December 6, 2024, Room A

Opening

8:20-8:30

Plenary Session I

8:30-10:15 Chairs: Manabu Fujimoto, Sang Ho Oh, Sayuri Yamazaki

I-1 [P03-01] **The interaction between CD155 and TIGIT promotes tumor proliferation in cutaneous T-cell lymphoma**

○ Ryoma Honda[1], Naomi Takahashi-Shishido[2], Tomomitsu Miyagaki[2,3], Hikari Boki[2], Shinichi Sato[2], Makoto Sugaya[1]

[1]The Department of Dermatology, International University of Health and Welfare, Narita, [2]The Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo, [3]Department of Dermatology, St. Marianna University School of Medicine, Kawasaki

I-2 [P02-02] **Non-human reads in human WGS identify endogenous HHV-6B and blood anellovirus virome associated with autoimmune diseases and COVID-19 risk**

○ Yukinori Okada[1], Sasa Noah[1,3], Shohei Kojima[2], Rie Koide[2], Rei Watanabe[1,4], Yuumi Nakamura[1], Shinichi Imafuku[5], Yayoi Tada[6], Shinichi Sato[3], Masatoshi Jinnin[7], Tatsuyoshi Kawamura[8], Shinji Shimada[8], Shigetoshi Sano[9], Manabu Fujimoto[1], Akimichi Morita[10]

[1]Osaka University, Suita, [2]RIKEN Center for Integrative Medical Sciences, Tokyo, [3]The University of Tokyo, Tokyo, [4]Juntendo University, Tokyo, [5]Fukuoka University, Fukuoka, [6]Teikyo University, Tokyo, [7]Wakayama Medical University, Wakayama, [8]University of Yamanashi, Yamanashi, [9]Kochi University, Kochi, [10]Nagoya City University, Nagoya

I-3 [P04-02] **Crosstalk Between Adipocyte Lineage Cells and Mast Cells Drives Skin Inflammation and Fibrosis in Atopic Dermatitis**

○ Shujun Heng, Zhuolin Guo, Jie Li, Ling-juan Zhang

The State Key Lab of Cellular Stress Biology, School of Pharmaceutical Sciences, Xiamen University, Xiamen

I-4 [P09-02] **Characterization of Circulating Monocytes in Atopic Dermatitis through Single-Cell RNA Sequencing**

○ Yujin Lee

Department of Dermatology, Eunpyeong St. Marys Hospital, College of Medicine, The Catholic University of Korea, Seoul

I-5 [P12-02] **Dual Inhibition of FAK and PYK2 Overcomes Acquired Resistance to Immune Checkpoint Inhibitors by Suppressing the IFN-STAT1-PDL1 Pathway**

○ Yuto Mizuno[1,2], Masanari Umemura[2], Chihiro Hayashi[2], Akane Nagasako[2], Yoko Ino[3], Yayoi Kimura[3], Yukie Yamaguchi[2], Yoshihiro Ishikawa[1]

[1]Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, Yokohama, [2]Cardiovascular Research Institute (CVRI), Yokohama City University Graduate School of Medicine, Yokohama, [3]Advanced Medical Research Center, Yokohama City University, Yokohama

I-6 [P13-01] **Epidermal keratinocyte progenitors transiently emerge as ectomesenchyme from non-neural ectoderm**

○ Asaka Miura[1,2,3], Yuki Kobayashi[1], Yoshikazu Hirose[1], Yuya Ouchi[2], Tomomi Kitayama[2], Eiichi Takaki[2], Ryoma Yamamoto[2], Sho Yamazaki[2], Machika Kawamura[2], Kotaro Saga[1], Takashi Shimbo[1], Manabu Fujimoto[3], Katsuto Tamai[1]

[1]Department of Stem Cell Therapy Science, Osaka University Graduate School of Medicine, Suita-city, [2]StemRIM Institute of Regeneration-Inducing Medicine, Suita-city, [3]Department of Dermatology, Osaka University Graduate School of Medicine, Suita

I-7 [P15-01] **Proteomic Insights into Sex-Specific Pathways in Androgenetic Alopecia and Female Pattern Hair Loss**

○ Sasin Charoensuksira[1], Jitlada Meephansan[1], Raksanawan Vanichvongvan[1], Poorichaya Somparn[2], Pattarin Tangtanatakul Tangtanatakul[3,4], Poonkiat Suchonwanit[5]

[1]Division of Dermatology, Chulabhorn International College of Medicine, Thammasat University, Pathum Thani, [2]Center of Excellence in Systems Biology, Faculty of Medicine, Chulalongkorn University, Bangkok, [3]Department of Transfusion Medicine and Clinical Microbiology, Faculty of Allied Health Sciences, Chulalongkorn University, Bangkok, [4]Center of Excellence in Immunology and Immune-mediated diseases, Department of Microbiology, Chulalongkorn University, Bangkok, [5]Division of Dermatology, Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok

Concurrent Oral Session 1 (Epidermal Structure and Barrier Function)

10:20-11:44 Chairs: Hideyuki Ujiie, John Common

C01-01 [P05-04] **Three distinct ultrastructural stages of dying epidermal stratum granulosum cells during corneoptosis revealed by high-pressure freezing**

○ Takeshi Matsui[1,2,3], Ai Hirabayashi[4], Mayuko Sato[5], Kiminori Toyooka[5], Hiroyuki Sasaki[6], Masayuki Amagai[2,3]

[1]School of Bioscience and Biotechnology, Tokyo University of Technology, Tokyo, [2]RIKEN Center for Integrative Medical Sciences, Yokohama, [3]Department of Dermatology, Keio University School of Medicine, Tokyo, [4]Institute for Life and Medical Sciences, Kyoto University, Kyoto, [5]RIKEN Center for Sustainable Resource Science, Yokohama, [6]Department of Occupational Therapy, School of Rehabilitation, Tokyo Professional University of Health Sciences, Tokyo

C01-02 [P05-05] **Protective role of catestatin in a mouse model of atopic dermatitis via Notch1/PKC pathway**

○ Ge Peng[1,2,3], Wanchen Zhao[1], Alafate Abudouwanli[1], Quan Sun[1], Mengyao Yang[1,2], Shan Wang[1,3], Shigaku Ikeda[1], Hideoki Ogawa[1], Ko Okumura[1], François Niyonsaba[1,4]

[1]Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, [2]Department of Dermatology, the First Affiliated Hospital of China Medical University, Shenyang, [3]Department of Dermatology, Beijing Children's Hospital, Capital Medical University, Beijing, [4]Faculty of International Liberal Arts, Juntendo University, Tokyo

C01-03 [P05-06] **Sweating disturbance negatively affects skin barrier function and increases the risk of food allergy**

○ Hironobu Ishimaru[1,2], Yasuo Okamoto[1], Yumi Aoyama[3]

[1]Department of Pharmacology, Kawasaki Medical School, Okayama, [2]Kyoto R&D Center, Maruho Co., Ltd., Kyoto, [3]Department of Dermatology, Kawasaki Medical School, Okayama

C01-04 [P05-07] **Deep learning-based automatic topographical image assessment of skin barrier dysfunction and a cluster analysis of atopic dermatitis**

○ Kenta Nakamoto[1], Hironobu Ishimaru[1], Tatsuki Ohta[2], Tetsushi Koide[2], Yumi Aoyama[1]

[1]Dermatology, Kawasaki Medical School, Kurashiki, [2]Research Institute for Nanodevices, Hiroshima University, Higashihiroshima

C01-05 [P05-08] **How an epidermal barrier abnormality develops in diabetes mellitus: the roles of inflammation and ceramide metabolic abnormality**

Kyong-Oh Shin[1,2], Hahyn Ann[1], Yerim Choi[1,2], Karin Goto[1], Eung Ho Choi[3], ○ Yoshikazu Uchida[1], Kyungho Park[1]

[1]Hallym University, Chuncheon, [2]LaSS Inc, Chuncheon, [3]Yonsei University Wonju College of Medicine, Seoul

C01-06 [P05-09] **Overexpression of acid ceramidase in the epidermis of mice provokes atopic dry skin-like symptoms**

○ Mariko Takada[1], Miho Sashikawa-Kimura[2], Hossain Razib[2], Xiaonan Xie[1], Mayumi Komine[2], Mamitaro Ohtsuki[2], Genji Imokawa[1]

[1]Utsunomiya University, Utsunomiya, [2]Jichi Medical University, Shimotsuke

C01-07 [P05-10] **Novel insights from changes in skin surface lipidomics profile and phenotype in various age groups**

○ Kyung Eun Lee[1], Kyong-Oh Shin[2], Hyeyoun Kim[1], Hee Yeon Cho[1], Minji Kim[1], Kyungho Park[3], Seunghyun Kang[1]

[1]COSMAX BTI, Seongnam, [2]LaSS Inc, Chuncheon, [3]Hallym University, Chuncheon

Luncheon Seminar 1

11:55-12:55 Chair: Takashi Inozume

LS1 **Potential roles of anti-PD-1 antibody for the treatment of melanoma: how to use the anti-PD-1 antibody for advanced melanoma?**

○ Taku Fujimura

Department of Dermatology, Tohoku University, Graduate School of Medicine

Co-sponsored by MSD K.K.

Sun Pharma RISING SUN AWARD 2024

13:00-14:00 Chairs: Manabu Ohyama, Hiroyuki Murota

SRA1 **Loricrin and Structural Imprinting: Regulating T Cell Activity and Epidermal Immunity**

○ Yosuke Ishitsuka

Department of Dermatology Integrated Medicine, Osaka University Graduate School of Medicine

SRA2 **Challenges in understanding the pathogenesis of bullous pemphigoid**

○ Hideyuki Ujiie

Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University

SRA3 **Pathological and translational research for intractable immune and connective tissue diseases: from our study on systemic sclerosis and psoriasis**

○ Yukie Yamaguchi

Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine

Co-sponsored by Medical Affairs, Sun Pharma Japan Limited

LEO Foundation Awards 2024

14:05-14:25 Chair: Manabu Ohyama

Award Ceremony

14:25-15:00

Young JSID Award

Presenter: Manabu Ohyama

YJA-1 Yuki Honda Keith, Garvan Institute of Medical Research

YJA-2 Shota Takashima, Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University

YJA-3 Hitoshi Terui, University of California, San Francisco

JSID's Fellowship Shiseido Research Grant

Presenter: Kiyoshi Sato

2023 JSID's Fellowship Shiseido Research Grant

SE-3 **Analysis of homologous recombination in skin using genetically engineered mouse models**

○Gyohei Egawa

Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto

SE-4 **Elucidating Sex Differences in Immune Response and the Molecular Mechanisms in Dermal Fibroblasts**

○Takehiro Takahashi

Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai

2024 JSID's Fellowship Shiseido Research Grant

Unveiling the spatiotemporal wound memory in stem cells by epidermal injury

○Mika Watanabe

Hokkaido University Graduate School of Medicine, Department of Dermatology

Prevention strategies for tumor development arising from aging alteration of the skin microenvironment

○Hanako Koguchi-Yoshioka

Department of Neurocutaneous Medicine, Division of Health Science, Graduate School of Medicine, Osaka University

Diploma of Dermatological Scientist

Presenter: Manabu Ohyama

Tuba Musarrat Ansary, Department of Dermatology, Jichi Medical University
Cheng Hui Mei, Dr Priya Sen Skin and Laser Centre
Bayarmaa Taivanbat, Department of Dermatology, Gunma University Graduate School of Medicine

JDS Best Paper Award 2023

Presenter: Shigetoshi Sano

Updated skin transcriptomic atlas depicted by reciprocal contribution of single-nucleus RNA sequencing and single-cell RNA sequencing

Ronghui Zhu and Xiaoyu Pan

Department of Dermatology, Huashan Hospital, Fudan University, Shanghai Institute of Dermatology, Shanghai

JSID Honorary Membership

Presenter: Manabu Ohyama

SID/JSID Young Fellow Collegiality Awards

Presenter: Paul Nghiem

Khalid Garman, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health
Kala Mahen, Cleveland Clinic Lerner Research Institute

ASDR/JSID Exchange Program

Presenter: Johannes S Kern

Laura Sormani, The University of Queensland, Frazer Institute

TSID/JSID Young Fellow Collegiality Awards

Presenter: Chih-Hung Lee

Chia Bao Chu, National Cheng Kung University
Leon Tsung-Ju Lee, Taipei Medical University

KSID/JSID Young Fellow Collegiality Awards

Presenter: Dongyoun Lee

Taemin Lee, Department of Dermatology, Samsung Medical Center, Sungkyunkwan University, Seoul
So Hee Park, Department of Dermatology, Eunpyeong St. Mary's Hospital, Seoul

Symposium 1
"The good and the bad from light"

15:05-17:05

Chairs: Peter Wolf, Akimichi Morita, Yukie Yamaguchi

SY1-1 **Ultraviolet B exposure controls skin homeostasis by dendritic cell-regulatory T cell crosstalk**

○ Sayuri Yamazaki

Department of Immunology, Nagoya City University Graduate School of Medical Sciences, Nagoya

SY1-2 **Hair regeneration: how hair follicle stem cells sense and respond to external light signals**

○ Sung-Jan Lin[1,2]

[1]Departments of Biomedical Engineering and Dermatology, National Taiwan University, Taipei, [2]Departments of Medical Research and Dermatology, National Taiwan University Hospital, Taipei

SY1-3 **The effect of UV-induced *Cdkn2a/p16* promoter mutations on the binding of ETS transcription factors**

○ Masaoki Kawasumi

Department of Dermatology, University of Washington, Seattle

SY1-4 **Analysis of the interaction of different wavelengths present in natural sunlight: Enhancement of UVB radiation-induced photocarcinogenesis by low, *per se* non-carcinogenic doses of UVA radiation**

○ Jean Krutmann, Katharina Maria Rolfes, Kevin Sondenheimer, Thomas Haarmann-Stemmann

IUF - Leibniz Research Institute for Environmental Medicine, Düsseldorf

SY1-5 **The role of the skin's microbiome in immune response to UV radiation**

○ Peter Wolf

Department of Dermatology, Medical University of Graz, Graz

Evening Seminar 1
"Recent findings in the pathogenesis of atopic dermatitis and psoriasis"

17:15-18:15

Chairs: Norito Katoh, Makoto Sugaya

ES1-1 **Recent Advances in the Pathogenesis and Treatment of Atopic Dermatitis**

○ Gyohei Egawa

Department of Dermatology, Kagoshima University, Kagoshima

ES1-2 **Metabolic reprogramming of keratinocytes in psoriasis**

○ Tetsuya Honda

Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu

Co-sponsored by Torii Pharmaceutical Co., Ltd.

December 6, 2024, Room B

Concurrent Oral Session 2
(Adaptive Immunity/Epidermal Structure and Barrier Function)

10:20-11:44 Chairs: François Niyonsaba, Chien-Hui Hong

C02-01 [P01-03] **Maintenance of dermal CD4+ tissue-resident memory T cells via lymphatic endothelial cells-derived interleukin-7**

○ Ryota Asahina[1,2], Fuuka Minami[2], Kenji Kabashima[2]

[1]Center for One Medicine Innovative Translational Research (COMIT), Gifu University, Gifu, [2]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto

C02-02 [P01-04] **Innovations in Allergen-Specific Immunotherapy for Atopic Dermatitis: The Critical Function of a Peripheral-induced Specific Treg Lineage**

○ Kelun Zhang[1,2], Su Min Kim[1,2], Hye Li Kim[1,2], Wanjin Kim[1], Yeon Woo Jung[1], Kwang Hoon Lee[1], Chang Ook Park[1,2]

[1]Department of Dermatology and Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, [2]Brain Korea 21 PLUS Project for Medical Sciences, Yonsei University College of Medicine, Seoul

C02-03 [P01-05] **Cytotoxic CD4+ T cells eliminate senescent dermal fibroblasts by targeting cytomegalovirus antigen**

○ Tatsuya Hasegawa[1,2,3], Tomonori Oka[2,3], Heehwa G. Son[2,3], Valeria S. Oliver-Garcia[2,3], Marjan Azin[2,3], Thomas M. Eisenhaure[4], David J Lieb[4], Nir Hacohen[2,4], Shadmehr Demehri[2,3]

[1]MIRAI Technology Institute, Shiseido Co., Ltd., Yokohama, [2]Center for Cancer Research, Massachusetts General Hospital and Harvard Medical School, Boston, [3]Department of Dermatology, Massachusetts General Hospital and Harvard Medical School, Boston, [4]Broad Institute of MIT and Harvard, Boston

C02-04 [P01-06] **The expression of fatty-acid binding protein 5 in T cells of resident memory T cell-mediated skin diseases**

○ Shoichi Matsuda[1,4], Shuichi Nakai[2,4], Toshihiro Masuda[3], Rei Watanabe[4,5], Manabu Fujimoto[4]

[1]Drug Development Research Laboratories, Maruho Co., Ltd., Kyoto, [2]Strategic research planning & management Dept., Maruho Co., Ltd., Kyoto, [3]Translational Research Dept., Maruho Co., Ltd., Kyoto, [4]Department of Dermatology, Osaka University, Osaka, [5]Department of Dermatology, Juntendo University, Tokyo

C02-05 [P05-11] **Importance of integrin α6β4-plectin interaction in the physical strength of the epithelial sheet structure sustained by keratin network**

○ Yoshiaki Hirako, Kou Hashimoto, Ryosuke Asakura

Graduated School of Science, Nagoya University, Nagoya

C02-06 [P05-20] **The impact of exposome on skin barrier integrity and cellular senescence**

○ Eun Jung Lee[1], Jong Ho Park[2], Hye-Won Na[3], Ji Young Kim[1], Seohyun Park[1], Yu Jeong Bae[1], Shinwon Hwang[1], Il Joo Kwon[1], Hyoung-June Kim[3], Hae Kwang Lee[2], Sang Ho Oh[1]

[1]The Department of Dermatology, Yonsei University College of Medicine, Seoul, [2]P&K Skin Research Center, Seoul, [3]AMOREPACIFIC Research and Innovation Center, Yongin

C02-07 [P15-06] **Air pollution: The Hidden Connection to Microbiome Imbalance and Barrier Dysfunction**

○ Suphagan Boonpethkaew[1,2], Jitlada Meephansan[1,3], Sasin Charoensuksira[1], Punyaphat Sirithanabadeekul[1,3], Chutinan Chueachavalit[1], Sunchai Payungporn[4]

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Luncheon Seminar 2
"Exploring the Role of IL-4 and IL-13 in Type 2 Inflammation"

11:55-12:55 Chairs: Yoshiki Tokura, Masayuki Amagai

LS2-1 **The role of the skin in immune and allergic diseases and the pathogenesis of atopic dermatitis**

○ Sayaka Shibata

Department of Dermatology, Graduate School of Medicine, The University of Tokyo, Tokyo

LS2-2 **Antimicrobial peptides restore interleukin-4- and interleukin-13-mediated skin barrier disruption via activation of keratinocyte autophagy**

○ François Niyonsaba[1,2]

[1]Atopy Research Center, Juntendo University Graduate School of Medicine, Tokyo, [2]Faculty of International Liberal Arts, Juntendo University, Tokyo

Co-sponsored by Sanofi K.K./Regeneron Japan KK

2-minute presentation 1
(Adaptive Immunity/Auto-Immunity)

15:05-15:55 Chairs: Takashi Matsushita, Mari Kishibe

O01-01 [P01-08] **Transient Receptor Potential Vanilloid 4 (TRPV4) regulates type 2 inflammation and pruritus in MC903-induced atopic dermatitis mouse model**

○ Keiji Kosaka, Akihiko Uchiyama, Syahla Nisaa Amalia, Yuta Inoue, Mai Ishikawa, Yoko Yokoyama, Sachiko Ogino, Yuki Watanuki, Ryoko Torii, Sei-ichiro Motegi

The Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi

O01-02 [P01-09] **Modulation of psoriatic inflammation through autophagy activation: the role of keratinocyte-specific Rubicon inhibition in a murine model**

○ Yoichiro Urata[1], Toshiya Miyake[1], Satoshi Nakamizo[1], Rintaro Shibuya[1], Tamotsu Yoshimori[2], Kenji Kabashima[1]

[1]Department of Dermatology, Graduate School of Medicine, Kyoto University, Kyoto, [2]Health Promotion System Science, Graduate School of Medicine, Osaka University, Suita

O01-03 [P01-10] **Atopic dermatitis from the perspective of B cell function**

○ Akitaka Hata, Toshiaki Kogame, Takayoshi Komatsu-Fujii, Hiroaki Takishima, Kenji Kabashima

Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto

O01-04 [P01-11] **Cell Death Mediated by Intracellular Free Iron Enhances Efficacy of Tumor Immunotherapy with TCR-T cells**

○ Daisuke Ehara[1,2], Kiyoshi Yasui[2], Mitsuhiro Yoneda[2], Sachiko Okamoto[3], Yasunori Amaishi[3], Daisuke Muraoka[4], Hiroaki Ikeda[2], Hiroyuki Murota[1]

[1]Department of Dermatology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, [2]Department of Oncology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, [3]Tech. Development Ctr, Takara Bio Inc., Kusatsu, [4]Aichi Cancer Ctr. Res. Inst., Div. of Translational Oncoimmunology, Nagoya

O01-05 [P01-12] **Spatial transcriptomic analysis of epidermal keratinocytes of the fistula lesions in hidradenitis suppurativa**

○ Ken-Ichi Hasui[1], Yoshio Kawakami[1], Yoshihiro Matsuda[1], Yohei Yasutomi[1], Himino Ashida[1], Shuta Tomida[2], Shin Morizane[1]

[1]Department of Dermatology, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama University, Okayama, [2]Department of Biobank, Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama University, Okayama

O01-06 [P01-13] **CXCR6 regulates localization of CD8$^+$ tissue-resident memory T cells to the epidermis in a murine contact hypersensitivity**

○ Takahide Iioka[1], Ryota Asahina[1,2], Toshiya Miyake[1], Fuuka Minami[1], Kenji Kabashima[1]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, [2]Center for One Medicine Innovative Translational Research (COMIT), Gifu University, Gifu

O01-07 [P01-14] **Psychological stress enhances itch behavior in atopic dermatitis by increasing sensitivity of sensory nerves**

○ Kei Nagao[1,2], Soichiro Yoshikawa[1], Ryota Hashimoto[3], Toshiro Takai[4], Sumika Toyama[1], Mitsutoshi Tominaga[1], Kenji Takamori[1,5]

[1]Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, [2]Department of Cellular Physiology Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, [3]Laboratory of Cell Biology, Biomedical Research Core Facilities, Juntendo University Graduate School of Medicine, Tokyo, [4]Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, [5]Department of Dermatology, Juntendo University Urayasu Hospital, Chiba

O01-08 [P01-15] **Prevention of atopic dermatitis by skin and intestinal tract microbiota using DOHaD model**

○ Yukihiko Kato[1], Chiho Yanai[1], Ryo Muko[2], Yosuke Amagai[2], Yoshihiro Umebayashi[1], Rina Kurokawa[3], Wataru Suda[3], Hiroshi Matsuda[2], Akane Tanaka[2]

[1]Tokyo Medical University Hachioji Medical Center, Tokyo, [2]Tokyo University of Agriculture and Technology, Tokyo, [3]RIKEN Center for Integrative Medical Sciences, Yokohama

O01-09 [P01-16] **Gene expression analysis of reactive lymphoid follicle-like structures in the skin of Kimura's disease**

○ Toshiaki Kogame, Takayoshi Komatsu-Fujii, Hiroaki Takishima, Akitaka Hata, Kenji Kabashima

Department of Dermatology, Kyoto University, Kyoto

O01-10 [P01-17] **Cold exposure and its impact on local skin immune responses in murine models of contact hypersensitivity**

○ Tomoya Takegami[1], Satoru Yonekura[1], Saeko Nakajima[1,2], Shuto Kanameishi[1], Koki Kataoka[1], Kenji Kabashima[1,3,4]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, [2]Department of Drug Discovery for Inflammatory Skin Diseases, Kyoto University Graduate School of Medicine, Kyoto, [3]A*STAR Skin Research Labs (A*SRL), Agency for Science, Technology and Research (A*STAR), Singapore, [4]Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A*STAR), Singapore

O01-11 [P01-18] **Persistent anti-inflammatory effects of voluntary exercise in a mouse model of atopic dermatitis**

○Wanchen Zhao[1], Ge Peng[1], Alafate Abudouwanli[1], Arisa Ikeda[1,2], Quan Sun[1], Mengyao Yang[1,3], Shan Wang[1,4], Hideoki Ogawa[1], Ko Okumura[1], François Niyonsaba[1,5]

[1]Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, [2]Department of Nephrology, Juntendo University Graduate School of Medicine, Tokyo, [3]Department of Dermatology, the First Affiliated Hospital of China Medical University, Liaoning, [4]Department of Dermatology, Beijing Children's Hospital, Capital Medical University, Beijing, [5]Faculty of International Liberal Arts, Juntendo University, Tokyo

O01-12 [P01-19] **Regulatory function of B cells in contact hypersensitivity re-stimulation**

○Yutaka Matsumura[1], Hanako Koguchi-Yoshioka[1], Rei Watanabe[2], Manabu Fujimoto[1]

[1]The Department of Dermatology, Osaka University, Suita, [2]The Department of Dermatology, Juntendo University, Tokyo

O01-13 [P01-21] **An investigation into Immune Cell Reactivity upon wounding**

○Aashal B Shah

Department of Pharmacology, GMERS Medical College and Civil Hospital, Valsad, Gujarat

O01-14 **Withdrawn**

O01-15 [P02-11] **Anti-Survival Motor Neuron (SMN) Complex Antibodies as Biomarkers for MCTD-associated ILD and PAH**

○Haruka Koizumi, Yoshinao Muro, Satoshi Kamiya, Norika Akashi, Yuta Yamashita, Mariko Momohara, Takuya Takeichi, Masashi Akiyama

The Department of Dermatology, Nagoya University, Nagoya

O01-16 [P02-12] **Circulating extracellular vesicles reflect clinical phenotypes of anti-centromere antibody-positive patients**

○Mariko Ogawa-Momohara[1], Yoshinao Muro[1], Kentaro Taki[2], Yoshihisa Nakano[3], Takashi Yokoyama[1], Takuya Takeichi[1], Masashi Akiyama[1]

[1]The Department of Dermatology, Nagoya University, Nagoya, [2]Division for Medical Research Engineering, Nagoya University, Nagoya, [3]Public Health and Health Systems, Nagoya University, Nagoya

O01-17 [P02-13] **IgM autoantibody against the basement membrane zone spontaneously generated in mice**

○Chihiro Shiiya[1], Ken Muramatsu[1], Norihiro Yoshimoto[1], Sho Katayama[1], Takuya Kawamura[1], Shoko Mai[1], Yosuke Mai[1], Hiroyuki Kitahata[2], Yoichiro Fujioka[3], Ken Natsuga[1], Hiroaki Iwata[1,4], Kentaro Izumi[1], Hideyuki Ujiie[1]

[1]The Department of Dermatology, Hokkaido University, Sapporo, [2]Department of Physics, Graduate School of Science, Chiba University, Chiba, [3]Department of Cell Physiology, Faculty of Medicine, Hokkaido University, Sapporo, [4]Department of Dermatology, Graduate School of Medicine, Gifu University, Gifu

O01-18 [P02-14] **Potential Explanation for High Sensitivity of C3 in Direct Immunofluorescence for Bullous Pemphigoid**

○Dongjun Im, Kayoko Tanaka, Hiroaki Iwata

Department of Dermatology, Gifu university, Gifu

O01-19 [P02-15] **Increased Levels of Common γ-Chain Correlate with Disease Severity in Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis**

○Ayane Sakamoto, Yuko Watanabe, Izumi Moteki, Noriko Ikeda, Yukie Yamaguchi

Department of Environmental Immuno-Dermatology, Yokohama City University, Yokohama

O01-20 [P02-17] **Role of MZB1 positive cells in the lesions of alopecia areata**

○Takayoshi Komatsu-Fujii, Toshiaki Kogame, Keigo Takase, Akitaka Hata, Kenji Kabashima

Department of Dermatology, Kyoto University, Kyoto

O01-21 [P02-18] **Mitochonic acid-5 ameliorates fibrosis and vasculopathy in a mouse model of systemic sclerosis**

○Yuichiro Segawa[1], Takehiro Takahashi[1], Takehiro Suzuki[2], Chitose Suzuki[2], Takaaki Abe[2], Yoshihide Asano[1]

[1]Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, [2]Department of Nephrology, Endocrinology and Vascular Medicine, Tohoku University Graduate School of Medicine, Sendai

O01-22 [P02-20] **Fibroblast focused single cell transcriptome analysis of the lung in bleomycin-induced systemic sclerosis mouse model**

○Aya Maekawa[1], Sho Yamazaki[3], Yuya Ouchi[3], Tomomi Kitayama[3], Takashi Shimbo[4], Ikuko Ueda[1], Manabu Fujimoto[1], Katsuto Tamai[2]

[1]Department of Dermatology, Integrated Medicine, Graduate School of Medicine, Osaka University, Suita, [2]Department of Stem Cell Therapy Science, Graduate School of Medicine, Osaka University, Suita, [3]StemRIM Inc, Ibaraki, [4]Division of Gene Therapy Science, Graduate School of Medicine, Osaka University, Suita

O01-23 [P02-21] **The anti-IgE autoantibodies are biomarkers of early omalizumab response in patients with chronic spontaneous urticaria**

○ Yusuke Niwa[1,2], Koremasa Hayama[1,2], Shota Toyoshima[3], Keisuke Shimizu[1,2], Maho Tagui[1,2], Mana Ito[1,2], Tomomi Sakamoto[2], Tadashi Terui[1,2], Hideki Fujita[1,2], Yoshimichi Okayama[2,4,5,6,7]

[1]Division of Cutaneous Science, Department of Dermatology, Nihon University School of Medicine, Tokyo, [2]Center for Allergy, Nihon University School of Medicine, Tokyo, [3]Department of Biochemistry & Molecular Biology, Nippon Medical School, Tokyo, [4]Department of Allergy, Internal Medicine, Misato Kenwa Hospital, Misato, [5]Department of Medicine, Division of Respiratory Medicine, Nihon University School of Medicine, Tokyo, [6]Department of Internal Medicine, Division of Respiratory Medicine and Allergology, Showa University School of Medicine, Tokyo, [7]Advanced Medical Science Research Center, Gunma Paz University, Graduate School of Health Sciences, Takasaki

O01-24 [P02-22] **Establishing minimal clinically important differences (MCIDs) for the pemphigus disease area index (PDAI)**

○ Henry Tseng[1,2], Corey Stone[1,2], Boaz Shulruf[2], Dedee F. Murrell[1,2]

[1]Department of Dermatology, St George Hospital, Sydney, [2]Faculty of Medicine, University of New South Wales, Sydney

O01-25 [P02-24] **Correlation of BP180, BP230, and type VII collagen antibody titers in serum, blister fluid, erosion, and saliva in pemphigoid diseases**

○ Hiroshi Koga[1], Norito Ishii[1], Masahiro Tsutsumi[1], Kwesi Teye[2], Mieko Kosaka[3], Takekuni Nakama[1]

[1]Department of Dermatology, Kurume University School of Medicine, Kurume, [2]Kurume University Institute of Cutaneous Cell Biology, Kurume, [3]Maruho Co., Ltd., Osaka

2-minute presentation 4 (Auto-Immunity/Carcinogenesis and Cancer/Cell-Cell Interactions in the Skin)

16:05-16:55 Chairs: Toshifumi Nomura, Keitaro Fukuda

O04-01 [P02-25] **Basophil Histamine Release Assay in Chronic Spontaneous Urticaria: Clinical and Laboratory Insights from a Vietnamese Population**

○ My Nguyen Thi Tra[1,2], Minh Vu Nguyet[2,3], Katrine Baumann[4], My Le Huyen[3], Per Stahl Skov[4], Doanh Le Huu[2,3]

[1]Hue University of Medicine and Pharmacy, Hue, [2]Hanoi Medical University, Hanoi, [3]Vietnam National Dermatology and Venereology Hospital, Hanoi, [4]Reblab, Copenhagen

O04-02 [P02-26] **A new murine model of human eosinophilic fasciitis: role IL-17**

○ Takashi Ito, Toshiyuki Yamamoto

Fukushima Medical University, The Department of Dermatology, Fukushima

O04-03 [P02-28] **The role of RANKL in osteoporosis of IMQ-induced psoriasis mouse model**

○ Natsuko Saito-Sasaki, Yu Sawada

The Department of Dermatology, University of Occupational and Environmental health, Kitakyusyu

O04-04 [P02-29] **Siblings with neonatal lupus erythematosus**

○ Pengyue Tang

The Department of Dermatology, Shenzhen children's hospital, Shenzhen

O04-05 [P03-09] **Basophils drive tumor progression and metastasis through Th2-polarization with IL-4 in primary cutaneous melanoma**

○ Aki Tajima[1], Naotomo Kambe[2], Izumi Kishimoto[1], Noriko Kume[1], Fumikazu Yamazaki[3], Hideaki Tanizaki[1]

[1]Department of Dermatology, Kansai Medical University, Hirakata, [2]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, [3]Department of Dermatology, Tokai University, Isehara

O04-06 [P03-10] **Tertiary lymphoid structures inhibit invasive progression and provide a better prognosis in advanced extramammary Paget's disease**

○ Tetsuya Magara, Motoki Nakamura, Maki Yoshimitsu, Shinji Kano, Hiroshi Kato, Akimichi Morita

Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya

O04-07 [P03-12] **High-glucose environment altered keratinocyte response to UVB irradiation: insights on photocarcinogenic resistance of diabetic skin**

○ Yang-Yi Chen[1,2], Shu-Mei Huang[3], Cheng-Che E. Lan[2,3]

[1]Graduate Institute of Clinical Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung City, [2]Department of Dermatology, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung City, [3]Department of Dermatology, College of Medicine, Kaohsiung Medical University, Kaohsiung City

O04-08 [P03-13] **Spatial Assessment of Ki67 to Stratify for MITF Phenotypes in Primary and Metastatic Melanoma**

○ Jordan D. Kumar[1], Satoru Sugihara[1], Sachit Seth[2], Gency Gunasingh[1], Loredana Spoerri[1], Cassandra Rowe[1], Helmut Schaider[1], Kiarash Khosrotehrani[1], Rupert Ecker[2], Nikolas K. Haass[1]

[1]Frazer Institute, University of Queensland, Brisbane, [2]TissueGnostics, Vienna

O04-09 [P03-14] **The dual function of antimicrobial peptides in melanoma: Perspectives from experimental and clinical research**

○ Quan Sun[1], Ge Peng[1], Wanchen Zhao[1], Alafate Abudouwanli[1], Mengyao Yang[1,2], Shan Wang[1,3], Hideoki Ogawa[1], Ko Okumura[1], François Niyonsaba[1,4]

[1]Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, [2]Department of Dermatology, The First Hospital of China Medical University, Shenyang, [3]Department of Dermatology, Beijing Children's Hospital, Capital Medical University, National Center for Children's Health, Beijing, [4]Faculty of International Liberal Arts, Tokyo

O04-10 [P03-15] **Body Composition, Clinical Characteristics, and Treatment Modalities as Prognostic Factors in Cutaneous Angiosarcoma**

○ Satoru Yonekura, Yuichiro Endo, Saeko Nakajima, Kenji Kabashima

Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto

O04-11 [P03-16] **Comprehensive analysis of the chemokine/cytokine profiles in advanced mycosis fungoides**

○ Manami Takahashi-Watanabe, Taku Fujimura, Emi Yamazaki, Ryo Amagai, Yumi Kambayashi, Mayuko Amagai, Toshiya Takahashi, Yoshihide Asano

The Department of Dermatology, University of Tohoku, Sendai

O04-12 [P03-17] **Prognostic Significance of STING Expression in Extramammary Paget's Disease**

○ Yoko Amagata, Natsuko Sasaki, Yu Sawada

Department of Dermatology, University of Occupational and Environmental Health, Kitakyushu

O04-13 [P03-19] **The accuracy of Giemsa, and methylene blue stains in Mohs surgery for basal cell carcinoma: A pilot study**

○ Phanitchanat Phusuphitchayanan[1], Apasee Sooksamran[1], Poonnawis Sudtikoonaseth[1], Titaporn Nopmaneepaisarn[2], Nutpacha Chotikawichean[2]

[1]Institute of Dermatology, Bangkok, [2]Department of Dermatology, Rajavithi Hospital, Bangkok

O04-14 [P03-21] **Possible Association Between Melanoma from Congenital Nevus and Estrogen or Progesterone Receptor Expression: Clinicopathological Analysis**

○ Takako Tsukamoto[1], Yohei Iwata[1], Chiho Sumitomo[1,2], Kazumitsu Sugiura[1]

[1]The Department of Dermatology, Fujita Health University, Toyoake, [2]SUMITOMO SKIN CLINIC, Nagakute

O04-15 [P03-25] **Co-existence of oligoclonal and polyclonal HTLV-1-positive T cells successfully treated by ultraviolet B phototherapy and etretinate**

○ Kosei Nishitani[1], Satoshi Nakamizo[1], Takero Shindo[2], Yo Kaku[1], Masakazu Fujimoto[3], Masahiro Hirata[3], Kai Mizoguchi[3], Kazuhiro Kawai[4], Kenji Kabashima[1]

[1]Department of Dermatology, Kyoto University, Kyoto, [2]Department of Hematology and Oncology, Kyoto University, Kyoto, [3]Department of Diagnostic Pathology, Kyoto University, Kyoto, [4]Department of Dermatology, Kido Hospital, Niigata

O04-16 [P03-26] **A clinicopathological analysis of forkhead box A1 (FOXA1) and estrogen receptor alpha expression in extramammary Paget's disease**

○ Yuna Yamada[1], Yohei Iwata[1], Chiho Sumitomo[1,2], Kazumitsu Sugiura[1]

[1]The Department of Dermatology, Fujita Health University, Toyoake, [2]SUMITOMO SKIN CLINIC, Nagakute

O04-17 [P03-27] **Effectiveness of 5-Fluorouracil in Comparison to Other Treatments in the Reduction of Actinic Keratosis Lesions**

○ Jessica Zhuang[2,3], Valerie Yii[1], Bowen Xia[4], ZF Liu[5,6], Lawrence Lin[5], Christopher Chew[5,6,7,8]

[1]Sinclair Dermatology Investigational Research Education and Clinical Trials (DIRECT), Melbourne, [2]Faculty of Medicine, University of Melbourne, Melbourne, [3]Department of Dermatology, Royal Melbourne Hospital, Melbourne, [4]Monash Health, Melbourne, [5]Faculty of Medicine, Monash University, Melbourne, [6]Department of Dermatology, Alfred Health, Melbourne, [7]Victorian Melanoma Service, Alfred Health, Melbourne, [8]Skin Health Institute, Melbourne

O04-18 [P04-07] **Sensory re-innervation triggers ECM remodelling through the cross-talk with mast cells**

○ Moe Tsutsumi[1,2,3,4], Marta Silva e Sousa[2], Sofoklis Koudounas[2], Onur Egriboz[2], Wolfgang Funk[3], Maximilian Kueckelhaus[4], Ilaria Piccini[2], Marta Bertolini[2], Kentaro Kajiya[1]

[1]MIRAI Technology Institute, Shiseido Co., Ltd., Yokohama, [2]Monasterium Laboratory Skin & Hair Research Solutions GmbH, Muenster, [3]Schoenheitsklinik Dr Funk, Muenchen, [4]Clinic Fachklinik Hornheide, Muenster

O04-19 [P04-08] **Serum MIF is a disease-specific marker of acquired idiopathic generalized anhidrosis**

○ Manon Okamura, Ryota Hayashi, Shingo Takei, Tatsuya Katsumi, Riichiro Abe

Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata

O04-20 [P04-09] **Bead aggregation assays with desmoglein and desmocollin for evaluation of the disease activity in pemphigus**

○ Miki Hamanaka[1], Ken Ishii[1,2], Mari Urushibata[1], Kenji Yoshida[1], Akira Ishiko[1]

[1]The Department of Dermatology, Toho University School of Medicine, Tokyo, [2]The Department of Dermatology, Tokyo Dental College Ichikawa General Hospital, Ichikawa

O04-21 [P04-11] **Functional analysis of miR-4497 contained in extracellular vesicles derived from environmental stimulus-responsive keratinocytes**

○ Christopher T. Knight, Ayami Iijima, Misato Sugahara, Makiko Goto, Katsuyuki Maeno, Akira Motoyama, Masashi Miyai

Shiseido Co., Ltd., MIRAI Technology Institute, Yokohama

O04-22 [P04-12] **Secreted Phosphoprotein 1-CD44 Deficiency Promotes Melanocyte Senescence Through ROS Production**

○ Yul Hee Kim[2], So Yeon Myeong[1], Yeongeun Kim[1], Jin Cheol Kim[1], Tae Jun Park[2], Hee Young Kang[1]

[1]Department of Dermatology, Ajou University School of Medicine, Suwon, [2]Department of Biochemistry and Molecular Biology, Ajou University School of Medicine, Suwon

O04-23 [P04-14] **Proteases that activate pro-IL-36s in sterile neutrophillic pustular dermatitis**

○ Lisa Minai, Youichi Ogawa, Shinji Shimada, Tatsuyoshi Kawamura

Department of Dermatology, University of Yamanashi, Chuo

O04-24 [P04-15] **Transfection of dsDNA induces cell senescence via ATR signaling pathway in human keratinocytes**

○ Akihiro Aioi[1], Tomozumi Imamichi[2], Jun-ichi Kashiwakura[3], Emiko Okuda-Ashitaka[4]

[1]Basic Research, Septem-Soken, Osaka, [2]Frederick National Laboratory for Cancer Research, Applied and Developmental Research Directorate, Frederick, [3]Department of Life Science, Faculty of Pharmaceutical Sciences, Hokkaido University of Science, Sapporo, [4]Department of Biomedical Engineering, Osaka Institute of Technology, Osaka

O04-25 [P04-16] **The interplay of autophagy and oxidative stress in the senescence melanocytes**

○ Jin Cheol Kim[1,4], Yeongeun Kim[1,4], Sang Hyun Kim[2], Tae Jun Park[3,4], Hee Young Kang[1,4]

[1]Department of Dermatology, Ajou University School of Medicine, Suwon, [2]Department of Biomedical Science, The Graduate School, Ajou University, Suwon, [3]Department of Biochemistry and Molecular Biology, Ajou University School of Medicine, Suwon, [4]Inflamm-Aging Translational Research Center, Ajou University School of Medicine, Suwon

Evening Seminar 2
"New findings on IL-36 in inflammatory diseases"

17:15-18:15 Chairs: Shin Morizane, Nobuo Kanazawa

ES2-1 **Roles of IL-36γ in generalized pustular psoriasis (GPP)**

○ Emi Sato

Department of Dermatology, Faculty of Medicine, Fukuoka University

ES2-2 **Proteases that activate pro-IL-36s in sterile neutrophilic pustular dermatitis**

○ Youichi Ogawa

Department of Dermatology, Faculty of Medicine, University of Yamanashi

Co-sponsored by Nippon Boehringer Ingelheim Co., Ltd. Medicine Division

December 6, 2024, Room C

Concurrent Oral Session 3
(Skin, Appendages, and Stem Cell Biology/Pigmentation and Melanoma)

10:20-11:44 Chairs: Tetsuya Honda, Dong-Youn Lee

C03-01 [P13-03] **NKG2D activity in the course of alopecia areata is influenced by soluble MICA**

○ Taisuke Ito, Reiko Kageyama, Takahiro Suzuki, Toshiharu Fujiyama, Tetsuya Honda

Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu

C03-02 [P13-04] **Discovery of human dermal papilla cell surface markers for living cell isolation using a novel culture condition with WNT and FGF activation**

○ Reina Hayakawa[1], Ryo Takahashi[2], Masahiro Fukuyama[1], Aki Tsukashima[1], Momoko Kimishima[1], Yoshimi Yamazaki[1], Manabu Ohyama[1,2]

[1]Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo, [2]Flow Cytometry Core Facility, Kyorin University Graduate School of Medicine, Tokyo

C03-03 [P13-02] **Induction of tissue-specific premature stem cell aging promotes senescence-like phenotypes in remote multiple organs**

○ Yasuaki Ikuno[1,2], Yukie Kande[2], Ayano Narumoto[2], Dai Ihara[2], Noriki Fujimoto[1], Hayato Naka-Kaneda[2]

[1]Department of Dermatology, Shiga University of Medical Science, Otsu, [2]Department of Anatomy, Shiga University of Medical Science, Otsu

C03-04 [P13-06] **A Multi-Omics Approach to create a Human Hair Atlas for healthy and AGA models**

○ Carlos Clavel

A*STAR Skin Research Labs, Singapore

C03-05 [P13-07] **Unveiling molecular secrets: a comparative genetic study of the nail unit, skin, hair follicle and onychomatricoma**

○ Taemin Lee, Joonho Shim, Ji Hye Park, Jong Hee Lee, Dongyoun Lee

Department of Dermatology, Samsung Medical Center, Sungkyunkwan University, Seoul

C03-06 [P12-06] **Ribosomal protein RPS10 plays a crucial role in melanin transportation and skin pigmentation**

○ Moyuka Wada-Irimada[1,2,3,4,5,6], Kenshi Yamasaki[1,2], Kosuke Shido[1], Kaname Kojima[3], Ikuko N. Motoike[3], Kengo Kinoshita[3,4,5,6], Yoshihide Asano[1]

[1]Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, [2]Aloop Clinic & Lab, Tokyo, [3]Department of Integrative Genomics, Tohoku Medical Megabank Organization, Tohoku University, Sendai, [4]Graduate School of Information Sciences, Tohoku University, Sendai, [5]Advanced Research Center for Innovations in Next-Generation Medicine, Tohoku University, Sendai, [6]Institute of Development, Aging and Cancer, Tohoku University, Sendai

C03-07 [P12-09] **SIRT7 Protects Melanocytes Against Ferroptosis via the SMAD3-ATF3-GPX4 Axis in Vitiligo**

○ Xiu L. Yi, Li L. Wu, Weinan Guo, Yu Q. Yang, Hao Wang, Jia X. Chen, Heng X. Zhang

Department of Dermatology, Xijing Hospital, Fourth Military Medical University, Xi'an

Luncheon Seminar 3
"Cutaneous T-Cell Lymphoma"

11:55-12:55 Chair: Hiroyuki Murota

LS3-1 **A randomized, open-label, multicenter, 2-dose parallel-group, phase II study of bexarotene in patients with ATL (B-1801 study)**

○ Kentaro Yonekura

Department of Dermatology, Imamura General Hospital, Kagoshima

LS3-2 **An update on the selecting therapeutic options for Japanese patients with advanced-stage mycosis fungoides**

○ Toshihisa Hamada

International University of Health and Welfare, Narita

Co-sponsored by Minophagen Pharmaceutical Co., Ltd.

2-minute presentation 2
(Epidermal Structure and Barrier Function/Genetic Disease, Gene Regulation and Gene Therapy/Innate Immunity, Microbiology, Microbiome)

15:05-15:55 Chairs: Takuya Takeichi, Ken Natsuga

O02-01 [P05-12] **Skin changes due to changes in enzyme-inhibitor balance induced by atopic dermatitis, aging, and environment in stratum corneum maturation**

○Masashi Miyai[1], Akira Motoyama[1], Junichiro Hiruma[2], Mami Yamamoto[2], Ryoji Tsuboi[2], Toshihiko Hibino[1,2]
[1]Shiseido Co., Ltd., MIRAI Technology Institute, Yokohama, [2]Department of Dermatology, Tokyo Medical University, Tokyo

O02-02 [P05-13] **High resolution imaging of intra-dermal distributions of cosmetic ingredients using NanoSIMS**

Keishi Kihara[1], Akira Motoyama[1], ○Kazuhiro Matsuda[2]
[1]MIRAI Technology Institute, Shiseido Co., Ltd., Yokohama, [2]Surface Science Laboratories, Toray Research Center, Inc., Shiga

O02-03 [P05-14] **Loricrin regulates hair follicle regeneration**

○Yosuke Ishitsuka, Xinyi Wang, Jun Akome, Manabu Fujimoto
Department of Dermatology Integrated Medicine, Osaka University Graduate School of Medicine, Suita

O02-04 [P05-15] **GPNMB is related to differentiation and cellular senescence in normal human epidermal keratinocytes**

○Yukiko Mizutani, Rico Shimada, Kasumi Matsumoto, Miyu Gunji, Mariko Otsu, Shintaro Inoue
Department of Cosmetic Health Science, Gifu Pharmaceutical University, Gifu

O02-05 [P05-16] **Hyperosmotic stress is a cause of dry skin resulting from low humidity**

○Hitoshi Masaki, Yukiko Izutsu-Matsumoto, Yuri Okano
CIEL Co.Ltd., Kanagawa

O02-06 [P05-17] **Effect of TNF-α, IL-17 and IL-22 on the expression of filaggerin-2 and hornerin: Analysis of a three-dimensional psoriatic skin model**

○Teruhiko Makino[1], Megumi Mizawa[1], Keita Takemoto[1], Seiji Yamamoto[2], Tadamichi Shimizu[1]
[1]Department of Dermatology, University of Toyama, Toyama, [2]Department of Pathology, University of Toyama, Toyama

O02-07 [P05-18] **Betacellulin, a member of the EGF family, attenuates atopic dermatitis-like symptoms through EGFR signaling and autophagy activation**

○Alafate Abudouwanli[1], Ge Peng[1], Wanchen Zhao[1], Arisa Ikeda[1,2], Quan Sun[1], Mengyao Yang[1,3], Shan Wang[1,4], Ko Okumura[1], Hideoki Ogawa[1], François Niyonsaba[1,5]
[1]Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, [2]Department of Nephrology, Juntendo University Graduate School of Medicine, Tokyo, [3]Department of Dermatology, The First Affiliated Hospital of China Medical University, Shenyang, Liaoning, [4]Department of Dermatology, Beijing Children's Hospital, Capital Medical University, National Center for Children's Health, Beijing, [5]Faculty of International Liberal Arts, Juntendo University, Tokyo

O02-08 [P05-19] **Loricrin modulates neonatal immunity to prevent atopic march**

○Jun Akome, Yosuke Ishitsuka, Xinyi Wang, Manabu Fujimoto
Department of Dermatology Integrated Medicine, Osaka University Graduate School of Medicine, Suita

O02-09 [P05-21] **Soothing benefits of Centella asiatica extract**

○Yan Wu[1,2], Binwei Deng[2], Jian (Richard) Cao[2], Nadine Pernodet[3]
[1]Dr. Jart+, Asia Advanced Technology Pioneering, Shanghai, [2]Estée Lauder Companies R&D, Asia Innovation Center, Shanghai, [3]R&D, The Estée Lauder Companies, NY

O02-10 [P05-25] **Analyses of genes related to epidermal hyperplasia**

○Tomohiro Tobita[1], Mitsutoshi Tominaga[1], Kenji Takamori[1,2]
[1]Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender Specific Medicine, Juntendo Univ. Graduate school of Medicine, Urayasu, [2]Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu

O02-11 [P05-34] **Nonsense variant in CYP4F22 causes loss of the corneocyte lipid envelope in lamellar ichthyosis**

○Ryo Fukaura, Kana Tanahashi, Michiya Omi, Takuya Takeichi, Masashi Akiyama
Nagoya University Graduate School of Medical Sciences, Department of Dermatology, Nagoya

O02-12 **Withdrawn**

O02-13 [P06-08] ***MEFV* variants are a predisposing factor for generalized pustular psoriasis**

○Takenori Yoshikawa[1], Takuya Takeichi[1], Kazuki Nishida[2], Yumiko Kobayashi[2], Kazumitsu Sugiura[3], Yoshinao Muro[1], Masashi Akiyama[1]
[1]Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, [2]Department of Advanced Medicine, Nagoya University Hospital, Nagoya, [3]Department of Dermatology, Fujita Health University School of Medicine, Toyoake

O02-14 [P06-09] **mTORC1 activation of somatostatin-expressing neurons in cortical layer 5 contribute epileptogenesis in tuberous sclerosis complex**

○ Fumiki Yamashita[1], Makiko Koike-Kumagai[1], Manabu Fujimoto[2], Mari Wataya-Kaneda[1,2]

[1]Department of Neurocutaneous Medicine, Division of Health Sciences, Graduate School of Medicine, Osaka University, Osaka, [2] Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka

O02-15 [P06-10] **Mechanism behind farnesyltransferase inhibitor mediated amelioration of Hutchinson-Gilford progeria is applicable to other laminopathies**

○ Mattheus Xing Rong Foo, Peh Fern Ong, Oliver Dreesen

Cell Aging, A*STAR Skin Research Labs, Skin Research Institute of Singapore, A*STAR, Singapore

O02-16 [P06-11] **Identification and characterization of a novel 3.96 kb deletion spanning exons 3 and 4 of *ATP2C1* in a patient with Hailey-Hailey disease**

○ Kwesi Teye[1], Hiroshi Koga[2], Masahiro Tsutsumi[2], Norito Ishii[2], Takahiro Hamada[2], Takekuni Nakama[2]

[1]Kurume University Institute of Cutaneous Cell Biology, Kurume, [2]Department of Dermatology, Kurume University School of Medicine, Kurume

O02-17 [P06-12] **The integration of phenotype, genotype, and epigenetic analysis in tuberous sclerosis complex**

○ Emi Kaneda[1], Hanako Koguchi-Yoshioka[1,2], Satoshi Hattori[3], Keisuke Nimura[4], Saki Ishino[5], Manabu Fujimoto[1], Mari Wataya-Kaneda[1,2]

[1]The Department of Dermatology, Osaka University, Suita, [2]The Department of Neurocutaneous Medicine, Osaka University, Suita, [3]The Department of Biomedical Statistics, Osaka University, Suita, [4]The Division of Gene Therapy Science, Osaka University, Suita, [5]The CoMIT Omics Center, Osaka University, Suita

O02-18 [P06-13] **Three cases of non-hereditary solitary porokeratosis of Mibelli exhibiting lesion-specific biallelic somatic defects in *FDFT1***

○ Ai Yoshioka[1], Sonoko Saito[2], Satomi Aoki[2], Hiroaki Hanafusa[3], Takashi Seo[4], Ken Natsuga[4], Kazuhiko Nakabayashi[5], Masayuki Amagai[2], Takeshi Fukumoto[1], Akiko Kubo[1], Akiharu Kubo[1,2]

[1]Division of Dermatology, Department of Internal Related, Graduate School of Medicine, Kobe University, Kobe, [2]Department of Dermatology, Keio University School of Medicine, Tokyo, [3]Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, [4]Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, [5]Department of Maternal-Fetal Biology, National Research Institute for Child Health and Development, Tokyo

O02-19 [P06-15] **Two cases of Hailey-Hailey disease with novel pathogenic ATP2C1 variants suggesting possible genotype/phenotype correlations**

○ Michiya Omi[1], Takuya Takeichi[1,2], Yasutoshi Ito[1,3], Takenori Yoshikawa[1], Yuki Mizutani[4,5], Miki Nagai[4], Mariko Seishima[6,7], Tomoo Ogi[8,9], Yoshinao Muro[1], Masashi Akiyama[1]

[1]Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, [2]Nagoya University Institute for Advanced Research, Nagoya, [3]Department of Dermatology, National Hospital Organization, Nagoya Medical Center, Nagoya, [4]Gifu Prefectural General Medical Center, Gifu, [5]Department of Dermatology, Mie University, Graduate School of Medicine, Tsu, [6]Department of Dermatology, Asahi University Hospital, Gifu, [7]Department of Dermatology, Gifu University Graduate School of Medicine, Gifu, [8]Department of Genetics, Research Institute of Environmental Medicine (RIeM), Nagoya University, Nagoya, [9]Department of Human Genetics and Molecular Biology, Nagoya University Graduate School of Medicine, Nagoya

O02-20 [P06-16] **Methotrexate Reduces Pruritus in Patients with Recessive Dystrophic Epidermolysis Bullosa**

○ Hsin Yu Huang[1,5], Wilson Jr F. Aala[2], Yi-Kai Hong[1,4], Alexandros Onoufriadis[3], John A. McGrath[1,3], Chao-Kai Hsu[1,2,4]

[1]Department of Dermatology, National Chun Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, [2]Institute of Clinical Medicine, College of Medicine, National Cheng Kung University, Tainan, [3]St Johns Institute of Dermatology, School of Basic and Medical Biosciences, Kings College London, London, [4]International Center for Wound Repair and Regeneration, National Cheng Kung University, Tainan, [5]Tainan Hospital, Ministry of Health and Welfare, Tainan

O02-21 [P06-17] **Genetic association between palmoplantar pustulosis and HLA polymorphisms**

○ Nobuhiro Takahashi[1,2], Tomomichi Shimizu[1], Akio Kondoh[1], Fumikazu Yamazaki[1], Shingo Suzuki[2], Takahi Shiina[2], Tomotaka Mabuchi[1]

[1]Tokai University School of Medicine, Isehara, [2]Department of Basic Medical Science and Molecular Medicine, Tokai University School of Medicine, Isehara

O02-22 [P06-21] **Withdrawn**

O02-23 [P07-10] **Comprehensive metagenomic analysis of axillary microbiota in Japanese male subjects with axillary osmidrosis**

○ Miki Watanabe[1,2], Miho Uematsu[2], Kosuke Fujimoto[2], Daisuke Tsuruta[1], Satoshi Uematsu[2]

[1]Department of Dermatology, Graduate School of Medicine, Osaka Metropolitan University, Osaka, [2]Department of Immunology and Genomics, Graduate School of Medicine, Osaka Metropolitan University, Osaka

O02-24 [P07-11] **Investigation into the inflammatory cascade of secondary disease in dystrophic epidermolysis bullosa using spatial transcriptomics**

○ Yoshio Kawakami[1], Ken-Ichi Hasui[1], Yoshihiro Matsuda[1], Yohei Yasutomi[1], Himino Ashida[1], Ai Kajita[1], Yoji Hirai[1], Keiji Iwatsuki[1], Shuta Tomida[2], Shin Morizane[1]

[1]Department of Dermatology, Okayama University, Okayama, [2]Department of Biobank, Okayama University, Okayama

O02-25 [P07-12] **Skin keratinocytes expressing mutation in the Cx26 gene cause susceptibility to chronic cutaneous candidiasis**

○ Alshimaa Mostafa[1], Teruasa Murata[1,2], Akihiko Kitoh[1], Hiromi Doi[1], Gyohei Egawa[1,3], Kenji Kabashima[1]

[1]The Department of Dermatology, Kyoto University, Kyoto, [2]Department of Dermatology, Hyogo Medical University, Hyogo, [3]Department of Dermatology, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima

2-minute presentation 5 (Innate Immunity, Microbiology, Microbiome/Patient Population Research/ Patient-Targeted Research/Pharmacology and Drug Development)

16:05-16:55 Chairs: Akiko Arakawa, Takashi Sakai

O05-01 [P07-13] **Synergistic Effects of Western Diet and Blue LED Light on Itch and Neural Inflammation in Mice**

○ Wei-Tai Yu[1,2,3,4], Hsin-Su Yu[5,6]

[1]Department of Dermatology, College of Medicine, Kaohsiung Medical University, Kaohsiung, [2]Department of Dermatology, Kaohsiung University Gangshan Hospital, Kaohsiung, [3]Department of Dermatology, Kaohsiung Medical University Hospital, Kaohsiung, [4]Master of Public Health Degree Program, College of Public Health, National Taiwan University, Taipei, [5]National Institute of Environmental Health Sciences, National Health Research Institutes, Miaoli, [6]Graduate Institute of Clinical Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung

O05-02 [P07-14] **Enhanced Antioxidant Activity in Multinucleated Giant Cells within Granulomas**

○ Satoshi Nakamizo[1,2], Kenji Kabashima[1]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, [2]Alliance Laboratory for Advanced Medical Research, Kyoto University Graduate School of Medicine, Kyoto

O05-03 [P07-15] **Characteristics of gene expression and microbiota in tonsils of patients with palmoplantar pustulosis and pustulotic arthro-osteitis**

○ Satomi Kobayashi[1], Hideki Nakagawa[2], Masato Komai[3]

[1]Department of Dermatology, Seibo International Catholic Hospital, Tokyo, [2]Department of Otolaryngology, Seibo International Catholic Hospital, Tokyo, [3]Research Unit, R&D division, Kyowa Kirin Co., Ltd., Shizuoka

O05-04 [P07-16] **Regnase-1 3'UTR mutant mice develop psoriasis like dermatitis with Köbner phenomenon**

○ Hiroyuki Morisaka[1], Kazuhiko Maeda[2,3], Manabu Fujimoto[4], Shizuo Akira[2,3]

[1]Department of Stem Cell Gene Therapy Science, Graduate School of Medicine, Osaka University, Suita, [2]Laboratory of Host Defense, World Premier Institute-Immunology Frontier Research Center (WPI-IFReC), Osaka University, Suita, [3]Department of Host Defense, Research Institute for Microbial Diseases (RIMD), Osaka University, Suita, [4]Department of Dermatology, Integrated Medicine, Graduate School of Medicine, Osaka University, Suita

O05-05 [P07-17] **Squaric acid dibutylester promotes innate immune-driven hair growth with CD206$^+$ macrophage accumulation**

○ Koichi Tomii[1,2], Tomoya Katakai[2], Riichiro Abe[1]

[1]Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, [2]Department of Immunology, Niigata University Graduate School of Medical and Dental Sciences, Niigata

O05-06 [P07-18] **Purinergic molecules in murine bone marrow-derived mast cells**

○ Takuya Sato, Youichi Ogawa, Shinji Shimada, Tatsuyoshi Kawamura

Department of Dermatology, University of Yamanashi, Chuo

O05-07 [P07-19] **Microbiome Disruptions, Inflammation, and JAK/STAT Signaling in Southeast Asian Ichthyosis Patients: Implications for Antibiotic Treatment**

Ngan K Nguyen[1], Minh Ho[3], ○ Bao C Bui[2]

[1]Department of Omics, International University, Ho Chi Minh, [2]University of Health Sciences, Vietnam National University, Ho Chi Minh, [3]Department of Dermatology, Yale School of medicine, New Haven

O05-08 [P07-22] **Papain protease activity on SDS-treated skin is essential to skin inflammation and Th17/Th22 induction but dispensable to Th2 induction**

○ Sakiko Maruyama[1,2], Keiko Takada[1,2], Tomoko Yoshimura[1,2], Shuntaro Ishihara[1,2], Mengnan Chen[2], Seiji Kamijo[2], Saya Shimizu[2], Mitsutoshi Tominaga[3], Kenji Takamori[3], Hideoki Ogawa[1], Ko Okumura[2], Shigaku Ikeda[1], Rei Watanabe[1], Toshiro Takai[2]

[1]Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, [2]Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, [3]Juntendo Itch Research Center (JIRC), Juntendo University Graduate School of Medicine, Chiba

O05-09 [P07-25] **Epicutaneous papain application on intact or tape-stripped skin induces protease activity-dependent acute itch and Th sensitization**

○ Shuntaro Ishihara[1,2], Toru Kimitsu[1,2], Seiji Kamijo[2], Yurie Masutani[1,2], Tomoko Yoshimura[1,2], Saya Shuimizu[2], Keiko Takada[1,2], Mengnan Chen[2], Sakiko Maruyama[1,2], Hideoki Ogawa[1], Ko Okumura[2], Rei Watanabe[1], Shigaku Ikeda[1], Toshiro Takai[2]

[1]Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, [2]Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo

O05-10 **Withdrawn**

O05-11 [P08-07] **Exploring the Synergy of big data in bridging digital health and cosmetics industries for advanced hair loss research**

○ Seoyeon Kyung[1], Dongeol Lee[1], Seunghyun Kang[1], Dong Keon Yon[2,5], Selin Woo[2], Minji Kim[2], Hayeon Lee[2], Jiseung Kang[3], Masoud Rahmati[4], Yujun Park[6], Seyoung Mun[6]

[1]COSMAX BTI, Seongnamsi, [2]Center of Digital Health, Kyung Hee University Medical Center, Seoul, [3]Department of Anesthesia, Massachusetts General Hospital, Boston, [4]Department of Physical Education and Sport Sciences, Lorestan University, Khoramabad, [5]Department of Pediatrics, Kyung Hee University Medical Center, Seoul, [6]Department of Nanobiomedical Science, Dankook University, Cheonan

O05-12 [P08-08] **Utilizing SERPINB7 Immunostaining for Enhanced Diagnosis of Hereditary Palmoplantar Keratoderma**

○ Mari Kishibe, Mai Komatsu, Hiroyoshi Nozaki, Satomi Igawa, Akemi Ishida-Yamamoto

Department of Dermatology/Asahikawa Medical University, Asahikawa

O05-13 [P08-09] **The association of IL-31 with pruritis in eruptive pruritic papular porokeratosis (EPPP)**

○ Satomi Igawa[1], Akemi Ishida-Yamamoto[1], Noriaki Toyota[2], Mari Kishibe[1]

[1]Department of Dermatology, Asahikawa Medical University, Asahikawa, [2]Minami 6 Dermatological Clinic, Asahikawa

O05-14 [P08-11] **Withdrawn**

O05-15 [P09-07] **MicroRNA as a disease marker of psoriasis**

○ Yuko Higashi[1,2], Munekazu Yamakuchi[3], Tomoko Fukushige[1], Takuro Kanekura[1], Teruto Hashiguchi[3], Gyohei Egawa[1]

[1]Department of Dermatology, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, [2]Department of Dermatology, Kagoshima City Hospital, Kagoshima, [3]Department of Laboratory and Vascular Medicine, Graduate School of Medical and Dental Sciences, Kagoshima University, Kagoshima

O05-16 [P09-08] **Could Mechanical Stress Serve as a Predisposing Factor for the Malignant Transformation of Seborrheic Keratosis?**

○ Hiroyoshi Nozaki[1], Tomoe Nakagawa[1], Kaori Umekage[1], Kyoko Kanno[1], Mari Kishibe[1], Masaru Honma[2], Akemi Ishida-Yamamoto[1]

[1]Department of Dermatology, Asahikawa Medical University, Asahikawa, [2]International Medical Support Center, Asahikawa Medical University, Asahikawa

O05-17 [P09-10] **Development of a digital image analysis system to objectively evaluate the treatment response in cellulitis**

○ Kazunori Miyata[1], Jun Yamagami[2], Yuko Takenaka[2], Mai Onuki[2], Tomoaki Sawayanagi[3], Naoko Ishiguro[2]

[1]Department of Dermatology, Tokyo Women's Medical University Yachiyo Medical Center, Chiba, [2]Department of Dermatology, Tokyo Women's Medical University, Tokyo, [3]Realinite Co., Ltd., Tokyo

O05-18 [P09-13] **Comparison between Local Anesthetic Minimal-Invasive Liposuction (LAMS) using normal saline and half saline**

○ Kyungho Paik[1], Nam Chul Kim[2], Jeong Eun Kim[2], Jinmook Jeong[2], Chang-Hun Huh[1]

[1]Seoul National University Bundang Hospital, Seongnam, [2]365mc Hospital Network, Seoul

O05-19 [P09-15] **The in-vivo exfoliation and 3h anti-acne efficacy of a clearing gel containing 2% salicylic acid**

○ Shuyan Yang[2], Liwei Wang[1], Chao Yuan[1], Rachel Zhao[2], Yan Zhong[2], Lucas Kruger[3], Kristine Schmalenberg[3]

[1]Department of Skin and Cosmetic Research, Shanghai Skin Disease Hospital, School of Medicine, Tongji University, Shanghai, [2]APAC Innovation Center, the Estée Lauder Companies, Shanghai, [3]Global Clinical and Consumer Sciences, The Estée Lauder Companies, NY

O05-20 [P09-17] **Deep Venous Thrombosis Risk in Elderly Patients with Lower Leg Cellulitis**

○ Romane Teshima, Yu Sawada, Natsuko Sasaki

University of Occupational and Environmental Health, Kitakyushu

O05-21 [P09-19] **Anti-acne efficacy of a botanic gel containing 1% salicylic acid: double-blinded, randomized controlled 3-day study**

○ Chao Yuan[1], Liwei Wang[1], Yunyun Zheng[2], Xiaomin Zhao[2], Yan Zhong[2], Lucas Kruger[3], Kristine Schmalenberg[3], Hao Ouyang[3]

[1]Department of Skin and Cosmetic Research, Shanghai Skin Disease Hospital, School of Medicine, Tongji University, Shanghai, [2]APAC Innovation Center, the Estée Lauder Companies, Shanghai, [3]Global Clinical and Consumer Sciences, The Estée Lauder Companies, NY

O05-22 [P09-21] **A 3-Step product Regimen Efficacy on Acne Vulgaris for both Female and Male**

○ Liwei Wang[1], Chao Yuan[1], Shuyan Yang[2], Xiaomin Zhao[2], Yan Zhong[2], Lucas Kruger[3], Kristine Schmalenberg[3]

[1]Shanghai Skin Disease Hospital, Shanghai, [2]APAC Innovation Center, the Estée Lauder Companies, Shanghai, [3]Global Clinical and Consumer Sciences, The Estée Lauder Companies, NY

O05-23 [P10-07] **Cytoprotection mechanisms of keratinocyte cytoprotectants against sorafenib toxicity**

○ Yayoi Kamata[1], Rui Kato[2], Mitsutoshi Tominaga[1], Sumika Toyama[1], Eriko Komiya[1], Jun Utsumi[1], Takahide Kaneko[2], Yasushi Suga[2], Kenji Takamori[1,2]

[1]Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Urayasu, [2]Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu

O05-24 [P10-08] **Serum cytokine and chemokine profiling in drug-induced hypersensitivity syndrome**

○ Elena Borzova, Ryota Hayashi, Osamu Ansai, Shingo Takei, Riichiro Abe

Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata

O05-25 [P10-09] **Bexarotene-induced upregulation of Siglec-7 and Siglec-9 on peripheral blood T cells: a potential therapeutic target**

Miki Kume[1], Rei Watanabe[2], Manabu Fujimoto[1], ○Eiji Kiyohara[1]

[1]Department of Dermatology, Course of Integrated Medicine, Graduate School of Medicine, Osaka University, Osaka, [2]Department of Medicine for Cutaneous Immunological Diseases, Course of Integrated Medicine, Graduate School of Medicine, Osaka University, Osaka

Evening Seminar 3
"Future of Psoriasis Treatment"

17:15-18:15 Chairs: Satoshi Fukushima, Masashi Akiyama

ES3-1 **Potential and Prospects of Deucravacitinib in the Treatment of Psoriasis**

○Tomoya Watanabe

Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, Yokohama

ES3-2 **The Logic Behind Early Interventions for Psoriasis: An Epidermal Perspective**

○Ken Natsuga

Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo

Co-sponsored by Bristol-Myers Squibb K.K.

December 6, 2024, Room D

Concurrent Oral Session 4
(Tissue Regeneration and Wound Healing/Translational Study)

10:20-11:44 Chairs: Akiharu Kubo, Yoshihide Asano

C04-01 [P14-02] **Comprehensive analyses of single cell-transcriptomic transition disclose precise mesenchymal activation for regenerating necrotic skingraft**

○ Yoshikazu Hirose[1], Asaka Miura[1], Yuki Kobayashi[2], Yuya Ouchi[2], Tomomi Kitayama[2], Takashi Shimbo[1], Akio Tanaka[3], Manabu Fujimoto[4], Katsuto Tamai[1,2]

[1]Department of Stem Cell Therapy Science, Graduate School of Medicine, Osaka University, Osaka, [2]StemRIM Inc., Osaka, [3]Department of Dermatology, Graduate School of Biomedical and Health Sciences, Hiroshima University, Hiroshima, [4]Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka

C04-02 [P14-03] **Collective cell migration dynamics of stratified epithelia under spatial confinement**

○ Takuma Nohara[1], Ken Natsuga[1], Yosuke Mai[1], Junichi Kumamoto[2], Masaharu Nagayama[2], Tsukasa Oikawa[3], Hideyuki Ujiie[1]

[1]Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, [2]Research Institute for Electronic Science, Hokkaido University, Sapporo, [3]Department of Molecular Biology, Graduate School of Medicine, Sapporo

C04-03 [P14-04] **Trehalose promotes wound healing *in vitro* by enhancing the migration of human keratinocytes and VEGF secretion**

○ Keigo Taneda[1], Xiuju Dai[1], Kenji Watanabe[2], Teruko Tsuda[1], Hideki Mori[1], Ken Shiraishi[1], Yoichi Mizukami[2], Yasuhiro Fujisawa[1], Jun Muto[1]

[1]Department of Dermatology, Ehime University Graduate School of Medicine, Toon, [2]Institute of Gene Research, Yamaguchi University Science Research Center, Yamaguchi

C04-04 [P14-05] **Rapid Re-Epithelialization and Delayed Collagen Production in Adult Skin Micro-Wounds**

Chen H Kuan, ○ Sung-Jan Lin

Division of Plastic Surgery, Department of Surgery, National Taiwan University Hospital, Taipei

C04-05 [P01-07] **TRPV4 promotes cutaneous wound healing by regulating keratinocytes and fibroblasts migration and collagen production in fibroblasts in mice**

○ Bayarmaa Taivanbat, Sahori Yamazaki, Akihiko Uchiyama, Syahla Nisaa Amalia, Yuta Inoue, Mai Ishikawa, Keiji Kosaka, Yoko Yokoyama, Sachiko Ogino, Ryoko Torii, Sei-ichiro Motegi

The Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi

C04-06 [P15-03] **Key mediators of the IL-6 subfamily in hidradenitis suppurativa**

○ Chia Bao Chu[1-2], Chao Chun Yang[1], Shaw Jenq Tsai[3]

[1]Department of Dermatology, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, [2]Institute of Basic Medical Sciences, College of Medicine, National Cheng Kung University, Tainan, [3]National Chung Cheng University, Chiayi

C04-07 [P15-04] **Blocking IL-17A, not IL-17F, Ameliorates Systemic Amyloidosis, and Both IL-17A and IL-17F Reduce Arteriosclerosis in Inflammatory Skin Mouse**

○ Takehisa Nakanishi[1], Shohei Iida[1], Masako Ichishi[2], Makoto Kondo[1], Mai Nishimura[1], Ayaka Ichikawa[1], Yoshiaki Matsushima[1], Yoichiro Iwakura[3], Masatoshi Watanabe[3], Keiichi Yamanaka[1]

[1]Department of Dermatology, Mie University Graduate School of Medicine, Tsu, [2]Department of Oncologic Pathology, Mie University Graduate School of Medicine, Tsu, [3]Center for Animal Disease Models, Research Institute for Biomedical Sciences, Tokyo

Luncheon Seminar 4
"Initiatives to Promote the Use of Biosimilar"

11:55-12:55 Chairs: Shinji Shimada, Riichiro Abe

LS4-1 **What kind of patients are suitable for ustekinumab BS?**

○ Maiko Inami

Department of Dermatology, NTT Medical Center Tokyo

LS4-2 **Cooperation with other departments in the treatment of psoriatic disease**

○ Tomotaka Mabuchi

Department of Dermatology, Tokai University School of Medicine

Co-sponsored by Fuji Pharma Co., Ltd.

2-minute presentation 3
(Pharmacology and Drug Development/Photobiology/Pigmentation and Melanoma)

15:05-15:55 Chairs: Emi Nishida, Yuan-Hsin Lo

O03-01 [P10-11] **Low-temperature plasma-activated Ringer's lactate solution induces cell death on malignant melanoma cells**

○ Akira Miyazaki[1], Tomoki Taki[1], Kae Nakamura[2], Hiromasa Tanaka[2], Masaru Hori[2], Katsumi Ebisawa[3], Masashi Akiyama[1]

[1]Department of Dermatology, Nagoya University, Nagoya, [2]Center for Low-Temperature Plasma Sciences, Nagoya University, Nagoya, [3]Department of Plastic and Reconstructive Surgery, Nagoya University, Nagoya

O03-02 [P10-12] **An extract of Arctium lappa L. may mitigate psoriatic inflammation by targeting EGFR**

○ Mengyao Yang[1,2], Ge Peng[1], Quan Sun[1], Wanchen Zhao[1], Alafate Abudouwanli[1], Arisa Ikeda[3], Shan Wang[4], Hideoki Ogawa[1], Ko Okumura[1], François Niyonsaba[1,5]

[1]Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, [2]Department of Dermatology, The First Hospital of China Medical University, Shenyang, [3]Department of Nephrology, Juntendo University Graduate School of Medicine, Tokyo, [4]Department of Dermatology, Beijing Children's Hospital, Capital Medical University, National Center for Children's Health, Beijing, [5]Faculty of International Liberal Arts, Juntendo University, Tokyo

O03-03 [P10-14] **Risk factors for liver enzyme abnormalities after oral terbinafine for onychomycosis: a multicenter study**

○ Hua-Ching Chang[1,2,3], Kai-Wen Chuang[1]

[1]Department of Dermatology, Taipei Medical University Hospital, Taipei, [2]Department of Dermatology, School of Medicine, College of Medicine, Taipei Medical University, Taipei, [3]Department of Pharmacology, College of Medicine, National Taiwan University, Taipei

O03-04 [P11-03] **Ultraviolet-B irradiation expands skin-resident CD81^{+}Foxp3^{+} regulatory T cells with a highly activated phenotype**

○ Hiroaki Shime[1], Mizuyu Odanaka[1], Masaki Imai[2], Akimichi Morita[3], Sayuri Yamazaki[1]

[1]Department of Immunology, Nagoya City University Graduate School of Medical Sciences, Nagoya, [2]Department of Medical Technology and Sciences, Faculty of Health Sciences, Kyoto Tachibana University, Kyoto, [3]Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya

O03-05 [P11-04] **UVB radiation-induced skin carcinogenesis and the impact of low dose UVA irradiation**

○ Katharina Maria Rolfes, Jean Krutmann, Thomas Haarmann-Stemmann

IUF-Leibniz Research Institute for Environmental Medicine, Duesseldorf

O03-06 [P11-05] **Possible usefulness of Raman microscopy in the treatment of extramammary Paget's disease**

○ Toshiki Kubo[1,2], Rei Watanabe[1], Takamichi Ito[3], Takeshi Nakahara[3], Manabu Fujimoto[1], Katsumasa Fujita[2,4], Atsushi Tanemura[1]

[1]Department of Dermatology, Osaka University, Suita, [2]Department of Applied Physics, Osaka University, Suita, [3]Department of Dermatology, Kyushu University, Fukuoka, [4]Institute for Open and Transdisciplinary Research Initiatives, Osaka University, Suita

O03-07 [P11-06] **Induction of Treg and genetic change of CD4 T cells by UVC irradiation**

○ Yoshifumi Kanayama, Akimichi Morita

Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate school of Medical Sciences, Nagoya

O03-08 [P11-07] **Drug-induced phototoxicity: Disruption of 6-formylindolo[3,2-*b*]carbazole metabolism sensitizes keratinocytes to UVA-induced apoptosis**

○ Frederick Hartung, Katharina Maria Rolfes, Thomas Haarmann-Stemmann

IUF - Leibniz Research Institute for Environmental Medicine, Düsseldorf

O03-09 [P11-08] **Effects of Phototherapy on Antinuclear Antibody Titers in Patients with Various Skin Diseases: A Longitudinal Study**

○ Oki Watanabe, Mai Sakurai, Yuki Enomoto, Aya Yamamoto, Akimichi Morita

Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya

O03-10 [P12-10] **Withdrawn**

O03-11 [P12-11] **Immune cell therapy utilizing iPS cell-derived proliferative myeloid cells for subcutaneous tumor models of melanoma**

○ Yuki Ichigozaki[1], Toshihiro Kimura[1], Haruka Kuriyama[1], Hisashi Kanemaru[1], Azusa Miyashita[1], Rong Zhang[2], Yasushi Uemura[2], Satoshi Fukushima[1]

[1]Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, [2]Division of Cancer Immunotherapy, Exploratory Oncology Research & Clinical Trial Center, National Cancer Center (NCC), Chiba

O03-12 [P12-12] **The MITF-Rho-ROCK-ECM axis regulates MAPKi effect in three-dimensional melanoma spheroids**

○ Satoru Sugihara[1], Kota Tachibana[1], Jordan Kumar[1], Gency Gunasingh[1], Glen M Boyle[2], Nikolas K. Haass[1]

[1]Frazer Institute, the University of Queensland, Brisbane, [2]QIMR Berghofer Medical Reserch Institute, Brisbane

O03-13 [P12-13] **Impact of the tumour microenvironment on melanoma proliferation, invasion and therapy**

Robert J. Ju, Kota Tachibana, Satoru Sugihara, Jordan Kumar, Yimeng Guan, Gisella Edny, Shahla Asgharzadeh Kangachar, Samantha J. Stehbens, ○Nikolas K. Haass

Frazer Institute, University of Queensland, Brisbane

O03-14 **Withdrawn**

O03-15 [P12-15] **Precision diagnostics for early melanoma detection using spatial biology and AI-guided image analysis**

○Yung-Ching Kao[1], Andrew Causer[2], Chenhao Zhou[1], Xiao Tan[2], Darren Smit[1], Katie J. Lee[1], Blake O'Brien[3], Angus Collins[3], Kiarash Khosrotehrani[1,4], H. Peter Soyer[1,4], Quan Nguyen[2,5], Mitchell S. Stark[1]

[1]Frazer Institute, The University of Queensland, Dermatology Research Centre, Brisbane, [2]QIMR Medical Research Institute, Brisbane, [3]Sullivan Nicolaides Pathology, Brisbane, [4]Department of Dermatology, Princess Alexandra Hospital, Brisbane, [5]Institute for Molecular Bioscience, the University of Queensland, Brisbane

O03-16 [P12-16] **Generation of immortalized keratinocyte lines from different ethnic backgrounds for skin biology applications**

○Oliver Dreesen, Mattheus XR Foo

A*STAR Skin Research Labs, Singapore

O03-17 [P12-17] **A role of CXCL14 in melanoma progression**

○Mengyan Li[1], Sanjay Lietzau[1,2], Jenny Chung[1,3], Akinori Kawakami[1], Kenji Kabashima[1]

[1]The Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, [2]Hannover Medical School, Hannover, [3]CUNY School of Medicine, New York

O03-18 [P12-18] **Investigation of the effect of TRPV1 inhibitor on skin damage caused by heat**

○Yu Gabe[1], Keigo Kawabata[1], Miyuki Sudo[2], Keigo Kajiwara[2], Shingo Tooi[2], Yoshito Takahashi[1]

[1]Biological Science Research, Kao Corporation, Odawara, [2]Skin Care Research, Kao Corporation, Tokyo

O03-19 [P12-21] **Cryosurgery Reduces Lung Melanoma Metastasis in a Mouse Model: Renewed Potential in Melanoma Management**

○Shih-han Wang[1], Ting-Ting Chen[2], Cheng-Lin Wu[3], Wei-Ting Liu[4], Yi-Hsuan Huang[5], Tak-Wah Wong[2,4,6]

[1]Institute of Basic Medical Sciences, College of Medicine, National Cheng Kung University, Tainan, [2]Department of Biochemistry and Molecular Biology, College of Medicine, National Cheng Kung University, Tainan, [3]Department of Pathology, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, [4]Department of Dermatology, National Cheng Kung University Hospital, Tainan, [5]Department of Oncology, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, [6]Center of Applied Nanomedicine, National Cheng Kung University, Tainan

O03-20 [P12-22] **A Modified Autologous Non-cultured Epidermal Cellular Suspension Protocol - An Australian First**

○Raaisa R Islam, Monisha Gupta

The Skin Hospital, Darlinghurst

O03-21 [P12-23] **A novel skin chromophore lipofuscin contributing to skin sallowness**

○Binwei Deng[1], Xi Yang[1], Kelly Dong[2], Jian (Richard) Cao[1], Nadine Pernodet[2]

[1]Estée Lauder Companies Research and Development, Shanghai, [2]Research and Development, The Estée Lauder Companies, NY

O03-22 [P12-24] **An ex vivo skin explant based scientific model testing photoprotection efficacy of cosmetic sunscreen products under controlled UV exposure**

○Mukta Sachdev, Aahan Sachdev, Ritambhara KR

MSCR, Bangalore

O03-23 [P12-25] **A novel method for evaluating melanocyte cytotoxicity using human ex vivo skin tissue culture model**

○Saaya Koike[1], Takako Shibata[1], Kiyotaka Hasegawa[1], Tamio Suzuki[2]

[1]Shiseido Co., Ltd., MIRAI Technology Institute, Yokohama, [2]Department of Dermatology, Yamagata University Faculty of Medicine, Yamagata

O03-24 [P12-26] **A potent reagent against UV-induced carbonylation and skin yellowness**

○Xi Yang[1], Jian (Richard) Cao[1], Nadine Pernodet[2]

[1]Estée Lauder Companies Research and Development, Shanghai, [2]Research and Development, The Estée Lauder Companies, NY

O03-25 [P12-29] **Anti-glycation and anti-skin sallowness effects of Siegesbekia Orientalis extract on skin models**

○Jian (Richard) Cao[1], Xi Yang[1], Binwei Deng[1], Nadine Pernodet[2]

[1]Estée Lauder Companies R&D, Shanghai, [2]R&D, The Estée Lauder Companies, NY

2-minute presentation 6
(Pigmentation and Melanoma/Skin, Appendages, and Stem Cell Biology/Tissue Regeneration and Wound Healing/Translational Studies)

16:05-16:55 Chairs: Hiroaki Iwata, Hanako Yoshioka

O06-01 [P12-31] **Unravelling the effects of protein glycation on skin sallowness: an experimental and simulation approach**

○ Zhen Li[1], Yuping Su[2], Xi Yang[1], Yu Lin[3], Senping Fan[2], Huanjun Zhou[1], Hao Long[2], Jian (Richard) Cao[1], Tom Mammone[3], Nadine Pernodet[3]

[1]The Estée Lauder Companies Innovation (China), Shanghai, [2]School of Electronic Science and Engineering (National Model Microelectronics College) Xiamen University, Xiamen, [3]R&D, The Estée Lauder Companies, NY

O06-02 [P13-12] **Chemical Modulation of mitochondria-ER contacts: Effects in Melanogenesis**

○ Federica Dal Bello[1], Natasha Kaar[1], Sara Schiavon[1], Emad Norouzi Esfahani[1], Tomas Knedlik[1], Alessio Gianelle[2], Florine Grudet[1], Paula Rebelo[1], Giovanni Marzaro[3], Adriana Chilin[3], Marta Giacomello[1,4]

[1]Department of Biology, University of Padova, Padova, [2]Sezione INFN di Padova, Padova, [3]Department of Pharmaceutical and Pharmacological Sciences, University of Padova, Padova, [4]Department of Biomedical Sciences, University of Padova, Padova

O06-03 [P13-13] **Histological characterization and transcriptomic analysis of acquired idiopathic generalized anhidrosis post corticosteroid pulse therapy**

○ Reiko Kageyama[1], Keiko Sakamoto[1,2], Satoshi Nakamizo[3], Kenji Kabashima[3], Keisuke Nagao[2], Tetsuya Honda[1]

[1]Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, [2]Cutaneous Leukocyte Biology Section, Dermatology Branch, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Bethesda, [3]Department of Dermatology, Kyoto University, Kyoto

O06-04 [P13-14] **Carbonylated proteins elevate ROS levels in fibroblasts through RAGE**

○ Yumiko Yamawaki, Yuri Okano, Hitoshi Masaki

CIEL CO., LTD., Sagamihara

O06-05 [P13-15] **Three-dimensional ultra-high frequency ultrasound non-invasively visualizes pathological changes predicting the prognosis of alopecia areata**

○ Tatsuro Iwasaki[1,2], Misaki Kinoshita-Ise[1], Taiichiro Ida[3], Masayuki Amagai[2], Manabu Ohyama[1]

[1]Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo, [2]Department of Dermatology, Keio University School of Medicine, Tokyo, [3]Advantest Corporation, Saitama

O06-06 [P13-16] **Possible role of spinal semaphorin 3A in itch and pain perceptions**

○ Motoki Morita[1], Mitsutoshi Tominaga[1], Yayoi Kamata[1], Kenji Takamori[1,2]

[1]Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, [2]Department of Dermatology, Juntendo University Urayasu Hospital, Chiba

O06-07 [P13-17] **High-throughput workflow to study Melanosome morphology**

○ Emad Norouzi Esfahani, Marta Giacomello

The Department of Biology, University of Padova, Padova

O06-08 [P13-18] **A statistical model of the succession character of the scratching bouts evoked by itch sensation in mice**

○ Kotaro Honda[1], Mitsutoshi Tominaga[1], Kenji Takamori[1,2]

[1]Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Urayasu, [2]Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu

O06-09 [P13-19] **Mechanism of histamine production and secretion by sweat gland cells**

○ Hayato Mizuno[1], Shunsuke Takahagi[1,2], Kazue Uchida[1], Kaori Ishii[1], Akio Tanaka[1]

[1]Department of Dermatology, Institute of Biomedical & Health Sciences, Hiroshima University, Hiroshima, [2]Division of Dermatology, JA Hiroshima General Hospital, Hiroshima

O06-10 [P13-20] **Mitophagy regulation restores mitochondrial function in the dermal fibroblasts and preserves skin youthfulness**

○ Tingyan Mi[1], Binwei Deng[1], Jian (Richard) Cao[1], Nadine Pernodet[2]

[1]Research and Development, The Estée Lauder Companies, Shanghai, [2]Research and Development, The Estée Lauder Companies, NY

O06-11 [P13-21] **Uncover the critical environmental risk factors to pore visibility with an AI approach**

○ Hang Xie[1], Huanjun Zhou[1], Jin Yan Song[2], Zitao Ma[3], Tianhao Li[3], Xiao Long[3], Danning Zeng[1], Xiaodi Wang[1], Su Shi[4], Yulan Qu[1], Yajun Luo[1], Haidong Kan[4], Jian (Richard) Cao[1], Nadine Pernodet[5]

[1]Estée Lauder Companies Innovation R&D (China) Co., Ltd, Shanghai, [2]Hangzhou C2H4 Internet Technology Co., Ltd., Hangzhou, [3]Department of Plastic and Reconstructive Surgery, Peking Union Medical College Hospital, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, [4]School of Public Health, Key Lab of Public Health Safety of the Ministry of Education and NHC Key Lab of Health Technology Assessment, Fudan University, Shanghai, [5]R&D, The Estée Lauder Companies, Melville, NY

O06-12 [P13-22] **Role of Cutaneous Neuroinflammation and Potential Dorsal Root Ganglion in Rosacea**

○ Sang Gyu Lee[1,2], Dawoon Han[1], Jihee Kim[2]

[1]Department of Dermatology, Yonsei University college of Medicine, Seoul, [2]Department of Dermatology, Yonsei University college of Medicine, Yongin

O06-13 [P13-24] **Age-dependent effects of psychological stress on itch sensitivity in mice: improvement by serotonin**

○ Qiaofeng Zhao[1], Mitsutoshi Tominaga[1], Sumika Toyama[1], Kenji Takamori[1,2]

[1]Juntendo Itch Research Center, Institute for Environmental and Gender-Specific Medicine, Juntendo University, Tokyo, [2]Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu

O06-14 [P13-26] **Involvement of Macrophage in the Pathogenesis of Acquired Idiopathic Generalized Anhidrosis**

○ Chie Uchida, Tadatsune Iida, Takeshi Namiki, Naoko Okiyama

Department of Dermatology, Institute of Science Tokyo, Tokyo

O06-15 [P14-06] **Apoptotic and necroptotic keratinocytes contribute to fibrosis in chronic graft-versus-host disease via the production of TGF-β**

○ Karin Endo[1], Yuki Ichimura[1,2], Takashi Matsui[1], Risa Konishi[1,3], Tadatsune Iida[1], Takeshi Namiki[1], Naoko Okiyama[1]

[1]Department of Dermatology, Graduate School of Medical and Dental Sciences, Institute of Science Tokyo, Tokyo, [2]Division of Rheumatology, Department of Internal Medicine, Tokyo Women's Medical University, Tokyo, [3]Department of Dermatology, Faculty of Medicine, University of Tsukuba, Tsukuba

O06-16 [P14-07] **Effects of antimicrobial peptide human β-defensin-3 on the production of intercellular adhesion molecule-1 in human dermal fibroblasts**

○ Ying Zhangwei[1], Yoshie Umehara[1], Ko Okumura[1], Hideoki Ogawa[1], François Niyonsaba[1,2]

[1]Atopy (Allergy) Research Center, Juntendo University School of Medicine, Tokyo, [2]Faculty of International Liberal Arts, Juntendo University, Tokyo

O06-17 [P14-08] **A deep learning for estimation of DESIGN-R 2020 grading score in patients with pressure ulcer**

○ Takatoshi Shimauchi[1], Tomoo Inubushi[2], Shinsuke Nakazawa[1], Etsuji Yoshikawa[2], Taisuke Ito[1], Yoshiki Tokura[1], Tetsuya Honda[1]

[1]Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, [2]Central Research Laboratory, Hamamatsu Photonics K.K., Hamamatsu

O06-18 [P14-11] **Exosomes Combined with Polymer Dots Dressings and 755 nm picosecond laser accelerate wound Healing in Nude Mice**

○ Yen-Jen Wang[1], Chang-Cheng Chang[2]

[1]Department of dermatology, MacKay Memorial Hospital, Taipei, [2]Division of plastic and reconstructive surgery, China Medical University Hospital, Taipei

O06-19 [P14-15] **A Split-Face Pilot Study of Hybrid (CO2 and 1570nm) Laser versus CO2 Laser in Acne Scars**

○ Manoj K Pawar

Department of Dermatology, Chic Clinic, Muscat

O06-20 [P15-07] **Randomized trial of a pilot study to evaluate Spincare for wound healing in Recessive Dystrophic Epidermolysis Bullosa patients**

○ Yuri Ikeda, Ricardo Villanueva Gaona, Jenny Deng, Pirunthan Pathmarajah, Jean Y Tang

The Department of Dermatology, Stanford University, Palo Alto, California

O06-21 [P15-09] **A role of spinal cholecystokinin-2 receptor in mechanical alloknesis**

○ Mitsutoshi Tominaga[1], Kotaro Honda[1], Tomohiro Tobita[1], Eriko Komiya[1,2], Masafumi Yokota[1], Motoki Morita[1], Masaru Kurosawa[1], Sumika Toyama[1], Qiaofeng Zhao[1], Ying Zuo[1], Mao Hotta[1], Nanami Tanemoto[1], Miho Shiratori-Hayashi[1,3], Atsuko Kamo[4], Kenji Takamori[1,5]

[1]Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Urayasu, [2]Department of Functional Morphology, Faculty of Pharmacy, Juntendo University, Urayasu, [3]Department of Molecular and Systems Pharmacology, Faculty of Pharmacy, Juntendo University, Urayasu, [4]Laboratory of Clinical Pathophysiology, Juntendo University Graduate School of Health Care and Nursing, Urayasu, [5]Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu

O06-22 [P15-10] **Increased CXCL10 and CXCR3 expression in pain and itch cutaneous neurofibroma**

○ Trang Q. T. Pham[1], Hao J. Weng[1,3,4,5], Chung P. Liao[1,2]

[1]International Ph.D. Program in Cell Therapy and Regenerative Medicine, College of Medicine, Taipei Medical University, Taipei, [2]Graduate Institute of Medical Sciences, College of Medicine, Taipei Medical University, Taipei, [3]Graduate Institute of Clinical Medicine, College of Medicine, Taipei Medical University, Taipei, [4]Department of Dermatology, Taipei Medical University-Shuang Ho Hospital, New Taipei, [5]Department of Dermatology, School of Medicine, College of Medicine, Taipei Medical University, Taipei

O06-23 [P15-11] **EGF suppresses eczema in the NC/Tnd mouse model**

○ Ryo Muko[1], Helen Williams[2], Gurdeep Singh[2], Hiroshi Matsuda[3], Joanne L Pennock[2], Peter D Arkwright[2], Akane Tanake[1,3]

[1]Institute of Global Innovation Research, Tokyo University of Agriculture & Technology, Tokyo, [2]Lydia Becker Institute of Immunology and Inflammation, University of Manchester, Manchester, [3]Laboratories of Comparative Animal Medicine, Tokyo University of Agriculture & Technology, Tokyo

O06-24 [P15-12] **Characterization of 2 distinct biomarker-defined endotypes in Japanese adult atopic dermatitis patients with moderate to severe disease**

○ Victoria Serelli-Lee[1], Akichika Ozeki[1], Christoph Preuss[2], Robert J. Benschop[2], Hitoe Torisu-Itakura[1], Takashi Matsuo[1], Jonathan T. Sims[2]

[1]Eli Lilly Japan K.K., Kobe, [2]Eli Lilly and Company, Indianapolis

Evening Seminar 4
"The Science of Night: Impact of circadian rhythms on skin health"

17:15-18:15 Chairs: Mariko Moriyama, Hayato Takahashi

ES4-1 **Linking the circadian clock to skin aging: the role of melatonin**

○ Yung Hou Wong

Hong Kong University of Science and Technology, Hong Kong

ES4-2 **Importance of Night for Skin Recovery**

○ Jian (Richard) Cao

Advanced Technology Pioneering, Innovation R&D China, The Estée Lauder Companies, Shanghai

Co-sponsored by The Estee Lauder Companies

December 7, 2024, Room A

2-minute late breaking abstract presentation (President's Special Initiative Session)

8:20-9:00 Chairs: Tom Chan, Chang Ook Park

LO-01 [L-01] **OX40/OX40L axis associates with atopic skin inflammation through impairing IL-10 production in regulatory T cells**

○ Kazuhiko Yamamura[1,2], Mika Murai-Yamamura[1], Sandra Garcet[3], Dante Dahabreh[4], Juana Gonzalez[3], Shunsuke Miura[5], Hong Beom Hur[3], Xuan Li[3], Yael Renert-Yuval[3], Yeriel Estrada[4], Tali Czarnowicki[3], Takeshi Nakahara[1,2], James G. Krueger[3], Emma Guttman-Yassky[4]

[1]Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, [2]Research and Clinical Center for Yusho and Dioxin, Kyushu University, Fukuoka, [3]Laboratory of Investigative Dermatology, The Rockefeller University, New York, [4]Department of Dermatology, Icahn School of Medicine at the Mount Sinai Medical Center, New York, [5]Department of Dermatology, The University of Tokyo, Tokyo

LO-02 [L-04] **Associations of Different Inflammatory Factors with Atherosclerosis Among Patients with Psoriasis Vulgaris**

○ Nguyen Thi Kim Huong[1], Le Huu Doanh[2], Bui Long[1]

[1]Friendship Hospital, Hanoi, [2]Hanoi Medical University, Hanoi

LO-03 [L-05] **SERUM MRGPRX2 LEVELS IN CHRONIC SPONTANEOUS URTICARIA IN VIETNAMESE PATIENTS**

○ Cuc Nguyen Thi Kim[1,2], Minh Vu Nguyet[1,2], Lan Pham Thi[1,2], My Le Huyen[1], Doanh Le Huu[1,2]

[1]National Hospital of Dermatology and Venereology, Hanoi, [2]Ha Noi Medical University, Hanoi

LO-04 [L-06] **"Black-Red Dot Sign" under Dermoscopy: Significance in Screening and Antifungal Efficacy Tracking in Subcutaneous Fungal Infection lesion**

○ Yuping Ran

Dermatology, West China Hospital, Sichuan University, Chengdu

LO-05 [L-08] **The skin-specific long non-coding RNA TEDAR regulates epidermal differentiation**

Kunal Das Mahapatra[1,2], Özge Arslan[1,3], Jonathan Elton[1,2], Evelyn Kelemen[1,3], Longlong Lou[1,3], Markus Kretz[4], Enikö Sonkoly[1,3], ○ Andor Pivarcsi[1,2,3]

[1]Department of Medical Biochemistry and Microbiology, Uppsala University, Uppsala, [2]Department of Medicine Solna, Karolinska Institute, Stockholm, [3]Dermatology and Venereology, Department of Medical Sciences, Uppsala University, Uppsala, [4]Institute of Biochemistry, Genetics and Microbiology, University of Regensburg, Regensburg

LO-06 [L-09] **Biofabrication of 3D shaped skin equivalents for mechanobiology and robotic applications**

○ Minghao Nie, Michio Kawai, Yuto Matsushima, Haruka Oda, Shoji Takeuchi

The University of Tokyo, Graduate School of Information Science and Technology, Tokyo

LO-07 [L-10] **Proteasome inhibitors as potential anticancer agents for angiosarcoma cells**

○ Che-Yuan Hsu[1,2], Teruki Yanagi[1,2], Kodai Miyamoto[1,2], Satoko Otsuguro[3], Katsumi Maenaka[3,4,5,6,7], Hiroshi Nishihara[8], Hideki Nakamura[9], Kenzo Takahashi[2], Hideyuki Ujiie[1]

[1]Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, [2]Department of Dermatology, Graduate School of Medicine, University of the Ryukyus, Okinawa, [3]Center for Research and Education on Drug Discovery, Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo, [4]Laboratory of Biomolecular Science, Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo, [5]Division of Pathogen, Structure, International Institute for Zoonosis Control, Hokkaido University, Sapporo, [6]Institute for Vaccine Research & Development, Hokkaido University, Sapporo, [7]Faculty of Pharmaceutical Sciences, Kyushu University, Fukuoka, [8]Genomics Unit, Keio Cancer Center, Keio University School of Medicine, Tokyo, [9]Central Research Institute, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo

LO-08 [L-11] **The Therapeutic potential of Artemisia Naphta on Seborrhoeic Dermatitis**

○ Ziyan Qin[1,2], Huailong Chang[1,2], Kan Tao[1,2], Shengnan Tang[1,2]

[1]Shanghai Chicmax Cosmetic Co., Ltd., Global R&D Center, Shanghai, [2]Shanghai KPC Biotechnology Co., Ltd., Shanghai

LO-09 [L-13] **A Comprehensive Meta-analysis of the Association Between Lipid profile and Hidradenitis Suppurativa**

○ Yan-Han Li[1], Shu-Han Chuang[1], Hui-Ju Yang[2,3]

[1]Division of General Practice, Department of Medical Education, Changhua Christian Hospital, Changhua, [2]Department of Dermatology, Changhua Christian Hospital, Changhua, [3]Department of Post-Baccalaureate Medicine, College of Medicine, National Chung Hsing University, Taichung City

LO-10 [L-14] **Indonesian brown algae *Sargassum cristaefolium* lipid extract activity against bacterial skin infection**

○ Anggit Sunarwidhi[1,2], Sri Widyastuti[3], Kukuh Waseso Jati Pangestu[2], Farreh Alan Maulana[1,2], Ervina Handayani[1,2], Mila Mayanti Kabir[1], Eka S. Prasedya[2,4]

[1]Department of Pharmacy, Faculty of Medicine and Health Sciences, Universitas Mataram, Mataram, [2]Bioscience and Biotechnology Research Centre, Universitas Mataram, Mataram, [3]Faculty of Food Technology and Agroindustry, Universitas Mataram, Mataram, [4]Department of Biology, Faculty of Mathematics and Natural Sciences, Universitas Mataram, Mataram

LO-11 [L-15] **Therapeutic Potential of Topical Cannabigerol (CBG) in the Treatment of Inflammation and Erythema in Rosacea**

○ Suji Kim[1], Eun Hee Yoo[2], JI hyun Lee[1,2]

[1]Department of Medical Sciences, Graduate School of The Catholic University of Korea, Seoul, [2]Department of Dermatology, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul

LO-12 [L-18] **Microbiome-implanted *in vitro* 3D skin models to evaluate skin-microbiome interactions**

○ Hai Vin Kim[1], Young Su Jang[1], Dahye Seo[1], ARam Kim[2], Suji Son[2], Jae-Sang Ryu[2], Dong Hyun Kim[2], Jung U Shin[2]

[1]Department of Biomedical Science, CHA University, Seongnam, [2]Department of Dermatology, CHA Bundang Medical Center, CHA University School of Medicine, Seongnam

LO-13 [L-19] **Inhibitory Effects of Minocycline on Neutrophil Extracellular Trap Formation in Human Neutrophils and a Mouse Model of Hidradenitis Suppurativa**

○ DaHye Seo[1], JaeSang Ryu[2], YoungSu Jang[1], HaiVin Kim[1], HeeJung Lee[2], DongHyun Kim[2], Yunkyung Jang[2], JungU Shin[2]

[1]Department of Biomedical Science, CHA University, Seongnam, [2]Department of Dermatology, CHA Bundang Medical Center, CHA University School of Medicine, Seongnam

LO-14 [L-23] **CXCR3/CXCL10 axis mediated memory T cell activations in DRESS patients and abated by JAK inhibitors**

○ Chuang-Wei Wang[1,2,3], Wen-Hung Chung[1,2,3]

[1]Department of Dermatology, Drug Hypersensitivity Clinical and Research Center, Chang Gung Memorial Hospital, Linkou, [2]Cancer Vaccine and Immune Cell Therapy Core Laboratory, Department of Medical Research, Chang Gung Memorial Hospital, Linkou, [3]Chang Gung Immunology Consortium, Chang Gung Memorial Hospital and Chang Gung University, Taouan

LO-15 [L-24] **Efficacy of Non-cultured Epidermal Cell Suspension and Excimer Lamps Combination Therapy in Vitiligo: Results of 18 Months Follow-up**

○ Tam Hoang Van[1,2], Davinder Parsad[3], Thuong Nguyen Van[1,2], Phuong Hoang Thi[2], Son Nguyen Hong[2], Hien Do Thi Thu[2], Tan Nguyen Manh[1,2], Hien Le Thanh[2], Hien Tran Thi Thu[1], Doanh Le Huu[1,2]

[1]Hanoi Medical University, Hanoi, [2]National Hospital of Dermatology and Venereology, Hanoi, [3]Department of Dermatology, Venereology and Leprology, Postgraduate Institute of Medical Education and Research, Chandigarh

Plenary Session II

9:10-10:40 Chairs: Manabu Ohyama, Ohsang Kwon, Eniko Sonkoly

II-1 [P10-01] **Breakthrough drug in Stevens-Johnson syndrome/toxic epidermal necrolysis: Drug discovery to prevent cell death via formyl peptide receptor-1**

○ Haruna Kimura[1], Akito Hasegawa[1], Tomoki Nishiguchi[1,2], Hong Ha Nguyen[1], Masatoshi Eguchi[1], Takeaki Ozawa[2], Riichiro Abe[1]

[1]Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, [2]Department of Chemistry, School of Science, The University of Tokyo, Tokyo

II-2 [P01-01] **Natural IgE production requires cognate interaction between invariant NKT cells and B cells via CD1d**

○ Akihiko Kitoh[1], Rintaro Shibuya[2], Sho Hanakawa[3], Kenji Kabashima[1,3]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, [2]Kimberly and Eric J. Waldman Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York, [3]Skin Research Labs, Agency for Science, Technology and Research (A*STAR), Singapore

II-3 [P01-02] **CD301b$^+$ cDC2 facilitate cytotoxic T lymphocytes activation within inducible skin-associated lymphoid tissue in contact dermatitis**

○ Fuuka Minami[1], Ryota Asahina[1,2], Sachiko Ono[1], Tetsuya Honda[3], Gyohei Egawa[4], Satoshi Nakamizo[1], Kenji Kabashima[1]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, [2]Center for One Medicine Innovative Translational Research (COMIT), Gifu University, Gifu, [3]Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, [4]Department of Dermatology, Kagoshima University, Kagoshima

II-4 [P09-01] **Epigenetic memory in healed psoriatic keratinocytes**

○ Sayaka Shibata, Kentaro Awaji, Asumi Koyama, Yukiko Ito, Haruka Taira, Shinichi Sato

Department of Dermatology, Graduate School of Medicine, The University of Tokyo, Tokyo

II-5 [P04-01] **Increased LL37 in psoriasis and rosacea promotes the uptake of low-density lipoprotein and development of atherosclerosis**

○ Yoshiyuki Nakamura[1,3], Nikhil Kulkarni[1], Tatsuya Dokoshi[1], Toshiya Takahashi[1], Elizabeth Luo[2], Haleh Alimohamadi[2], Tomofumi Numata[1], Gerard Wong[2], Richard Gallo[1]

[1]The Department of Dermatology, UC San Diego, San Diego, [2]The Department of Bioengineering, UC Los Angeles, Los Angeles, [3]The Department of Dermatology, University of Tsukuba, Tsukuba

II-6 [P07-01] **Constipation-Induced Gut Dysbiosis Aggravates Acne: Insights from a Novel Mouse Model Revealing Mechanisms of the Gut-Skin Axis**

○ Masakazu Tamai[1], Takashi Sugihira[1], Seitaro Nakagawa[1], Shuo Li[2], Manabu Fujimoto[1], Yumi Matsuoka-Nakamura[1,2]

[1]Department of Dermatology, Graduate School of Medicine, Osaka University, Suita, [2]Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, Osaka University, Suita

Tanioku Kihei Memorial Lecture

10:45-11:15 Chair: Akimichi Morita

TML **Healthy Skin, Healthy Brain**

○ Jin Ho Chung
Department of Dermatology, Seoul National University College of Medicine, Seoul

JSID Award Lecture

11:15-11:45 Chair: Manabu Fujimoto

JAL **Deciphering Epidermal Behaviors to Understand Skin Diseases**

○ Ken Natsuga
Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo

JSID Kisaragi Award

11:45-11:50 Chair: Manabu Fujimoto

JKA **Keratinocytes of the Upper Epidermis and Isthmus of Hair Follicles Express Hemoglobin mRNA and Protein**

○ Umi Tahara
Department of Dermatology, Keio University School of Medicine, Tokyo

Commemorative Photo

11:50-11:55

Please come along if you would like to participate in the photo shoot.

Luncheon Seminar 5
"New discoveries and treatment technologies for the control of skin hyperpigmentation"

12:00-13:00 Chairs: Dongyoun Lee, Akimichi Morita

LS5-1 **Molecular and cellular mechanism of hyperpigmentation, and treatment strategies**

○ Kenshi Yamasaki
ALOOP CLINIC & LAB, Tokyo, Japan

LS5-2 **Exploratory study of novel pigment-related genes based on Japanese skin type genome-wide analysis**

○ Moyuka Irimada
Department of Dermatology, Tohoku University Graduate School of Medicine

LS5-3 **Management of hyperpigmentation and uneven skin tone using a multi-prong approach and a newtyrosinase inhibitor, UP-302**

○ Tom Mammone
Clinique Laboratories Vice President and Estée Lauder Companies Fellow, Advanced Technology Pioneering, Global R&D, The Estée Lauder Companies

Co-sponsored by Clinique

The 25th Maruho Research Award Presentations by award winners and award ceremony

13:10-14:10 Chairs: Masayuki Amagai, Shinichi Sato, Kenji Kabashima

MRA1 **Infiltration and local differentiation of bone marrow-derived integrin β7-positive mast cell progenitors in atopic dermatitis-like skin**

○ Yuki Honda Keith[1,2], Tetsuya Honda[1,3], Sachiko Ono[1], Bernett Lee[4,5], Rintaro Shibuya[1], Sho Hanakawa[6], Yoshihiro Ishida[1], Satoshi Nakamizo[1], Kenji Kabashima[1,4,6]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, [2]Precision Immunology, Garvan Institute of Medical Research, Sydney, [3]Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, [4]Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A*STAR), Biopolis, [5]Lee Kong Chian School of Medicine, Nanyang Technological University, Biopolis, [6]Skin Research Institute of Singapore (SRIS), Agency for Science, Technology and Research (A*STAR), Biopolis

MRA2 **Eribulin mesylate exerts antitumor effects via CD103**

○ Kazumasa Oya[1,2], Yoshiyuki Nakamura[1], Toshifumi Nomura[1], Yasuhiro Fujisawa[3]

[1]Department of Dermatology, University of Tsukuba, Tsukuba, [2]UMass Chan Medical School, Worcester, [3]Department of Dermatology, Ehime University Graduate School of Medicine, Ehime

MRA3 **Keratinocytes of the Upper Epidermis and Isthmus of Hair Follicles Express Hemoglobin mRNA and Protein**

○ Umi Tahara[1,2], Takeshi Matsui[1,2,3], Toru Atsugi[1], Keitaro Fukuda[1,2], Tommy W Terooatea[4], Aki Minoda[4,5], Akiharu Kubo[1,6], Masayuki Amagai[1,2]

[1]Department of Dermatology, Keio University School of Medicine, Tokyo, [2]Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, Yokohama, [3]Laboratory for Evolutionary Cell Biology of the Skin, School of Bioscience and Biotechnology, Tokyo University of Technology, Hachioji, [4]Laboratory for Cellular Epigenomics, RIKEN Center for Integrative Medical Sciences, Yokohama, [5]Department of Cell Biology, Faculty of Science, Radboud Institute for Molecular Life Sciences, Radboud University, Nijmegen, [6]Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe

MRA4 **Utility of nailfold capillary assessment for predicting pustulotic arthro-osteitis in palmoplantar pustulosis based on a prospective cohort study**

○ Takemichi Fukasawa[1], Takashi Yamashita[2], Atsushi Enomoto[3], Satoshi Toyama[2], Asako Yoshizaki-Ogawa[2], Shoko Tateishi[4], Hiroko Kanda[4], Kiyoshi Miyagawa[3], Shinichi Sato[2], Ayumi Yoshizaki[1,2]

[1]Department of Clinical Cannabinoid Research, The University of Tokyo Graduate School of Medicine, Tokyo, [2]Department of Dermatology, The University of Tokyo Graduate School of Medicine, Tokyo, [3]Laboratory of Molecular Radiology, Center of Disease Biology and Integrative Medicine, The University of Tokyo Graduate School of Medicine, Tokyo, [4]Immune-Mediated Diseases Therapy Center, The University of Tokyo Graduate School of Medicine, Tokyo

Co-sponsored by Maruho Co., Ltd.

Concurrent Oral Session 5 (Auto-Immunity)

14:20-15:44 Chairs: Naoko Okiyama, Hayato Takahashi

C05-01 [P02-03] **Dermal adipogenesis protects against psoriatic skin inflammation**

○ Wenlu Zhang, Tian Xia, Rundong Wu, Xiao Hu, Rongshuang Xia, Ling-juan Zhang

State Key Laboratory of Cellular Stress Biology, School of Pharmaceutical Sciences, Xiamen University, Xiamen

C05-02 [P02-04] **Mathematical dermatology based on visual skin eruption linked to pathophysiological states in chronic spontaneous urticaria**

○ Sungrim Seirin-Lee[1,2], Yuhki Yanase[3], Daiki Matsubara[4], Takahiro Hiraga[1], Hiroshi Ishii[5], Ryo Saito[3], Shunsuke Takahagi[3,6], Michihiro Hide[3,7]

[1]Kyoto University Institute for Advanced Study, Kyoto University, Kyoto, [2]Graduate School of Medicine, Kyoto University, Kyoto, [3]Department of Pharmacotherapy, Hiroshima University, Hiroshima, [4]Department of Dermatology, Hiroshima University, Hiroshima, [5]RIES, Hokkaido University, Sapporo, [6]Department of Dermatology, JA Hiroshima General Hospital, Hiroshima, [7]Department of Dermatology, Hiroshima City Hiroshima Citizens Hospital, Hiroshima

C05-03 [P02-05] **Immunological skew in thymoma-associated multi-organ autoimmunity**

○ Manao Kinoshita, Youichi Ogawa, Takuya Sato, Shinji Shimada, Tatsuyoshi Kawamura

Department of Dermatology, University of Yamanashi, Yamanashi

C05-04 [P02-06] **Granzyme K Contributes to PAR-2 Mediated Itch Pathway of Imiquimod-Induced Psoriasis Model**

Aoi Hiroyasu[1], Beni Amatya[1], Daisuke Tsuruta[1], David J. Granville[2,3,4,5], ○ Sho Hiroyasu[1,2,3,4]

[1]The Department of Dermatology, Osaka Metropolitan University, Osaka, [2]International Collaboration on Repair Discoveries (ICORD) Centre, Vancouver, [3]Department of Pathology and Laboratory Medicine, University of British Columbia, Vancouver, [4]British Columbia Professional Firefighters' Burn and Wound Healing Group, Vancouver Coastal Health Research Institute, Vancouver, [5]Centre for Heart Lung Innovation, Providence Research, University of British Columbia, Vancouver

C05-05 [P02-07] **The Role of TLR7 and TLR9 in the Pathogenesis of Systemic Sclerosis**

○ Chenyang Wang
The department of Dermatology, Kanazawa university, Kanazawa

C05-06 [P02-08] **Immune Shift to Enhanced Cytotoxicity of Peripheral NKG2D+ CD8 T Cells in Active Alopecia Areata**

○ Doyoung Kim, Kyung Bae Chung, Ji-Hye Hwang, Eun Hye Kim
Department of Dermatology, Yonsei University College of Medicine, Seoul

C05-07 [P02-09] **The selective S1P1 receptor modulator Cenerimod ameliorates murine IMQ induced psoriasis-like skin inflammation model**

○ Xibei Jia, Yasuhito Hamaguchi, Takashi Matsushita
Department of Dermatology, Faculty of Medicine, Institute of Medical Pharmaceutical and Health Science, Kanazawa University, Kanazawa

Symposium 2
"New Standards for Skin Research Methods and Techniques"

15:55-17:55 Chairs: Paul Nghiem, Motoki Nakamura, Hironobu Fujiwara

SY2-1 **Immune microenvironment analysis by single cell spatial proteomics with highly multiplexed immunofluorescent imaging**

○ Motoki Nakamura
Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya

SY2-2 **Characterization of inflammatory skin disease-specific cell populations using Visium HD**

○ Manami Toriyama
Graduate School of Pharmaceutical Science, Osaka University, Suita

SY2-3 **Spatial Transcriptomics using Xenium: An Exciting New Frontier**

○ Tomas Bencomo
University of Washington and Fred Hutchinson Cancer Center, Seattle

SY2-4 **Fate induction of engineered T cells through asymmetric cell division is modulated by chimeric antigen receptor co-stimulatory domains**

○ Corbett Berry[1,2], Casey Lee[1,2], Caitlin Frazee[1,2], Sisi Chen[1,2], Patrick Herman[1,2], Anna Chen[1,2], Andre Kelly[2], Roderick O'Connor[2], Christoph Ellebrecht[1,2]
[1]Department of Dermatology, University of Pennsylvania, Philadelphia, [2]Center for Cellular Immunotherapy, University of Pennsylvania, Philadelphia

SY2-5 **The impact of current non-melanoma skin cancer (NMSC) therapeutics on the cutaneous microbiome**

○ Kala K. Mahen[1,2,3], Malia Valder[4,5], William Massey[2,4], Isabel Johnston[4], Gioia Pacella[4], Naseer Sangwan[2,6], Vijay Krishna[1,7], J. Mark Brown[1,2,3], Edward Maytin[7,8], Nicole Ward[9], George Stark[1,3], Christine McDonald[3,4]
[1]Department of Cancer Biology, Lerner Research Institute, Cleveland Clinic, Cleveland, [2]Center for Microbiome and Human Health, Lerner Research Institute, Cleveland Clinic, Cleveland, [3]Department of Molecular Medicine, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Cleveland, [4]Department of Inflammation and Immunity, Lerner Research Institute, Cleveland Clinic, Cleveland, [5]Cleveland Clinic Lerner College of Medicine, Case Western Reserve University, Cleveland, [6]Department of Cardiovascular and Metabolic Sciences, Lerner Research Institute, Cleveland Clinic, Cleveland, [7]Department of Biomedical Engineering, Lerner Research Institute, Cleveland Clinic, Cleveland, [8]Department of Dermatology, Dermatology & Plastic Surgery Institute, Cleveland Clinic, Cleveland, [9]Department of Dermatology, Vanderbilt University Medical Center, Nashville

December 7, 2024, Room B

Morning Seminar 1
"Significance of early intervention with guselkumab"

8:00-9:00 Chairs: Ryuhei Okuyama, Mayumi Komine

MS1-1 **Management of Psoriatic Disease with Guselkumab**

○ Yosuke Ishitsuka
Department of Dermatology Integrated Medicine, Osaka University Graduate School of Medicine, Suita

MS1-2 **Importance of IL-23 in psoriatic arthritis and IL-23 inhibition as a disease-modifying therapy**

○ Yukie Yamaguchi
Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, Yokohama

Co-sponsored by TAIHO PHARMACEUTICAL CO., LTD./Janssen Pharmaceutical K.K.

Luncheon Seminar 6
"Sun Dermatology Seminar"

12:00-13:00 Chairs: Hideyuki Ujiie, Takeshi Nakahara

LS6-1 **Understanding the pathophysiology of inflammatory skin diseases from paradoxical reactions associated with targeted biologic agents**

○ Fumi Miyagawa
Department of Dermatology, Nara Medical University School of Medicine, Nara

LS6-2 **Pathogenesis of pustule formation: Insights from the fungal infection and pustular psoriasis**

○ Yoshio Kawakami
Department of Dermatology, Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences

Co-sponsored by Sun Pharma Japan, Limited.

Concurrent Oral Session 6
(Pigmentation and Melanoma)

14:20-15:44 Chairs: Satoshi Fukushima, Takashi Inozume

C06-01 [P12-03] **CXCL13 and CCL21 induce tertiary lymphoid structures and enhance the efficacy of immune checkpoint inhibitors in malignant melanoma**

○ Maki Yoshimitsu[1], Motoki Nakamura[1], Shinji Kano[1], Tetsuya Magara[1], Hiroshi Kato[1], Aiko Sakai[2], Masaya Sugiyama[2], Masashi Mizokami[3], Akimichi Morita[1]
[1]Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, [2]Department of Viral Pathogenesis and Controls, National Center for Global Health and Medicine, Ichikawa, [3]Genome Medical Sciences Project, National Center for Global Health and Medicine, Ichikawa

C06-02 [P12-04] **Nucleo-cytosolic acetyl-CoA drives tumor immune evasion by epigenetically regulating PD-L1 in melanoma**

○ Huina Wang, Weinan Guo, Xiuli Yi, Chunying Li
Department of Dermatology, Xijing Hospital, Fourth Military Medical University, Xi'an

C06-03 [P12-05] **Decreased serum levels of IL-4 correlate with the efficacy of the PAI-1 inhibitor in patients with anti-PD-1 antibody-refractory melanoma**

○ Emi Yamazaki, Taku Fujimura, Manami Takahashi-Watanabe, Ryo Amagai, Yumi Kambayashi, Yoshihide Asano
The Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai

C06-04 [P12-07] **Endothelial progenitors: Unlocking Tumor Vessel Normalization to Overcome Therapeutic Challenges in Melanoma**

○ Laura Sormani[1], Ghazaleh Hashemi[1], Haiming Li[1], Chenhao Zhou[1], Kwong Ching Li[1], Siu Hang Chan[1], Samuel Tan[1], Quan Nguyen[2], Edwige Roy[1], Kiarash Khosrotehrani[1]
[1]The University of Queensland, Frazer Institute, Brisbane, [2]The University of Queensland, Institute for Molecular Biology, Brisbane

C06-05 [P12-08] **Single-cell Spatial Profiling: A Bridge Between Clinical Dermatopathology And Melanoma Prognostic Modeling**

○ Nick R. Love
The Department of Dermatology, University of California at Davis, Sacramento

C06-06 [P03-07] **Targeting NEDD8-mediated neddylation: a new approach to improve melanoma treatment**

○ Leon Tsung-Ju Lee[1,2,3], Yuan-Feng Lin[1,4]

[1]Graduate Institute of Clinical Medicine, College of Medicine, Taipei Medical University, Taipei, [2]Department of Dermatology, School of Medicine, Taipei Medical University, Taipei, [3]Department of Dermatology, Taipei Medical University Hospital, Taipei, [4]Cell Physiology and Molecular Image Research Center, Wan Fang Hospital, Taipei Medical University, Taipei

C06-07 [P08-05] **Lipid Profiles and TyG Index as Predictors of Melanoma Incidence: Insights from the UK Biobank**

○ Javad Alizargar

Kashan Medical University, Isfahan

Sponsored Symposium 1
"A new treatment strategy for remission of atopic dermatitis"

15:55-17:55 Chairs: Chih-Hung Lee, Hidehisa Saeki

SSY1-1

○ Thomas Bieber[1,2]

[1]Medicine Programs at the Kühne-Foundation, Medicine Campus Davos, [2]Bieber Dermatology Consulting, Bonn

SSY1-2

○ Naoko Okiyama

Department of Dermatology, Graduate School of Medical and Dental Sciences, Institute of Science Tokyo

SSY1-3

○ Toshifumi Nomura

Department of Dermatology, Institute of Medicine, University of Tsukuba

SSY1-4

○ Saeko Nakajima

Department of Drug Discovery for Inflammatory Skin Diseases, Kyoto University Graduate School of Medicine

Co-sponsored by Eli Lilly Japan K.K

December 7, 2024, Room C

Morning Seminar 2
"IL-4 and IL-13 in Antigen Sensitization and Antibody Production Mechanisms"

8:00-9:00 Chair: Kazunari Sugita

MS2-1 **Allergen-specific IgE and IgG4 in the regulation of type 2 inflammation in atopic dermatitis**

○ Takuya Takeichi[1,2]

[1]Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, [2]Nagoya University Institute for Advanced Research, Nagoya

MS2-2 **CD4+T cell subsets associated with IgE-mediated allergic diseases**

○ Hideki Ueno[1,2,3]

[1]Department of Immunology, Graduate School of Medicine, Kyoto University, Kyoto, [2]ASHBi Institute for the Advanced Study of Human Biology, Kyoto University, Kyoto, [3]Kyoto University Immunomonitoring Center (KIC), Kyoto University, Kyoto

Co-sponsored by Sanofi K.K. Specialty Care Medical

Luncheon Seminar 7
"Immunity and Skin Disease: Effects of IL-17 Signaling"

12:00-13:00 Chairs: Akiharu Kubo, Yoshihide Asano

LS7-1 **Power of Intravital Imaging to Understand Stratum Corneum Biology in Healthy and Pathological Condition**

○ Keitaro Fukuda[1,2]

[1]Laboratory for Skin Homeostasis, RIKEN-IMS, Yokohama, [2]Department of Dermatology, Keio University School of Medicine, Tokyo

LS7-2 **Regulation of IL-17 and its therapeutic effect in palmoplantar pustulosis and psoriasis vulgaris**

○ Sei-ichiro Motegi

Department of Dermatology, Gunma University Graduate school of Medicine, Maebashi

Co-sponsored by Kyowa Kirin Co., Ltd.

Concurrent Oral Session 7
(Patient-Targeted Research/Patient Population Research)

14:20-15:44 Chairs: Yuumi Matsuoka, Carlos Clavel

C07-01 [P08-03] **Nemolizumab Improves Pruritus in Patients with Intrinsic Atopic Dermatitis Lacking Atopic Predisposition**

○ Emi Sato[1], Keita Tsutsui[1,2], Hiroki Shimizu[1], Kotaro Ito[1,3]

[1]Department of Dermatology, Fukuoka University Faculty of Medicine, Fukuoka, [2]Fukuoka Central Hospital, Fukuoka, [3]Ito Dermatology Clinic, Kitsuki

C07-02 [P09-03] **Spatially Transcriptomic Analysis Reveals Alopecia Areata-Specific Gene Expression Signatures Compared to Seborrheic Dermatitis**

○ SoHee Park

Department of Dermatology, Eunpyeong St. Marys Hospital, Seoul

C07-03 [P09-04] **Consistent PD-1 decrease in cytotoxic T cell subsets suggests treatment-resistency in rapidly progressive alopecia areata**

○ Ryo Takahashi[1], Misaki Kinoshita-Ise[2], Yoshimi Yamazaki[2], Masahiro Fukuyama[2], Manabu Ohyama[1,2]

[1]Flow Cytometry Core Facility, Kyorin University Graduate School of Medicine, Tokyo, [2]Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo

C07-04 [P09-05] **Validation of a closed-loop AI and haptic-enabled wearable device for nocturnal scratching in mild atopic dermatitis**

○ Albert F. Yang[1], Soham Patel[2,3], Keum San Chun[4], Dylan Richards[4], Jessica R. Walter[5], Kazuaki Okamoto[6], Amy S. Paller[3,7,8], Akihiko Ikoma[6], Shuai Xu[3,4,7,8,9]

[1]Department of Dermatology, University of Michigan, Ann Arbor, [2]University of Kansas School of Medicine, Kansas City, [3]Department of Dermatology, Northwestern University Feinberg School of Medicine, Chicago, [4]Sibel Health, Niles, [5]Department of Obstetrics and Gynecology, Northwestern University Feinberg School of Medicine, Chicago, [6]Maruho Co., Ltd., Osaka, [7]Department of Pediatrics (Dermatology), Northwestern University Feinberg School of Medicine, Chicago, [8]Querrey Simpson Institute for Bioelectronics, Northwestern University, Chicago, [9]Department of Biomedical Engineering, Northwestern University, Evanston

C07-05 [P09-06] **Decoding the Immune Mechanisms in Papuloerythroderma of Ofuji: Clinical and Molecular Insights**

○ Koki Kataoka[1], Fuuka Minami[1], Ryota Asahina[1,2], Satoru Yonekura[1], Saeko Nakajima[1,3], Kenji Kabashima[1,4,5]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, [2]Center for One Medicine Innovative Translational Research (COMIT), Gifu University, Gifu, [3]Department of Drug Discovery for Inflammatory Skin Diseases, Kyoto University Graduate School of Medicine, Kyoto, [4]A*STAR Skin Research Labs (A*SRL), Agency for Science, Technology and Research (A*STAR), 8A Biomedical Grove, #06-06 Immunos, Singapore, [5]Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A*STAR), 8A Biomedical Grove, Level 3 Immunos, Singapore

C07-06 [P08-01] **Prediction of disease progression in Early Severe Systemic Sclerosis: a multicenter, prospective cohort analysis**

○ Saori Uesugi-Uchida[1], Manabu Fujimoto[2], Yoshihide Asano[3], Masatoshi Jinnin[4], Takashi Matsushita[5], Sei-ichiro Motegi[6], Shinichi Sato[7], Minoru Hasegawa[1]

[1]Departments of Dermatology, University of Fukui, Fukui, [2]Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka, [3]Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, [4]Department of Dermatology, Wakayama Medical University Graduate School of Medicine, Wakayama, [5]Department of Dermatology, Faculty of Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Kanazawa, [6]Department of Dermatology, Gunma University Graduate School of Medicine, Gunma, [7]Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo

C07-07 [P08-04] **Impact of Environmental Factors on Skin Irritation Severity: Comparative Analysis of Demographics and Health Outcomes in Vietnam**

○ Bao C Bui[1], Huy Nguyen[1], Ngan K Nguyen[2]

[1]Department of Medical Science, University of Health Sciences, Ho Chi Minh City, [2]Department of Biotechnology, International University, Ho Chi Minh City

Sponsored Lecture 1
"New solution for leaving the limitation behind"

15:55-16:55 Chairs: Atsushi Otsuka, Yuichiro Tsunemi

SL1-1 **Importance of early intervention in the treatment of psoriasis and the potential of bimekizumab**

○ Masahiro Kamata

Department of Dermatology, Teikyo University School of Medicine, Tokyo

SL1-2 **New Advanced Treatment Strategies in Autoinflammatory Keratinization Diseases**

○ Ichiro Kurokawa[1,2]

[1]Department of Dermatology Acne Clinical and Research Center, Meiwa Medical Research Institute Meiwa Hospital, [2]Hyogo College of Medicine

Co-sponsored by UCB Japan Co. Ltd.

Symposium 3
"Skin aging"

17:00-18:20 Chairs: Emi Nishimura, Takeshi Matsui

SY3-1 **Combustion-derived air pollutants and their impact on skin aging: Mechanistic insights**

○ Thomas Haarmann-Stemmann

IUF- Leibniz Research Institute for Environmental Medicine, Düsseldorf

SY3-2 **Role of ER Stress in Age-Related Pigmentary Disorders: Insights into IRE1α Signaling**

○ Sang Ho Oh

Department of Dermatology, Severance Hospital, Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul

SY3-3 **Mitigating Melanocyte Aging: The Role of Metabolic and Autophagy Regulation**

○ Hee Young Kang

Department of Dermatology, Ajou University School of Medicine, Suwon

December 7, 2024, Room D

Morning Seminar 3

8:00-9:00 Chair: Shinichi Sato

MS3 **Treatment Strategies for Psoriasis Based on the Complexity Landscape in the Modern Era**

○ Akimichi Morita

Professor and Chairman, Department of Geriatric and Environmental Dermatology Nagoya City University Graduate School of Medical Sciences, Nagoya

Co-sponsored by Celltrion Healthcare Japan K.K.

Luncheon Seminar 8
"The significance of PDE4 inhibitors in psoriasis treatment"

12:00-13:00 Chairs: Kazumitsu Sugiura, Steven Thng Tien Guan

LS8-1 **Novel drug selection and treatment strategies for psoriasis as revealed by an ultra-low quantity cytokine analysis system**

○ Ayumi Yoshizaki

The University of Tokyo, Tokyo

LS8-2 **Rethinking Novel Insights and Treatment Options for Psoriasis**

○ Keiichi Yamanaka

Mie University Graduate School of Medicine, Mie

Co-sponsored by Amgen K.K.

Concurrent Oral Session 8
(Cell-Cell Interactions in the Skin/Pharmacology and Drug Development)

14:20-15:44 Chairs: Rei Watanabe, Mitsutoshi Tominaga

C08-01 [P02-10] **A potential contribution of S100A11 to skin fibrosis and pulmonary involvement in systemic sclerosis**

○ Takuya Takahashi[1], Takehiro Takahashi[1], Tetsuya Ikawa[1], Hitoshi Terui[1], Toshiya Takahashi[1], Yuichiro Segawa[1], Hayakazu Sumida[2], Ayumi Yoshizaki[2,3], Shinichi Sato[2], Yoshihide Asano[1]

[1]Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, [2]Department of Dermatology, The University of Tokyo Graduate School of Medicine, Tokyo, [3]Department of Clinical Cannabinoid Research, University of Tokyo Graduate School of Medicine, Tokyo

C08-02 [P04-03] **Single-cell RNA-seq of human dermis reveals age-associated fibroblasts and defines loss of fibroblastic identity as a hallmark of aging skin**

○ Mika Sawane[1], Tsukasa Kouno[2], Yoshinari Ando[2], Miki Kojima[2], Makiko Komata[1], Jay W. Shin[2,3], Kentaro Kajiya[1]

[1]MIRAI Technology Institute, Shiseido Co., Ltd, Yokohama, [2]IMS, RIKEN, Yokohama, [3]Genome Institute of Singapore, A*STAR, Singapore

C08-03 [P04-04] **HAS3-Derived Hyaluronic Acid Modulates Immune Responses in Atopic Dermatitis**

○ Mayuko Amagai, Takehiro Takahashi, Hitoshi Terui, Toshiki Okazaki, Tomoko Chiba, Saaya Akai, Toshiya Takahashi, Maki Ozawa, Yoshihide Asano

The Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai

C08-04 [P04-05] **Mucopolysaccharide polysulfate increases local skin blood volume through nitric oxide production**

○ Tam Kurachi, Hironobu Ishimaru, Ryo Tadakuma, Akira Koda, Yuhki Ueda, Takaaki Doi

Drug Development Research Laboratories, Kyoto R&D Center, Maruho Co., Ltd., Kyoto

C08-05 [P04-06] **IL-33 and TNFα as causes of purpura formation associated with the severity of DIHS/DRESS**

○ Shingo Takei, Ryota Hayashi, Natsumi Hama, Riichiro Abe

Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata

C08-06 [P10-02] **Role of MrgprA3-expressing primary sensory neurons in itch responses in atopic dermatitis model mice**

○ Masanori Fujii[1,2], Kyoko Fujii[2], Ryosuke Miyagawa[2], Taisei Enomoto[2], Takato Ohtsuka[2], Yuma Yasui[2]

[1]Department of Analytical Pharmacology, Faculty of Pharmacy, Meijo University, Aichi, [2]Laboratory of Pharmacology, Division of Pathological Sciences, Kyoto Pharmaceutical University, Kyoto

C08-07 [P10-03] **Advancements in Stevens-Johnson syndrome/toxic epidermal necrolysis treatment: targeting cell death pathways via Fas-Fas ligand inhibition**

○ Yuki Saito[1], Roberta Lotti[2,3], Haruna Kimura[1], Akito Hasegawa[1], Brydon Bennett[2], Antonino Amato[2], Carlo Pincell[2], Riichiro Abe[1]

[1]Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, [2]PinCell s.r.l., Milano, [3]DermoLab, University of Modena and Reggio Emilia, Modena

Social Gathering

19:20-21:00

December 8, 2024, Room A

Morning Seminar 4
"The Importance of Early Intervention For Psoriasis Treatment"

8:00-9:00 Chairs: Hideaki Tanizaki, Yukari Okubo

MS4-1 **Significance of Targeting Resident Memory T Cells and IL-23 in Psoriasis Treatment**

○ Yu Sawada

Department of Dermatology, University of Occupational and Environmental Health

MS4-2 **Early intervention in Psoriatic Disease**

○ Emi Nishida

Nagoya City University West Medical Center, Aichi

Co-sponsored by Janssen Pharmaceutical K.K./TAIHO PHARMACEUTICAL CO., LTD.

Plenary Session III

9:10-10:40 Chairs: Yayoi Tada, Paul Nghiem, Nikolas Haass

III-1 [P05-01] **Impact of SASPase Deficiency on Skin Barrier Integrity: Altered Desquamation and Acidification in the Stratum Corneum**

○ Keitaro Fukuda[1,2], Sawa Okada[1,3], Yoshihiro Ito[2], Yuki Furuichi[2], Takeshi Matsui[4], Masayuki Amagai[1,2]

[1]Skin Homeostasis, RIKEN-IMS, Yokohama, [2]Dermatology, Keio University School of Medicine, Tokyo, [3]Pharmaceutical Science, Keio University, Tokyo, [4]Evolutionary Cell Biology of the Skin, Tokyo University of Technology, Hachioji

III-2 [P06-01] **Identification of epigenetic *FDFT1*-associated porokeratosis and (epi-)genotype-phenotype correlation of porokeratosis in ～100 individuals**

○ Sonoko Saito[1], Yuki Saito[2,3], Showbu Sato[1], Satomi Aoki[1], Noriko Ono[1], Yoshihiro Ito[1], Ai Yoshioka[4], Hisato Suzuki[5], Takashi Sasaki[6], Tomoko Kawai[7], Kenichiro Hata[7,8], Kenjiro Kosaki[5], Masayuki Amagai[1], Kazuhiko Nakabayashi[7], Akiharu Kubo[1,4]

[1]Department of Dermatology, Keio University School of Medicine, Tokyo, [2]Department of Gastroenterology, Keio University School of Medicine, Tokyo, [3]Division of Molecular Oncology, National Cancer Center Research Institute, Tokyo, [4]Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe, [5]Center for Medical Genetics, Keio University School of Medicine, Tokyo, [6]Center for Supercentenarian Medical Research, Keio University School of Medicine, Tokyo, [7]Department of Maternal-Fetal Biology, National Center for Child Health and Development, Tokyo, [8]Department of Human Molecular Genetics, Gunma University Graduate School of Medicine, Maebashi

III-3 [P02-01] **Deciphering the immune mechanism of autoreactive B cells in Pemphigus Vulgaris**

○ Baptiste Janela[1], Gerome Bohelay[2,3], Gokce Oguz[4], Vipin Narang[5], Bernett Lee[1], Adaikalavan Ramasamy[4], Anne Marie Cardine[6], Vivien Hebert[7], Florent Ginhoux[5], Evan Newell[5], Pascal Joly[7], Frederic Caux[2,3], Philippe Musette[2,3]

[1]Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore, [2]Department of Dermatology and Referral Centre for Autoimmune Bullous Diseases, Avicenne Hospital, Paris, [3]Inserm UMR 1125, University Sorbonne, Paris, [4]Genome Institute of Singapore, Singapore, [5]Singapore Immunology Network, Singapore, [6]INSERM UMRS 976, Paris, [7]Inserm U1234, CHU Rouen, Rouen

III-4 [P14-01] **Transforming growth factor-β signaling-mediated wound healing is required hair follicle neogenesis**

○ Tatsuya Ogawa, Chae Ho Lim, Olivia Yeroushalmi, Priya Marella, Soung Hoon Lee, Annette Kaminaka, Mayumi Ito

The Ronald O. Perelman Department of Dermatology, NYU Grossman School of Medicine, New York

III-5 [P05-02] **Linking Intracellular Bulk Water Increase to Elevated Calcium Levels During Corneoptosis in Stratum Granulosum Cells**

○ Shota Kawanami[1], Keiichiro Shiraga[2], Yuichi Ogawa[2], Keitaro Fukuda[3,4], Masayuki Amagai[3,4], Takeshi Matsui[1,3,4]

[1]Bionics Program, Graduate School of Bionics, Computer and Media Science, Tokyo University of technology, Tokyo, [2]Graduate School of Agriculture, Kyoto University, Kyoto, [3]Center for Integrative Medical Scieces, RIKEN, Yokohama, [4]Depertment of Dermatology, Keio University School of Medicine, Tokyo

III-6 [P12-01] **Co-blockade for CD276 and PD-1 signal enhances anti-melanoma T cell response**

○ Kazuhiro Aoyama[1], Shusuke Kawashima[1], Yuka Saeki[1], Yu Kawahara[1], Takamitsu Matsuzawa[1], Noriko Saito[1], Ayako Oikawa[1], Masahito Kawazu[2], Yosuke Togashi[3], Yasuhiro Nakamura[4], Tatsuyoshi Kawamura[5], Yukiko Kiniwa[6], Osamu Yamasaki[7], Satoshi Fukushima[8], Takashi Inozume[1]

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Concurrent Oral Session 9
(Innate Immunity, Microbiology, Microbiome)

10:50-12:26 Chairs: Hiroyuki Murota, Dong Hun Lee

C09-01 [P07-02] **Ccl2+ Fibroblasts orchestrate epithelial barrier function against S.aureus**

○ Tatsuya Dokoshi, Michelle Bagood, Marcus Chan, Richard L Gallo

The department of dermatology, university of California San Diego, San Diego

C09-02 [P07-03] **Stress-experienced monocytes/macrophages lose their anti-inflammatory function via β2-adrenergic receptor in skin allergic inflammation**

○ Soichiro Yoshikawa[1,2], Hitoshi Urakami[2,3], Kei Nagao[1,2], Kensuke Miyake[4], Shuhei Sano[5], Zheyu Hu[5], Emi Nishii[5], Atsushi Fujimura[2], Takeshi Y. Hiyama[6], Keiji Naruse[7], Hajime Karasuyama[4], Mitsutoshi Tominaga[1], Kenji Takamori[1,8], Shin Morizane[3], Sachiko Miyake[5]

[1]Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Urayasu, [2]Department of Cellular Physiology, Okayama University Academic Field of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, [3]Department of Dermatology, Okayama University Academic Field of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, [4]Inflammation, Infection & Immunity Laboratory, Advanced Research Institute, Tokyo Medical and Dental University (TMDU), Tokyo, [5]Department of Immunology, Juntendo University Graduate School of Medicine, Tokyo, [6]Department of Integrative Physiology, Tottori University Graduate School and Faculty of Medicine, Yonago, [7]Department of Cardiovascular Physiology, Okayama University Academic Field of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, [8]Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu

C09-03 [P07-04] **Genetic barrier dysfunction drives skin inflammation during atopy and cutaneous pathogenic colonization**

○ Ying Shiang Lim[1], Belle Yap[1], Lifang Koh[1], Jasrie Muhammad[2], Franklin Zhong[2], John Common[1]

[1]A*STAR Skin Research Labs, Singapore, [2]Nanyang Technological University, Singapore

C09-04 [P07-05] **Cutaneous palmitic acid with some involvement from the microbiome drives acne formation through *Lrig1^{hi}* sebocytes in the hair follicle**

○ Takashi Sugihira[1,2], Seitaro Nakagawa[1,3], Manabu Fujimoto[3], Yumi Matsuoka-Nakamura[1,3,4]

[1]Cutaneous Immunology and Microbiology, Graduate School of Medicine, Osaka University, Osaka, [2]Basic Research Development Division, Rohto Pharmaceutical Co., Ltd., Kizugawa, [3]Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka, [4]Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, Osaka University, Osaka

C09-05 [P07-06] **Bacteria-derived lipopeptides inhibit the release of IL-33 in models of Atopic Dermatitis**

○ Helen Williams[1], Ryo Muko[2], Emily Wright[1], Hiroshi Matsuda[3], Akane Tanaka[2,3], Peter D Arkwright[1], Joanne L Pennock[1]

[1]Lydia Becker Institute of Immunology and Inflammation, University of Manchester, Manchester, [2]Institute of Global Innovation Research, Tokyo University of Agriculture & Technology, Tokyo, [3]Laboratories of Comparative Animal Medicine, Tokyo University of Agriculture & Technology, Tokyo

C09-06 [P07-07] **Proteomics analysis of skin microbiome: the skin flora affects the immune status via serum extracellular vesicles in atopic dermatitis**

○ Toru Kawai[1], Satoshi Muraoka[2], Masatoshi Eguchi[1], Hong Ha Nguyen[1], Shingo Takei[1], Haruna Kimura[1], Tatsuya Katsumi[1], Kouichi Tomii[1], Elena Borzova[1], Akito Hasegawa[1], Ryota Hayashi[1], Jun Adachi[2], Riichiro Abe[1]

[1]Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, [2]Laboratory of Proteomics for Drug Discovery, Center for Drug Design Research, National Institute of Biomedical Innovation, Health and Nutrition, Osaka

C09-07 [P07-08] **Identification of natural killer cells and innate lymphoid cells in human epidermis**

○ Youichi Ogawa, Takuya Sato, Shinji Shimada, Tatsuyoshi Kawamura

Department of Dermatology, University of Yamanashi, Yamanashi

C09-08 [P07-09] **TNF-α induction via linear ubiquitination in keratinocytes is associated with the pathogenesis of the imiquimod-induced psoriasis model**

○ Ken I. Kosaka[1], Satoshi Nakamizo[1], Gyohei Egawa[2], Kazuhiro Iwai[3], Kenji Kabashima[1]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, [2]Department of Dermatology, Kagoshima University, Kagoshima, [3]Department of Molecular and Cellular Physiology, Kyoto University Graduate School of Medicine, Kyoto

Luncheon Seminar 9

12:35-13:35 Chair: Ken Igawa

LS9 **Atopic dermatitis: Pathophysiology and management with Lebrikizumab**

○ Thomas Bieber[1,2]

[1]Medicine Programs at the Kühne-Foundation, Medicine Campus Davos, [2]Bieber Dermatology Consulting, Bonn

Co-sponsored by Eli Lilly Japan K.K

JSID-Asia-Oceania-Forum
"Cutting-edge and up-to-date research from Asia"

13:45-16:05 Chairs: Yumi Aoyama, Cheng-Che Eric Lan

JAOF1 **Epigenetic regulation of Skin Aging**

○ Dong Hun Lee[1,2]

[1]Department of Dermatology, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, [2]Institute of Human-Environment Interface Biology, Seoul National University, Seoul

JAOF2 **Unveiling the Chronological Gene Expression in Psoriasis: Insights into Plaque Formation and NB-UVB Therapy**

○ Jitlada Meephansan

Division of Dermatology at Chulabhorn International College of Medicine, Thammasat University, Pathumthani

JAOF3 **Cutting-edge and up-to-date research of antimicrobial photodynamic therapy in Taiwan**

○ Tak-Wah Wong

Departments of Dermatology, Biochemistry & Molecular Biology, Center of Applied Nanomedicine, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan

JAOF4 **New Paradigm in Management of Melasma**

○ Steven Thng

National Skin Centre, Singapore

JAOF5 **Targeted therapies in inflammatory skin disease, an opportunity to research disease mechanisms'**

○ Johannes S Kern[1,2]

[1]Dermatology, The School of Translational Medicine, Monash University, Melbourne, [2]Dermatology, Alfred Health, Melbourne

JAOF6 **Dermal Fat, an indispensable component of the skin's immune and regenerative system**

○ Ling-juan Zhang

State Key Laboratory of Cellular Stress Biology, School of Pharmaceutical Sciences, Xiamen University, Xiamen

December 8, 2024, Room B

Morning Seminar 5

8:00-9:00 Chair: Norito Katoh

MS5 **Basic knowledge of mast cells and the pathogenesis and treatment of chronic spontaneous urticaria**

○Tomonobu Ito

Department of Dermatology, University of Tokyo Medical University, Tokyo

Co-sponsored by Novartis Pharma K.K.

Concurrent Oral Session 10 (Carcinogenesis and Cancer)

10:50-12:26 Chairs: Masatoshi Jinnin, Motoki Nakamura

C10-01 [P03-02] **Spatial proteomic cell-cell correlation analysis reveals optimal tumor microenvironment for immunotherapy in Merkel cell carcinoma**

○Motoki Nakamura[1], Dai Ogata[2], Junji Kato[3], Maki Yoshimitsu[1], Tetsuya Magara[1], Hiroto Watanabe[1], Shinji Kano[1], Reiko Nakamura[1], Hiroshi Kato[1], Akimichi Morita[1]

[1]Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, [2]Department of Dermatologic Oncology, National Cancer Center Hospital, Tokyo, [3]Department of Dermatology, Sapporo Medical University School of Medicine, Sapporo

C10-02 [P10-04] **CDK inhibitors disrupt mRNA processing and synergize with Bcl-xL inhibitors in Merkel cell carcinoma**

○Khalid A Garman[1], Tara Gelb[1], Dimitrios Anastasakis[2], Madhu Lal Nag[3], Matthew D Hall[3], Markus Hafner[2], Isaac Brownell[1]

[1]Dermatology Branch, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Bethesda, Maryland, [2]RNA Molecular Biology Laboratory, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Bethesda, [3]National Center for Advancing Translational Sciences, National Institutes of Health, Bethesda

C10-03 [P03-03] **Genetic intratumor heterogeneity and clonal evolution in extramammary Paget's disease**

○Kenichiro Tanaka[1], Ikko Kajihara[2], Kazuro Shimokawa[3], Naotoshi Nakamura[3], Yudo Kusaba[2], Ryoko Sakamoto[2], Saki Maeda-Otsuka[2], Saori Yamada-Kanazawa[2], Soichiro Sawamura[2], Hisashi Kanemaru[2], Katsunari Makino[2], Jun Aoi[2], Shinichi Masuguchi[2], Takashi Suzuki[3], Satoshi Fukushima[2]

[1]The Department of Dermatology, Kumamoto Shinto General Hospital, Kumamoto, [2]The Department of Dermatology, Kumamoto University, Kumamoto, [3]Osaka University, Center for Mathematical Modeling and Data Science, Osaka

C10-04 [P03-04] **Ahed, a spliceosomal protein, has crucial roles in proliferation of normal keratinocytes and tumor cells**

○Mikiro Takaishi, Kozo Nakai, Shigetoshi Sano

Department of Dermatology, Kochi Medical School, Kochi University, Nankoku

C10-05 [P03-05] **Insights into T cell clonality of Mycosis Fungoides via T Cell Receptor Repertoire Analysis**

○Takashi Sakaida, Yoshifumi Kanayama, Mai Sakurai, Yuki Enomoto, Aya Yamamoto, Akimichi Morita

Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya

C10-06 [P03-06] **Novel detection and clinical utility of serum-derived extracellular vesicle in angiosarcoma**

○Jing Wang[1], Kazunori Yokoi[1], Yusuke Yoshioka[2], Rei Watanabe[3], Yasuhiro Fujisawa[4], Takahiro Ochiya[2], Atsushi Tanemura[1], Manabu Fujimoto[1]

[1]Department of Dermatology, Osaka University Graduate School of Medicine, Suita, [2]Department of Molecular and Cellular Medicine, Institute of Medical Science, Tokyo Medical University, Tokyo, [3]Department of Dermatology, Juntendo University School of Medicine, Tokyo, [4]Department of Dermatology, University of Tsukuba, Tsukuba

C10-07 [P15-02] **Circulating tumor DNA detection during immunotherapy predicts progression in Merkel cell carcinoma**

○Tomoko Akaike[1], Daniel S. Hippe[2], Song Y. Park[1], Paul Nghiem[1,2], Lisa C. Zaba[3]

[1]Department of Dermatology, University of Washington School of Medicine, Seattle, [2]Fred Hutch Cancer Center, Seattle, [3]Department of Dermatology, Stanford University School of Medicine, Palo Alto

C10-08 [P08-02] **Diagnostic scoring system for intravascular large B-cell lymphoma**

○Maho Nakashima[1], Motoi Takenaka[2], Takeharu Kato[3], Yasushi Miyazaki[4], Hiroyuki Murota[2]

[1]Department of Dermatology, Nagasaki University Hospital, Nagasaki, [2]Department of Dermatology, Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, [3]Department of Hematology, Nagasaki University Hospital, Nagasaki, [4]Department of Hematology, Atomic Bomb Disease Institute, Nagasaki University, Nagasaki

Luncheon Seminar 10

12:35-13:35 Chair: Manabu Fujimoto

LS10 **The impact of targeting IL-23 on the disease modification of psoriasis**

○ Rei Watanabe
Department of Dermatology, Faculty of Medicine, Juntendo University, Tokyo

Co-sponsored by Janssen Pharmaceutical K.K. Medical Affairs Division

Sponsored Symposium 2
"Psoriatic disease update worldwide"

13:45-15:45 Chairs: Daisuke Tsuruta, Tatsuyoshi Kawamura

SSY2-1 **Understanding the Pathogenesis of Psoriasis Based on the Disease Module Hypothesis: An Approach from Network Theory**

○ Hajime Iizuka
Research Institute of Psoriasis

SSY2-2 **Systemic Nature of Psoriatic Disease: Focus on Psoriatic Arthritis and Cardiometabolic Disease**

○ Seong Jin Jo
Seoul National University College of Medicine

SSY2-3 **Understanding of pathophysiology of PsO/PPP - similarity and difference**

○ Yayoi Tada
Teikyo University School of Medicine

SSY2-4 **Clinical management update and future therapeutics in psoriasis**

○ Eingun James Song
Clinical research for Frontier Dermatology

Co-sponsored by Amgen K.K. Medical Affairs Dept.

December 8, 2024, Room C

Morning Seminar 6
"Beyond Itch: The Multifaceted Pathogenic Effects of IL-31"

8:00-9:00 Chairs: Yozo Ishiuji, Dong Hun Lee

MS6-1 **OSM and IL-31 in Atopic Dermatitis: Their Relationship with Th2 Inflammation**

○ Masataka Suehiro

Department of Dermatology, Graduate School of Biomedical and Health Sciences, Hiroshima University, Hiroshima

MS6-2 **The Impact of IL-31 on Skin Diseases: Evolving Insights and Therapeutic Advances**

○ Kenji Kabashima

Department of Dermatology, Kyoto University Graduate School of Medicine

Co-sponsored by Maruho Co., Ltd

Concurrent Oral Session 11
(Photobiology/Skin, Appendages, and Stem Cell Biology)

10:50-12:14 Chairs: Daisuke Tsuruta, Chao-Chun Yang

C11-01 [P05-03] **Loricrin and T cell immunity: evidence from photocarcinogenesis**

○ Xinyi Wang[1], Yosuke Ishitsuka[1], Dennis R. Roop[2]

[1]University of Osaka, Osaka, [2]Department of Dermatology and Charles C. Gates Center for Regenerative Medicine, University of Colorado, Aurora

C11-02 [P11-01] **Skin Aging through the Regulation of NRIP1 and PRDM1 Associated with DNA Methylation**

○ Yidan Cui[1], Ji Hwan Moon[2], Hye Sun Shin[3], Min-Kyoung Kim[1], Dong Hun Lee[1]

[1]Department of Dermatology, Seoul National University College of Medicine, Seoul, [2]Samsung Genome Institute, Samsung Medical Center, Seoul, [3]AMOREPACIFIC Research and Innovation Center, Yongin

C11-03 [P11-02] **The Pigmentation of Blue Light is Mediated by Both Melanogenesis Activation and Autophagy Inhibition through OPN3-TRPV1**

○ Eunbi Yu, Heeseon Shin, Jongsung Lee

Department of Integrative Biotechnology, Sungkyunkwan University, Suwon

C11-04 [P13-08] **Characterization and functional analysis of dermal perivascular adipose tissue (PVAT) using single-nucleus RNA sequencing**

○ Riko Takimoto-Ito, Satoshi Nakamizo, Kenji Kabashima

The Department of Dermatology, Kyoto University graduate school of Medicine, Kyoto

C11-05 [P13-09] **An immune-adipocyte axis elicits hair regeneration by promoting adipocyte-hair follicle stem cell metabolic communication**

○ Kang-Yu Tai[1], Chih-Lung Chen[2], Wei-Hung Wang[2], Sabrina Mai-Yi Fan[3], Sung-Jan Lin[4]

[1]Genome and Systems Biology Degree Program, Academia Sinica and National Taiwan University, Taipei, [2]Department of Biomedical Engineering, National Taiwan University, Taipei, [3]Department of Medical Research, National Taiwan University Hospital, Taipei, [4]Department of Dermatology, National Taiwan University Hospital and College of Medicine, Taipei

C11-06 [P13-10] **Elucidating the role of anti-aging matrix Fibulin 7 in skin inflammatory disease psoriasis**

○ Erna Raja[1], Jun Tsunezumi[2], Karolina Edlund[3], Aiko Sada[4], Hiromi Yanagisawa[1]

[1]Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, Tsukuba, [2]Department of Pharmacy, Kyushu University of Health and Welfare, Miyazaki, [3]Leibniz Research Centre for Working Environment and Human Factors, University of Dortmund, Dortmund, [4]Medical Institute of Bioregulation, Kyushu University, Fukuoka

C11-07 [P13-11] **Multiple fetal fibroblast subpopulations differently contribute to skin architecture development**

○ Noriko Morioka[1,2], Clarisse Ganier[2], Fiona M Watt[2,3]

[1]Frontier Research Center, POLA Chemical Industries, Inc., Yokohama, [2]Centre for Gene Therapy and Regenerative Medicine, King's College London, London, [3]Directors' Unit, EMBL, Heidelberg

Luncheon Seminar 11
"Exploring the Immunological Landscape focused on resident memory T cells and the Physical Disease Burden of Psoriasis"

12:35-13:35 Chairs: Sang Ho Oh, Masatoshi Jinnin

LS11-1 **The Role of Resident Memory T cells in the Pathogenesis of Psoriatic Disease Burden**

○ Toshiharu Fujiyama
Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu

LS11-2 **Nailfold bleeding as a risk factor for psoriatic diseases and psoriatic arthritis**

○ Takemichi Fukasawa
Department of Clinical Cannabinoid Research, Graduate School of Medicine, The University of Tokyo, Tokyo

Co-sponsored by AbbVie GK

Meet the Editor

13:45-14:45 Chairs: Yutaka Shimomura, Kozo Nakai

MtE1 **Meet the Editor of Journal of Dermatological Science**

○ Shigetoshi Sano
Professor Emeritus, Kochi University, Nankoku

MtE2 **The Role of Editors in Shaping Dermatological Research: Insights from a Leading Scholar**

○ Akimichi Morita
Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya

Symposium 4
"Skin research innovation"

14:50-16:20 Chairs: Daisuke Nanba, Yukinori Okada

SY4-1 **Development of novel gene therapy for patients suffering from dystrophic epidermolysis bullosa by collaboration of academia, industry and government**

○ Katsuto Tamai
Osaka University Graduate School of Medicine, StemRIM Inc., Suita

SY4-2 **Antigen-specific immune suppression by regulatory T cells**

○ Norihisa Mikami
Department of Experimental Immunology, Immunology Frontier Research Center, Osaka University, Suita

SY4-3 **Efficacy of a Cold and Warm Simultaneous Stimulation Device for Itch Relief**

○ Kenzo Ibano[1,2], Tohru Sugahara[1,3], Yuichi Itoh[1,4], Katsunari Sato[1,5], Shintaro Izumi[1,6], Kiyono Yoshikuni[1,6]
[1]Osaka Heat Cool inc., Minoh City, [2]Graduate School of Engineering, Osaka University, Suita, [3]Faculty of Materials Science and Engineering, Kyoto Institute of Technology, Kyoto, [4]College of Science and Engineering, Aoyama Gakuin University, Tokyo, [5]Faculty of Engineering, Nara Women's University, Nara, [6]Graduate School of Science, Technology and Innovation, Kobe University, Kobe

Closing Remarks

16:20-16:25

December 8, 2024, Room D

Concurrent Oral Session 12
(Pharmacology and Drug Development/Genetic Disease, Gene Regulation and Gene Therapy)

10:50-12:26 Chairs: Atsushi Otsuka, Chih-Hung Lee

C12-01 [P10-05] **NADPH oxidase inhibitor induces type XVII collagen and inhibits senescence, both In-vitro and In-vivo**

○ Tuba Musarrat Ansary, Koji Kamiya, Md Razib Hossain, Mayumi Komine

The department of Dermatology, Jichi Medical University, Shimotsuke

C12-02 [P10-06] **Difamilast, a topical phosphodiesterase 4 inhibitor, induced CREB-mediated production of human beta defensin 3 in human keratinocytes**

○ Gaku Tsuji[1,2], Ayako Yumine[1,2], Koji Kawamura[2], Masaki Takemura[2], Kazuhiko Yamamura[1,2], Takamichi Ito[2], Makiko Kido-Nakahara[2], Takeshi Nakahara[1,2]

[1]Research and Clinical Center for Yusho and Dioxin, Kyushu University Hospital, Fukuoka, [2]Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka

C12-03 [P06-02] **Defective extracellular secretion of SERPINB7 protein in Nagashima-type palmoplantar keratosis**

○ Katsuhito Sasaki[1], Takato Sugiyama[1], Keitaro Umezawa[2], Risa Nobuta[1], Chika Tsutsumi[3], Yuri Miura[2], Ryo Ushioda[3,4], Toshifumi Nomura[1]

[1]Department of Dermatology, Institute of Medicine, University of Tsukuba, Tsukuba, [2]Research Team for Mechanism of Aging, Tokyo Metropolitan Institute of Gerontology, Tokyo, [3]Department of Molecular Biosciences, Faculty of Life Sciences, Kyoto Sangyo University, Kyoto, [4]Institute for Protein Dynamics, Kyoto Sangyo University, Kyoto

C12-04 [P06-03] **Treatment of epidermolytic ichthyosis and ichthyosis with confetti with epidermal autografts cultured from revertant skin**

○ Kana Tanahashi[1], Michihiro Kono[1,2], Takenori Yoshikawa[1], Yuika Suzuki[1], Masukazu Inoie[3], Yachiyo Kuwatsuka[4], Fumie Kinoshita[4], Takuya Takeichi[1,5], Masashi Akiyama[1]

[1]Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, [2]Department of Dermatology and Plastic Surgery, Akita University Graduate School of Medicine, Akita, [3]Japan Tissue Engineering Co., Ltd., Gamagori, [4]Department of Advanced Medicine, Nagoya University Hospital, Nagoya, [5]Nagoya University Institute for Advanced Research, Nagoya

C12-05 [P06-04] **Establishment of Porokeratosis Model Cells by Gene Editing Using the CRISPR Cas9 System**

○ Shinya Hashimoto, Ai Yoshioka, Takeshi Fukumoto, Akiko Kubo, Akiharu Kubo

Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe

C12-06 [P06-05] **ZNF750 regulates epidermal-immune crosstalk and the development of Langerhans cells**

Lotem Adar, Bar Schwartz, Liat Oss-Ronen, Roi Gazit, ○ Idan Cohen

Ben-Gurion University of the Negev, Be'er Sheva

C12-07 [P06-06] **Mutant mRNAs resulting from loss-of-function mutations in the gene encoding filaggrin are degraded by nonsense-mediated mRNA decay**

○ Risa Nobuta, Takato Sugiyama, Toshifumi Nomura

Department of Dermatology, Institute of Medicine, University of Tsukuba, Tsukuba

C12-08 [P06-07] **Pathogenic frameshift peptides form unique multi-functional droplets in ichthyosis with confetti**

○ Takato Sugiyama[1], Kazuya Matsuo[2], Risa Nobuta[1], Ruriko Endo[1], Kentaro Shiraki[3], Norifumi Shioda[2], Toshifumi Nomura[1]

[1]Department of Dermatology, Institute of Medicine, University of Tsukuba, Tsukuba, [2]Department of Genomic Neurology, Institute of Molecular Embryology and Genetics (IMEG), Kumamoto University, Kumamoto, [3]Faculty of Pure and Applied Sciences, University of Tsukuba, Tsukuba

Luncheon Seminar 12
"Returning patients to their daily lives - The usefulness of JAK inhibitors -"

12:35-13:35 Chairs: Manabu Ohyama, Kenji Kabashima

LS12-1 **Understanding alopecia areata: From the latest research to treatment advances**

○ Yohei Natsuaki

Department of Dermatology, Kurume University School of Medicine

LS12-2 **Staphylococcal agr quorum sensing system and skin microbiome : Unveiling their role in infantile atopic dermatitis**

○Yumi Matsuoka
Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, Osaka University

Co-sponsored by Pfizer Japan Inc.

Sponsored Lecture 2
"2024 La Roche-Posay Research Grant"

14:50-15:50 Chair: Akimichi Morita

SL2-1 **Integrating 1-on-1 nurse-led eczema education in dermatology visits improves outcomes, self-efficacy & satisfaction: A pilot study**

○Corinne Maiolo
myPRODERM Dermatology Clinics, City of Adelaide

SL2-2 **2-Mercaptonicotinoyl Glycine (2-MNG): A Novel Melanogenesis Inhibitor for Hyperpigmentation Disorders**

○Jun Suzuki
NIHON LOREAL K.K., Tokyo

Co-sponsored by NIHON L'ORÉAL K.K.

December 6, - December 8, Poster

Poster Presentation
2022 JSID's Fellowship Shiseido Research Grant

SE-1 **STING-mediated anti-tumor strategy by epigenetic modification**

○ Yu Sawada

Department of Dermatology, University of Occupational and Environmental Health, Kitakyushu

SE-2 **A drug screening using a FDA-approved drug library identifies selectively cytotoxic agents for angiosarcoma cells**

○ Teruki Yanagi[1,2]

[1]Department of Dermatology, Graduate School of Medicine, University of the Ryukyus, Okinawa, [2]Department of Dermatology, Faculty of Medicine and Graduate school of Medicine, Hokkaido University, Sapporo

2023 JSID's Fellowship Shiseido Research Grant

SE-3 **Analysis of homologous recombination in skin using genetically engineered mouse models**

○ Gyohei Egawa

Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto

SE-4 **Elucidating Sex Differences in Immune Response and the Molecular Mechanisms in Dermal Fibroblasts**

○ Takehiro Takahashi

Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai

Category 1 (P01): Adaptive Immunity

P01-01 [II-2] **Natural IgE production requires cognate interaction between invariant NKT cells and B cells via CD1d**

○ Akihiko Kitoh[1], Rintaro Shibuya[2], Sho Hanakawa[3], Kenji Kabashima[1,3]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, [2]Kimberly and Eric J. Waldman Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York, [3]Skin Research Labs, Agency for Science, Technology and Research (A*STAR), Singapore

P01-02 [II-3] **CD301b$^+$ cDC2 facilitate cytotoxic T lymphocytes activation within inducible skin-associated lymphoid tissue in contact dermatitis**

○ Fuuka Minami[1], Ryota Asahina[1,2], Sachiko Ono[1], Tetsuya Honda[3], Gyohei Egawa[4], Satoshi Nakamizo[1], Kenji Kabashima[1]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, [2]Center for One Medicine Innovative Translational Research (COMIT), Gifu University, Gifu, [3]Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, [4]Department of Dermatology, Kagoshima University, Kagoshima

P01-03 [C02-01] **Maintenance of dermal CD4+ tissue-resident memory T cells via lymphatic endothelial cells-derived interleukin-7**

○ Ryota Asahina[1,2], Fuuka Minami[2], Kenji Kabashima[2]

[1]Center for One Medicine Innovative Translational Research (COMIT), Gifu University, Gifu, [2]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto

P01-04 [C02-02] **Innovations in Allergen-Specific Immunotherapy for Atopic Dermatitis: The Critical Function of a Peripheral-induced Specific Treg Lineage**

○ Kelun Zhang[1,2], Su Min Kim[1,2], Hye Li Kim[1,2], Wanjin Kim[1], Yeon Woo Jung[1], Kwang Hoon Lee[1], Chang Ook Park[1,2]

[1]Department of Dermatology and Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, [2]Brain Korea 21 PLUS Project for Medical Sciences, Yonsei University College of Medicine, Seoul

P01-05 [C02-03] **Cytotoxic CD4+ T cells eliminate senescent dermal fibroblasts by targeting cytomegalovirus antigen**

○ Tatsuya Hasegawa[1,2,3], Tomonori Oka[2,3], Heehwa G. Son[2,3], Valeria S. Oliver-Garcia[2,3], Marjan Azin[2,3], Thomas M. Eisenhaure[4], David J Lieb[4], Nir Hacohen[2,4], Shadmehr Demehri[2,3]

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P01-06 [C02-04] **The expression of fatty-acid binding protein 5 in T cells of resident memory T cell-mediated skin diseases**

○ Shoichi Matsuda[1,4], Shuichi Nakai[2,4], Toshihiro Masuda[3], Rei Watanabe[4,5], Manabu Fujimoto[4]

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P01-07 [C04-05] **TRPV4 promotes cutaneous wound healing by regulating keratinocytes and fibroblasts migration and collagen production in fibroblasts in mice**

○ Bayarmaa Taivanbat, Sahori Yamazaki, Akihiko Uchiyama, Syahla Nisaa Amalia, Yuta Inoue, Mai Ishikawa, Keiji Kosaka, Yoko Yokoyama, Sachiko Ogino, Ryoko Torii, Sei-ichiro Motegi

The Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi

P01-08 [O01-01] **Transient Receptor Potential Vanilloid 4 (TRPV4) regulates type 2 inflammation and pruritus in MC903-induced atopic dermatitis mouse model**

○ Keiji Kosaka, Akihiko Uchiyama, Syahla Nisaa Amalia, Yuta Inoue, Mai Ishikawa, Yoko Yokoyama, Sachiko Ogino, Yuki Watanuki, Ryoko Torii, Sei-ichiro Motegi

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P01-09 [O01-02] **Modulation of psoriatic inflammation through autophagy activation: the role of keratinocyte-specific Rubicon inhibition in a murine model**

○ Yoichiro Urata[1], Toshiya Miyake[1], Satoshi Nakamizo[1], Rintaro Shibuya[1], Tamotsu Yoshimori[2], Kenji Kabashima[1]

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P01-10 [O01-03] **Atopic dermatitis from the perspective of B cell function**

○ Akitaka Hata, Toshiaki Kogame, Takayoshi Komatsu-Fujii, Hiroaki Takishima, Kenji Kabashima

Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto

P01-11 [O01-04] **Cell Death Mediated by Intracellular Free Iron Enhances Efficacy of Tumor Immunotherapy with TCR-T cells**

○ Daisuke Ehara[1,2], Kiyoshi Yasui[2], Mitsuhiro Yoneda[2], Sachiko Okamoto[3], Yasunori Amaishi[3], Daisuke Muraoka[4], Hiroaki Ikeda[2], Hiroyuki Murota[1]

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P01-12 [O01-05] **Spatial transcriptomic analysis of epidermal keratinocytes of the fistula lesions in hidradenitis suppurativa**

○ Ken-Ichi Hasui[1], Yoshio Kawakami[1], Yoshihiro Matsuda[1], Yohei Yasutomi[1], Himino Ashida[1], Shuta Tomida[2], Shin Morizane[1]

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P01-13 [O01-06] **CXCR6 regulates localization of CD8$^+$ tissue-resident memory T cells to the epidermis in a murine contact hypersensitivity**

○ Takahide Iioka[1], Ryota Asahina[1,2], Toshiya Miyake[1], Fuuka Minami[1], Kenji Kabashima[1]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, [2]Center for One Medicine Innovative Translational Research (COMIT), Gifu University, Gifu

P01-14 [O01-07] **Psychological stress enhances itch behavior in atopic dermatitis by increasing sensitivity of sensory nerves**

○ Kei Nagao[1,2], Soichiro Yoshikawa[1], Ryota Hashimoto[3], Toshiro Takai[4], Sumika Toyama[1], Mitsutoshi Tominaga[1], Kenji Takamori[1,5]

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P01-15 [O01-08] **Prevention of atopic dermatitis by skin and intestinal tract microbiota using DOHaD model**

○ Yukihiko Kato[1], Chiho Yanai[1], Ryo Muko[2], Yosuke Amagai[2], Yoshihiro Umebayashi[1], Rina Kurokawa[3], Wataru Suda[3], Hiroshi Matsuda[2], Akane Tanaka[2]

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P01-16 [O01-09] **Gene expression analysis of reactive lymphoid follicle-like structures in the skin of Kimura's disease**

○ Toshiaki Kogame, Takayoshi Komatsu-Fujii, Hiroaki Takishima, Akitaka Hata, Kenji Kabashima

Department of Dermatology, Kyoto University, Kyoto

P01-17 [O01-10] **Cold exposure and its impact on local skin immune responses in murine models of contact hypersensitivity**

○ Tomoya Takegami[1], Satoru Yonekura[1], Saeko Nakajima[1,2], Shuto Kanameishi[1], Koki Kataoka[1], Kenji Kabashima[1,3,4]

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P01-18 [O01-11] **Persistent anti-inflammatory effects of voluntary exercise in a mouse model of atopic dermatitis**

○ Wanchen Zhao[1], Ge Peng[1], Alafate Abudouwanli[1], Arisa Ikeda[1,2], Quan Sun[1], Mengyao Yang[1,3], Shan Wang[1,4], Hideoki Ogawa[1], Ko Okumura[1], François Niyonsaba[1,5]

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P01-19 [O01-12] **Regulatory function of B cells in contact hypersensitivity re-stimulation**

○ Yutaka Matsumura[1], Hanako Koguchi-Yoshioka[1], Rei Watanabe[2], Manabu Fujimoto[1]

[1]The Department of Dermatology, Osaka University, Suita, [2]The Department of Dermatology, Juntendo University, Tokyo

P01-20 **Topographical and chronological maturation of the skin immune barrier**

○ Zsolt Dajnoki, Aniko Kapitany, Lilla Soltesz, Viktoria Nagy, Krisztian Gaspar, Andrea Szegedi

Department of Dermatology, Faculty of Medicine, University of Debrecen, Debrecen

P01-21 [O01-13] **An investigation into Immune Cell Reactivity upon wounding**

○ Aashal B Shah

Department of Pharmacology, GMERS Medical College and Civil Hospital, Valsad, Gujarat

P01-22 **Allergic contact dermatitis activate hair follicle stem cells through macrophages**

○ Sabrina Mai-Yi Fan[1,2,3], Kai-Rong Huang[1,2], Kang-Yu Tai[5], Yu-Qian Chen[2], Yi-Shin Chou[2], Sung-Jan Lin[1,2,3,4,5]

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P01-23 **A neuronal subset in the spinal dorsal horn responsible for itch transmission in mouse models of allergic contact dermatitis and psoriasis**

○ Miho Shiratori-Hayashi[1,2], Yuto Shiraishi[3], Kensho Kanehisa[3], Konatsu Asai[3], Yukari Ibusuki[3], Kounosuke Yamakawa[3], Mitsutoshi Tominaga[1], Yoshitoshi Kasuya[2,4], Kenji Takamori[1], Makoto Tsuda[3]

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Category 2 (P02): Auto-Immunity

P02-01 [III-3] **Deciphering the immune mechanism of autoreactive B cells in Pemphigus Vulgaris**

○ Baptiste Janela[1], Gerome Bohelay[2,3], Gokce Oguz[4], Vipin Narang[5], Bernett Lee[1], Adaikalavan Ramasamy[4], Anne Marie Cardine[6], Vivien Hebert[7], Florent Ginhoux[5], Evan Newell[5], Pascal Joly[7], Frederic Caux[2,3], Philippe Musette[2,3]

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P02-02 [I-2] **Non-human reads in human WGS identify endogenous HHV-6B and blood anellovirus virome associated with autoimmune diseases and COVID-19 risk**

○ Yukinori Okada[1], Sasa Noah[1,3], Shohei Kojima[2], Rie Koide[2], Rei Watanabe[1,4], Yuumi Nakamura[1], Shinichi Imafuku[5], Yayoi Tada[6], Shinichi Sato[3], Masatoshi Jinnin[7], Tatsuyoshi Kawamura[8], Shinji Shimada[8], Shigetoshi Sano[9], Manabu Fujimoto[1], Akimichi Morita[10]

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P02-03 [C05-01] **Dermal adipogenesis protects against psoriatic skin inflammation**

○ Wenlu Zhang, Tian Xia, Rundong Wu, Xiao Hu, Rongshuang Xia, Ling-juan Zhang

State Key Laboratory of Cellular Stress Biology, School of Pharmaceutical Sciences, Xiamen University, Xiamen

P02-04 [C05-02] **Mathematical dermatology based on visual skin eruption linked to pathophysiological states in chronic spontaneous urticaria**

○ Sungrim Seirin-Lee[1,2], Yuhki Yanase[3], Daiki Matsubara[4], Takahiro Hiraga[1], Hiroshi Ishii[5], Ryo Saito[3], Shunsuke Takahagi[3,6], Michihiro Hide[3,7]

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P02-05 [C05-03] **Immunological skew in thymoma-associated multi-organ autoimmunity**

○ Manao Kinoshita, Youichi Ogawa, Takuya Sato, Shinji Shimada, Tatsuyoshi Kawamura

Department of Dermatology, University of Yamanashi, Yamanashi

P02-06 [C05-04] **Granzyme K Contributes to PAR-2 Mediated Itch Pathway of Imiquimod-Induced Psoriasis Model**

Aoi Hiroyasu[1], Beni Amatya[1], Daisuke Tsuruta[1], David J. Granville[2,3,4,5], ○Sho Hiroyasu[1,2,3,4]

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P02-07 [C05-05] **The Role of TLR7 and TLR9 in the Pathogenesis of Systemic Sclerosis**

○Chenyang Wang

The department of Dermatology, Kanazawa university, Kanazawa

P02-08 [C05-06] **Immune Shift to Enhanced Cytotoxicity of Peripheral NKG2D+ CD8 T Cells in Active Alopecia Areata**

○Doyoung Kim, Kyung Bae Chung, Ji-Hye Hwang, Eun Hye Kim

Department of Dermatology, Yonsei University College of Medicine, Seoul

P02-09 [C05-07] **The selective S1P1 receptor modulator Cenerimod ameliorates murine IMQ induced psoriasis-like skin inflammation model**

○Xibei Jia, Yasuhito Hamaguchi, Takashi Matsushita

Department of Dermatology, Faculty of Medicine, Institute of Medical Pharmaceutical and Health Science, Kanazawa University, Kanazawa

P02-10 [C08-01] **A potential contribution of S100A11 to skin fibrosis and pulmonary involvement in systemic sclerosis**

○Takuya Takahashi[1], Takehiro Takahashi[1], Tetsuya Ikawa[1], Hitoshi Terui[1], Toshiya Takahashi[1], Yuichiro Segawa[1], Hayakazu Sumida[2], Ayumi Yoshizaki[2,3], Shinichi Sato[2], Yoshihide Asano[1]

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P02-11 [O01-15] **Anti-Survival Motor Neuron (SMN) Complex Antibodies as Biomarkers for MCTD-associated ILD and PAH**

○Haruka Koizumi, Yoshinao Muro, Satoshi Kamiya, Norika Akashi, Yuta Yamashita, Mariko Momohara, Takuya Takeichi, Masashi Akiyama

The Department of Dermatology, Nagoya University, Nagoya

P02-12 [O01-16] **Circulating extracellular vesicles reflect clinical phenotypes of anti-centromere antibody-positive patients**

○Mariko Ogawa-Momohara[1], Yoshinao Muro[1], Kentaro Taki[2], Yoshihisa Nakano[3], Takashi Yokoyama[1], Takuya Takeichi[1], Masashi Akiyama[1]

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P02-13 [O01-17] **IgM autoantibody against the basement membrane zone spontaneously generated in mice**

○Chihiro Shiiya[1], Ken Muramatsu[1], Norihiro Yoshimoto[1], Sho Katayama[1], Takuya Kawamura[1], Shoko Mai[1], Yosuke Mai[1], Hiroyuki Kitahata[2], Yoichiro Fujioka[3], Ken Natsuga[1], Hiroaki Iwata[1,4], Kentaro Izumi[1], Hideyuki Ujiie[1]

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P02-14 [O01-18] **Potential Explanation for High Sensitivity of C3 in Direct Immunofluorescence for Bullous Pemphigoid**

○Dongjun Im, Kayoko Tanaka, Hiroaki Iwata

Department of Dermatology, Gifu university, Gifu

P02-15 [O01-19] **Increased Levels of Common γ-Chain Correlate with Disease Severity in Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis**

○Ayane Sakamoto, Yuko Watanabe, Izumi Moteki, Noriko Ikeda, Yukie Yamaguchi

Department of Environmental Immuno-Dermatology, Yokohama City University, Yokohama

P02-16 **Thrombospondin-1 Deficient Exacerbates the Pathogenesis of Imiquimod-Induced Psoriasis**

○Chieh-Shan Wu[1], Wen-Ho Chuo[2], Chi-Chien Lin[3]

[1]Department of Dermatology, Pingtung Veterans General Hospital, Pingtung, [2]Department of Pharmacy, Tajen University, Pingtung, [3]Institute of Biomedical Science and Rong Hsing Research Center for Translational Medicine, National Chung-Hsing University, Taichung

P02-17 [O01-20] **Role of MZB1 positive cells in the lesions of alopecia areata**

○Takayoshi Komatsu-Fujii, Toshiaki Kogame, Keigo Takase, Akitaka Hata, Kenji Kabashima

Department of Dermatology, Kyoto University, Kyoto

P02-18 [O01-21] **Mitochonic acid-5 ameliorates fibrosis and vasculopathy in a mouse model of systemic sclerosis**

○Yuichiro Segawa[1], Takehiro Takahashi[1], Takehiro Suzuki[2], Chitose Suzuki[2], Takaaki Abe[2], Yoshihide Asano[1]

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P02-19 **Atractylodin reduced the lesion severity of IMQ-induce psoriasis-like mice through inhibiting the NF-kappa B pathways**

○ Wen-Ho Chuo[1], Chieh-Shan Wu[2], Chi-Chien Lin[3]

[1]Department of Pharmacy, Tajen University, Pingtung, [2]Department of Dermatology, Pingtung Veterans General Hospital, Pingtung, [3]Institute of Biomedical Science and Rong Hsing Research Center for Translational Medicine, National Chung-Hsing University, Taichung

P02-20 [O01-22] **Fibroblast focused single cell transcriptome analysis of the lung in bleomycin-induced systemic sclerosis mouse model**

○ Aya Maekawa[1], Sho Yamazaki[3], Yuya Ouchi[3], Tomomi Kitayama[3], Takashi Shimbo[4], Ikuko Ueda[1], Manabu Fujimoto[1], Katsuto Tamai[2]

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P02-21 [O01-23] **The anti-IgE autoantibodies are biomarkers of early omalizumab response in patients with chronic spontaneous urticaria**

○ Yusuke Niwa[1,2], Koremasa Hayama[1,2], Shota Toyoshima[3], Keisuke Shimizu[1,2], Maho Tagui[1,2], Mana Ito[1,2], Tomomi Sakamoto[2], Tadashi Terui[1,2], Hideki Fujita[1,2], Yoshimichi Okayama[2,4,5,6,7]

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P02-22 [O01-24] **Establishing minimal clinically important differences (MCIDs) for the pemphigus disease area index (PDAI)**

○ Henry Tseng[1,2], Corey Stone[1,2], Boaz Shulruf[2], Dedee F. Murrell[1,2]

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P02-23 **Validation and utility of commercial envoplakin ELISA kits in detection of autoantibodies in paraneoplastic pemphigus**

○ Norito Ishii[1,2], Hiroshi Koga[1,2], Kwesi Teye[1,2], Masahiro Tsutsumi[1,2], Takekuni Nakama[1,2]

[1]Department of Dermatology, Kurume University School of Medicine, Kurume, [2]Kurume University Institute of Cutaneous Cell Biology, Kurume

P02-24 [O01-25] **Correlation of BP180, BP230, and type VII collagen antibody titers in serum, blister fluid, erosion, and saliva in pemphigoid diseases**

○ Hiroshi Koga[1], Norito Ishii[1], Masahiro Tsutsumi[1], Kwesi Teye[2], Mieko Kosaka[3], Takekuni Nakama[1]

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P02-25 [O04-01] **Basophil Histamine Release Assay in Chronic Spontaneous Urticaria: Clinical and Laboratory Insights from a Vietnamese Population**

○ My Nguyen Thi Tra[1,2], Minh Vu Nguyet[2,3], Katrine Baumann[4], My Le Huyen[3], Per Stahl Skov[4], Doanh Le Huu[2,3]

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P02-26 [O04-02] **A new murine model of human eosinophilic fasciitis: role IL-17**

○ Takashi Ito, Toshiyuki Yamamoto

Fukushima Medical University, The Department of Dermatology, Fukushima

P02-27 **IL-36 signaling and its role in systemic inflammatory skin diseases**

○ Ayaka Ichikawa, Keiichi Yamanaka

Department of Dermatology, Mie University Graduate School of Medicine, Mie

P02-28 [O04-03] **The role of RANKL in osteoporosis of IMQ-induced psoriasis mouse model**

○ Natsuko Saito-Sasaki, Yu Sawada

The Department of Dermatology, University of Occupational and Environmental health, Kitakyusyu

P02-29 [O04-04] **Siblings with neonatal lupus erythematosus**

○ Pengyue Tang

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Category 3 (P03): Carcinogenesis and Cancer

P03-01 [I-1] **The interaction between CD155 and TIGIT promotes tumor proliferation in cutaneous T-cell lymphoma**

○ Ryoma Honda[1], Naomi Takahashi-Shishido[2], Tomomitsu Miyagaki[2,3], Hikari Boki[2], Shinichi Sato[2], Makoto Sugaya[1]

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P03-02 [C10-01] **Spatial proteomic cell-cell correlation analysis reveals optimal tumor microenvironment for immunotherapy in Merkel cell carcinoma**

○ Motoki Nakamura[1], Dai Ogata[2], Junji Kato[3], Maki Yoshimitsu[1], Tetsuya Magara[1], Hiroto Watanabe[1], Shinji Kano[1], Reiko Nakamura[1], Hiroshi Kato[1], Akimichi Morita[1]

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P03-03 [C10-03] **Genetic intratumor heterogeneity and clonal evolution in extramammary Paget's disease**

○ Kenichiro Tanaka[1], Ikko Kajihara[2], Kazuro Shimokawa[3], Naotoshi Nakamura[3], Yudo Kusaba[2], Ryoko Sakamoto[2], Saki Maeda-Otsuka[2], Saori Yamada-Kanazawa[2], Soichiro Sawamura[2], Hisashi Kanemaru[2], Katsunari Makino[2], Jun Aoi[2], Shinichi Masuguchi[2], Takashi Suzuki[3], Satoshi Fukushima[2]

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P03-04 [C10-04] **Ahed, a spliceosomal protein, has crucial roles in proliferation of normal keratinocytes and tumor cells**

○ Mikiro Takaishi, Kozo Nakai, Shigetoshi Sano

Department of Dermatology, Kochi Medical School, Kochi University, Nankoku

P03-05 [C10-05] **Insights into T cell clonality of Mycosis Fungoides via T Cell Receptor Repertoire Analysis**

○ Takashi Sakaida, Yoshifumi Kanayama, Mai Sakurai, Yuki Enomoto, Aya Yamamoto, Akimichi Morita

Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya

P03-06 [C10-06] **Novel detection and clinical utility of serum-derived extracellular vesicle in angiosarcoma**

○ Jing Wang[1], Kazunori Yokoi[1], Yusuke Yoshioka[2], Rei Watanabe[3], Yasuhiro Fujisawa[4], Takahiro Ochiya[2], Atsushi Tanemura[1], Manabu Fujimoto[1]

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P03-07 [C06-06] **Targeting NEDD8-mediated neddylation: a new approach to improve melanoma treatment**

○ Leon Tsung-Ju Lee[1,2,3], Yuan-Feng Lin[1,4]

[1]Graduate Institute of Clinical Medicine, College of Medicine, Taipei Medical University, Taipei, [2]Department of Dermatology, School of Medicine, Taipei Medical University, Taipei, [3]Department of Dermatology, Taipei Medical University Hospital, Taipei, [4]Cell Physiology and Molecular Image Research Center, Wan Fang Hospital, Taipei Medical University, Taipei

P03-08 **Rapid identification of cutaneous squamous cell carcinoma using paper spray ionization mass spectrometry**

○ Yi-Hua Liao[1], Laura Min Xuan Chai[2], Yu-Hsuan Chen[2], Cheng-Chih Hsu[2]

[1]Department of Dermatology, College of Medicine, National Taiwan University, Taipei, [2]Department of Chemistry, National Taiwan University, Taipei

P03-09 [O04-05] **Basophils drive tumor progression and metastasis through Th2-polarization with IL-4 in primary cutaneous melanoma**

○ Aki Tajima[1], Naotomo Kambe[2], Izumi Kishimoto[1], Noriko Kume[1], Fumikazu Yamazaki[3], Hideaki Tanizaki[1]

[1]Department of Dermatology, Kansai Medical University, Hirakata, [2]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, [3]Department of Dermatology, Tokai University, Isehara

P03-10 [O04-06] **Tertiary lymphoid structures inhibit invasive progression and provide a better prognosis in advanced extramammary Paget's disease**

○ Tetsuya Magara, Motoki Nakamura, Maki Yoshimitsu, Shinji Kano, Hiroshi Kato, Akimichi Morita

Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya

P03-11 **Single-Cell RNA Sequencing Reveals Cellular Heterogeneity and Pathogenesis in Actinic Keratosis and Squamous Cell Carcinoma**

○ Young Bok Lee[1], Seung-Pyo Hong[2,3], Dong Soo Yu[1], Jong-Il Kim[2,3]

[1]Department of dermatology, College of medicine, The Catholic University of Korea, Uijeongbu, [2]Department of Biomedical Sciences, Seoul National University College of Medicine, Seoul, [3]Genomic Medicine Institute, Medical Research Center, Seoul National University, Seoul

P03-12 [O04-07] **High-glucose environment altered keratinocyte response to UVB irradiation: insights on photocarcinogenic resistance of diabetic skin**

○ Yang-Yi Chen[1,2], Shu-Mei Huang[3], Cheng-Che E. Lan[2,3]

[1]Graduate Institute of Clinical Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung City, [2]Department of Dermatology, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung City, [3]Department of Dermatology, College of Medicine, Kaohsiung Medical University, Kaohsiung City

P03-13 [O04-08] **Spatial Assessment of Ki67 to Stratify for MITF Phenotypes in Primary and Metastatic Melanoma**

○ Jordan D. Kumar[1], Satoru Sugihara[1], Sachit Seth[2], Gency Gunasingh[1], Loredana Spoerri[1], Cassandra Rowe[1], Helmut Schaider[1], Kiarash Khosrotehrani[1], Rupert Ecker[2], Nikolas K. Haass[1]

[1]Frazer Institute, University of Queensland, Brisbane, [2]TissueGnostics, Vienna

P03-14 [O04-09] **The dual function of antimicrobial peptides in melanoma: Perspectives from experimental and clinical research**

○ Quan Sun[1], Ge Peng[1], Wanchen Zhao[1], Alafate Abudouwanli[1], Mengyao Yang[1,2], Shan Wang[1,3], Hideoki Ogawa[1], Ko Okumura[1], François Niyonsaba[1,4]

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P03-15 [O04-10] **Body Composition, Clinical Characteristics, and Treatment Modalities as Prognostic Factors in Cutaneous Angiosarcoma**

○ Satoru Yonekura, Yuichiro Endo, Saeko Nakajima, Kenji Kabashima

Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto

P03-16 [O04-11] **Comprehensive analysis of the chemokine/cytokine profiles in advanced mycosis fungoides**

○ Manami Takahashi-Watanabe, Taku Fujimura, Emi Yamazaki, Ryo Amagai, Yumi Kambayashi, Mayuko Amagai, Toshiya Takahashi, Yoshihide Asano

The Department of Dermatology, University of Tohoku, Sendai

P03-17 [O04-12] **Prognostic Significance of STING Expression in Extramammary Paget's Disease**

○ Yoko Amagata, Natsuko Sasaki, Yu Sawada

Department of Dermatology, University of Occupational and Environmental Health, Kitakyushu

P03-18 **Upregulated expression of glucose transporter isoform 1 in invasive and metastatic extramammary Paget's disease**

○ Daiki Rokunohe[1], Mika Matsumoto[1], Takanori Sasaki[2], Yasushi Matsuzaki[1], Hajime Nakano[1], Hiroki Mizukami[2], Daisuke Sawamura[1], Eijiro Akasaka[1]

[1]Department of Dermatology, Hirosaki University, Hirosaki, [2]Department of Pathology and Molecular Medicine, Hirosaki University, Hirosaki

P03-19 [O04-13] **The accuracy of Giemsa, and methylene blue stains in Mohs surgery for basal cell carcinoma: A pilot study**

○ Phanitchanat Phusuphitchayanan[1], Apasee Sooksamran[1], Poonnawis Sudtikoonaseth[1], Titaporn Nopmaneepaisarn[2], Nutpacha Chotikawichean[2]

[1]Institute of Dermatology, Bangkok, [2]Department of Dermatology, Rajavithi Hospital, Bangkok

P03-20 **TROP2 expression and therapeutic implications in cutaneous squamous cell carcinoma**

○ Keiko Tanegashima[1], Yuka Tanaka[1], Takamichi Ito[1], Yoshinao Oda[2], Takeshi Nakahara[1]

[1]Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, [2]Department of Anatomic Pathology, Graduate School of Medical Sciences, Kyushu University, Fukuoka

P03-21 [O04-14] **Possible Association Between Melanoma from Congenital Nevus and Estrogen or Progesterone Receptor Expression: Clinicopathological Analysis**

○ Takako Tsukamoto[1], Yohei Iwata[1], Chiho Sumitomo[1,2], Kazumitsu Sugiura[1]

[1]The Department of Dermatology, Fujita Health University, Toyoake, [2]SUMITOMO SKIN CLINIC, Nagakute

P03-22 **Pretreatment neutrophil-to-lymphocyte ratio predicts survival in mucosal melanoma**

○ Yi-Shuan Sheen, Chian-Tzu Huang, Yi-Hua Liao, Chia-Yu Chu

The Department of Dermatology, National Taiwan University Hospital, Taipei

P03-23 **Functional analysis of Rap2 in tumor associated macrophage**

○ Kimiko Takei[1], Masato Umikawa[2], Yoshito Yamashiro[3], Kenzo Takahashi[1]

[1]The Department of Dermatology, University of the Ryukyus, Okinawa, [2]The Department of Medical Chemistry, University of the Ryukyus, Okinawa, [3]Department of Advanced Technologies, National Cerebral and Cardiovascular Center, Research Institute, Osaka

P03-24 **Potential role of ICAM-1 expressed on circulating melanoma cells**

○ Yukiko Kiniwa, Kenta Nakamura, Asuka Mikoshiba, Ryuhei Okuyama

Shinshu University, Matsumoto

P03-25 [O04-15] **Co-existence of oligoclonal and polyclonal HTLV-1-positive T cells successfully treated by ultraviolet B phototherapy and etretinate**

○ Kosei Nishitani[1], Satoshi Nakamizo[1], Takero Shindo[2], Yo Kaku[1], Masakazu Fujimoto[3], Masahiro Hirata[3], Kai Mizoguchi[3], Kazuhiro Kawai[4], Kenji Kabashima[1]

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P03-26 [O04-16] **A clinicopathological analysis of forkhead box A1 (FOXA1) and estrogen receptor alpha expression in extramammary Paget's disease**

○ Yuna Yamada[1], Yohei Iwata[1], Chiho Sumitomo[1,2], Kazumitsu Sugiura[1]

[1]The Department of Dermatology, Fujita Health University, Toyoake, [2]SUMITOMO SKIN CLINIC, Nagakute

P03-27 [O04-17] **Effectiveness of 5-Fluorouracil in Comparison to Other Treatments in the Reduction of Actinic Keratosis Lesions**

○ Jessica Zhuang[2,3], Valerie Yii[1], Bowen Xia[4], ZF Liu[5,6], Lawrence Lin[5], Christopher Chew[5,6,7,8]

[1]Sinclair Dermatology Investigational Research Education and Clinical Trials (DIRECT), Melbourne, [2]Faculty of Medicine, University of Melbourne, Melbourne, [3]Department of Dermatology, Royal Melbourne Hospital, Melbourne, [4]Monash Health, Melbourne, [5]Faculty of Medicine, Monash University, Melbourne, [6]Department of Dermatology, Alfred Health, Melbourne, [7]Victorian Melanoma Service, Alfred Health, Melbourne, [8]Skin Health Institute, Melbourne

P03-28 **Role of interleukin-13 in the pathogenesis of angiosarcoma**

○ Hinako Saito, Hayakazu Sumida, Okuto Iwasawa, Ayaka Sugimori, Issei Omori, Shinichi Sato

The Department of Dermatology, University of Tokyo, Tokyo

Category 4 (P04): Cell-Cell Interactions in the Skin

P04-01 [II-5] **Increased LL37 in psoriasis and rosacea promotes the uptake of low-density lipoprotein and development of atherosclerosis**

○ Yoshiyuki Nakamura[1,3], Nikhil Kulkarni[1], Tatsuya Dokoshi[1], Toshiya Takahashi[1], Elizabeth Luo[2], Haleh Alimohamadi[2], Tomofumi Numata[1], Gerard Wong[2], Richard Gallo[1]

[1]The Department of Dermatology, UC San Diego, San Diego, [2]The Department of Bioengineering, UC Los Angeles, Los Angeles, [3]The Department of Dermatology, University of Tsukuba, Tsukuba

P04-02 [I-3] **Crosstalk Between Adipocyte Lineage Cells and Mast Cells Drives Skin Inflammation and Fibrosis in Atopic Dermatitis**

○ Shujun Heng, Zhuolin Guo, Jie Li, Ling-juan Zhang

The State Key Lab of Cellular Stress Biology, School of Pharmaceutical Sciences, Xiamen University, Xiamen

P04-03 [C08-02] **Single-cell RNA-seq of human dermis reveals age-associated fibroblasts and defines loss of fibroblastic identity as a hallmark of aging skin**

○ Mika Sawane[1], Tsukasa Kouno[2], Yoshinari Ando[2], Miki Kojima[2], Makiko Komata[1], Jay W. Shin[2,3], Kentaro Kajiya[1]

[1]MIRAI Technology Institute, Shiseido Co., Ltd, Yokohama, [2]IMS, RIKEN, Yokohama, [3]Genome Institute of Singapore, A*STAR, Singapore

P04-04 [C08-03] **HAS3-Derived Hyaluronic Acid Modulates Immune Responses in Atopic Dermatitis**

○ Mayuko Amagai, Takehiro Takahashi, Hitoshi Terui, Toshiki Okazaki, Tomoko Chiba, Saaya Akai, Toshiya Takahashi, Maki Ozawa, Yoshihide Asano

The Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai

P04-05 [C08-04] **Mucopolysaccharide polysulfate increases local skin blood volume through nitric oxide production**

○ Tam Kurachi, Hironobu Ishimaru, Ryo Tadakuma, Akira Koda, Yuhki Ueda, Takaaki Doi

Drug Development Research Laboratories, Kyoto R&D Center, Maruho Co., Ltd., Kyoto

P04-06 [C08-05] **IL-33 and TNFα as causes of purpura formation associated with the severity of DIHS/DRESS**

○ Shingo Takei, Ryota Hayashi, Natsumi Hama, Riichiro Abe

Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata

P04-07 [O04-18] **Sensory re-innervation triggers ECM remodelling through the cross-talk with mast cells**

○ Moe Tsutsumi[1,2,3,4], Marta Silva e Sousa[2], Sofoklis Koudounas[2], Onur Egriboz[2], Wolfgang Funk[3], Maximilian Kueckelhaus[4], Ilaria Piccini[2], Marta Bertolini[2], Kentaro Kajiya[1]

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P04-08 [O04-19] **Serum MIF is a disease-specific marker of acquired idiopathic generalized anhidrosis**

○ Manon Okamura, Ryota Hayashi, Shingo Takei, Tatsuya Katsumi, Riichiro Abe

Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata

P04-09 [O04-20] **Bead aggregation assays with desmoglein and desmocollin for evaluation of the disease activity in pemphigus**

○ Miki Hamanaka[1], Ken Ishii[1,2], Mari Urushibata[1], Kenji Yoshida[1], Akira Ishiko[1]

[1]The Department of Dermatology, Toho University School of Medicine, Tokyo, [2]The Department of Dermatology, Tokyo Dental College Ichikawa General Hospital, Ichikawa

P04-10 **Peripheral increase of substance P impairs hippocampal synaptic plasticity and memory**

○ Kyeong-No Yoon[2,3,4], Sun Yong Kim[2,5], Jin Ho Chung[1,2,3,5,6], Yong-Seok Lee[2,5,7,8], Dong Hun Lee[1,3,4,6]

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P04-11 [O04-21] **Functional analysis of miR-4497 contained in extracellular vesicles derived from environmental stimulus-responsive keratinocytes**

○ Christopher T. Knight, Ayami Iijima, Misato Sugahara, Makiko Goto, Katsuyuki Maeno, Akira Motoyama, Masashi Miyai
Shiseido Co., Ltd., MIRAI Technology Institute, Yokohama

P04-12 [O04-22] **Secreted Phosphoprotein 1-CD44 Deficiency Promotes Melanocyte Senescence Through ROS Production**

○ Yul Hee Kim[2], So Yeon Myeong[1], Yeongeun Kim[1], Jin Cheol Kim[1], Tae Jun Park[2], Hee Young Kang[1]
[1]Department of Dermatology, Ajou University School of Medicine, Suwon, [2]Department of Biochemistry and Molecular Biology, Ajou University School of Medicine, Suwon

P04-13 **Dermal to epidermal communication is altered with aging**

○ Jean-Baptiste Grieu[1], Laurie Verzeaux[2], Clement Nivet[2], Elodie Aymard[2], Helene Muchico[2], Brigitte Closs[2]
[1]SILAB North East Asia KK., Tokyo, [2]SILAB, Brive

P04-14 [O04-23] **Proteases that activate pro-IL-36s in sterile neutrophillic pustular dermatitis**

○ Lisa Minai, Youichi Ogawa, Shinji Shimada, Tatsuyoshi Kawamura
Department of Dermatology, University of Yamanashi, Chuo

P04-15 [O04-24] **Transfection of dsDNA induces cell senescence via ATR signaling pathway in human keratinocytes**

○ Akihiro Aioi[1], Tomozumi Imamichi[2], Jun-ichi Kashiwakura[3], Emiko Okuda-Ashitaka[4]
[1]Basic Research, Septem-Soken, Osaka, [2]Frederick National Laboratory for Cancer Research, Applied and Developmental Research Directorate, Frederick, [3]Department of Life Science, Faculty of Pharmaceutical Sciences, Hokkaido University of Science, Sapporo, [4]Department of Biomedical Engineering, Osaka Institute of Technology, Osaka

P04-16 [O04-25] **The interplay of autophagy and oxidative stress in the senescence melanocytes**

○ Jin Cheol Kim[1,4], Yeongeun Kim[1,4], Sang Hyun Kim[2], Tae Jun Park[3,4], Hee Young Kang[1,4]
[1]Department of Dermatology, Ajou University School of Medicine, Suwon, [2]Department of Biomedical Science, The Graduate School, Ajou University, Suwon, [3]Department of Biochemistry and Molecular Biology, Ajou University School of Medicine, Suwon, [4]Inflamm-Aging Translational Research Center, Ajou University School of Medicine, Suwon

P04-17 **Cellular Synchronization: Key to Optimal Skin Health and Integrity**

○ Nadine Pernodet, Kelly Dong, Earl C. Goyarts
Estée Lauder Research Laboratories, NY

P04-18 **Comprehensive characterization of cells with primary cilia in Atopic dermatitis and Psoriasis**

○ Mikihito Ike[1], Manami Toriyama[1], Motoki Nakamura[2], Akimichi Morita[2], Fumitaka Fujita[3]
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Category 5 (P05): Epidermal Structure and Barrier Function

P05-01 [III-1] **Impact of SASPase Deficiency on Skin Barrier Integrity: Altered Desquamation and Acidification in the Stratum Corneum**

○ Keitaro Fukuda[1,2], Sawa Okada[1,3], Yoshihiro Ito[2], Yuki Furuichi[2], Takeshi Matsui[4], Masayuki Amagai[1,2]
[1]Skin Homeostasis, RIKEN-IMS, Yokohama, [2]Dermatology, Keio University School of Medicine, Tokyo, [3]Pharmaceutical Science, Keio University, Tokyo, [4]Evolutionary Cell Biology of the Skin, Tokyo University of Technology, Hachioji

P05-02 [III-5] **Linking Intracellular Bulk Water Increase to Elevated Calcium Levels During Corneoptosis in Stratum Granulosum Cells**

○ Shota Kawanami[1], Keiichiro Shiraga[2], Yuichi Ogawa[2], Keitaro Fukuda[3,4], Masayuki Amagai[3,4], Takeshi Matsui[1,3,4]
[1]Bionics Program, Graduate School of Bionics, Computer and Media Science, Tokyo University of technology, Tokyo, [2]Graduate School of Agriculture, Kyoto University, Kyoto, [3]Center for Integrative Medical Scieces, RIKEN, Yokohama, [4]Depertment of Dermatology, Keio University School of Medicine, Tokyo

P05-03 [C11-01] **Loricrin and T cell immunity: evidence from photocarcinogenesis**

○ Xinyi Wang[1], Yosuke Ishitsuka[1], Dennis R. Roop[2]
[1]University of Osaka, Osaka, [2]Department of Dermatology and Charles C. Gates Center for Regenerative Medicine, University of Colorado, Aurora

P05-04 [C01-01] **Three distinct ultrastructural stages of dying epidermal stratum granulosum cells during corneoptosis revealed by high-pressure freezing**

○ Takeshi Matsui[1,2,3], Ai Hirabayashi[4], Mayuko Sato[5], Kiminori Toyooka[5], Hiroyuki Sasaki[6], Masayuki Amagai[2,3]
[1]School of Bioscience and Biotechnology, Tokyo University of Technology, Tokyo, [2]RIKEN Center for Integrative Medical Sciences, Yokohama, [3]Department of Dermatology, Keio University School of Medicine, Tokyo, [4]Institute for Life and Medical Sciences, Kyoto University, Kyoto, [5]RIKEN Center for Sustainable Resource Science, Yokohama, [6]Department of Occupational Therapy, School of Rehabilitation, Tokyo Professional University of Health Sciences, Tokyo

P05-05 [C01-02] **Protective role of catestatin in a mouse model of atopic dermatitis via Notch1/PKC pathway**

○ Ge Peng[1,2,3], Wanchen Zhao[1], Alafate Abudouwanli[1], Quan Sun[1], Mengyao Yang[1,2], Shan Wang[1,3], Shigaku Ikeda[1], Hideoki Ogawa[1], Ko Okumura[1], François Niyonsaba[1,4]

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P05-06 [C01-03] **Sweating disturbance negatively affects skin barrier function and increases the risk of food allergy**

○ Hironobu Ishimaru[1,2], Yasuo Okamoto[1], Yumi Aoyama[3]

[1]Department of Pharmacology, Kawasaki Medical School, Okayama, [2]Kyoto R&D Center, Maruho Co., Ltd., Kyoto, [3]Department of Dermatology, Kawasaki Medical School, Okayama

P05-07 [C01-04] **Deep learning-based automatic topographical image assessment of skin barrier dysfunction and a cluster analysis of atopic dermatitis**

○ Kenta Nakamoto[1], Hironobu Ishimaru[1], Tatsuki Ohta[2], Tetsushi Koide[2], Yumi Aoyama[1]

[1]Dermatology, Kawasaki Medical School, Kurashiki, [2]Research Institute for Nanodevices, Hiroshima University, Higashihiroshima

P05-08 [C01-05] **How an epidermal barrier abnormality develops in diabetes mellitus: the roles of inflammation and ceramide metabolic abnormality**

Kyong-Oh Shin[1,2], Hahyn Ann[1], Yerim Choi[1,2], Karin Goto[1], Eung Ho Choi[3], ○ Yoshikazu Uchida[1], Kyungho Park[1]

[1]Hallym University, Chuncheon, [2]LaSS Inc, Chuncheon, [3]Yonsei University Wonju College of Medicine, Seoul

P05-09 [C01-06] **Overexpression of acid ceramidase in the epidermis of mice provokes atopic dry skin-like symptoms**

○ Mariko Takada[1], Miho Sashikawa-Kimura[2], Hossain Razib[2], Xiaonan Xie[1], Mayumi Komine[2], Mamitaro Ohtsuki[2], Genji Imokawa[1]

[1]Utsunomiya University, Utsunomiya, [2]Jichi Medical University, Shimotsuke

P05-10 [C01-07] **Novel insights from changes in skin surface lipidomics profile and phenotype in various age groups**

○ Kyung Eun Lee[1], Kyong-Oh Shin[2], Hyeyoun Kim[1], Hee Yeon Cho[1], Minji Kim[1], Kyungho Park[3], Seunghyun Kang[1]

[1]COSMAX BTI, Seongnam, [2]LaSS Inc, Chuncheon, [3]Hallym University, Chuncheon

P05-11 [C02-05] **Importance of integrin α6β4-plectin interaction in the physical strength of the epithelial sheet structure sustained by keratin network**

○ Yoshiaki Hirako, Kou Hashimoto, Ryosuke Asakura

Graduated School of Science, Nagoya University, Nagoya

P05-12 [O02-01] **Skin changes due to changes in enzyme-inhibitor balance induced by atopic dermatitis, aging, and environment in stratum corneum maturation**

○ Masashi Miyai[1], Akira Motoyama[1], Junichiro Hiruma[2], Mami Yamamoto[2], Ryoji Tsuboi[2], Toshihiko Hibino[1,2]

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P05-13 [O02-02] **High resolution imaging of intra-dermal distributions of cosmetic ingredients using NanoSIMS**

Keishi Kihara[1], Akira Motoyama[1], ○ Kazuhiro Matsuda[2]

[1]MIRAI Technology Institute, Shiseido Co., Ltd., Yokohama, [2]Surface Science Laboratories, Toray Research Center, Inc., Shiga

P05-14 [O02-03] **Loricrin regulates hair follicle regeneration**

○ Yosuke Ishitsuka, Xinyi Wang, Jun Akome, Manabu Fujimoto

Department of Dermatology Integrated Medicine, Osaka University Graduate School of Medicine, Suita

P05-15 [O02-04] **GPNMB is related to differentiation and cellular senescence in normal human epidermal keratinocytes**

○ Yukiko Mizutani, Rico Shimada, Kasumi Matsumoto, Miyu Gunji, Mariko Otsu, Shintaro Inoue

Department of Cosmetic Health Science, Gifu Pharmaceutical University, Gifu

P05-16 [O02-05] **Hyperosmotic stress is a cause of dry skin resulting from low humidity**

○ Hitoshi Masaki, Yukiko Izutsu-Matsumoto, Yuri Okano

CIEL Co.Ltd., Kanagawa

P05-17 [O02-06] **Effect of TNF-α, IL-17 and IL-22 on the expression of filaggerin-2 and hornerin: Analysis of a three-dimensional psoriatic skin model**

○ Teruhiko Makino[1], Megumi Mizawa[1], Keita Takemoto[1], Seiji Yamamoto[2], Tadamichi Shimizu[1]

[1]Department of Dermatology, University of Toyama, Toyama, [2]Department of Pathology, University of Toyama, Toyama

P05-18 [O02-07] **Betacellulin, a member of the EGF family, attenuates atopic dermatitis-like symptoms through EGFR signaling and autophagy activation**

○ Alafate Abudouwanli[1], Ge Peng[1], Wanchen Zhao[1], Arisa Ikeda[1,2], Quan Sun[1], Mengyao Yang[1,3], Shan Wang[1,4], Ko Okumura[1], Hideoki Ogawa[1], François Niyonsaba[1,5]

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P05-19 [O02-08] **Loricrin modulates neonatal immunity to prevent atopic march**

○ Jun Akome, Yosuke Ishitsuka, Xinyi Wang, Manabu Fujimoto

Department of Dermatology Integrated Medicine, Osaka University Graduate School of Medicine, Suita

P05-20 [C02-06] **The impact of exposome on skin barrier integrity and cellular senescence**

○ Eun Jung Lee[1], Jong Ho Park[2], Hye-Won Na[3], Ji Young Kim[1], Seohyun Park[1], Yu Jeong Bae[1], Shinwon Hwang[1], Il Joo Kwon[1], Hyoung-June Kim[3], Hae Kwang Lee[2], Sang Ho Oh[1]

[1]The Department of Dermatology, Yonsei University College of Medicine, Seoul, [2]P&K Skin Research Center, Seoul, [3]AMOREPACIFIC Research and Innovation Center, Yongin

P05-21 [O02-09] **Soothing benefits of Centella asiatica extract**

○ Yan Wu[1,2], Binwei Deng[2], Jian (Richard) Cao[2], Nadine Pernodet[3]

[1]Dr. Jart+, Asia Advanced Technology Pioneering, Shanghai, [2]Estée Lauder Companies R&D, Asia Innovation Center, Shanghai, [3]R&D, The Estée Lauder Companies, NY

P05-22 **Elucidation of the pathogenesis of atopic dermatitis focusing on the IL-33-regulatory T-cell axis**

○ Sumika Toyama[1], Soichiro Yoshikawa[1], Yayoi Kamata[1], Mitsutoshi Tominaga[1], Kenji Takamori[1,2]

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P05-23 **Immature differentiation of keratinocytes leads to horny thickening by degraded expression of steroid sulfatase**

○ Masaki Yoshida[1], Yuzuki Ineyama[1], Sora Muraoka[1], Shota Koya[1], Yuka Ishii[1], Rena Yamamoto[1], Hitoshi Masaki[2], Nobuo Nagai[3]

[1]School of Bioscience and Biotechnology, Tokyo University of Technology, Hachioji, Tokyo, [2]CIEL CO., LTD., Sagamihara, Kanagawa, [3]Nagahama Institute of Bio-science and Technology, Nagahama, Shiga

P05-24 **Fucosylation Deficiency Enhances Imiquimod-induced Psoriasis-Like Skin Inflammation By Promoting CXCL1 Expression**

○ Youngae Lee, Na Li, Joong Heon Suh, Jang-Hee Oh, Seon-Pil Jin, Dong Hun Lee, Jin Ho Chung

Department of Dermatology, Seoul National University College of Medicine, Seoul

P05-25 [O02-10] **Analyses of genes related to epidermal hyperplasia**

○ Tomohiro Tobita[1], Mitsutoshi Tominaga[1], Kenji Takamori[1,2]

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P05-26 **Putative roles of lipoxygenases in antioxidant barrier function of psoriasis and dermatitis**

○ Hyunjung Kim, Sungwoo Kim, Jihye Maeng, Joomi Yu

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P05-27 **Berberine, a Natural Alkaloid, Prevents Skin Aging by Up-Regulating Mitochondrial Ubiquitin Ligase MITOL/MARCH5**

○ Takeshi Tokuyama[1], Shigeru Yanagi[2]

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P05-28 **A role of repetin in cornification and barrier formation in human epidermis**

○ Megumi Mizawa[1], Teruhiko Makino[1], Keita Takemoto[1], Seiji Yamamoto[2], Tadamichi Shimizu[1]

[1]Department of Dermatology, Faculty of Medicine, Academic Assembly, University of Toyama, Toyama, [2]Department of Pathology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama

P05-29 **Calcitriol, an active form of vitamin D3, improves dermatitis in NC/Nga mice with atopic dermatitis**

○ Yoshie Umehara[1], Ge Peng[1], Ko Okumura[1], Hideoki Ogawa[1], François Niyonsaba[1,2]

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P05-30 **Optimizing Topical Cannabinoid Dosing in Chronic Plaque Psoriasis: A Machine Learning Approach**

○ Andi N. A. Ureng[1], Rifaldy Fajar[2], Prihantini Prihantini[3], Sahnaz V. Putri[4]

[1]Department of Pharmacy, Andini Persada College of Health Sciences, Mamuju, [2]Computational Biology and Medicine Laboratory, Yogyakarta State University, Sleman, [3]Machine Learning for BioMedicine Laboratory, Bandung Institute of Technology, Bandung, [4]Health Management Laboratory, International University Semen Indonesia, Gresik

P05-31 **Effect of heparinoid and phospho-pyridoxal on improving the function of tight junction**

○ Hiroki Sakamoto[1,2], Momoyo Nishikawa[1], Ryota Asahina[2,3], Gyohei Egawa[2,4], Seigo Yamada[1], Yoshiyuki Obayashi[1], Kenji Kabashima[2]

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P05-32 **Efficacy of hyaluronan tetrasaccharides on the synthesis of natural moisturizing factors in keratinocytes**

○Harumi Annaka, Madoka Kage, Yutaka Takagi
Josai University, Graduate School of Pharmaceutical Sciences, Sakado

P05-33 **Characterisation of natural moisturising factors levels in atopic dermatitis patients**

○Stephen Wearne[1], Ruo Yan Ong[1], Sze Han Lee[1], James Chan[1,2], John Common[1]
[1]A*STAR Skin Research Labs, Agency for Science Technology and Research, Singapore, [2]Singapore Institute of Food and Biotechnology Innovation, Agency for Science Technology and Research, Singapore

P05-34 [O02-11] **Nonsense variant in CYP4F22 causes loss of the corneocyte lipid envelope in lamellar ichthyosis**

○Ryo Fukaura, Kana Tanahashi, Michiya Omi, Takuya Takeichi, Masashi Akiyama
Nagoya University Graduate School of Medical Sciences, Department of Dermatology, Nagoya

P05-35 **Comparison of in vitro 3D human skin models reconstructed with different dermal matrices**

○Khek-Chian Tham[1], Seong Soo Lim[1], John E.A. Common[1], Carine Bonnard[1,2]
[1]A*STAR Skin Research Labs (A*SRL), Agency for Science, Technology and Research (A*STAR), Singapore, [2]Skin Research Institute of Singapore (SRIS), Singapore

P05-36 **Elucidation of microscopic characteristics of stratum corneum**

Yasuko Obata[1], ○Shu Mao[1], Ikki Shibasaki[1], Yuri Ikeuchi-Takahashi[1], Kenya Ishida[2]
[1]Hoshi University, Tokyo, [2]Takasago International Corporation, Kanagawa

P05-37 **Hyaluronan tetrasaccharides delays the induction of murine epidermal abnormality caused by topically applied imiquimod**

○Ayumi Taniguchi, Madoka Kage, Yutaka Takagi
Josai University, Graduate School of Pharmaceutical Sciences, Sakado

P05-38 **Deciphering scalp stiffness: characterization of extracellular matrix component distribution in male androgenetic alopecia**

○Criselda Jean G. Cruz[1,2,3], I-Tzu Lai[1], Yi-Han Chang[1,2], Chao-Chun Yang[1,2]
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P05-39 **TRPV4 expression in atopic dermatitis and the effect by osmotic stress**

○Atsuko Kamo[1], Mao Hotta[2], Mitsutoshi Tominaga[2], Kenji Takamori[2,3]
[1]Laboratory of Clinical Pathophysiology, Juntendo University Graduate School of Health Care and Nursing, Urayasu, Chiba, [2]Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate school of Medicine, Urayasu, Chiba, [3]Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu, Chiba

P05-40 **Epidermal keratinocytes secrete hyaluronidase 1 (HYAL1) and regulate hyaluronan metabolism in an extracellular pH-dependent manner**

○Risa Takezawa[1], Manami Masuda[1], Minori Abe[1,2], Megumi Miyazawa[1], Shintaro Inoue[1], Yukiko Mizutani[1]
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Category 6 (P06): Genetic Disease, Gene Regulation and Gene Therapy

P06-01 [III-2] **Identification of epigenetic *FDFT1*-associated porokeratosis and (epi-)genotype-phenotype correlation of porokeratosis in ～100 individuals**

○Sonoko Saito[1], Yuki Saito[2,3], Showbu Sato[1], Satomi Aoki[1], Noriko Ono[1], Yoshihiro Ito[1], Ai Yoshioka[4], Hisato Suzuki[5], Takashi Sasaki[6], Tomoko Kawai[7], Kenichiro Hata[7,8], Kenjiro Kosaki[5], Masayuki Amagai[1], Kazuhiko Nakabayashi[7], Akiharu Kubo[1,4]
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P06-02 [C12-03] **Defective extracellular secretion of SERPINB7 protein in Nagashima-type palmoplantar keratosis**

○Katsuhito Sasaki[1], Takato Sugiyama[1], Keitaro Umezawa[2], Risa Nobuta[1], Chika Tsutsumi[3], Yuri Miura[2], Ryo Ushioda[3,4], Toshifumi Nomura[1]
[1]Department of Dermatology, Institute of Medicine, University of Tsukuba, Tsukuba, [2]Research Team for Mechanism of Aging, Tokyo Metropolitan Institute of Gerontology, Tokyo, [3]Department of Molecular Biosciences, Faculty of Life Sciences, Kyoto Sangyo University, Kyoto, [4]Institute for Protein Dynamics, Kyoto Sangyo University, Kyoto

P06-03 [C12-04] **Treatment of epidermolytic ichthyosis and ichthyosis with confetti with epidermal autografts cultured from revertant skin**

○ Kana Tanahashi[1], Michihiro Kono[1,2], Takenori Yoshikawa[1], Yuika Suzuki[1], Masukazu Inoie[3], Yachiyo Kuwatsuka[4], Fumie Kinoshita[4], Takuya Takeichi[1,5], Masashi Akiyama[1]

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P06-04 [C12-05] **Establishment of Porokeratosis Model Cells by Gene Editing Using the CRISPR Cas9 System**

○ Shinya Hashimoto, Ai Yoshioka, Takeshi Fukumoto, Akiko Kubo, Akiharu Kubo

Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe

P06-05 [C12-06] **ZNF750 regulates epidermal-immune crosstalk and the development of Langerhans cells**

Lotem Adar, Bar Schwartz, Liat Oss-Ronen, Roi Gazit, ○ Idan Cohen

Ben-Gurion University of the Negev, Be'er Sheva

P06-06 [C12-07] **Mutant mRNAs resulting from loss-of-function mutations in the gene encoding filaggrin are degraded by nonsense-mediated mRNA decay**

○ Risa Nobuta, Takato Sugiyama, Toshifumi Nomura

Department of Dermatology, Institute of Medicine, University of Tsukuba, Tsukuba

P06-07 [C12-08] **Pathogenic frameshift peptides form unique multi-functional droplets in ichthyosis with confetti**

○ Takato Sugiyama[1], Kazuya Matsuo[2], Risa Nobuta[1], Ruriko Endo[1], Kentaro Shiraki[3], Norifumi Shioda[2], Toshifumi Nomura[1]

[1]Department of Dermatology, Institute of Medicine, University of Tsukuba, Tsukuba, [2]Department of Genomic Neurology, Institute of Molecular Embryology and Genetics (IMEG), Kumamoto University, Kumamoto, [3]Faculty of Pure and Applied Sciences, University of Tsukuba, Tsukuba

P06-08 [O02-13] ***MEFV* variants are a predisposing factor for generalized pustular psoriasis**

○ Takenori Yoshikawa[1], Takuya Takeichi[1], Kazuki Nishida[2], Yumiko Kobayashi[2], Kazumitsu Sugiura[3], Yoshinao Muro[1], Masashi Akiyama[1]

[1]Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, [2]Department of Advanced Medicine, Nagoya University Hospital, Nagoya, [3]Department of Dermatology, Fujita Health University School of Medicine, Toyoake

P06-09 [O02-14] **mTORC1 activation of somatostatin-expressing neurons in cortical layer 5 contribute epileptogenesis in tuberous sclerosis complex**

○ Fumiki Yamashita[1], Makiko Koike-Kumagai[1], Manabu Fujimoto[2], Mari Wataya-Kaneda[1,2]

[1]Department of Neurocutaneous Medicine, Division of Health Sciences, Graduate School of Medicine, Osaka University, Osaka, [2] Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka

P06-10 [O02-15] **Mechanism behind farnesyltransferase inhibitor mediated amelioration of Hutchinson-Gilford progeria is applicable to other laminopathies**

○ Mattheus Xing Rong Foo, Peh Fern Ong, Oliver Dreesen

Cell Aging, A*STAR Skin Research Labs, Skin Research Institute of Singapore, A*STAR, Singapore

P06-11 [O02-16] **Identification and characterization of a novel 3.96 kb deletion spanning exons 3 and 4 of *ATP2C1* in a patient with Hailey-Hailey disease**

○ Kwesi Teye[1], Hiroshi Koga[2], Masahiro Tsutsumi[2], Norito Ishii[2], Takahiro Hamada[2], Takekuni Nakama[2]

[1]Kurume University Institute of Cutaneous Cell Biology, Kurume, [2]Department of Dermatology, Kurume University School of Medicine, Kurume

P06-12 [O02-17] **The integration of phenotype, genotype, and epigenetic analysis in tuberous sclerosis complex**

○ Emi Kaneda[1], Hanako Koguchi-Yoshioka[1,2], Satoshi Hattori[3], Keisuke Nimura[4], Saki Ishino[5], Manabu Fujimoto[1], Mari Wataya-Kaneda[1,2]

[1]The Department of Dermatology, Osaka University, Suita, [2]The Department of Neurocutaneous Medicine, Osaka University, Suita, [3]The Department of Biomedical Statistics, Osaka University, Suita, [4]The Division of Gene Therapy Science, Osaka University, Suita, [5]The CoMIT Omics Center, Osaka University, Suita

P06-13 [O02-18] **Three cases of non-hereditary solitary porokeratosis of Mibelli exhibiting lesion-specific biallelic somatic defects in *FDFT1***

○ Ai Yoshioka[1], Sonoko Saito[2], Satomi Aoki[2], Hiroaki Hanafusa[3], Takashi Seo[4], Ken Natsuga[4], Kazuhiko Nakabayashi[5], Masayuki Amagai[2], Takeshi Fukumoto[1], Akiko Kubo[1], Akiharu Kubo[1,2]

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P06-14 **Withdrawn**

P06-15 [O02-19] **Two cases of Hailey-Hailey disease with novel pathogenic ATP2C1 variants suggesting possible genotype/phenotype correlations**

○ Michiya Omi[1], Takuya Takeichi[1,2], Yasutoshi Ito[1,3], Takenori Yoshikawa[1], Yuki Mizutani[4,5], Miki Nagai[4], Mariko Seishima[6,7], Tomoo Ogi[8,9], Yoshinao Muro[1], Masashi Akiyama[1]

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P06-16 [O02-20] **Methotrexate Reduces Pruritus in Patients with Recessive Dystrophic Epidermolysis Bullosa**

○ Hsin Yu Huang[1,5], Wilson Jr F. Aala[2], Yi-Kai Hong[1,4], Alexandros Onoufriadis[3], John A. McGrath[1,3], Chao-Kai Hsu[1,2,4]

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P06-17 [O02-21] **Genetic association between palmoplantar pustulosis and HLA polymorphisms**

○ Nobuhiro Takahashi[1,2], Tomomichi Shimizu[1], Akio Kondoh[1], Fumikazu Yamazaki[1], Shingo Suzuki[2], Takahi Shiina[2], Tomotaka Mabuchi[1]

[1]Tokai University School of Medicine, Isehara, [2]Department of Basic Medical Science and Molecular Medicine, Tokai University School of Medicine, Isehara

P06-18 **Efficacy of Asymmetric siRNA Targeting Androgen Receptors for the Treatment of Androgenetic Alopecia**

○ Ik Jun Moon[1], Hae Kyeong Yoon[2], Doyeun Kim[3], Myung Eun Choi[1], Seung Hee Han[2], June Hyun Park[3], Sun Woo Hong[3], Hyesoo Cho[1], Dong Ki Lee[3,4], Chong Hyun Won[1,2]

[1]Department of Dermatology, Asan Medical Center, Seoul, [2]Asan Institute for Life Sciences, Asan Medical Center, Seoul, [3]OliX Pharmaceuticals, Suwon, [4]Department of Chemistry, Sungkyunkwan University, Suwon

P06-19 **The Effect of Epigenetic Changes due to Particle Matter on the Development and exacerbation of Atopic Dermatitis**

Yoon Jin Roh, ○ Do Yeon Kwon, Hye Won Song, Seung Hyeon Kim, Jun Seok, Mi-Kyung Lee, Kui Young Park

Chung-Ang University Dermatology, Seoul

P06-20 **IL1F10 (IL-38) Role in Skin Inflammation: Establishing an In Vitro Model *via* CRISPR/Cas9 system and Evolutionary Insights**

○ Shino Fujimoto, Akihiko Yamaguchi, Toshifumi Takahashi, Akiko Arakawa, Noriki Fujimoto

Department of Dermatology, Shiga University of medical science, Otsu

P06-21 [O02-22] **Withdrawn**

Category 7 (P07): Innate Immunity, Microbiology, Microbiome

P07-01 [II-6] **Constipation-Induced Gut Dysbiosis Aggravates Acne: Insights from a Novel Mouse Model Revealing Mechanisms of the Gut-Skin Axis**

○ Masakazu Tamai[1], Takashi Sugihira[1], Seitaro Nakagawa[1], Shuo Li[2], Manabu Fujimoto[1], Yumi Matsuoka-Nakamura[1,2]

[1]Department of Dermatology, Graduate School of Medicine, Osaka University, Suita, [2]Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, Osaka University, Suita

P07-02 [C09-01] **Ccl2+ Fibroblasts orchestrate epithelial barrier function against S.aureus**

○ Tatsuya Dokoshi, Michelle Bagood, Marcus Chan, Richard L Gallo

The department of dermatology, university of California San Diego, San Diego

P07-03 [C09-02] **Stress-experienced monocytes/macrophages lose their anti-inflammatory function via β2-adrenergic receptor in skin allergic inflammation**

○ Soichiro Yoshikawa[1,2], Hitoshi Urakami[2,3], Kei Nagao[1,2], Kensuke Miyake[4], Shuhei Sano[5], Zheyu Hu[5], Emi Nishii[5], Atsushi Fujimura[2], Takeshi Y. Hiyama[6], Keiji Naruse[7], Hajime Karasuyama[4], Mitsutoshi Tominaga[1], Kenji Takamori[1,8], Shin Morizane[3], Sachiko Miyake[5]

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P07-04 [C09-03] **Genetic barrier dysfunction drives skin inflammation during atopy and cutaneous pathogenic colonization**

○ Ying Shiang Lim[1], Belle Yap[1], Lifang Koh[1], Jasrie Muhammad[2], Franklin Zhong[2], John Common[1]

[1]A*STAR Skin Research Labs, Singapore, [2]Nanyang Technological University, Singapore

P07-05 [C09-04] **Cutaneous palmitic acid with some involvement from the microbiome drives acne formation through *Lrig1^{hi}* sebocytes in the hair follicle**

○ Takashi Sugihira[1,2], Seitaro Nakagawa[1,3], Manabu Fujimoto[3], Yumi Matsuoka-Nakamura[1,3,4]

[1]Cutaneous Immunology and Microbiology, Graduate School of Medicine, Osaka University, Osaka, [2]Basic Research Development Division, Rohto Pharmaceutical Co., Ltd., Kizugawa, [3]Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka, [4]Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, Osaka University, Osaka

P07-06 [C09-05] **Bacteria-derived lipopeptides inhibit the release of IL-33 in models of Atopic Dermatitis**

○ Helen Williams[1], Ryo Muko[2], Emily Wright[1], Hiroshi Matsuda[3], Akane Tanaka[2,3], Peter D Arkwright[1], Joanne L Pennock[1]

[1]Lydia Becker Institute of Immunology and Inflammation, University of Manchester, Manchester, [2]Institute of Global Innovation Research, Tokyo University of Agriculture & Technology, Tokyo, [3]Laboratories of Comparative Animal Medicine, Tokyo University of Agriculture & Technology, Tokyo

P07-07 [C09-06] **Proteomics analysis of skin microbiome: the skin flora affects the immune status via serum extracellular vesicles in atopic dermatitis**

○ Toru Kawai[1], Satoshi Muraoka[2], Masatoshi Eguchi[1], Hong Ha Nguyen[1], Shingo Takei[1], Haruna Kimura[1], Tatsuya Katsumi[1], Kouichi Tomii[1], Elena Borzova[1], Akito Hasegawa[1], Ryota Hayashi[1], Jun Adachi[2], Riichiro Abe[1]

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P07-08 [C09-07] **Identification of natural killer cells and innate lymphoid cells in human epidermis**

○ Youichi Ogawa, Takuya Sato, Shinji Shimada, Tatsuyoshi Kawamura

Department of Dermatology, University of Yamanashi, Yamanashi

P07-09 [C09-08] **TNF-α induction via linear ubiquitination in keratinocytes is associated with the pathogenesis of the imiquimod-induced psoriasis model**

○ Ken I. Kosaka[1], Satoshi Nakamizo[1], Gyohei Egawa[2], Kazuhiro Iwai[3], Kenji Kabashima[1]

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P07-10 [O02-23] **Comprehensive metagenomic analysis of axillary microbiota in Japanese male subjects with axillary osmidrosis**

○ Miki Watanabe[1,2], Miho Uematsu[2], Kosuke Fujimoto[2], Daisuke Tsuruta[1], Satoshi Uematsu[2]

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P07-11 [O02-24] **Investigation into the inflammatory cascade of secondary disease in dystrophic epidermolysis bullosa using spatial transcriptomics**

○ Yoshio Kawakami[1], Ken-Ichi Hasui[1], Yoshihiro Matsuda[1], Yohei Yasutomi[1], Himino Ashida[1], Ai Kajita[1], Yoji Hirai[1], Keiji Iwatsuki[1], Shuta Tomida[2], Shin Morizane[1]

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P07-12 [O02-25] **Skin keratinocytes expressing mutation in the Cx26 gene cause susceptibility to chronic cutaneous candidiasis**

○ Alshimaa Mostafa[1], Teruasa Murata[1,2], Akihiko Kitoh[1], Hiromi Doi[1], Gyohei Egawa[1,3], Kenji Kabashima[1]

[1]The Department of Dermatology, Kyoto University, Kyoto, [2]Department of Dermatology, Hyogo Medical University, Hyogo, [3]Department of Dermatology, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima

P07-13 [O05-01] **Synergistic Effects of Western Diet and Blue LED Light on Itch and Neural Inflammation in Mice**

○ Wei-Tai Yu[1,2,3,4], Hsin-Su Yu[5,6]

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P07-14 [O05-02] **Enhanced Antioxidant Activity in Multinucleated Giant Cells within Granulomas**

○ Satoshi Nakamizo[1,2], Kenji Kabashima[1]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, [2]Alliance Laboratory for Advanced Medical Research, Kyoto University Graduate School of Medicine, Kyoto

P07-15 [O05-03] **Characteristics of gene expression and microbiota in tonsils of patients with palmoplantar pustulosis and pustulotic arthro-osteitis**

○ Satomi Kobayashi[1], Hideki Nakagawa[2], Masato Komai[3]

[1]Department of Dermatology, Seibo International Catholic Hospital, Tokyo, [2]Department of Otolaryngology, Seibo International Catholic Hospital, Tokyo, [3]Research Unit, R&D division, Kyowa Kirin Co., Ltd., Shizuoka

P07-16 [O05-04] **Regnase-1 3'UTR mutant mice develop psoriasis like dermatitis with Köbner phenomenon**

○ Hiroyuki Morisaka[1], Kazuhiko Maeda[2,3], Manabu Fujimoto[4], Shizuo Akira[2,3]

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P07-17 [O05-05] **Squaric acid dibutylester promotes innate immune-driven hair growth with CD206$^+$ macrophage accumulation**

○ Koichi Tomii[1,2], Tomoya Katakai[2], Riichiro Abe[1]

[1]Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, [2]Department of Immunology, Niigata University Graduate School of Medical and Dental Sciences, Niigata

P07-18 [O05-06] **Purinergic molecules in murine bone marrow-derived mast cells**

○ Takuya Sato, Youichi Ogawa, Shinji Shimada, Tatsuyoshi Kawamura

Department of Dermatology, University of Yamanashi, Chuo

P07-19 [O05-07] **Microbiome Disruptions, Inflammation, and JAK/STAT Signaling in Southeast Asian Ichthyosis Patients: Implications for Antibiotic Treatment**

Ngan K Nguyen[1], Minh Ho[3], ○ Bao C Bui[2]

[1]Department of Omics, International University, Ho Chi Minh, [2]University of Health Sciences, Vietnam National University, Ho Chi Minh, [3]Department of Dermatology, Yale School of medicine, New Haven

P07-20 **Decoding the Impact of Air Pollution on Rosacea Exacerbations through Machine Learning and Transcriptomic Integration**

○ Rifaldy Fajar[1], Elfiany Evy[2], Sahnaz V. Putri[3], Prihantini Prihantini[4]

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P07-21 **Predicting Well-Being in Psoriasis Patients with Wearable Biometrics and Microbiome Analysis Using Machine Learning**

○ Sahnaz V. Putri[1], Rifaldy Fajar[2], Prihantini Prihantini[3], Andi N. A. Ureng[4], Elfiany Evy[5]

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P07-22 [O05-08] **Papain protease activity on SDS-treated skin is essential to skin inflammation and Th17/Th22 induction but dispensable to Th2 induction**

○ Sakiko Maruyama[1,2], Keiko Takada[1,2], Tomoko Yoshimura[1,2], Shuntaro Ishihara[1,2], Mengnan Chen[2], Seiji Kamijo[2], Saya Shimizu[2], Mitsutoshi Tominaga[3], Kenji Takamori[3], Hideoki Ogawa[1], Ko Okumura[2], Shigaku Ikeda[1], Rei Watanabe[1], Toshiro Takai[2]

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P07-23 **Successful isolation of efficient bacteriophages against Escherichia coli strains detected from patients hospitalized in our hospital**

○ Junko Nishikawa[1], Junko Okano[2], Toshifumi Takahashi[1], Takahiko Nakagawa[3], Hideto Kojima[4], Noriki Fujimoto[1]

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P07-24 **Involvement of PARP1 in IL-36-induced inflammatory responses in skin keratinocytes**

○ Nan-Lin Wu[1,2,3], Pa-Fan Hsiao[1,2], Ling-Ya Chiu[3,4,5], Yi-Ting Huang[5], Jen-Yu Wang Wang[1,2], Te-An Lee Lee[6]

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P07-25 [O05-09] **Epicutaneous papain application on intact or tape-stripped skin induces protease activity-dependent acute itch and Th sensitization**

○ Shuntaro Ishihara[1,2], Toru Kimitsu[1,2], Seiji Kamijo[2], Yurie Masutani[1,2], Tomoko Yoshimura[1,2], Saya Shuimizu[2], Keiko Takada[1,2], Mengnan Chen[2], Sakiko Maruyama[1,2], Hideoki Ogawa[1], Ko Okumura[2], Rei Watanabe[1], Shigaku Ikeda[1], Toshiro Takai[2]

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P07-26 **ICG-001 prevents the emergence of atopic dermatitis but not psoriasis in mouse models**

○ Takashi Sakai, Yuriko Sho, Haruna Matsuda-Hirose, Yutaka Hatano

Department of Dermatology, Faculty of Medicine, Oita University, Yufu

P07-27 **Alterations in Scalp Microorganisms after Er: YAG Laser Treatment for Eastern Asian Androgenetic Alopecia Patients via 16S Sequencing**

○ Jinfang Liu[1], Guangpeng Liu[1], Yongxian Lai[2]

[1]Department of Plastic and Reconstructive Surgery, Shanghai Tenth People's Hospital, School of Medicine, Tongji University, Shanghai, [2]Department of Dermatologic Surgery, Shanghai Skin Disease Hospital, Shanghai

Category 8 (P08): Patient Population Research

P08-01 [C07-06] **Prediction of disease progression in Early Severe Systemic Sclerosis: a multicenter, prospective cohort analysis**

○ Saori Uesugi-Uchida[1], Manabu Fujimoto[2], Yoshihide Asano[3], Masatoshi Jinnin[4], Takashi Matsushita[5], Sei-ichiro Motegi[6], Shinichi Sato[7], Minoru Hasegawa[1]

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P08-02 [C10-08] **Diagnostic scoring system for intravascular large B-cell lymphoma**

○ Maho Nakashima[1], Motoi Takenaka[2], Takeharu Kato[3], Yasushi Miyazaki[4], Hiroyuki Murota[2]

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P08-03 [C07-01] **Nemolizumab Improves Pruritus in Patients with Intrinsic Atopic Dermatitis Lacking Atopic Predisposition**

○ Emi Sato[1], Keita Tsutsui[1,2], Hiroki Shimizu[1], Kotaro Ito[1,3]

[1]Department of Dermatology, Fukuoka University Faculty of Medicine, Fukuoka, [2]Fukuoka Central Hospital, Fukuoka, [3]Ito Dermatology Clinic, Kitsuki

P08-04 [C07-07] **Impact of Environmental Factors on Skin Irritation Severity: Comparative Analysis of Demographics and Health Outcomes in Vietnam**

○ Bao C Bui[1], Huy Nguyen[1], Ngan K Nguyen[2]

[1]Department of Medical Science, University of Health Sciences, Ho Chi Minh City, [2]Department of Biotechnology, International University, Ho Chi Minh City

P08-05 [C06-07] **Lipid Profiles and TyG Index as Predictors of Melanoma Incidence: Insights from the UK Biobank**

○ Javad Alizargar

Kashan Medical University, Isfahan

P08-06 **Development of novel molecular skin type analysis via microneedle patch and biomarker profiling**

○ Ji Hye Kim[1], Seo Hyeong Kim[1], Yoon Mi Choi[1], Soo Min Seo[1], Eun Young Jang[1], Yeon Woo Jung[2], Chang Ook Park[2], Do Hyeon Jeong[3], Kwang Hoon Lee[1]

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P08-07 [O05-11] **Exploring the Synergy of big data in bridging digital health and cosmetics industries for advanced hair loss research**

○ Seoyeon Kyung[1], Dongeol Lee[1], Seunghyun Kang[1], Dong Keon Yon[2,5], Selin Woo[2], Minji Kim[2], Hayeon Lee[2], Jiseung Kang[3], Masoud Rahmati[4], Yujun Park[6], Seyoung Mun[6]

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P08-08 [O05-12] **Utilizing SERPINB7 Immunostaining for Enhanced Diagnosis of Hereditary Palmoplantar Keratoderma**

○ Mari Kishibe, Mai Komatsu, Hiroyoshi Nozaki, Satomi Igawa, Akemi Ishida-Yamamoto

Department of Dermatology/Asahikawa Medical University, Asahikawa

P08-09 [O05-13] **The association of IL-31 with pruritis in eruptive pruritic papular porokeratosis (EPPP)**

○ Satomi Igawa[1], Akemi Ishida-Yamamoto[1], Noriaki Toyota[2], Mari Kishibe[1]

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P08-10 **The contribution of atopic diseases to alopecia areata**

○ Ying Yi Lu[1,2], Chieh-Hsin Wu[3,4]

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P08-11 [O05-14] **Withdrawn**

Category 9 (P09): Patient-Targeted Research

P09-01 [II-4] **Epigenetic memory in healed psoriatic keratinocytes**

○ Sayaka Shibata, Kentaro Awaji, Asumi Koyama, Yukiko Ito, Haruka Taira, Shinichi Sato

Department of Dermatology, Graduate School of Medicine, The University of Tokyo, Tokyo

P09-02 [I-4] **Characterization of Circulating Monocytes in Atopic Dermatitis through Single-Cell RNA Sequencing**

○ Yujin Lee

Department of Dermatology, Eunpyeong St. Marys Hospital, College of Medicine, The Catholic University of Korea, Seoul

P09-03 [C07-02] **Spatially Transcriptomic Analysis Reveals Alopecia Areata-Specific Gene Expression Signatures Compared to Seborrheic Dermatitis**

○ SoHee Park

Department of Dermatology, Eunpyeong St. Marys Hospital, Seoul

P09-04 [C07-03] **Consistent PD-1 decrease in cytotoxic T cell subsets suggests treatment-resistency in rapidly progressive alopecia areata**

○ Ryo Takahashi[1], Misaki Kinoshita-Ise[2], Yoshimi Yamazaki[2], Masahiro Fukuyama[2], Manabu Ohyama[1,2]

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P09-05 [C07-04] **Validation of a closed-loop AI and haptic-enabled wearable device for nocturnal scratching in mild atopic dermatitis**

○ Albert F. Yang[1], Soham Patel[2,3], Keum San Chun[4], Dylan Richards[4], Jessica R. Walter[5], Kazuaki Okamoto[6], Amy S. Paller[3,7,8], Akihiko Ikoma[6], Shuai Xu[3,4,7,8,9]

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P09-06 [C07-05] **Decoding the Immune Mechanisms in Papuloerythroderma of Ofuji: Clinical and Molecular Insights**

○ Koki Kataoka[1], Fuuka Minami[1], Ryota Asahina[1,2], Satoru Yonekura[1], Saeko Nakajima[1,3], Kenji Kabashima[1,4,5]

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P09-07 [O05-15] **MicroRNA as a disease marker of psoriasis**

○ Yuko Higashi[1,2], Munekazu Yamakuchi[3], Tomoko Fukushige[1], Takuro Kanekura[1], Teruto Hashiguchi[3], Gyohei Egawa[1]

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P09-08 [O05-16] **Could Mechanical Stress Serve as a Predisposing Factor for the Malignant Transformation of Seborrheic Keratosis?**

○ Hiroyoshi Nozaki[1], Tomoe Nakagawa[1], Kaori Umekage[1], Kyoko Kanno[1], Mari Kishibe[1], Masaru Honma[2], Akemi Ishida-Yamamoto[1]

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P09-09 **Amlitelimab normalises the atopic dermatitis gene signature in the skin of patients with moderate-to-severe atopic dermatitis**

○ Eriko Kudo[1], Shawn G. Kwatra[2], Margitta Worm[3], Stephan Weidinger[4], Franck Augé[5], Shaima Belhechmi[5], Annick Peleraux[6], John T. O'Malley[7], Charlotte Bernigaud[5], Natalie Rynkiewicz[7]

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P09-10 [O05-17] **Development of a digital image analysis system to objectively evaluate the treatment response in cellulitis**

○ Kazunori Miyata[1], Jun Yamagami[2], Yuko Takenaka[2], Mai Onuki[2], Tomoaki Sawayanagi[3], Naoko Ishiguro[2]

[1]Department of Dermatology, Tokyo Women's Medical University Yachiyo Medical Center, Chiba, [2]Department of Dermatology, Tokyo Women's Medical University, Tokyo, [3]Realinite Co., Ltd., Tokyo

P09-11 **Rilzabrutinib reduces biomarkers related to itch and disease severity in chronic spontaneous urticaria and atopic dermatitis**

○ Kenji Yahata[1], Marcus Maurer[2,3], Jörg Scheffel[2,3], Leon Kircik[4], Jessica Gereige[5], Vinh Truong[6], Vincent Mikol[7]

[1]Sanofi, Tokyo, [2]Institute of Allergology, Charité - Universitätsmedizin Berlin, Berlin, [3]Fraunhofer Institute for Translational Medicine and Pharmacology ITMP, Immunology and Allergology, Berlin, [4]Icahn School of Medicine at Mount Sinai, New York, [5]Sanofi, Cambridge, [6]Ividata Life Sciences (contracted by Sanofi), Paris, [7]Sanofi, Paris

P09-12 **Usefulness of skin sampling using microneedle patch in atopic dermatitis study: Comparison of RNA analysis results with skin biopsy**

○ Seo Hyeong Kim[1], Ji Hye Kim[1], Wanjin Kim[2], Chang Ook Park[2], Do Hyeon Jeong[3], Kwang Hoon Lee[1]

[1]CUTIS Biomedical Research Center Ltd., Seoul, [2]Department of Dermatology & Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, [3]RAPHAS Ltd., Seoul

P09-13 [O05-18] **Comparison between Local Anesthetic Minimal-Invasive Liposuction (LAMS) using normal saline and half saline**

○ Kyungho Paik[1], Nam Chul Kim[2], Jeong Eun Kim[2], Jinmook Jeong[2], Chang-Hun Huh[1]

[1]Seoul National University Bundang Hospital, Seongnam, [2]365mc Hospital Network, Seoul

P09-14 **In vitro evidence demonstrating the nondepleting mechanism of action of amlitelimab, an OX40 Ligand monoclonal antibody**

○ Hiroyuki Fujita[1], James G. Krueger[2], Brian S. Kim[3], Stephan Weidinger[4], Yoko Kataoka[5], Mark Peakman[6], John T. O'Malley[6], Karl Yen[7], Cheng-Che Li[6], Cassie Van Krinks[6], Janina Nahler[6]

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P09-15 [O05-19] **The in-vivo exfoliation and 3h anti-acne efficacy of a clearing gel containing 2% salicylic acid**

○ Shuyan Yang[2], Liwei Wang[1], Chao Yuan[1], Rachel Zhao[2], Yan Zhong[2], Lucas Kruger[3], Kristine Schmalenberg[3]

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P09-16 **Increased IL-31 Expression in Eosinophilic Pustular Folliculitis and Its Possible Role in Disease Pathogenesis**

○ Saeko Nakajima[1], Satoru Yonekura[1], Eiko Toichi[2], Yu Sawada[3], Kenji Kabashima[1]

[1]Kyoto University, Kyoto, [2]NHO Kyoto Medical Center, Kyoto, [3]University of Occupational and Environmental Health, Kitakyushu

P09-17 [O05-20] **Deep Venous Thrombosis Risk in Elderly Patients with Lower Leg Cellulitis**

○ Romane Teshima, Yu Sawada, Natsuko Sasaki

University of Occupational and Environmental Health, Kitakyushu

P09-18 **Effect of food processing on allergenicity in Anisakis allergy**

○ Maiko Yamaura, Kana Inoue, Ayaka Ito, Shoko Yokoyama, Erina Hagihara, Yuma Sunaga, Sachiko Koshikawa, Naoko Inomata

The Department of Dermatology, Showa University School of Medicine, Tokyo

P09-19 [O05-21] **Anti-acne efficacy of a botanic gel containing 1% salicylic acid: double-blinded, randomized controlled 3-day study**

○ Chao Yuan[1], Liwei Wang[1], Yunyun Zheng[2], Xiaomin Zhao[2], Yan Zhong[2], Lucas Kruger[3], Kristine Schmalenberg[3], Hao Ouyang[3]

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P09-20 **Epidemiological survey of tick bites in Shizuoka Prefecture, Japan from 2016 through 2023**

○ Masako Matsutani, Masaru Natsuaki, Nobuo Kanazawa

The Department of Dermatology, Hyogo Medical University, Nishinomiya

P09-21 [O05-22] **A 3-Step product Regimen Efficacy on Acne Vulgaris for both Female and Male**

○ Liwei Wang[1], Chao Yuan[1], Shuyan Yang[2], Xiaomin Zhao[2], Yan Zhong[2], Lucas Kruger[3], Kristine Schmalenberg[3]

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Category 10 (P10): Pharmacology and Drug Development

P10-01 [II-1] **Breakthrough drug in Stevens-Johnson syndrome/toxic epidermal necrolysis: Drug discovery to prevent cell death via formyl peptide receptor-1**

○ Haruna Kimura[1], Akito Hasegawa[1], Tomoki Nishiguchi[1,2], Hong Ha Nguyen[1], Masatoshi Eguchi[1], Takeaki Ozawa[2], Riichiro Abe[1]

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P10-02 [C08-06] **Role of MrgprA3-expressing primary sensory neurons in itch responses in atopic dermatitis model mice**

○ Masanori Fujii[1,2], Kyoko Fujii[2], Ryosuke Miyagawa[2], Taisei Enomoto[2], Takato Ohtsuka[2], Yuma Yasui[2]

[1]Department of Analytical Pharmacology, Faculty of Pharmacy, Meijo University, Aichi, [2]Laboratory of Pharmacology, Division of Pathological Sciences, Kyoto Pharmaceutical University, Kyoto

P10-03 [C08-07] **Advancements in Stevens-Johnson syndrome/toxic epidermal necrolysis treatment: targeting cell death pathways via Fas-Fas ligand inhibition**

○ Yuki Saito[1], Roberta Lotti[2,3], Haruna Kimura[1], Akito Hasegawa[1], Brydon Bennett[2], Antonino Amato[2], Carlo Pincell[2], Riichiro Abe[1]

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P10-04 [C10-02] **CDK inhibitors disrupt mRNA processing and synergize with Bcl-xL inhibitors in Merkel cell carcinoma**

○ Khalid A Garman[1], Tara Gelb[1], Dimitrios Anastasakis[2], Madhu Lal Nag[3], Matthew D Hall[3], Markus Hafner[2], Isaac Brownell[1]

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P10-05 [C12-01] **NADPH oxidase inhibitor induces type XVII collagen and inhibits senescence, both In-vitro and In-vivo**

○ Tuba Musarrat Ansary, Koji Kamiya, Md Razib Hossain, Mayumi Komine

The department of Dermatology, Jichi Medical University, Shimotsuke

P10-06 [C12-02] **Difamilast, a topical phosphodiesterase 4 inhibitor, induced CREB-mediated production of human beta defensin 3 in human keratinocytes**

○ Gaku Tsuji[1,2], Ayako Yumine[1,2], Koji Kawamura[2], Masaki Takemura[2], Kazuhiko Yamamura[1,2], Takamichi Ito[2], Makiko Kido-Nakahara[2], Takeshi Nakahara[1,2]

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P10-07 [O05-23] **Cytoprotection mechanisms of keratinocyte cytoprotectants against sorafenib toxicity**

○ Yayoi Kamata[1], Rui Kato[2], Mitsutoshi Tominaga[1], Sumika Toyama[1], Eriko Komiya[1], Jun Utsumi[1], Takahide Kaneko[2], Yasushi Suga[2], Kenji Takamori[1,2]

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P10-08 [O05-24] **Serum cytokine and chemokine profiling in drug-induced hypersensitivity syndrome**

○ Elena Borzova, Ryota Hayashi, Osamu Ansai, Shingo Takei, Riichiro Abe

Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata

P10-09 [O05-25] **Bexarotene-induced upregulation of Siglec-7 and Siglec-9 on peripheral blood T cells: a potential therapeutic target**

Miki Kume[1], Rei Watanabe[2], Manabu Fujimoto[1], ○ Eiji Kiyohara[1]

[1]Department of Dermatology, Course of Integrated Medicine, Graduate School of Medicine, Osaka University, Osaka, [2]Department of Medicine for Cutaneous Immunological Diseases, Course of Integrated Medicine, Graduate School of Medicine, Osaka University, Osaka

P10-10 **Combination of CPI-613 and hydroxychloroquine sensitizes melanoma cells to anoikis**

○ Naohisa Ichiki[1], Chiemi Saigo[2,3,4], Yuki Hanamatsu[2], Hiroaki Iwata[1], Tamotsu Takeuchi[2,4]

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P10-11 [O03-01] **Low-temperature plasma-activated Ringer's lactate solution induces cell death on malignant melanoma cells**

○ Akira Miyazaki[1], Tomoki Taki[1], Kae Nakamura[2], Hiromasa Tanaka[2], Masaru Hori[2], Katsumi Ebisawa[3], Masashi Akiyama[1]

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P10-12 [O03-02] **An extract of Arctium lappa L. may mitigate psoriatic inflammation by targeting EGFR**

○ Mengyao Yang[1,2], Ge Peng[1], Quan Sun[1], Wanchen Zhao[1], Alafate Abudouwanli[1], Arisa Ikeda[3], Shan Wang[4], Hideoki Ogawa[1], Ko Okumura[1], François Niyonsaba[1,5]

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P10-13 **Dictamnine and fraxinellone from Cortex Dictamni alleviates atopic dermatitis by inhibiting the activation of keratinocytes and basophils**

○ Jia-You Fang[1], Shih-Chun Yang[2], Shih-Hsuan Wei[1]

[1]Chang Gung University, Taoyuan, [2]Soochow University, Taipei

P10-14 [O03-03] **Risk factors for liver enzyme abnormalities after oral terbinafine for onychomycosis: a multicenter study**

○ Hua-Ching Chang[1,2,3], Kai-Wen Chuang[1]

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P10-15 **Anti-Diabetic Agent, Pinitol Improves Lipopolysaccharide-Damaged in Human Dermal Fibroblasts**

○ Dong Wook Shin, Jinsick Kim

Research Institute for Biomedical and Health Science, Konkuk University, Chungju

P10-16 **The therapeutic effects of limonene on atopic dermatitis in vivo and in vitro**

○ Chi-Feng Hung

School of Medicine, Fu Jen Catholic University, New Taipei City

P10-17 **Potential alleviating effect of sulforaphane on atopic dermatitis**

○ Shan Wang[1,2], Ge Peng[1], Mengyao Yang[1,3], Alafate Abudouwanli[1], Quan Sun[1], Wanchen Zhao[1], Arisa Ikeda[1,4], Hideoki Ogawa[1], Ko Okumura[1], François Niyonsaba[1,5]

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P10-18 **Protective effects of Andrographis Paniculata extract and Andrographolide against blue light-induced damage to human epidermal keratinocytes**

○ Hee Seon Shin, Eun Bi Yu, Jong Sung Lee

The Department of Integrative Biotechnology, Sungkyunkwan University, Suwon-si

P10-19 **Anti-inflammatory effect of soft coral-derived brianolide on atopic dermatitis**

○ Yuan-Hsin Lo[1], Meng-Fang Huang[2], Chi-Feng Hung[2]

[1]Department of Dermatology, Fu Jen Catholic University Hospital, Fu Jen Catholic University, New Taipei City, [2]MS Program in Transdisciplinary Long Term Care, Fu Jen Catholic University, New Taipei City

P10-20 **The anti-inflammatory activity of flavonoids and alkaloids from Sophora flavescens alleviates psoriasiform lesions**

○ Yu-Kuo Chung[1,4], Cai-Ling Jhong[4], Jia-You Fang[1,2,3,4]

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Category 11 (P11): Photobiology

P11-01 [C11-02] **Skin Aging through the Regulation of NRIP1 and PRDM1 Associated with DNA Methylation**

○ Yidan Cui[1], Ji Hwan Moon[2], Hye Sun Shin[3], Min-Kyoung Kim[1], Dong Hun Lee[1]

[1]Department of Dermatology, Seoul National University College of Medicine, Seoul, [2]Samsung Genome Institute, Samsung Medical Center, Seoul, [3]AMOREPACIFIC Research and Innovation Center, Yongin

P11-02 [C11-03] **The Pigmentation of Blue Light is Mediated by Both Melanogenesis Activation and Autophagy Inhibition through OPN3-TRPV1**

○ Eunbi Yu, Heeseon Shin, Jongsung Lee

Department of Integrative Biotechnology, Sungkyunkwan University, Suwon

P11-03 [O03-04] **Ultraviolet-B irradiation expands skin-resident CD81^{+}Foxp3^{+} regulatory T cells with a highly activated phenotype**

○ Hiroaki Shime[1], Mizuyu Odanaka[1], Masaki Imai[2], Akimichi Morita[3], Sayuri Yamazaki[1]

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P11-04 [O03-05] **UVB radiation-induced skin carcinogenesis and the impact of low dose UVA irradiation**

○ Katharina Maria Rolfes, Jean Krutmann, Thomas Haarmann-Stemmann

IUF-Leibniz Research Institute for Environmental Medicine, Duesseldorf

P11-05 [O03-06] **Possible usefulness of Raman microscopy in the treatment of extramammary Paget's disease**

○ Toshiki Kubo[1,2], Rei Watanabe[1], Takamichi Ito[3], Takeshi Nakahara[3], Manabu Fujimoto[1], Katsumasa Fujita[2,4], Atsushi Tanemura[1]

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P11-06 [O03-07] **Induction of Treg and genetic change of CD4 T cells by UVC irradiation**

○ Yoshifumi Kanayama, Akimichi Morita

Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate school of Medical Sciences, Nagoya

P11-07 [O03-08] **Drug-induced phototoxicity: Disruption of 6-formylindolo[3,2-*b*]carbazole metabolism sensitizes keratinocytes to UVA-induced apoptosis**

○ Frederick Hartung, Katharina Maria Rolfes, Thomas Haarmann-Stemmann

IUF - Leibniz Research Institute for Environmental Medicine, Düsseldorf

P11-08 [O03-09] **Effects of Phototherapy on Antinuclear Antibody Titers in Patients with Various Skin Diseases: A Longitudinal Study**

○ Oki Watanabe, Mai Sakurai, Yuki Enomoto, Aya Yamamoto, Akimichi Morita

Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya

P11-09 **Effective Senolytics in Human Dermal Fibroblasts: Highlighting Fisetin, ABT263, and ABT737**

○ Young Bin Lee, Hee-Seok Seo, Hyun Kang, Sung Ha Lim, Seung-Phil Hong

The Department of Dermatology, Yonsei University Wonju College of Medicine, Wonju

Category 12 (P12): Pigmentation and Melanoma

P12-01 [III-6] **Co-blockade for CD276 and PD-1 signal enhances anti-melanoma T cell response**

○ Kazuhiro Aoyama[1], Shusuke Kawashima[1], Yuka Saeki[1], Yu Kawahara[1], Takamitsu Matsuzawa[1], Noriko Saito[1], Ayako Oikawa[1], Masahito Kawazu[2], Yosuke Togashi[3], Yasuhiro Nakamura[4], Tatsuyoshi Kawamura[5], Yukiko Kiniwa[6], Osamu Yamasaki[7], Satoshi Fukushima[8], Takashi Inozume[1]

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P12-02 [I-5] **Dual Inhibition of FAK and PYK2 Overcomes Acquired Resistance to Immune Checkpoint Inhibitors by Suppressing the IFN-STAT1-PDL1 Pathway**

○ Yuto Mizuno[1,2], Masanari Umemura[2], Chihiro Hayashi[2], Akane Nagasako[2], Yoko Ino[3], Yayoi Kimura[3], Yukie Yamaguchi[2], Yoshihiro Ishikawa[1]

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P12-03 [C06-01] **CXCL13 and CCL21 induce tertiary lymphoid structures and enhance the efficacy of immune checkpoint inhibitors in malignant melanoma**

○ Maki Yoshimitsu[1], Motoki Nakamura[1], Shinji Kano[1], Tetsuya Magara[1], Hiroshi Kato[1], Aiko Sakai[2], Masaya Sugiyama[2], Masashi Mizokami[3], Akimichi Morita[1]

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P12-04 [C06-02] **Nucleo-cytosolic acetyl-CoA drives tumor immune evasion by epigenetically regulating PD-L1 in melanoma**

○ Huina Wang, Weinan Guo, Xiuli Yi, Chunying Li

Department of Dermatology, Xijing Hospital, Fourth Military Medical University, Xi'an

P12-05 [C06-03] **Decreased serum levels of IL-4 correlate with the efficacy of the PAI-1 inhibitor in patients with anti-PD-1 antibody-refractory melanoma**

○ Emi Yamazaki, Taku Fujimura, Manami Takahashi-Watanabe, Ryo Amagai, Yumi Kambayashi, Yoshihide Asano

The Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai

P12-06 [C03-06] **Ribosomal protein RPS10 plays a crucial role in melanin transportation and skin pigmentation**

○ Moyuka Wada-Irimada[1,2,3,4,5,6], Kenshi Yamasaki[1,2], Kosuke Shido[1], Kaname Kojima[3], Ikuko N. Motoike[3], Kengo Kinoshita[3,4,5,6], Yoshihide Asano[1]

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P12-07 [C06-04] **Endothelial progenitors: Unlocking Tumor Vessel Normalization to Overcome Therapeutic Challenges in Melanoma**

○ Laura Sormani[1], Ghazaleh Hashemi[1], Haiming Li[1], Chenhao Zhou[1], Kwong Ching Li[1], Siu Hang Chan[1], Samuel Tan[1], Quan Nguyen[2], Edwige Roy[1], Kiarash Khosrotehrani[1]

[1]The University of Queensland, Frazer Institute, Brisbane, [2]The University of Queensland, Institute for Molecular Biology, Brisbane

P12-08 [C06-05] **Single-cell Spatial Profiling: A Bridge Between Clinical Dermatopathology And Melanoma Prognostic Modeling**

○ Nick R. Love

The Department of Dermatology, University of California at Davis, Sacramento

P12-09 [C03-07] **SIRT7 Protects Melanocytes Against Ferroptosis via the SMAD3-ATF3-GPX4 Axis in Vitiligo**

○ Xiu L. Yi, Li L. Wu, Weinan Guo, Yu Q. Yang, Hao Wang, Jia X. Chen, Heng X. Zhang

Department of Dermatology, Xijing Hospital, Fourth Military Medical University, Xi'an

P12-10 [O03-10] **Withdrawn**

P12-11 [O03-11] **Immune cell therapy utilizing iPS cell-derived proliferative myeloid cells for subcutaneous tumor models of melanoma**

○ Yuki Ichigozaki[1], Toshihiro Kimura[1], Haruka Kuriyama[1], Hisashi Kanemaru[1], Azusa Miyashita[1], Rong Zhang[2], Yasushi Uemura[2], Satoshi Fukushima[1]

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P12-12 [O03-12] **The MITF-Rho-ROCK-ECM axis regulates MAPKi effect in three-dimensional melanoma spheroids**

○ Satoru Sugihara[1], Kota Tachibana[1], Jordan Kumar[1], Gency Gunasingh[1], Glen M Boyle[2], Nikolas K. Haass[1]

[1]Frazer Institute, the University of Queensland, Brisbane, [2]QIMR Berghofer Medical Reserch Institute, Brisbane

P12-13 [O03-13] **Impact of the tumour microenvironment on melanoma proliferation, invasion and therapy**

Robert J. Ju, Kota Tachibana, Satoru Sugihara, Jordan Kumar, Yimeng Guan, Gisella Edny, Shahla Asgharzadeh Kangachar, Samantha J. Stehbens, ○ Nikolas K. Haass

Frazer Institute, University of Queensland, Brisbane

P12-14 **Establishment and Evaluation of a Novel Vitiligo Model in Hairless Mice for Therapeutic Assessment**

○ Ken Okamura[1], Yosuke Arai[1], Junnosuke Kawaguchi[1], Shinji Tsukada[1,2], Yuko Abe[1], Yutaka Hozumi[1], Tamio Suzuki[1]

[1]Department of Dermatology, Faculty of Medicine, Yamagata University, Yamagata, [2]Maruho Co., Ltd., Osaka

P12-15 [O03-15] **Precision diagnostics for early melanoma detection using spatial biology and AI-guided image analysis**

○ Yung-Ching Kao[1], Andrew Causer[2], Chenhao Zhou[1], Xiao Tan[2], Darren Smit[1], Katie J. Lee[1], Blake O'Brien[3], Angus Collins[3], Kiarash Khosrotehrani[1,4], H. Peter Soyer[1,4], Quan Nguyen[2,5], Mitchell S. Stark[1]

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P12-16 [O03-16] **Generation of immortalized keratinocyte lines from different ethnic backgrounds for skin biology applications**

○ Oliver Dreesen, Mattheus XR Foo

A*STAR Skin Research Labs, Singapore

P12-17 [O03-17] **A role of CXCL14 in melanoma progression**

○ Mengyan Li[1], Sanjay Lietzau[1,2], Jenny Chung[1,3], Akinori Kawakami[1], Kenji Kabashima[1]

[1]The Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, [2]Hannover Medical School, Hannover, [3]CUNY School of Medicine, New York

P12-18 [O03-18] **Investigation of the effect of TRPV1 inhibitor on skin damage caused by heat**

○ Yu Gabe[1], Keigo Kawabata[1], Miyuki Sudo[2], Keigo Kajiwara[2], Shingo Tooi[2], Yoshito Takahashi[1]

[1]Biological Science Research, Kao Corporation, Odawara, [2]Skin Care Research, Kao Corporation, Tokyo

P12-19 **Low-dosage of imiquimod induces melanogenesis and senescence in B16F10 melanoma cells through TLR7 and p53 pathways**

○ Zheng-Yi Li[1], Jeng-Jer Shieh[1,2,3]

[1]Institute of Biomedical Sciences, National Chung Hsing University, Taichung, [2]Department of Education and Research, Taichung Veterans General Hospital, Taichung, [3]Rong Hsing Research Center for Translational Medicine, National Chung Hsing University, Taichung

P12-20 **Investigation of IRE1α signaling in the skin: connection to hyperpigmentation and aging**

○ Ji Young Kim, Eun Jung Lee, Shinwon Hwang, Seohyun Park, Yu Jeong Bae, Il Joo Kwon, Sang Ho Oh

The Department of Dermatology, Yonsei University College of Medicine, Seoul

P12-21 [O03-19] **Cryosurgery Reduces Lung Melanoma Metastasis in a Mouse Model: Renewed Potential in Melanoma Management**

○ Shih-han Wang[1], Ting-Ting Chen[2], Cheng-Lin Wu[3], Wei-Ting Liu[4], Yi-Hsuan Huang[5], Tak-Wah Wong[2,4,6]

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P12-22 [O03-20] **A Modified Autologous Non-cultured Epidermal Cellular Suspension Protocol - An Australian First**

○ Raaisa R Islam, Monisha Gupta

The Skin Hospital, Darlinghurst

P12-23 [O03-21] **A novel skin chromophore lipofuscin contributing to skin sallowness**

○ Binwei Deng[1], Xi Yang[1], Kelly Dong[2], Jian (Richard) Cao[1], Nadine Pernodet[2]

[1]Estée Lauder Companies Research and Development, Shanghai, [2]Research and Development, The Estée Lauder Companies, NY

P12-24 [O03-22] **An ex vivo skin explant based scientific model testing photoprotection efficacy of cosmetic sunscreen products under controlled UV exposure**

○ Mukta Sachdev, Aahan Sachdev, Ritambhara KR

MSCR, Bangalore

P12-25 [O03-23] **A novel method for evaluating melanocyte cytotoxicity using human ex vivo skin tissue culture model**

○ Saaya Koike[1], Takako Shibata[1], Kiyotaka Hasegawa[1], Tamio Suzuki[2]

[1]Shiseido Co., Ltd., MIRAI Technology Institute, Yokohama, [2]Department of Dermatology, Yamagata University Faculty of Medicine, Yamagata

P12-26 [O03-24] **A potent reagent against UV-induced carbonylation and skin yellowness**

○ Xi Yang[1], Jian (Richard) Cao[1], Nadine Pernodet[2]

[1]Estée Lauder Companies Research and Development, Shanghai, [2]Research and Development, The Estée Lauder Companies, NY

P12-27 **Diphenylcyclopropenone induces ROS-mediated Apoptosis in Melanoma Cells.**

○ Meng-Han Shen[1,2], Jeng-Jer Shieh[2,3], Zheng-Yi Li[2], Mao-Chia Chang[2]

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P12-28 **Therapeutic implications of circadian clock-enhancing small molecule on aging pigmentation in UVB-induced senescence model**

○ Jiyun Lim[1,2], Jung Min Park[1], Hyun Mo Lee[1], Yoon Jae Kim[1], Jun Hyuk Cho[1], Soo Hong Seo[1], Hyo Hyun Ahn[1], Im Joo Rhyu[2], Jong-Wha Jung[3], Gi Hoon Son[4], Dai Hyun Kim[1,2]

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P12-29 [O03-25] **Anti-glycation and anti-skin sallowness effects of Siegesbekia Orientalis extract on skin models**

○ Jian (Richard) Cao[1], Xi Yang[1], Binwei Deng[1], Nadine Pernodet[2]

[1]Estée Lauder Companies R&D, Shanghai, [2]R&D, The Estée Lauder Companies, NY

P12-30 **Anti-glycation and tyrosinase inhibition effects of UP302**

○ Nora Ruth[1], Jaimie Jerome[1], Neelam Muizzuddin[1], Ewa Markiewicz[2], Olusola Idowu[2], Tom Mammone[1,3]

[1]Estée Lauder Companies Research and Development, New York, [2]HexisLab Ltd, Newcastle upon Tyne, [3]Clinique Research Laboratories, New York

P12-31 [O06-01] **Unravelling the effects of protein glycation on skin sallowness: an experimental and simulation approach**

○ Zhen Li[1], Yuping Su[2], Xi Yang[1], Yu Lin[3], Senping Fan[2], Huanjun Zhou[1], Hao Long[2], Jian (Richard) Cao[1], Tom Mammone[3], Nadine Pernodet[3]

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Category 13 (P13): Skin, Appendages, and Stem Cell Biology

P13-01 [I-6] **Epidermal keratinocyte progenitors transiently emerge as ectomesenchyme from non-neural ectoderm**

○ Asaka Miura[1,2,3], Yuki Kobayashi[1], Yoshikazu Hirose[1], Yuya Ouchi[2], Tomomi Kitayama[2], Eiichi Takaki[2], Ryoma Yamamoto[2], Sho Yamazaki[2], Machika Kawamura[2], Kotaro Saga[1], Takashi Shimbo[1], Manabu Fujimoto[3], Katsuto Tamai[1]

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P13-02 [C03-03] **Induction of tissue-specific premature stem cell aging promotes senescence-like phenotypes in remote multiple organs**

○ Yasuaki Ikuno[1,2], Yukie Kande[2], Ayano Narumoto[2], Dai Ihara[2], Noriki Fujimoto[1], Hayato Naka-Kaneda[2]

[1]Department of Dermatology, Shiga University of Medical Science, Otsu, [2]Department of Anatomy, Shiga University of Medical Science, Otsu

P13-03 [C03-01] **NKG2D activity in the course of alopecia areata is influenced by soluble MICA**

○ Taisuke Ito, Reiko Kageyama, Takahiro Suzuki, Toshiharu Fujiyama, Tetsuya Honda

Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu

P13-04 [C03-02] **Discovery of human dermal papilla cell surface markers for living cell isolation using a novel culture condition with WNT and FGF activation**

○ Reina Hayakawa[1], Ryo Takahashi[2], Masahiro Fukuyama[1], Aki Tsukashima[1], Momoko Kimishima[1], Yoshimi Yamazaki[1], Manabu Ohyama[1,2]

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P13-05 **Cutaneous TRPV1 innervations trigger a macrophage and fibroblast containing pathway to activate hair growth**

○ Tamar L. Ben-Shaanan[1,2,3], Konrad Knopper[1,2], Lihui Duan[1,2], Ruiqi Liu[3], Hanna Taglinao[1,2], Ying Xu[1,2], Jinping An[1,2], Maksim V. Plikus[3], Jason G. Cyster[1,2]

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P13-06 [C03-04] **A Multi-Omics Approach to create a Human Hair Atlas for healthy and AGA models**

○ Carlos Clavel

A*STAR Skin Research Labs, Singapore

P13-07 [C03-05] **Unveiling molecular secrets: a comparative genetic study of the nail unit, skin, hair follicle and onychomatricoma**

○ Taemin Lee, Joonho Shim, Ji Hye Park, Jong Hee Lee, Dongyoun Lee

Department of Dermatology, Samsung Medical Center, Sungkyunkwan University, Seoul

P13-08 [C11-04] **Characterization and functional analysis of dermal perivascular adipose tissue (PVAT) using single-nucleus RNA sequencing**

○ Riko Takimoto-Ito, Satoshi Nakamizo, Kenji Kabashima

The Department of Dermatology, Kyoto University graduate school of Medicine, Kyoto

P13-09 [C11-05] **An immune-adipocyte axis elicits hair regeneration by promoting adipocyte-hair follicle stem cell metabolic communication**

○ Kang-Yu Tai[1], Chih-Lung Chen[2], Wei-Hung Wang[2], Sabrina Mai-Yi Fan[3], Sung-Jan Lin[4]

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P13-10 [C11-06] **Elucidating the role of anti-aging matrix Fibulin 7 in skin inflammatory disease psoriasis**

○ Erna Raja[1], Jun Tsunezumi[2], Karolina Edlund[3], Aiko Sada[4], Hiromi Yanagisawa[1]

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P13-11 [C11-07] **Multiple fetal fibroblast subpopulations differently contribute to skin architecture development**

○ Noriko Morioka[1,2], Clarisse Ganier[2], Fiona M Watt[2,3]

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P13-12 [O06-02] **Chemical Modulation of mitochondria-ER contacts: Effects in Melanogenesis**

○ Federica Dal Bello[1], Natasha Kaar[1], Sara Schiavon[1], Emad Norouzi Esfahani[1], Tomas Knedlik[1], Alessio Gianelle[2], Florine Grudet[1], Paula Rebelo[1], Giovanni Marzaro[3], Adriana Chilin[3], Marta Giacomello[1,4]

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P13-13 [O06-03] **Histological characterization and transcriptomic analysis of acquired idiopathic generalized anhidrosis post corticosteroid pulse therapy**

○ Reiko Kageyama[1], Keiko Sakamoto[1,2], Satoshi Nakamizo[3], Kenji Kabashima[3], Keisuke Nagao[2], Tetsuya Honda[1]

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P13-14 [O06-04] **Carbonylated proteins elevate ROS levels in fibroblasts through RAGE**

○ Yumiko Yamawaki, Yuri Okano, Hitoshi Masaki

CIEL CO., LTD., Sagamihara

P13-15 [O06-05] **Three-dimensional ultra-high frequency ultrasound non-invasively visualizes pathological changes predicting the prognosis of alopecia areata**

○ Tatsuro Iwasaki[1,2], Misaki Kinoshita-Ise[1], Taiichiro Ida[3], Masayuki Amagai[2], Manabu Ohyama[1]

[1]Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo, [2]Department of Dermatology, Keio University School of Medicine, Tokyo, [3]Advantest Corporation, Saitama

P13-16 [O06-06] **Possible role of spinal semaphorin 3A in itch and pain perceptions**

○ Motoki Morita[1], Mitsutoshi Tominaga[1], Yayoi Kamata[1], Kenji Takamori[1,2]

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P13-17 [O06-07] **High-throughput workflow to study Melanosome morphology**

○ Emad Norouzi Esfahani, Marta Giacomello

The Department of Biology, University of Padova, Padova

P13-18 [O06-08] **A statistical model of the succession character of the scratching bouts evoked by itch sensation in mice**

○ Kotaro Honda[1], Mitsutoshi Tominaga[1], Kenji Takamori[1,2]

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P13-19 [O06-09] **Mechanism of histamine production and secretion by sweat gland cells**

○ Hayato Mizuno[1], Shunsuke Takahagi[1,2], Kazue Uchida[1], Kaori Ishii[1], Akio Tanaka[1]

[1]Department of Dermatology, Institute of Biomedical & Health Sciences, Hiroshima University, Hiroshima, [2]Division of Dermatology, JA Hiroshima General Hospital, Hiroshima

P13-20 [O06-10] **Mitophagy regulation restores mitochondrial function in the dermal fibroblasts and preserves skin youthfulness**

○ Tingyan Mi[1], Binwei Deng[1], Jian (Richard) Cao[1], Nadine Pernodet[2]

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P13-21 [O06-11] **Uncover the critical environmental risk factors to pore visibility with an AI approach**

○ Hang Xie[1], Huanjun Zhou[1], Jin Yan Song[2], Zitao Ma[3], Tianhao Li[3], Xiao Long[3], Danning Zeng[1], Xiaodi Wang[1], Su Shi[4], Yulan Qu[1], Yajun Luo[1], Haidong Kan[4], Jian (Richard) Cao[1], Nadine Pernodet[5]

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P13-22 [O06-12] **Role of Cutaneous Neuroinflammation and Potential Dorsal Root Ganglion in Rosacea**

○ Sang Gyu Lee[1,2], Dawoon Han[1], Jihee Kim[2]

[1]Department of Dermatology, Yonsei University college of Medicine, Seoul, [2]Department of Dermatology, Yonsei University college of Medicine, Yongin

P13-23 **Functional expression of TRP channels in human eccrine sweat glands**

○ Qianwen Luo[1], Hiroko Kato[1], Takeshi Hara[1,2], Atsushi Tanemura[3], Yukinobu Nakagawa[3], Hiroyuki Murota[4], Makoto Tominaga[5,6,7,8], Kiyotoshi Sekiguchi[9], Fumitaka Fujita[1,2]

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P13-24 [O06-13] **Age-dependent effects of psychological stress on itch sensitivity in mice: improvement by serotonin**

○ Qiaofeng Zhao[1], Mitsutoshi Tominaga[1], Sumika Toyama[1], Kenji Takamori[1,2]

[1]Juntendo Itch Research Center, Institute for Environmental and Gender-Specific Medicine, Juntendo University, Tokyo, [2]Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu

P13-25 **Comparative Analysis of CAII and GCDFP-15 Expression in Sweat Glands of Acquired Idiopathic Generalized Anhidrosis**

○ Tomoki Sakiyama, Satoshi Nakamizo, Kenji Kabashima

Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto

P13-26 [O06-14] **Involvement of Macrophage in the Pathogenesis of Acquired Idiopathic Generalized Anhidrosis**

○ Chie Uchida, Tadatsune Iida, Takeshi Namiki, Naoko Okiyama

Department of Dermatology, Institute of Science Tokyo, Tokyo

P13-27 **The effects of the CCHCR1 variant on pathogenesis of alopecia areata**

○ Phu C. Nguyen, Nagisa Yoshihara, Shigaku Ikeda, Rei Watanabe

Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo

P13-28 **Involvement of Catecholamines in the Augmentation of Sebum Production in Hamster Sebocytes**

○ Koji Mizuno, Toshikazu Koiwai, Takashi Sato

Department of Biochemistry, Tokyo University of Pharmacy and Life Sciences, Hachioji

P13-29 **Unraveling mechanical stiffness variations in human skin layers**

○Wan-Yu Chi[1,2], Gang-Hui Lee[2], Shyh-Jou Shieh[2,3], Chao-Chun Yang[1,2]

[1]Department of Dermatology, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, [2]International Center for Wound Repair & Regeneration, National Cheng Kung University, Tainan, [3]Division of Plastic and Reconstructive Surgery, Department of Surgery, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan

P13-30 **Potential of SCX as a novel anti-aging molecule for skin**

○Tsuyoshi Ikeda, Takahito Nakai, Hideki Nishiura

TOA Inc. (ex/Nihon Kolmar Co., Ltd.), Osaka

P13-31 **Neutrophil elastase affects dermal fibroblasts themselves in various ways**

○Ami Seino, Mayumi Shishido, Takahiro Isoda, Yuko Saitou

POLA CHEMICAL INDUSTRIES, INC., Yokohama, Kanagawa

P13-32 **Development of porous microneedle array patches (MAP) as a tool for interstitial fluid (ISF) extraction**

○Yosuke Koma[1], Yuko Tsuruma[1], Kensuke Tamura[1], Jongho Park[2], Tatsuki Iinuma[3], Madoka Kage[3], Shigenori Aoki[1], Shinya Takyu[1], Beomjoon Kim[2], Yutaka Takagi[3]

[1]LINTEC Corporation, Tokyo, [2]Institute of Industrial Science, The University of Tokyo, Tokyo, [3]Pharmaceutical Sciences, Josai University, Saitama

P13-33 **Expression and functional analysis of endomorphins in peripheral tissues**

○Eriko Komiya[1,2], Kotaro Honda[1], Sumika Toyama[1], Yayoi Kamata[1], Makino Watanabe[2], Akira Minami[2], Mitsutoshi Tominaga[1], Kenji Takamori[1,3]

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P13-34 **Effect of Afzelin on inflammation and lipogenesis in Particulate matter-stimulated C. acnes-treated SZ95 sebocytes**

○Ji Yeon Hong[1], Yonghee Choi[1], Yoon Jin Roh[1], Joon Seok[1], Mi-Kyung Lee[2], Kui Young Park[1]

[1]Department of Dermatology, Chung-Ang University Hospital, Chung-Ang University College of Medicine, Seoul, [2]Department of Laboratory Medicine, Chung-Ang University Hospital, Chung-Ang University College of Medicine, Seoul

Category 14 (P14): Tissue Regeneration and Wound Healing

P14-01 [III-4] **Transforming growth factor-β signaling-mediated wound healing is required hair follicle neogenesis**

○Tatsuya Ogawa, Chae Ho Lim, Olivia Yeroushalmi, Priya Marella, Soung Hoon Lee, Annette Kaminaka, Mayumi Ito

The Ronald O. Perelman Department of Dermatology, NYU Grossman School of Medicine, New York

P14-02 [C04-01] **Comprehensive analyses of single cell-transcriptomic transition disclose precise mesenchymal activation for regenerating necrotic skingraft**

○Yoshikazu Hirose[1], Asaka Miura[1], Yuki Kobayashi[2], Yuya Ouchi[2], Tomomi Kitayama[2], Takashi Shimbo[1], Akio Tanaka[3], Manabu Fujimoto[4], Katsuto Tamai[1,2]

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P14-03 [C04-02] **Collective cell migration dynamics of stratified epithelia under spatial confinement**

○Takuma Nohara[1], Ken Natsuga[1], Yosuke Mai[1], Junichi Kumamoto[2], Masaharu Nagayama[2], Tsukasa Oikawa[3], Hideyuki Ujiie[1]

[1]Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, [2]Research Institute for Electronic Science, Hokkaido University, Sapporo, [3]Department of Molecular Biology, Graduate School of Medicine, Sapporo

P14-04 [C04-03] **Trehalose promotes wound healing *in vitro* by enhancing the migration of human keratinocytes and VEGF secretion**

○Keigo Taneda[1], Xiuju Dai[1], Kenji Watanabe[2], Teruko Tsuda[1], Hideki Mori[1], Ken Shiraishi[1], Yoichi Mizukami[2], Yasuhiro Fujisawa[1], Jun Muto[1]

[1]Department of Dermatology, Ehime University Graduate School of Medicine, Toon, [2]Institute of Gene Research, Yamaguchi University Science Research Center, Yamaguchi

P14-05 [C04-04] **Rapid Re-Epithelialization and Delayed Collagen Production in Adult Skin Micro-Wounds**

Chen H Kuan, ○Sung-Jan Lin

Division of Plastic Surgery, Department of Surgery, National Taiwan University Hospital, Taipei

P14-06 [O06-15] **Apoptotic and necroptotic keratinocytes contribute to fibrosis in chronic graft-versus-host disease via the production of TGF-β**

○ Karin Endo[1], Yuki Ichimura[1,2], Takashi Matsui[1], Risa Konishi[1,3], Tadatsune Iida[1], Takeshi Namiki[1], Naoko Okiyama[1]

[1]Department of Dermatology, Graduate School of Medical and Dental Sciences, Institute of Science Tokyo, Tokyo, [2]Division of Rheumatology, Department of Internal Medicine, Tokyo Women's Medical University, Tokyo, [3]Department of Dermatology, Faculty of Medicine, University of Tsukuba, Tsukuba

P14-07 [O06-16] **Effects of antimicrobial peptide human B-defensin-3 on the production of intercellular adhesion molecule-1 in human dermal fibroblasts**

○ Ying Zhangwei[1], Yoshie Umehara[1], Ko Okumura[1], Hideoki Ogawa[1], François Niyonsaba[1,2]

[1]Atopy (Allergy) Research Center, Juntendo University School of Medicine, Tokyo, [2]Faculty of International Liberal Arts, Juntendo University, Tokyo

P14-08 [O06-17] **A deep learning for estimation of DESIGN-R 2020 grading score in patients with pressure ulcer**

○ Takatoshi Shimauchi[1], Tomoo Inubushi[2], Shinsuke Nakazawa[1], Etsuji Yoshikawa[2], Taisuke Ito[1], Yoshiki Tokura[1], Tetsuya Honda[1]

[1]Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, [2]Central Research Laboratory, Hamamatsu Photonics K.K., Hamamatsu

P14-09 **Dysfunction of hemidesmosomes facilitates keratinocyte migration during wound healing**

○ Atsuko Kimura, Yasushi Matsuzaki, Shogo Yao, Daisuke Sawamura, Eijiro Akasaka

The Department of Dermatology, University of Hirosaki, Hirosaki

P14-10 **Investigating the Role of Piezo1 in Keloids Linked to Mechanical Stretch**

○ Seoyoon Ham[1], Joohee Lee[1], Won Jai Lee[2,3], Jin Woong Jung[1], Ju Hee Lee[1,2], Young In Lee[1,2]

[1]Department of Dermatology & Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, [2]Scar Laser and Plastic Surgery Center, Yonsei Cancer Hospital, Seoul, [3]Department of Plastic Surgery, Yonsei University College of Medicine, Seoul

P14-11 [O06-18] **Exosomes Combined with Polymer Dots Dressings and 755 nm picosecond laser accelerate wound Healing in Nude Mice**

○ Yen-Jen Wang[1], Chang-Cheng Chang[2]

[1]Department of dermatology, MacKay Memorial Hospital, Taipei, [2]Division of plastic and reconstructive surgery, China Medical University Hospital, Taipei

P14-12 **Epalrestat, an aldose reductase inhibitor, attenuates skin fibrosis and vascular damage in bleomycin-induced scleroderma mouse model**

○ Takenao Chino[1], Miku Imai[1], Hiroshi Kasamatsu[1], Takumi Hasegawa[1], Kentaro Nishimura[1], Saori Uchida[1], Shinichiro Niwa[2], Noritaka Oyama[1], Minoru Hasegawa[1]

[1]The Department of Dermatology, University of Fukui, Fukui, [2]Link Genomics, Inc., Tokyo

P14-13 **Observation of fine three-dimensional structure of cartilage**

○ Hideki Mori[1], Ryosuke Kawakami[2], Teruko Tsuda[3], Kazuki Yatsuzuka[3], Satoshi Yoshida[3], Jun Muto[3], Asami Tozawa[1], Ken Shiraishi[3], Kenshi Imamura[2], Yasuhiro Fujisawa[3]

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P14-14 **A Complex of Three Marine Extracts Demonstrate "Retinol-like" Anti-Aging Properties without Acute Inflammatory Responses**

○ Jaime Emmetsberger[1,2], Annette Ortiz[2]

[1]La Mer, Max Huber Research Labs, New York, [2]Research & Development, The Estée Lauder Companies, NY

P14-15 [O06-19] **A Split-Face Pilot Study of Hybrid (CO2 and 1570nm) Laser versus CO2 Laser in Acne Scars**

○ Manoj K Pawar

Department of Dermatology, Chic Clinic, Muscat

P14-16 **Integrating Nrf-2 Technology with Collagen Boosters to Enhance Types I, III, and V Collagen Synthesis**

○ Jacqueline Trivero[1], Krystle Corallo[1], Nadine Pernodet[1,2]

[1]Estée Lauder Inc., R&D, NY, [2]SUNY, NY

Category 15 (P15): Translational Studies

P15-01 [I-7]

Proteomic Insights into Sex-Specific Pathways in Androgenetic Alopecia and Female Pattern Hair Loss

○ Sasin Charoensuksira[1], Jitlada Meephansan[1], Raksanawan Vanichvongvan[1], Poorichaya Somparn[2], Pattarin Tangtanatakul Tangtanatakul[3,4], Poonkiat Suchonwanit[5]

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P15-02 [C10-07]

Circulating tumor DNA detection during immunotherapy predicts progression in Merkel cell carcinoma

○ Tomoko Akaike[1], Daniel S. Hippe[2], Song Y. Park[1], Paul Nghiem[1,2], Lisa C. Zaba[3]

[1]Department of Dermatology, University of Washington School of Medicine, Seattle, [2]Fred Hutch Cancer Center, Seattle, [3]Department of Dermatology, Stanford University School of Medicine, Palo Alto

P15-03 [C04-06]

Key mediators of the IL-6 subfamily in hidradenitis suppurativa

○ Chia Bao Chu[1,2], Chao Chun Yang[1], Shaw Jenq Tsai[3]

[1]Department of Dermatology, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, [2]Institute of Basic Medical Sciences, College of Medicine, National Cheng Kung University, Tainan, [3]National Chung Cheng University, Chiayi

P15-04 [C04-07]

Blocking IL-17A, not IL-17F, Ameliorates Systemic Amyloidosis, and Both IL-17A and IL-17F Reduce Arteriosclerosis in Inflammatory Skin Mouse

○ Takehisa Nakanishi[1], Shohei Iida[1], Masako Ichishi[2], Makoto Kondo[1], Mai Nishimura[1], Ayaka Ichikawa[1], Yoshiaki Matsushima[1], Yoichiro Iwakura[3], Masatoshi Watanabe[3], Keiichi Yamanaka[1]

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P15-05

Distinct gut microbiome signatures of complete responders to omalizumab in chronic spontaneous urticaria

○ Yung-Tsu Cho, Chia-Yu Chu

Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei

P15-06 [C02-07]

Air pollution: The Hidden Connection to Microbiome Imbalance and Barrier Dysfunction

○ Suphagan Boonpethkaew[1,2], Jitlada Meephansan[1,3], Sasin Charoensuksira[1], Punyaphat Sirithanabadeekul[1,3], Chutinan Chueachavalit[1], Sunchai Payungporn[4]

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P15-07 [O06-20]

Randomized trial of a pilot study to evaluate Spincare for wound healing in Recessive Dystrophic Epidermolysis Bullosa patients

○ Yuri Ikeda, Ricardo Villanueva Gaona, Jenny Deng, Pirunthan Pathmarajah, Jean Y Tang

The Department of Dermatology, Stanford University, Palo Alto, California

P15-08

Brodalumab modulates molecular expression in psoriatic skin: the ESPRIT study

○ Akimichi Morita[1], James G. Krueger[2], Chiharu Tateishi[3], Eisaku Ogawa[4], Koji Masuda[5], Yukie Yamaguchi[6], Sandra Garcet[2], Hong Hur[2], Naomi Shishido[2], Mona Uchida-Yamada[7], Yasumasa Kanai[7]

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P15-09 [O06-21]

A role of spinal cholecystokinin-2 receptor in mechanical alloknesis

○ Mitsutoshi Tominaga[1], Kotaro Honda[1], Tomohiro Tobita[1], Eriko Komiya[1,2], Masafumi Yokota[1], Motoki Morita[1], Masaru Kurosawa[1], Sumika Toyama[1], Qiaofeng Zhao[1], Ying Zuo[1], Mao Hotta[1], Nanami Tanemoto[1], Miho Shiratori-Hayashi[1,3], Atsuko Kamo[4], Kenji Takamori[1,5]

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P15-10 [O06-22]

Increased CXCL10 and CXCR3 expression in pain and itch cutaneous neurofibroma

○ Trang Q. T. Pham[1], Hao J. Weng[1,3,4,5], Chung P. Liao[1,2]

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P15-11 [O06-23] **EGF suppresses eczema in the NC/Tnd mouse model**

○ Ryo Muko[1], Helen Williams[2], Gurdeep Singh[2], Hiroshi Matsuda[3], Joanne L Pennock[2], Peter D Arkwright[2], Akane Tanake[1,3]

[1]Institute of Global Innovation Research, Tokyo University of Agriculture & Technology, Tokyo, [2]Lydia Becker Institute of Immunology and Inflammation, University of Manchester, Manchester, [3]Laboratories of Comparative Animal Medicine, Tokyo University of Agriculture & Technology, Tokyo

P15-12 [O06-24] **Characterization of 2 distinct biomarker-defined endotypes in Japanese adult atopic dermatitis patients with moderate to severe disease**

○ Victoria Serelli-Lee[1], Akichika Ozeki[1], Christoph Preuss[2], Robert J. Benschop[2], Hitoe Torisu-Itakura[1], Takashi Matsuo[1], Jonathan T. Sims[2]

[1]Eli Lilly Japan K.K., Kobe, [2]Eli Lilly and Company, Indianapolis

P15-13 **Spatial Transcriptomic Profiling Identifies Distinct Molecular Endotypes in Atopic Dermatitis-Psoriasis Overlap**

○ Seon-Pil Jin[1,2,3], Hyo Jeong Nam[4], Yun Jung Huh[5], Hyun Je Kim[4,6,7], Jeong Eun Kim[5,8]

[1]Department of Dermatology, Seoul National University Hospital, Seoul, [2]Department of Dermatology, Seoul National University College of Medicine, Seoul, [3]Institute of Human-Environmental Interface Biology, Medical Research Center, Seoul National University, Seoul, [4]Department of Biomedical Sciences, Seoul National University Graduate School, Seoul, [5]Department of Dermatology, Hanyang University College of Medicine, Hanyang University Hospital, Seoul, [6]Department of Microbiology and Immunology, Seoul National University College of Medicine, Seoul, [7]Genomic Medicine Institute, Medical Research Center, Seoul National University, Seoul, [8]Hanyang Institute of Bioscience and Biotechnology, Hanyang University, Seoul

P15-14 **Simple, minimally invasive evaluation of inflammatory biomarkers in psoriasis via microneedle-based plasmonic fluor analysis**

○ Dai Hyun Kim[1], Hyun Mo Lee[1], Sungjae Yoo[2], Jung Min Park[1], Jiyun Lim[1,3], Yoon Jae Kim[1], Jun Hyuk Cho[1], Soo Hong Seo[1], Hyo Hyun Ahn[1], Sang Ihn Han[2]

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P15-15 **Individual Transcriptomic Profiling as a Determinant of Therapeutic Response to Patients with Atopic Dermatitis in Taiwan**

○ Tom Chan, Chung-Han Chen, Yea-Ting Lu, Wen-Li Huang, Wen-Yuan Chang, Yung-Tsu Cho, Chia-Yu Chu

Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei

P15-16 **Development of Artificial intelligence (AI)-assisted skin cancer diagnosis support software using smartphones for Koreans**

○ Dae-Lyong Ha, Nam Gyoung Ha, Weon Ju Lee

Department of Dermatology, School of Medicine, Kyungpook National University, DAEGU

P15-17 **Applications of Hyperspectral Imaging Engineering for Computer-Aided Detection of Skin Cancer**

○ Yu-Ping Hsiao[1,2], Hsiang-Chen Wang[3,4,5]

[1]Department of Dermatology, Chung Shan Medical University Hospital, Taichung, [2]School of Medicine, Chung Shan Medical University, Taichung, [3]Department of Mechanical Engineering, National Chung Cheng University, Chia Yi, [4]Department of Medical Research, Dalin Tzu Chi General Hospital, Chia Yi, [5]Technology Development, Hitspectra Intelligent Technology Co., Ltd., Kaohsiung

P15-18 **A Novel Facial Night Cream with Marine Complex and Macrocystis Pyrifera Ferment Delivers Rapid and Long-Term Benefits to Aging Appearances**

○ Lisa Di Natale[1,2], Xiaomin Zhao[3], Suyu Wang[3], Parisi Michelle[2], Lisa Schmidt[2], Uma Santhanam[1,2]

[1]La Mer, Max Huber Research Labs, New York, [2]Research & Development, The Estée Lauder Companies, NY, [3]APAC Innovation Lab, The Estée Lauder Companies, Shanghai

Late Breaking Abstract

L-01 [LO-01] **OX40/OX40L axis associates with atopic skin inflammation through impairing IL-10 production in regulatory T cells**

○ Kazuhiko Yamamura[1,2], Mika Murai-Yamamura[1], Sandra Garcet[3], Dante Dahabreh[4], Juana Gonzalez[3], Shunsuke Miura[5], Hong Beom Hur[3], Xuan Li[3], Yael Renert-Yuval[3], Yeriel Estrada[4], Tali Czarnowicki[3], Takeshi Nakahara[1,2], James G. Krueger[3], Emma Guttman-Yassky[4]

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L-02 **Olive Leaf Extract Inhibits Sebaceous Lipogenesis by Regulating the Expression of IGF1R and SREBP1**

○ Jingyi Wang, Kan Tao, Hu Huang, Huailong Chang

Research and Development Department, Shanghai Chicmax Cosmetic Co., Ltd., Shanghai

L-03 **Plasticity of skin resident memory T cells is declined in the elderly**

○ Rei Watanabe[1,2], Yutaka Matsumura[3], Hanako Koguchi-Yoshioka[3], Miki Kume[3], Manabu Fujimoto[1,3]

[1]Department of Medicine for Cutaneous Immunological Diseases, Osaka University, Suita, [2]Department of Dermatology, Juntendo University, Tokyo, [3]Department of Dermatology, Osaka University, Suita

L-04 [LO-02] **Associations of Different Inflammatory Factors with Atherosclerosis Among Patients with Psoriasis Vulgaris**

○ Nguyen Thi Kim Huong[1], Le Huu Doanh[2], Bui Long[1]

[1]Friendship Hospital, Hanoi, [2]Hanoi Medical University, Hanoi

L-05 [LO-03] **SERUM MRGPRX2 LEVELS IN CHRONIC SPONTANEOUS URTICARIA IN VIETNAMESE PATIENTS**

○ Cuc Nguyen Thi Kim[1,2], Minh Vu Nguyet[1,2], Lan Pham Thi[1,2], My Le Huyen[1], Doanh Le Huu[1,2]

[1]National Hospital of Dermatology and Venereology, Hanoi, [2]Ha Noi Medical University, Hanoi

L-06 [LO-04] **"Black-Red Dot Sign" under Dermoscopy: Significance in Screening and Antifungal Efficacy Tracking in Subcutaneous Fungal Infection lesion**

○ Yuping Ran

Dermatology, West China Hospital, Sichuan University, Chengdu

L-07 **Keratinocytes sense low ambient humidity via TRPV4 in human and mice skin**

○ Mariko Hara-Chikuma, Manami Tanaka

School of Medicine, Keio University, Tokyo

L-08 [LO-05] **The skin-specific long non-coding RNA TEDAR regulates epidermal differentiation**

Kunal Das Mahapatra[1,2], Özge Arslan[1,3], Jonathan Elton[1,2], Evelyn Kelemen[1,3], Longlong Lou[1,3], Markus Kretz[4], Enikö Sonkoly[1,3], ○ Andor Pivarcsi[1,2,3]

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L-09 [LO-06] **Biofabrication of 3D shaped skin equivalents for mechanobiology and robotic applications**

○ Minghao Nie, Michio Kawai, Yuto Matsushima, Haruka Oda, Shoji Takeuchi

The University of Tokyo, Graduate School of Information Science and Technology, Tokyo

L-10 [LO-07] **Proteasome inhibitors as potential anticancer agents for angiosarcoma cells**

○ Che-Yuan Hsu[1,2], Teruki Yanagi[1,2], Kodai Miyamoto[1,2], Satoko Otsuguro[3], Katsumi Maenaka[3,4,5,6,7], Hiroshi Nishihara[8], Hideki Nakamura[9], Kenzo Takahashi[2], Hideyuki Ujiie[1]

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L-11 [LO-08] **The Therapeutic potential of Artemisia Naphta on Seborrhoeic Dermatitis**

○ Ziyan Qin[1,2], Huailong Chang[1,2], Kan Tao[1,2], Shengnan Tang[1,2]

[1]Shanghai Chicmax Cosmetic Co., Ltd., Global R&D Center, Shanghai, [2]Shanghai KPC Biotechnology Co., Ltd., Shanghai

L-12 **Characterizing intratumoral heterogeneity in cutaneous squamous cell carcinoma using multi-regional whole-exome sequencing**

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L-13 [LO-09] **A Comprehensive Meta-analysis of the Association Between Lipid profile and Hidradenitis Suppurativa**

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L-14 [LO-10] **Indonesian brown algae *Sargassum cristaefolium* lipid extract activity against bacterial skin infection**

○ Anggit Sunarwidhi[1,2], Sri Widyastuti[3], Kukuh Waseso Jati Pangestu[2], Farreh Alan Maulana[1,2], Ervina Handayani[1,2], Mila Mayanti Kabir[1], Eka S. Prasedya[2,4]

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L-15 [LO-11] **Therapeutic Potential of Topical Cannabigerol (CBG) in the Treatment of Inflammation and Erythema in Rosacea**

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L-16 **JAK/STAT signaling pathway plays a decisive role in intractable bullous pemphigoid**

○ Hsin-Yu Chung[1], Chuang-Wei Wang[1,2,3,4,5], Wen-Hung Chung[1,2,3,4,5,6]

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L-17 **Oxytocin Enhances Brain Function and Mitigates Skin Aging in Mice**

○ Zhan Zhi Yin[1,2], Mi Hee Shin[1,2], Kyeong-No Yoon[1,2], Dong Hun Lee[1,2], Jin Ho Chung[1,2]

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L-18 [LO-12] **Microbiome-implanted *in vitro* 3D skin models to evaluate skin-microbiome interactions**

○ Hai Vin Kim[1], Young Su Jang[1], Dahye Seo[1], ARam Kim[2], Suji Son[2], Jae-Sang Ryu[2], Dong Hyun Kim[2], Jung U Shin[2]

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L-19 [LO-13] **Inhibitory Effects of Minocycline on Neutrophil Extracellular Trap Formation in Human Neutrophils and a Mouse Model of Hidradenitis Suppurativa**

○ DaHye Seo[1], JaeSang Ryu[2], YoungSu Jang[1], HaiVin Kim[1], HeeJung Lee[2], DongHyun Kim[2], Yunkyung Jang[2], JungU Shin[2]

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L-20 **Sesamin enhances apoptosis of activated T cells by physically interacting with MCL-1 and shows therapeutic effect on allergic dermatitis**

○ Hee-Suk Park, Hyun-Su Lee

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L-21 **Topical delivery of antisense oligonucleotides into lesional skin of atopic dermatitis mouse model**

○ Zacharias A. Dwi Pramono[1], Dave Keng Boon Wee[1], Hong Liang Tey[2]

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L-22 **Genotoxicity Assessment of m-Phenylenediamine using the in vitro Bacterial Reverse Mutation Test**

○ Dong Hyun Kim[1], Yong Hyun Chung[3], Yong Taek Kwon[3], Soo Jin Yoo[1], Jung Hun Lee[1], Ji Yeon Woo[1], Yeon Su Baek[3], Su Ho Lee[3], Myeong Ju Shin[3], Hwi Won Jo[3], Min Jung Kim[2], Sun Kyung Kim[1]

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L-23 [LO-14] **CXCR3/CXCL10 axis mediated memory T cell activations in DRESS patients and abated by JAK inhibitors**

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L-24 [LO-15] **Efficacy of Non-cultured Epidermal Cell Suspension and Excimer Lamps Combination Therapy in Vitiligo: Results of 18 Months Follow-up**

○ Tam Hoang Van[1,2], Davinder Parsad[3], Thuong Nguyen Van[1,2], Phuong Hoang Thi[2], Son Nguyen Hong[2], Hien Do Thi Thu[2], Tan Nguyen Manh[1,2], Hien Le Thanh[2], Hien Tran Thi Thu[1], Doanh Le Huu[1,2]

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