediatric patients with atopic dermatitis

W. Baghoomian, E. Simpson

Abstract # 385: Determinants of antibiotic stewardship for acne: A pilot survey of key stakeholders

K. B. Case, E. C. Thompson, J. Barron, R. Radi, L. Chu, H. Yeung

Abstract # 389: Impact of the COVID19 pandemic on the execution of real world, pragmatic trials: The LITE study experience

B. Hefele, K. Duffin, L. Howard, D. B. Shin, J. M. Gelfand

Abstract # 397: Characterization of ABCA12 gene variant by electron microscopy in an infant with an ichthyosiform dermatitis and MALT1 deficiency

L. Gardner, A. K. Dewan, J. Meyer

Abstract # 411: Redefining "normal" TEWL: a systematic review

M. Green, A. Feschuk, N. Kashetsky, H. Maibach

Abstract # 417: Evaluation of a novel skin emollient on skin lipidome and lipids organization

C. Jacques, C. Dejean, C. Klose, E. Leccia, S. Bessou-Touya, A. Delarue, H. Duplan

Abstract # 431: AMP-IBP5 improves tight junction barrier function in human keratinocytes and suppresses dermatitis-like lesions in a mouse model of atopic dermatitis

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

Abstract # 443: Inducible IL-2R γ /IL-4R α receptor in keratinocytes is involved in epidermal barrier alterations

A. Progneaux, C. Evrard, V. Deglas, A. Fontaine, E. De Vuyst, C. Lambert de Rouvroit, V. García-González, Y. Poumay

Abstract # 445: Oat components provide skin protection against exposomal-factorinduced damages, increase ceramide production and balance skin's pH in vitro

W. Li, T. Futterer, K. J. Spisak, J. Thakrar, H. Li, A. Schladebeck, F. Zhang, R. Parsa

Abstract # 451: Modeling darier disease using gene-edited human keratinocytes and organotypic epidermis to identify therapeutic targets

C. L. Simpson, M. Sarkar, S. Egoif, J. Zou, B. C. Capell, J. E. Gudjonsson

Abstract # 469: Altered expression of genes regulating mTOR and other signaling pathways in skin tumors from patients with tuberous sclerosis complex

A. Afrin, X. Zhang, C. L. Dalgard, M. D. Wilkerson, J. Moss, T. Darling

Abstract # 473: The role of lanosterol synthase in patients with congenital hypotrichosis

S. Ali, M. Collins, I. Pupo Wiss, M. Senna

Abstract # 477: Efficient ex-vivo COL7A1 correction of patient's primary keratinocytes and fibroblasts using RNP-based CRISPR/Cas9 and homology-directed repair to treat recessive dystrophic epidermolysis bullosa

A. Izmiryan, C. Berthault, O. Gouin, M. Chen, D. Woodley, S. Gaucher, A. Hovnanian

Abstract # 483: Epigenetic age acceleration in a pediatric cohort of atopic dermatitis

R. Jeremian, C. Bouchard, V. Hladky, D. M. Lebo, C. Jack

Abstract # 485: The association between juvenile xanthogranulomas in neurofibromatosis type 1 patients and the development of leukemia: A systematic review

S. N. Meyer, A. Vaughn, Y. Li, K. A. Rauen, M. Kiuru

Abstract # 489: Whole-transcriptome sequencing-based concomitant detection of viral and human genetic determinants of cutaneous lesions

A. Saeidian, L. Youssefian, C. Huang, F. Palizban, M. Naji, Z. Saffarian, H. Mahmoudi, A. Goodarzi, S. Sotoudeh, F. Vahidnezhad, M. Amani, A. Ajami, S. Mozafarpour, M. Teimoorian, S. Dorgalaleh, S. Shokri, M. Shenagari, N. Abedi, S. Zeinali, P. Fortina, V. Béziat, E. Jouanguy, J. Casanova, J. Uitto, H. Vahidnezhad

Abstract # 491: Recalcitrant cutaneous warts in a family with inherited ICOS deficiency

L. Youssefian, A. Saeidian, A. Tavasoli, E. Kalamati, K. Naghipoor, A. Hojabrpour, M. Mesdaghi, Z. Saffarian, H. Mahmoudi, M. Nabavi, S. Shokri, S. Zeinali, V. Béziat, J. Casanova, E. Jouanguy, J. Uitto, H. Vahidnezhad

Abstract # 493: Chronic mucocutaneous candidiasis due to *Candida auris* and nonalbicans *Candida* species in a family with a mild TP63-associated ectodermal dysplasia

J. Park, L. Youssefian, S. Khodavaisy, F. Palizban, A. Tavasoli, E. Kalamati, H. Mahmoudi, K. Balighi, M. Mesdaghi, A. Saeidian, J. Uitto, H. Vahidnezhad

Abstract # 495: Mutations in different domains of bullous pemphigoid antigen-1 (BPGA1) encoded by DST result in either epidermolysis bullosa simplex or musculoskeletal and neuronal deformities-associated HSAN-VI

N. Harvey, R. Khalesi, M. Garshasbi, E. Kalamati, L. Youssefian, H. Vahidnezhad, J. Uitto

Abstract # 497: Genetic variability of viral and human genomes in a large cohort of patients with typical epidermodysplasia verruciformis

A. Saeidian, L. Youssefian, H. Mahmoudi, P. Mansouri, V. Béziat, J. Casanova, E. Jouanguy, J. Uitto, H. Vahidnezhad

Abstract # 499: A novel preclinical model for translating an induced pluripotent stem cell therapy for the treatment of skin diseases

M. Pavlova, J. C. Flores, S. Vieau, V. Balaiya, P. S. McGrath, K. A. Bush, A. Hopkin, A. Bruckner, I. Kogut, D. Roop, G. Bilousova

Abstract # 507: Comparative analysis of inflammatory skin diseases reveals shared and distinct gene signature profiles in lesional and nonlesional regions.

B. Martínez, S. Shrotri, K. Kingsmore, P. Bachali, A. Grammer, P. Lipsky

Abstract # 511: Kullback-Leibler divergence model to integrate genetic and genomic information to assess drug response for psoriatic patients

Q. Li, K. He, M. Patrick, T. Tejasvi, H. Zhang, P. Stuart, R. Nair, J. E. Gudjonsson, J. Elder, L. C. Tsoi

Abstract # 519: Rapid reduction in *S. aureus* & cytotoxins in dupilumab treated atopic dermatitis subjects

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

Abstract # 535: Systematic analysis of existing and novel primers toward standardization of skin microbiome research
K. Haas, S. Ao, J. Blanchard, J. Arbogast, D. J. Yeomans

Abstract # 543: Chronic wound environment shapes virulence of human commensal bacteria
R. Verpile, M. Dinic, J. Meng, J. Burgess, H. Lev-Tov, M. Tomic-Canic, I. Pastar

Abstract # 545: Importance of CD40 expression on *S. aureus* superantigen responses in human keratinocytes
M. C. Moran, M. G. Brewer, P. Schlievert, L. A. Beck

Abstract # 567: Gut dysbiosis is associated with the development of alopecia areata
T. Sezin, A. Abdelaziz, Y. Gupta, M. Isha, J. Chen, S. Brigitte, E. Wang, S. Sanna-Cherchi, D. Zhenpeng, L. Bordone, R. Perez-Lorenzo, A. M. Christiano

Abstract # 569: The role of siglecs in acne pathogenesis
T. Tran, M. Qin, G. Agak, R. Teles, A. Baugh, T. To, J. Kim

Abstract # 617: The impact of the spectral composition of long-wavelength ultraviolet A1 and visible light on cutaneous biologic effects
M. S. Ceresnie, J. Maghfour, K. El Dairi, M. Mokhtari, I. H. Hamzavi, H. W. Lim, I. Kohli

Abstract # 623: Variations in in vivo visible light phototesting methodologies
I. Kohli

Abstract # 629: Performance monitoring of a streamlined and scalable non-invasive gene expression assay for pigmented lesions
K. Kaur, T. Allen, K. Hill, M. D. Howell, B. Jansen, J. Rock, L. Clarke, C. Ibarra

Abstract # 639: Identification of experimental therapeutics overcoming NRAS-based BRAFi-resistant malignant melanoma targeting brain metastases in a bioluminescent murine model
J. Jandova, S. Park, M. Corenblum, L. Madhavan, J. Snell, G. T. Wondrak

Abstract # 643: Immunoprevention of dysplastic nevi in mice
M. Sherwani, B. N. McDaniel, N. Yusuf, C. A. Elmets

Abstract # 655: Combination of cysteamine and isobionic-amide in a new formulation to decrease epidermal pigmentation
C. Hartman, S. Shah

Abstract # 661: Effect of sun exposure on distribution of nevi and melanoma in Caucasian and skin of color individuals
J. Harvey, J. Besch-Stokes, P. Bhullar, B. Boudreaux, P. Puri, K. Severson, M. Buras, C. Costello, M. R. Pittelkow, A. R. Mangold

Abstract # 663: Non-sunscreen photoprotection methods are associated with lower serum 25-hydroxyvitamin D, with Asian and Black individuals showing less decrease in 25-hydroxyvitamin D with shade seeking: NHANES 2011- 2016
J. Tsai, A. L. Chien

Abstract # 669: Evaluation and efficacy of skin of color dermatology education among underserved adolescents
N. Wong, K. Williams, S. Tolliver, D. Mehregan

Abstract # 677: Environmental justice & cutaneous sarcoidosis.
A. A. Guevara, C. Ortiz, A. J. James

Abstract # 681: Clinical trials in hidradenitis suppurativa and psoriasis under-represent certain gender, ethnic, and racial groups
C. Greif, R. S. Gibson, A. B. Kimball, M. L. Porter

Abstract # 689: A comparison of scholarly productivity among matched dermatology applicants by underrepresented in medicine status
D. X. Zheng, J. Narang, K. Schrom, A. Sarfo, J. Scott, V. Nambudiri, T. Sharma

Abstract # 693: A closer look: Understanding the role of lesional fibroblasts in hidradenitis suppurativa A. S. Byrd, J. Richert-Jones, C. Carmona-Rivera, M. J. Kaplan, G. A. Okoye, V. M. Harvey, J. Chan

Abstract # 701: Rethinking alopecia scores: Correlating measures of hair loss with established photographic scoring systems C. Gudobba, N. Rodriguez, T. Ogunleye, S. C. Taylor, G. Cotsarelis, E. Bernardis

Abstract # 711: An approach to hair loss in hijab-wearing individuals in primary care S. Dahak, J. Koblinski, L. Krueger

Abstract # 713: The RNA-based reprogramming of renal epithelial cells derived from recessive dystrophic epidermolysis bullosa patients into induced pluripotent stem cells A. Frieman, N. Diette, P. S. McGrath, **A. Bruckner**, I. Kogut, G. Bilousova

Abstract # 771: Novel approach for skin regeneration: mRNA-based telomerase enhancement of autologous skin cell suspension D. Chang, R. Holgate, K. Court Pinto, E. Olmsted-Davis, A. Hopkin, L. Mangum, K. A. Bush, A. Quick, B. Godin, J. Cooke

Abstract # 789: Topical thyroid hormones as novel endocrine wound healing promoters in human skin ex vivo J. Gherardini, F. D. Scala, E. J. Horesh, G. Epstein-Kuka, J. Rodriguez Eliz, J. Chéret, R. Paus

Abstract # 799: Cutaneous leukocyte-endothelial interactions predict outcomes after hematopoietic cell transplantation I. Saknite, J. R. Patrinely, Z. Zhao, H. Chen, T. Kim, M. Jagasia, M. Byrne, E. R. Tkaczyk

Abstract # 803: Epidermal inflammatory activity is an important driver of hidradenitis suppurativa lesions S. L. Schell, Z. Cong, M. L. Sennett, S. L. Gettle, A. L. Longenecker, S. R. Goldberg, J. S. Kirby, M. Helm, A. M. Nelson

Abstract # 805: Segmentation of cutaneous chronic graft-versus-host disease by a deep learning neural network A. J. McNeil, K. Parks, X. Liu, I. Saknite, F. Chen, T. Reasat, L. Wheless, B. Dawant, E. R. Tkaczyk

Abstract # 823: Circulating blood metabolite deficiency reveals immunometabolic reprogramming as a therapeutic strategy for the treatment of chronic itch J. Deng, V. Parthasarathy, Z. A. Bordeaux, N. Sutaria, M. Szeto, K. Lee, T. Pritchard, E. A. Cahill, A. Alajmi, S. Guo, C. Zhang, J. G. Meyer, A. Le, S. Kang, M. P. Alphonse, S. G. Kwatra

Abstract # 829: Cytotoxic T lymphocytes target henle's layer in alopecia areata J. Kim, E. Chang, E. Y. Lee, E. Wang, A. M. Christiano

Abstract # 837: Characterization of cutaneous hormone production through analysis of skin secretions J. L. Pineider, K. Eckert, J. McDonald, T. A. Harris-Tryon

Abstract # 839: Early biomarker identification for immune sensitization and prevention with oral vitamin D3 M. Ernst, S. Evans, J. Techner, R. M. Rothbaum, L. Christensen, U. Onay, D. Biyashev, M. Demczuk, K. Cooper, K. Lu

Abstract # 841: EGFR signalling contributes to pachyonychia congenita pathogenesis and its inhibition improves patients' quality of life J. Basset, L. Marchal, M. McGrath, A. Hovnanian

Abstract # 843: Gene-environment interaction effects of AKR1C3 and particulate matter exposure in atopic eczema C. Vogeley, S. Kress, A. Rossi, M. Nakamura, D. Lang, J. Krutmann, T. Schikowski, T. Haarmann-Stemann

Abstract # 853: A novel expression based, non-invasive method to differentiate atopic dermatitis and psoriasis R. Ratnappan, J. Whitaker, T. Allen, J. Rock, M. D. Howell

Abstract # 859: Skin tape strip proteomics in mycosis fungoides identifies tumor associated biomarkers J. Techner, S. Evans, M. Hooper, T. LeWitt, K. Lu, J. Guitart, X. Zhou

e-Poster Session 1: Clinical Research – Sociobehavioral and HS Research (5:00 – 6:00 pm)

Terminal #2-Room A107

- 5:06 pm Abstract # 361: Utilization of resources for cellulitis in hospitalized patients: Predictors of cutaneous abscess diagnosed on ultrasound
B. Cucka, B. Biglione, S. Chand, R. Rrapi, C. Gabel, S. Song, D. Kroshinsky
- 5:12 pm Abstract # 345: The burden of atopic dermatitis out-of-pocket healthcare expenses in United States children
R. Chovatiya, W. Smith Begolka, I. J. Thibau, J. I. Silverberg
- 5:18 pm Abstract # 343: Recent trends in healthcare utilization and costs for adults and children with hidradenitis suppurativa
D. Chopra, S. Maczuga, J. S. Kirby, H. Lev-Tov
- 5:36 pm Abstract # 339: Growth in the cost of biologics in Medicare beneficiaries, 2017 to 2019
J. Laborada, L. Shin, C. Lee, S. Shahsavari, A. Egeberg, J. Wu
- 5:42 pm Abstract # 353: Evaluation of immunization status in psoriasis patients prior to initiation of immunosuppressive therapy – A multidisciplinary approach
D. S. Kim, R. S. Gibson, M. Her, M. Mahoney, P. Stering, S. Padiwal, D. Taupin, M. L. Porter

e-Poster Session 1: Innate Immunity, Microbiology, and Microbiome (5:00 – 6:00 pm)

Terminal #3-Room 109

- 5:00 pm Abstract # 525: How the inappropriate innate immune response of atopic dermatitis promotes dysbiosis of the skin microbiome
T. Nakatsuji, A. Butcher, S. Brinton, A. O'Neill, R. Gallo

e-Poster Session 1: Skin, Appendages, and Stem Cell Biology (5:00 – 6:00 pm)

Terminal #4-Room B110

- 5:42 pm Abstract # 736: Defining the epigenetic regulation of fibroblast lineages during embryonic development
Q. M. Phan, R. Driskell
- 5:48 pm Abstract # 708: Aire deficiency induces upregulation of JAKSTAT signaling in keratinocytes and results in alopecia areata-like lesions in mice
N. Maglakelidze, T. Gao, R. P. Feehan, R. Hobbs

e-Poster Session 1: Tissue Regeneration and Wound Healing (5:00 – 6:00 pm)

Terminal #5-Room B112

- 5:24 pm Abstract # 759: Mechanical tension mobilizes Lgr6+ epidermal stem cells to drive skin growth
Y. Xue, C. Lyu, A. Taylor, A. van Ee, A. Kiemen, Y. Choi, C. Lee, D. Wirtz, L. Garza, S. Reddy
- 5:30 pm Abstract # 769: Wearable human skin constructs with region-specific properties
A. Pappalardo, D. Alvarez-Cespedes, S. Fang, A. R. Herschman, E. Jeon, K. Myers, J. Kysar, H. E. Abaci

FRIDAY, May 20th

PeDRA Session (7:00 – 8:30 am)

C123-C124

- 7:00 am Welcome and Introduction
Amy S. Paller, MD, MS
Carrie C. Coughlin, MD, MPHS
- 7:05 am Keynote Presentation: Translational research in vitiligo: Launching a new era of targeted treatments
John E. Harris, MD, PhD
- 7:40 am Abstract #169: Poor validity of hidradenitis suppurativa diagnostic criteria in pediatric patients
Jazzmin C. Williams
- 7:53 am Abstract #850: Potential role of skin in SARS-CoV-2 infection
Irina Budunova, MD, PhD
- 8:06 am The Impact of Pediatric Skin Disorders: An Update on PeDRA's "Big" Study on the Psychosocial Burden of Chronic Childhood Skin Diseases
Amy S. Paller, MD, MS
- 8:25 am Closing and Celebrating PeDRA's 10th Anniversary
Carrie C. Coughlin, MD, MPHS

Concurrent Mini-Symposium 8: Clinical Research – Sociobehavioral and Health Services Research (8:45 – 11:15 am)

Oregon Ballroom 204

- 9:21 am Abstract # 335: Developing a treatment decision aid for patients with moderate to severe atopic dermatitis
W. Baghoomian, R. Dunlap, A. Chang, E. Foster, E. Simpson
- 9:45 am Abstract # 338: Patient perspectives of barriers to accessing care for hidradenitis suppurativa: A proposed model.
L. A. Barnes, N. Shukla, M. Paul, M. C. Halley, I. de Vere Hunt, E. Linos, H. B. Naik
- 9:57 am Abstract # 330: Indoor tanning frequency trends: Data from the National Health Interview Survey 2005-2015
N. Trepanowski, L. Huang, R. Hartman
- 10:09 am Abstract # 388: Impact of crisaborole & tacrolimus 0.03% on patient-reported outcomes and caregiver burden in children with atopic dermatitis
J. Wieser, A. Chen, G. Lee, L. Baughman, E. M. Pope, A. Franco, B. Verhave, B. Johnson, T. Love, L. A. Beck, J. Ryan Wolf
- 10:21 am Abstract # 369: Utility of price-estimator tools within dermatology
L. E. Drake, K. Yang, S. Ghatnekar, V. Nambudiri
- 10:33 am Abstract # 326: High patient acceptability of social needs screening in dermatology clinic
K. Wilkerson, J. C. Williams, E. De Marchis, N. Rudd, E. Amerson, A. Chang
- 10:45 am Abstract # 375: Lived experiences of acne and acne treatment in transgender persons: A qualitative study
C. Alcid, S. Gold, S. Willner, R. Radi, J. Barron, H. Yeung
- 10:57 am Abstract # 320: Regional disparities in the dermatology workforce
J. Tomtschik, E. Sabogal, P. Singh, M. G. Mercurio

Concurrent Mini-Symposium 9: Innate Immunity, Microbiology, and Microbiome (8:45 – 11:15 am)

A105-A106

- 10:31 am Abstract # 561: Filaggrin deficiency confers an altered early life T cell response to commensal skin bacteria
J. Gonzalez, T. Scharschmidt
- 10:33 am Abstract # 537: Neutrophil-intrinsic TNF receptor signaling directs immunity against staphylococcus aureus
C. Youn, Y. Wang, D. A. Dikeman, M. P. Alphonse, S. J. Nolan, D. P. Joyce, C. Pontaza, M. Ahmadi, A. Tocaj, L. S. Miller, N. Archer

Concurrent Mini-Symposium 10: Pigmentation and Melanoma (8:45 – 11:15 am)

B113-B116

- 10:33 am Abstract # 638: Inverse genetic risk between cutaneous melanoma, basal cell carcinoma, squamous cell carcinoma and vitiligo
S. Rashid, N. Klebanov, M. Shaughnessy, M. Daly, M. Artomov, H. Tsao

Concurrent Mini-Symposium 11: Skin, Appendages, and Stem Cell Biology (8:45 – 11:15 am)

C123-C124

- 9:09 am Abstract # 712: UV-induced reduction in polycomb repression promotes epidermal pigmentation
M. Li, P. Flora, H. Pu, C. Bar, J. Silva, I. Cohen, P. M. Galbo, H. Liu, X. Yu, J. Jin, H. Koseki, J. A. D'Orazio, D. Zheng, E. Ezhkova

Sanofi and Regeneron Symposium (12:15 – 1:15 pm)

PeDRA Gold Level Corporate Council Member

Oregon Ballroom 204

Poster/Exhibitor/Happy Hour Session 1 (4:30 – 6:30 pm)

Even Poster Numbers

Exhibit Halls A-A1-B

Abstract # 006: IL-6 enhances IL-6 expression by epidermal langerhans cells (LCs)

W. Ding, L. L. Stohl, V. Isak, J. A. Wagner, Z. Bulmer, R. D. Granstein

Abstract # 008: Smad7 dampened IL22 signaling-induced inflammation through IL22RA2 upregulation

Y. Ke, B. Li, D. Wang, S. Wang, C. Young, X. Wang

Abstract # 014: Differential gene expression in lesional skin may signify immunemediated lung parenchymal damage in dermatomyositis patients

K. Shaw, N. Doudican, N. Frazzette, A. Caplan, A. Femia, J. Carucci

Abstract # 018: Dysregulation of natural killer cell activity in dermatomyositis

G. EL-Banna, D. F. Fiorentino, K. Y. Sarin

Abstract # 020: Topical ruxolitinib for the treatment of lupus-like skin disease in MRL/ lpr mice

T. Curran, J. Yon, J. Anolik, C. T. Richardson

Abstract # 036: Unique proteins appear at different times during the course of a delayed-type hypersensitivity reaction in human skin

J. Han, J. Correa Da Rosa, S. Owji, Y. Estrada, J. Ungar, J. G. Krueger, N. Gulati

Abstract # 038: Single-cell sequencing of freshly isolated cells from lesional and peri-lesional skin to explore cellular origins of IL-17 isoforms in psoriasis

A. Skelton, K. Pappelbaum, X. Li, V. Oji, A. Tsianakas, M. Page, M. Bertolini, S. Shaw, A. Maroof

Abstract # 042: Epidermal loss of ROR α accelerates skin inflammation in a mouse model of atopic dermatitis

X. Hua, H. Dorsey, R. Hsung, J. Dai

Abstract # 046: Construction of a detailed historical longitudinal personal medical journey identifies critical non-genetic determinants of disease in a patient with pemphigus vulgaris.

J. Baroukhian, K. Seiffert, A. Sinha

Abstract # 052: Localized increased in chemokines associated with itch in hidradenitis suppurativa

V. Harbour, J. Kilgour, G. Swaminathan, K. Yekrang, M. Aleshin, K. Y. Sarin

Abstract # 054: IL-18 regulates nerve growth factor and semaphorin 3A in dermatomyositis-related pruritus

L. Wong, C. Lee, Y. Yen

Abstract # 062: High-throughput quantitative proteomics unveils HIF1 α as a driver of IL17A-induced metabolic alterations favoring hyperproliferation in keratinocytes

S. S. Marathe, D. Mukherjee, M. Basu, B. Dhamija, V. V. Sawant, S. Wad, D. Attrish, S. Kumar, R. Purwar

Abstract # 064: Functional interrogation of lymphocyte subsets in alopecia areata using single-cell RNA sequencing

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

Abstract # 074: ALK-positive desmoplastic Spitz naevus in a patient with corresponding ALK-positive anaplastic large cell lymphoma

J. Nguyen, A. Huang, J. Fleming, D. MacGregor, D. Wilks

Abstract # 092: Subtype-dependent differences in genomic profiles of acral and cutaneous melanoma

D. Y. Kim, E. I. Buchbinder, R. Hartman

Abstract # 094: BUB1B germline variant predisposes to cutaneous melanoma and multiple other primary malignancies

M. Kazmi, J. Terrell, D. Martiniuc, J. D. McPherson, M. Kiuru

Abstract # 102: Citrullinated histone H3, a marker for neutrophil extracellular traps, is associated with poorer prognosis in recessive dystrophic epidermolysis bullosa patients with cutaneous squamous cell carcinoma.

H. Ragot, S. Gaucher, M. Titeux, M. Bonnet des Claustres, J. Basset, M. Battistella, E. Bourrat, A. Hovnanian

Abstract # 138: Single-cell RNA-seq of dorsal root ganglion reveals neuroinflammatory process in atopic dermatitis

Y. Kim, J. Ryu, Y. Jang, D. Kim, Y. Bang, S. Choi, J. Moon, H. Kim, J. Shin

Abstract # 150: Thinking beyond race: No racial differences found in access to biologics among US psoriasis patients

R. Reddy, D. Yee, C. Zagona-Prizio, S. Khan, S. Khan, N. Maynard, M. D. Mehta, V. Chat, K. Wu, A. W. Armstrong

Abstract # 162: Validation of a patient-reported outcome measure in adults with morphea

*A. Walker, N. Teske, C. Zigler, **H. Jacobe***

Abstract # 164: Association between atopic dermatitis and celiac disease: A systematic review and meta-analysis

U. Khan, K. Tang, W. Guo, H. Perera, S. Na, R. Clark

Abstract # 166: Itch and skin inflammation at insulin pump sites in patients with type 1 diabetes

M. Shinohara, J. Baran, D. Khakpour, I. Hirsch, A. Kalus

Abstract # 168: COVID-19 mRNA vaccine booster cutaneous reactions reported to the AAD/ILDS dermatology registry

S. Prasad, D. E. McMahon, A. Tyagi, R. Singh, R. Ali, H. W. Lim, L. P. Fox, K. Blumenthal, G. Hruza, L. E. French, E. Freeman

Abstract # 182: Evaluation of skin stiffness in cutaneous fibrosing disorders: A novel constructive shear wave interference ultrasound technology

M. E. Belina, T. Patel, B. Liu, C. Green, P. Sener, P. Hollender, A. Cardones

Abstract # 184: Is prurigo pigmentosa simply a “keto” rash?

*A. Shen, N. Vecerek, S. Worswick, **M. Hogeling***

Abstract # 188: Patient-reported outcome measures for health-related quality of life in acne vulgaris: A systematic review of measure development and measurement properties

*Z. Hopkins, D. Thiboutot, L. Perez Chada, H. A. Homsy, **J. S. Barbieri***

Abstract # 198: Heterogeneity in cutaneous infection prevalence and frequency by timing of atopic dermatitis onset

S. Shah**, D. J. Margolis, N. Mitra, **J. Wan

Abstract # 200: Impact and burden of pityriasis rubra pilaris on quality of life: An exploratory focus group

R. C. Velasco, B. Cutler, T. Greiling

Abstract # 202: Atypical masses associated with PIK3CA-related overgrowth spectrum (PROS)

K. K. Barry, M. G. Liang, W. Eng

Abstract # 206: Tetracyclines are associated with development of new hyperpigmentation in acne patients

K. Young, J. Yoon, E. D. Getachew, B. Leung, N. Nguyen, Y. Semenov, N. Theodosakis

Abstract # 208: The burden of alopecia areata (AA) vs psoriasis (PsO) in the United States

J. Chung, L. Bartolome, D. Gruben, M. Ray, E. Masters, D. Mitra, A. Mostaghimi

Abstract # 220: Clinical epidemiology of ecthyma gangrenosum

W. C. Lau, K. Yang, C. X. Pan, C. B. Lau, B. Kassamali, V. Nambudiri

Abstract # 222: Geographic distribution of primary discoid lupus erythematosus and environmental hazards in Massachusetts

N. Goldman, B. Kassamali, C. Nwankwo, J. Merola, G. Cobos, R. Vleugels, A. LaChance

Abstract # 228: Disparities in global representation within dermatology publishing: A bibliometric analysis

S. Prasad, R. Ali, V. Mroz, S. Mehta, R. Singh, L. Abdelrahman, R. Kankaria, S. Singh, R. Dellavalle, E. Freeman

Abstract # 232: Voriconazole metabolism is associated with the number of skin cancers per patient

J. Ike, I. T. Smith, W. F. Dean, C. Madden, A. Lewis, L. Bastarache, L. Wheless

Abstract # 236: The importance of inflammatory markers in generalized pustular psoriasis (GPP): An immunohistochemical analysis

R. E. Schopf

Abstract # 246: Environmental injustice and risk for wildfire-associated skin flares

D. Seth, R. P. Fadadu, N. Jewell, M. Wei

Abstract # 248: Functional and psychological outcomes of combined pulsed dye laser and fractional carbon dioxide laser treatment for scars in pediatric patients

*E. Kleinman, **D. Eichenfield**, A. Krakowski, **W. Tom, L. F. Eichenfield***

Abstract # 250: Development and validation of a caregiver-reported numeric rating scale for measuring skin pain in children aged 6 months to <6 years with atopic dermatitis

***A. Paller, E. Siegfried**, S. E. Marron, M. Clark, N. Harris, S. Quin, J. Chao, A. Bansal, Y. Sun, C. Chuang, Z. Wang*

Abstract # 254: Development and validation of the dysesthesia assessment questionnaire

K. Erickson, R. Tripathi, R. Klatzky, J. Bordeaux, B. T. Carroll

Abstract # 256: Steven johnsons syndrome/toxic epidermal necrolysis management in the burn intensive care unit
J. Rahesh, K. Holder, J. Griswold

Abstract # 260: Responses following COVID-19 vaccination in patients with autoimmune skin disease
G. Sprow, M. Afarideh, J. Dan, E. Keyes, M. Grinnell, J. Concha, T. Vazquez, D. Diaz, N. Kodali, V. Werth

Abstract # 266: Comorbidity associations among pediatric hidradenitis suppurativa patients: A cross-sectional analysis
K. Jenkins, R. Raiker, H. Pakhchanian, L. Shen

Abstract # 278: Photo validation study using cutaneous dermatomyositis disease area and severity index in dermatomyositis patients
M. Grinnell, J. Concha, R. Feng, E. Keyes, J. Okawa, D. Diaz, T. Vazquez, V. Werth

Abstract # 286: Comparison of subcision vs subcision-suction for treatment of acne scars: A split-face randomized controlled trial
N. Anvery, M. A. Dirr, R. Christensen, M. Alam

Abstract # 308: Incremental improvements after switching from dupilumab (DUPI) to upadacitinib (UPA) in the Heads Up open-label extension (OLE) study
V. H. Prajapati, B. Glick, L. Spelman, I. Figueras Nart, B. Calimlim, B. Ladizinski, T. Wu, Y. Liu, J. Davis, H. Aydin, B. Ehst

Abstract # 312: Efficacy of infliximab in hidradenitis suppurativa: A meta-analysis
T. Shih, K. Lee, T. Grogan, D. R. De, V. Y. Shi, J. Hsiao

Abstract # 332: Impact of free dermatology clinic on healthcare delivery to uninsured patients – a descriptive analysis study
J. S. Kang, D. C. Moore, F. Nutan

Abstract # 334: Clinical data registries as a vital tool for academic dermatology
A. Mittal, J. Marks, M. Butt, J. Simmers, A. Flamm

Abstract # 348: Examining past, present & future shared decision making among eczema patients and caregivers
*A. Loiselle, I. J. Thibau, E. Latour, E. Foster, **W. Smith Begolka***

Abstract # 356: Infantile hemangioma referral delays persist despite 2019 American Academy of Pediatrics Clinical Practice Guideline: Experience at a single quaternary pediatric institution
L. Montoya, K. Johnson, J. A. O'Haver, H. N. Price

Abstract # 364: Improving hairdressers' knowledge and identification of hair loss disorders with use of an educational video
S. Ali, M. Collins, L. Burns, I. Pupo Wiss, D. Hagigeorges, L. Burns, M. Senna

Abstract # 380: Quality of life impact of acne by region in transgender and gender diverse persons: A cross-sectional study
S. Willner, C. Alcid, S. Gold, R. Radi, J. Barron, H. Yeung

Abstract # 386: Impact of telehealth appointments on pharmaceutical management of dermatological conditions
A. Munjal, R. Tripathi, P. Kinn, K. Percival, D. Ince, J. G. Powers

Abstract # 390: Real world prescribing patterns of dupilumab for atopic dermatitis
T. E. Sivesind, G. Bosma, C. Hochheimer, L. M. Schilling, R. Dellavalle

Abstract # 392: Dietary factors differentiate vitiligo patients with stable or active disease.
M. Daniel, K. Cedercreutz, S. M. Rangel, Y. Ali, K. M. Daftary, E. Dellacecca, L. van Horn, S. Green, I. Le Poole, R. V. Kundu

Abstract # 404: Novel glycerin compounds improve skin health.
G. Shiota, R. Tsuruoka, K. Hanada

Abstract # 414: Exogenous ceramide serves as a precursor to endogenous ceramide synthesis and as a modulator of keratinocyte differentiation

K. Shin, H. Mihara, K. Ishida, Y. Uchida, K. Park

Abstract # 416: Pyroptosis of keratinocyte in Stevens-Johnson syndrome / toxic epidermal necrolysis

Y. Saito, A. Hasegawa, T. Nishiguchi, N. Hama, R. Abe

Abstract # 430: An inflamed and infected reconstructed human epidermis to study the efficacy of a plant extract on atopic dermatitis

A. Garlet, S. Cadau, M. Gault, N. Berthelemy, D. Gauché, C. Pons, C. Leprince, M. Simon, S. Pain, V. Andre

Abstract # 452: Molecular and histopathologic profiling of melanocytic nevi in patients with RASopathies

E. Simmons, I. Rybak, J. Urban, J. D. McPherson, K. A. Rauen, M. Kiuru

Abstract # 454: Genotype-phenotype associations in recessive dystrophic epidermolysis bullosa (RDEB)

*J. So, N. Harris, S. Fulchand, E. **Gorell**, J. **Nazaroff**, V. Yenamandra, M. Marinkovich, J. **Tang***

Abstract # 458: A focused analysis of genome-wide associations of dermatologic conditions in the UK biobank

J. C. Klein, R. Mahapatra, R. C. Wang

Abstract # 464: Nanopore Cas9-targeted sequencing as a tool for identifying revertant mosaicism in the skin

K. Natsuga, Y. Furuta, S. Takashima, T. Nohara, H. Kosumi, Y. Mai, H. Higashi, H. Ujiie

Abstract # 468: Transcriptional profiling of the rare acantholytic disorders Darier disease, Hailey-Hailey disease, and Grover's disease suggests common mechanisms of pathogenesis

H. Burks, Q. Roth-Carter, L. M. Godsel, X. Xing, L. C. Tsoi, J. Kirma, J. E. Gudjonsson, K. Green

Abstract # 472: Distribution of hidradenitis suppurativa monogenic etiologies in a racially diverse specialty clinic cohort

*A. **Colvin**, E. Baugh, K. Babbush, T. Adriano, G. Benesh, M. E. Torpey, A. Nosrati, A. T. DeWan, S. M. Leal, D. Goldstein, S. Cohen, L. **Petukhova***

Abstract # 474: Ratio-dependent adenine base editing engenders highly efficient correction of RDEB mutations with minimal bystander mutations

A. Sheriff, I. Guri, P. Zebrowska, V. Llopis Hernandez, I. Brooks, G. Newby, D. Liu, L. Laczanski, J. McGrath, J. Jackow

Abstract # 476: Non-viral gene delivery platform for topically treating rare genodermatoses.

I. Lara-Saez, X. Wang, Y. Li, Z. He, D. Manzanares, M. Negru, Q. Xu, S. A, W. Wang

Abstract # 488: Ground reaction forces (GRF) in patients with epidermolysis bullosa simplex (EBS) during walking

M. Hunjan, V. Devecchi, A. Bardhan, N. Harper, D. Falla, A. Hegearty

Abstract # 490: Splice modulation as a therapeutic strategy applied to deep intronic mutations in COL7A1 causing recessive dystrophic epidermolysis bullosa

M. Titeux, N. Pironon, C. Prost, M. Chen, D. Woodley, E. Bourrat, A. Hovnanian

Abstract # 494: Epidermolysis bullosa pruriginosa, muscular dystrophy, and immunemediated myasthenia gravis in a patient with homozygous nonsense PLEC mutation

*A. Tavasoli, H. Vahidnezhad, L. Youssefian, A. Saeidian, M. Rouhani, Y. Nilipour, H. Mahmoudi, J. **Uitto***

Abstract # 500: Mendelian Susceptibility to Mycobacterial Diseases (MSMD) with autosomal dominant Interferon Gamma receptor one defect: A clinical diagnostic and treatment challenge for a 13 year old ethiopian girl

N. A. Gebeyehu, S. J. Deribessa, A. Freeman, M. T. Demissie, A. M. Gebremariam, D. M. Engliz, M. W. Gebre, T. Y. Kidane

Abstract # 516: Integrative analysis of the skin microbiome and metabolome in psoriasis

R. Wang, R. Tao, R. Li

Abstract # 522: Skin microbiome in cutaneous T-cell lymphoma is associated with phototherapy treatment response
M. Hooper, T. LeWitt, F. L. Veon, G. Enriquez, J. Guitart, M. Burns, X. Zhou

Abstract # 530: Quantitative aggregation of microbiome sequencing data provides insights into associations between the skin microbiome and psoriasis
A. Chan, P. T. Tran, J. Yang, D. J. Lee

Abstract # 540: Using swabs and scanning electron microscopy (SEM) to detect biofilms in chronic epidermolysis bullosa (EB) wounds
H. Ibrahim, S. Kuehne, J. Hirschfeld, M. Hadis, A. Heagerty, I. Chapple

Abstract # 562: Tinea pedis: Evidence for a dysbiosis of the foot microbiome
R. Brucker, D. Bolshakov, S. Shen, N. Jovanovic, B. Sakhamuri, M. Megeressa, X. Zhang, K. Beutner

Abstract # 568: Botanical inhibitors of staphylococcal virulence: A new path toward mitigating atopic dermatitis severity?
C. Quave

Abstract # 598: A novel curcumin-harmine-isovanillin compound inhibits the growth of actinic keratoses by suppressing MAPK and PI3K-AKT signaling
Z. Bordeaux, J. Choi, K. Lee, G. Braun, J. Deng, V. Parthasarathy, M. P. Alphonse, C. West, S. G. Kwatra, M. Kwatra

Abstract # 600: Microarray patch-based adenovirus vaccines enable effective skin immunization
S. C. Balmert, Z. G. Ghozloujeh, C. Carey, T. L. Sumpter, G. Erdos, E. Korkmaz, L. Falo Jr.

Abstract # 608: Development and assessment of nanoparticle-encapsulated sunscreens
B. Yu, H. Suh, A. Zhou, S. Tomer, K. Shin, M. Swallow, J. Lewis, W. Saltzman, M. Girardi

Abstract # 630 Cdk2: A marker for invasive melanoma
N. R. Love, M. Kiuru, E. Simmons

Abstract # 632: Comparison of S100A8 and PRAME as biomarkers for diagnosing melanoma
J. Hai, S. L. Wong, Y. Li, D. L. Migloretta, M. A. Fung, M. Kiuru

Abstract # 648: Long-term melatonin treatment stimulates human epidermal pigmentation and melanocyte number
A. Sevilla, J. Chéret, R. Paus

Abstract # 654: Novel immune-related proteins differentially expressed in melanoma
G. Chhabra, J. Thornton, S. Su, M. Ndiaye, N. Ahmad

Abstract # 662: Evaluation of diagnosis diversity in artificial intelligence datasets
M. Chen, V. Rotemberg, J. Lester, R. Novoa, A. Chiou, R. Daneshjou

Abstract # 686: Assessment of allergic contact dermatitis and patch testing in skin of color patients
A. Burli, H. Maibach

Abstract # 692: Alopecia areata in underrepresented groups: Preliminary analysis of the All of Us research program
I. H. Moseley, E. A. George, M. M. Tran, E. Cho

Abstract # 704: Decomposing a deterministic path to hair follicle dermal niche formation: The intersection of two morphogen gradients
G. Strickland, R. Qu, K. Gupta, Y. Jiang, D. Dong, C. Saez, P. Weng, M. Taketo, Y. Klugar, P. Myung

Abstract # 718: Identification of novel loci associated with scalp hair-whorl direction
J. Luo, J. Tan, H. Huang, W. Chen, L. Jin, S. Wang

Abstract # 720: Genome-wide association analyses identified variants of potassium channel genes associated with sweating phenotypes

W. Chen, L. Wang, J. Luo, G. Chen, L. Jin, S. Wang

Abstract # 724: MPZL3 functions as a negative regulator of sebaceous gland size and sebocyte proliferation

T. C. Wikramanayake, C. Nicu, J. Gherardini, A. Mello, J. Chéret, R. Paus

Abstract # 728: Primary human sebocytes optimized culture method for the development of acne and seborrhea models

E. Lomonte, E. Coste, P. Markioli, L. Valenti

Abstract # 752: Endothelial glycocalyx destruction is the main culprit for cutaneous inflammation in psoriasis

Q. Li, S. Shao, Z. Zhu, J. Chen, J. Hao, Y. Bai, B. Li, E. Dang, G. Wang

Abstract # 754: Therapeutic TNF inhibitors exhibit differential levels of efficacy in accelerating chronic cutaneous wound healing in vivo

Y. Cao, S. Tanriverdi, B. P. Harvey, T. Radstake, Z. Kaymakcalan

Abstract # 758: Assessing the natural history of recessive dystrophic epidermolysis bullosa wounds using a home photography app

*S. Fulchand, N. Harris, S. Li, J. So, **J. Nazaroff, J. Tang***

Abstract # 766: Co-expression of oral epithelial regenerative factors Sox2 and Pitx1 induces wound activation signature in skin keratinocytes

E. Hope, A. Overmiller, A. Sawaya, A. Uchiyama, S. Nayak, K. Hasneen, S. Brooks, M. Morasso

Abstract # 806: Histopathology features of cutaneous acute graft-versus-host disease can be reliably detected by noninvasive reflectance confocal microscopy

I. Saknite, M. Gill, C. Alessi-Fox, J. Zwerner, J. Lehman, M. Shinohara, R. Novoa, H. Chen, M. Byrne, S. Gonzalez, M. Ardigo, E. R. Tkaczyk

Abstract # 812: Indolium 1 exerts activity against vemurafenib-resistant melanoma in vivo

R. Radi, J. Elsey, Y. Jung, C. Huang, V. Corces, J. Arbiser

Abstract # 822: RPT193, a CCR4 inhibitor, improves the inflammatory skin transcriptomic profile in patients with atopic dermatitis

***E. Guttman-Yassky**, A. Pavel, P. Facheris, J. Correa Da Rosa, **A. D. Pagan**, E. Del Duca, Y. Estrada, R. Bissonnette, M. Kumar, D. Trujillo, J. Rulloda, N. Lee, S. Ikeda, J. Jankicevic, D. Wustrow, D. Brockstedt, W. Ho, L. Cheng, P. Kassner*

Abstract # 824: Spatial transcriptomic analysis of HS skin lesions reveals that tunnels are immunologically active and activity correlates with disease severity

C. Dunlap, C. Li, J. Frew, J. Guo, I. Charo, T. Schall, K. Sullivan

Abstract # 828: Targeted proteomics and spectral flow cytometry analysis of cutaneous lupus erythematosus

N. Haddadi, H. S. Raef, K. Afshari, M. Ahmed Refat, E. Kim, J. Galindo de Laffin, J. Harris, M. Rashighi, J. M. Richmond

Abstract # 834: In vivo phenotyping of the tumor-immune microenvironment in skin cancers

A. Sahu, L. Kraehenbuehl, A. Holland, M. Cordova, M. Gill, C. Alessi-Fox, S. Gonzalez, N. Kurtansky, A. Rossi, A. Marghoob, P. Guitera, M. Pulitzer, C. Jason Chen, T. Merghoub, M. Rajadhyaksha

Abstract # 836: Elucidating the cellular composition of lipomas to develop targeted treatment

A. Muskat, Y. Kost, A. Deutsch, M. Pirtle, B. McLellan, K. Shinoda

Abstract # 838: Rete ridges improve epidermal adhesion in engineered skin substitutes containing recessive dystrophic epidermolysis bullosa (RDEB) keratinocytes and normal or RDEB fibroblasts

D. M. Supp, B. N. Blackstone, J. M. Hahn, H. M. Powell

Abstract # 844: IgE in the pathobiology of itch in epidermolysis bullosa pruriginosa and beneficial clinical response to omalizumab

*M. Papanikolaou, J. Mellerio, M. Tesfamicael, L. A. Nattkemper, **G. Yosipovitch**, H. Gould, J. McGrath*

Abstract # 850: Potential role of skin in SARS-CoV-2 infection

D. Chudakova, A. Klopot, B. Shi, P. Bhalla, L. C. Tsoi, B. E. Perez White, I. Budunova

Abstract # 854: Bermekimab, anti-IL-1 α antibody, inhibits skin injury induced response in healthy subjects

M. W. Leung, J. Angsana, K. Chen, B. E. Keyes, Y. Zhuang, E. G. Ghorayeb

Abstract # 862: RashX: Immune single-cell transcriptional classification of human chronic inflammatory skin disease

A. Hailer, Y. Liu, H. Wang, M. Taylor, C. Cook, J. North, T. Mauro, E. Purdom, J. Cheng, R. Cho

Abstract # 864: Profiling the gut microbiome of acne patients from different racial and ethnic backgrounds

K. Pagani, D. Lukac, J. Z. Yi, J. S. McGee

e-Poster Session 2: Clinical Research – Epidemiology and Observational Research (5:00 – 6:00 pm)

Terminal #2-Room A107

5:12 pm Abstract # 194: Patient-reported disease burden in epidermolysis bullosa simplex (EBS)

*J. So, S. Fulchand, C. Wong, S. Li, **J. Nazaroff**, **E. Gorell**, M. P. de Souza, D. Murrell, **J. Teng**, A. Chiou, **J. Tang***

5:42 pm Abstract # 265: Evaluating the safety and effectiveness of the COVID-19 vaccination among pediatric atopic dermatitis patients

H. Pakhchanian, R. Raiker, K. Jenkins, L. Shen

e-Poster Session 2: Epidermal Structure and Barrier Function (5:00 – 6:00 pm)

Terminal #3-Room 109

5:18 pm Abstract # 432: IL-33 is a negative regulator of filaggrin expression in the skin but not in barrier homeostasis

M. Hossain, T. Ansary, M. Komine, M. Ohtsuki

e-Poster Session 2: Genetic Disease, Gene Regulation, and Gene Therapy (5:00 – 6:00 pm)

Terminal #4-Room B110

5:36 pm Abstract # 484: New insight of itch mediators and proinflammatory cytokines in epidermolysis bullosa

H. Nguyen, S. Shinkuma, R. Hayashi, T. Katsumi, T. Nishiguchi, K. Natsuga, Y. Fujita, R. Abe

5:54 pm Abstract # 465: GEM-3: phase 3 safety and immunogenicity results of beremagene geperpavec (B-VEC), an investigational, topical gene therapy for dystrophic epidermolysis bullosa (DEB)

M. Marinkovich, M. Gonzalez, S. Guide, I. S. Bagci, S. Chitra, B. Agostini, H. Chen, T. Parry, S. Krishnan

e-Poster Session 2: Translational Studies (5:00 – 6:00 pm)

Terminal #5-Room B112

5:00 pm Abstract # 827: Psoriasis exacerbation by obesity reflects reduced adiponectin regulation of PPAR- γ /Th17 pathway activation and is reversal by adiponectin receptor agonism

*S. Kim, H. Liu, K. Kwan, J. Im, H. Soltani, N. Kaplan, **A. Paller***

5:24 pm Abstract # 849: Optimization of intravenous gentamicin to restore functional laminin 332 in junctional epidermolysis bullosa patients harboring nonsense mutations

B. A. Levian, D. Mosallaei, R. Antaya, D. Woodley, M. Chen

*Names in **bold** are PeDRA Members.*

5:48 pm Abstract # 814: Correlation between skin cytokine profile and response to dupilumab in atopic dermatitis
K. Singh, K. Valido, M. Swallow, J. M. Cohen, W. Damsky

SATURDAY, May 21st

Plenary Session 2 (8:30 – 9:30 am)

Oregon Ballroom 201-202

2:33 pm Abstract # 678: Efficacy of topical LXR agonist in the treatment of primary cicatricial alopecia in *Scd1*^{-/-} mouse
J. Kim, J. Huang, E. Wang, A. M. Christiano

Concurrent Mini-Symposium 13: Adaptive and Auto-Immunity (9:45 am – 12:15 pm)

Oregon Ballroom 203

10:09 am Abstract # 017: Immunogenic catagen initiates alopecia areata
J. Kim, A. M. Christiano

10:33 am Abstract # 021: CXCL13-producing peripheral T helper cells as potential mediators of photosensitivity in dermatomyositis
K. Afshari, N. Haddadi, Y. Wang, J. M. Richmond, R. Vleugels, M. Garber, M. Rashighi

11:09 am Abstract # 055: CD8 T cell immunity after respiratory viral infection is transient, while CD8 T cell immunity after epidermal vaccination is lung focused and durable
T. Tian, Y. Pan, T. Pan, J. B. Williams, E. Rotrosen, Y. Yan, T. Kupper

11:57 am Abstract # 056: IL-15 prolongs hair growth and operates as a guardian of human hair follicle immune privilege
T. Suzuki, D. Demetrius, A. Rajabi-Estarabadi, F. D. Scala, J. Gherardini, T. Purba, J. Rodriguez-Feliz, G. Epstein-Kuka, C. Nicu, M. Harries, J. Chéret, R. Paus

Concurrent Mini-Symposium 14: Cell-Cell Interactions in the Skin (9:45 am – 12:15 pm)

Oregon Ballroom 204

10:21 am Abstract # 139: Pathogenic CD8⁺ T cell infiltration and immune synapse formation in alopecia areata hair follicles
R. Gund, E. M. Mace, A. M. Christiano

10:33 am Abstract # 127: IL-17 acts as the master regulator for metabolic rewiring in skin inflammation and drives keratinocytes towards a hyperproliferative phenotype
B. Dhamija, V. V. Sawant, M. Basu, D. Attrish, S. S. Marathe, R. Purwar

11:21 am Abstract # 133: Multimodal analyses of vitiligo skin identifies tissue characteristics of stable disease
J. Shiu, L. Zhang, G. Lentsch, J. Flesher, S. Jin, C. Polleys, I. Georgakoudi, Q. Nie, M. Balu, A. K. Ganesan

11:45 am Abstract # 142: The phenotype of dermal fibroblasts in young vs. aged human skin: Adaptation to dermal extracellular matrix deterioration and cell autonomous responses
Y. Cui, C. Worthen, R. Haas, S. Grill, M. Shi, L. C. Tsoi, J. Nandakumar, J. Voorhees, Y. Zhao, G. J. Fisher

Concurrent Mini-Symposium 15: Clinical Research – Interventional Research (9:45 am – 12:15 pm)

A105-A106

9:45 am Abstract # 281: Antenatal vitamin D supplementation & offspring risk of atopic eczema in infancy.
S. El-Heis, S. D'Angelo, E. Curtis, E. Healy, R. Moon, S. Crozier, H. Inskip, C. Cooper, N. Harvey, K. Godfrey

- 9:57 am Abstract # 295: Collagen 7 (C7) protein replacement therapy (PTR-01) durably reduces wound size and symptoms in patients with recessive dystrophic epidermolysis bullosa (RDEB)
A. Bruckner, J. Tang, W. Chung, K. Morel, M. Chen, D. Woodley, D. Keene, K. Peoples, M. Barriga, J. Carroll, L. Levin, S. Ravindran, M. Mangone, D. Ramsdell, H. Landy
- 10:33 am Abstract # 273: Long-term efficacy and safety of investigational autologous gene-corrected skin sheets (EB-101) for recessive dystrophic epidermolysis bullosa (RDEB)
*J. So, V. Iwummadu, **J. Nazarovff**, I. Bailey, D. McCarthy, M. Mirza, **J. Tang**, A. Chiou*
- 10:45 am Abstract # 280: A phase 2 randomized clinical trial of serlopitant, a neurokinin-1 receptor antagonist for the treatment of chronic itch in patients with epidermolysis bullosa
*U. Okata-Karigane, **E. Gorell**, K. Sum, K. Yekrang, M. Phung, M. Barriga, P. Udrizar, I. Bailey, S. Li, **J. Tang**, A. Chio*
- 10:57 am Abstract # 296: Dupilumab treatment restores skin barrier function in adult and adolescent patients with moderate-to-severe atopic dermatitis
E. Goleva, R. Bissonnette, E. Berdyshev, P. Jurvilliers, I. Ageusop, A. Praestgaard, M. Dillon, A. Rossi, A. Zhang
- 11:09 am Abstract # 310: Efficacy and safety of abrocitinib in biologic-exposed versus biologic-naïve patients with moderate-to-severe atopic dermatitis
*M. Gooderham, B. Strober, M. Ardern-Jones, **E. Guttman-Yassky**, M. Levenberg, G. Chan, P. Biswas, M. Watkins*
- 11:45 am Abstract # 294: Berdazimer 10.3% gel, a nitric oxide-releasing topical medication for molluscum contagiosum, triggers BOTE (Beginning Of The End) inflammation and accelerates resolution
*T. Maeda-Chubachi, M. Cartwright, **A. Paller***

Concurrent Mini-Symposium 16: Photobiology (9:45 am – 12:15 pm)
B113-B116

- 9:45 am Abstract # 606: Translation and growth pathways are directly influenced by autoimmune regulator (Aire) in skin keratinocytes
R. P. Feehan, K. R. Patrick, T. Gao, R. Hobbs
- 10:09 am Abstract # 613: UVB-irradiated keratinocyte-derived extracellular vesicles induced STING and inflammasome mediated proinflammatory responses
Y. Li, T. Vazquez, M. Ogawa-Momohara, V. Werth
- 11:33 am Abstract # 622: Regulation of XPC binding dynamics and global nucleotide excision repair by p63 and vitamin D receptor
C. Wong, D. H. Oh

Concurrent Mini-Symposium 17: Skin of Color (9:45 am – 12:15 pm)
C123-C124

- 9:57 am Abstract # 673: Metabolomic profiling of cutaneous lupus erythematosus
L. Abbas, G. Barber, H. Vu, L. Cai, R. C. Wang, B. F. Chong
- 10:21 am Abstract # 672: Patient race is associated with diagnostic uncertainty for psoriasis among dermatologists
F. Ahmed, R. Fitzsimmons, E. Chu, D. B. Shin, J. Takeshita
- 11:21 am Abstract # 687: Acne-related quality of life differs by race/ethnicity and sex
G. Santos Malave, R. Fitzsimmons, D. B. Shin, J. Takeshita