
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 Honda¹, Naomi Takahashi-Shishido², Tomomitsu Miyagaki^{2,3}, Hikari Boki², Shinichi Sato², Makoto Sugaya¹
¹The Department of Dermatology, International University of Health and Welfare, Narita, ²The Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo, ³Department 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 Okada¹, Sasa Noah^{1,3}, Shohei Kojima², Rie Koide², Rei Watanabe^{1,4}, Yuumi Nakamura¹, Shinichi Imafuku⁵, Yayoi Tada⁶, Shinichi Sato⁷, Masatoshi Jinnin⁷, Tatsuyoshi Kawamura⁸, Shinji Shimada⁹, Shigetoshi Sano⁹, Manabu Fujimoto⁹, Akimichi Morita¹⁰
¹Osaka University, Suita, ²RIKEN Center for Integrative Medical Sciences, Tokyo, ³The University of Tokyo, Tokyo, ⁴Juntendo University, Tokyo, ⁵Fukuoka University, Fukuoka, ⁶Teikyo University, Tokyo, ⁷Wakayama Medical University, Wakayama, ⁸University of Yamanashi, Yamanashi, ⁹Kochi University, Kochi, ¹⁰Nagoya 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 Umemura², Chihiro Hayashi², Akane Nagasako², Yoko Ino³, Yayoi Kimura³, Yukie Yamaguchi³, Yoshihiro Ishikawa¹
¹Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, Yokohama, ²Cardiovascular Research Institute (CVRI), Yokohama City University Graduate School of Medicine, Yokohama, ³Advanced 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 Kobayashi¹, Yoshikazu Hirose¹, Yuya Ouchi², Tomomi Kitayama², Eiichi Takaki², Ryoma Yamamoto², Sho Yamazaki², Machika Kawamura², Kotaro Saga¹, Takashi Shimbo¹, Manabu Fujimoto³, Katsuto Tamai¹
¹Department of Stem Cell Therapy Science, Osaka University Graduate School of Medicine, Suita-city, ²StemRIM Institute of Regeneration-Inducing Medicine, Suita-city, ³Department 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 Charoensuksira¹, Jitlada Meephanan¹, Raksanawan Vanichvongvan¹, Poorichaya Somparn², Pattarin Tangtanatakul Tangtanatakul^{3,4}, Poonkiat Suchonwanit⁵
¹Division of Dermatology, Chulabhorn International College of Medicine, Thammasat University, Pathum Thani, ²Center of Excellence in Systems Biology, Faculty of Medicine, Chulalongkorn University, Bangkok, ³Department of Transfusion Medicine and Clinical Microbiology, Faculty of Allied Health Sciences, Chulalongkorn University, Bangkok, ⁴Center of Excellence in Immunology and Immune-mediated diseases, Department of Microbiology, Chulalongkorn University, Bangkok, ⁵Division 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 Hirabayashi⁴, Mayuko Sato⁵, Kiminori Toyooka⁵, Hiroyuki Sasaki⁶, Masayuki Amagai^{2,3}
¹School of Bioscience and Biotechnology, Tokyo University of Technology, Tokyo, ²RIKEN Center for Integrative Medical Sciences, Yokohama, ³Department of Dermatology, Keio University School of Medicine, Tokyo, ⁴Institute for Life and Medical Sciences, Kyoto University, Kyoto, ⁵RIKEN Center for Sustainable Resource Science, Yokohama, ⁶Department 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 Zhao¹, Alafate Abudouwanli¹, Qun Sun¹, Mengyao Yang^{1,2}, Shan Wang^{1,3}, Shigaku Ikeda¹, Hideoki Ogawa¹, Ko Okumura¹, François Niyonsaba^{1,4}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Dermatology, the First Affiliated Hospital of China Medical University, Shenyang, ³Department of Dermatology, Beijing Children's Hospital, Capital Medical University, Beijing, ⁴Faculty 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 Okamoto¹, Yumi Aoyama³
¹Department of Pharmacology, Kawasaki Medical School, Okayama, ²Kyoto R&D Center, Maruho Co., Ltd., Kyoto, ³Department 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 Nakamoto¹, Hironobu Ishimaru¹, Tatsuki Ohta², Tetsushi Koide², Yumi Aoyama¹
¹Dermatology, Kawasaki Medical School, Kurashiki, ²Research 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 Ann¹, Yerim Choi^{1,2}, Karin Goto¹, Eung Ho Choi³, ○Yoshikazu Uchida¹, Kyungho Park¹
¹Hallym University, Chuncheon, ²LaSS Inc, Chuncheon, ³Yonsei 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 Takada¹, Miho Sashikawa-Kimura², Hossain Razib², Xiaonan Xie¹, Mayumi Komine², Mamitaro Ohtsuki², Genji Imokawa¹
¹Utsunomiya University, Utsunomiya, ²Jichi Medical University, Shimotsuke
- C01-07 [P05-10] Novel insights from changes in skin surface lipidomics profile and phenotype in various age groups**
○ Kyung Eun Lee¹, Kyong-Oh Shin², Hyeyoun Kim¹, Hee Yeon Cho¹, Minji Kim¹, Kyungho Park³, Seunghyun Kang¹
¹COSMAX BTI, Seongnam, ²LaSS Inc, Chuncheon, ³Hallym 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 Lorocrin 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}
¹Departments of Biomedical Engineering and Dermatology, National Taiwan University, Taipei, ²Departments 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 Minami², Kenji Kabashima²
¹Center for One Medicine Innovative Translational Research (COMIT), Gifu University, Gifu, ²Department 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 Kim¹, Yeon Woo Jung¹, Kwang Hoon Lee¹, Chang Ook Park^{1,2}
¹Department of Dermatology and Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, ²Brain 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. Eisenhaure⁴, David J Lieb⁴, Nir Hacohen^{2,4}, Shadmehr Demehri^{2,3}
¹MIRAI Technology Institute, Shiseido Co., Ltd., Yokohama, ²Center for Cancer Research, Massachusetts General Hospital and Harvard Medical School, Boston, ³Department of Dermatology, Massachusetts General Hospital and Harvard Medical School, Boston, ⁴Broad 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 Naka^{2,4}, Toshihiro Masuda³, Rei Watanabe^{4,5}, Manabu Fujimoto⁴
¹Drug Development Research Laboratories, Maruho Co., Ltd., Kyoto, ²Strategic research planning & management Dept., Maruho Co., Ltd., Kyoto, ³Translational Research Dept., Maruho Co., Ltd., Kyoto, ⁴Department of Dermatology, Osaka University, Osaka, ⁵Department of Dermatology, Juntendo University, Tokyo
- C02-05 [P05-11] Importance of integrin $\alpha 6\beta 4$ -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 Lee¹, Jong Ho Park², Hye-Won Na³, Ji Young Kim¹, Seohyun Park¹, Yu Jeong Bae¹, Shinwon Hwang¹, Il Joo Kwon¹, Hyoun-June Kim³, Hae Kwang Lee², Sang Ho Oh¹
¹The Department of Dermatology, Yonsei University College of Medicine, Seoul, ²P&K Skin Research Center, Seoul, ³AMOREPACIFIC 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 Charoensuksira¹, Punyaphat Sirithanabadeekul^{1,3}, Chutinan Chueachavalit¹, Sunchai Payungporn⁴
¹Division of Dermatology, Chulabhorn International College of Medicine, Thammasat University, Pathum Thani, ²Thammasat University, Pattaya Campus, Chonburi, ³BDMS Health Research Center, Bangkok Dusit Medical Services PLC., Bangkok, ⁴Research Unit of Systems Microbiology, Department of Biochemistry, Faculty of Medicine, Chulalongkorn University, Bangkok

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}
¹Atopy Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Faculty 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 Urata¹, Toshiya Miyake¹, Satoshi Nakamizo¹, Rintaro Shibuya¹, Tamotsu Yoshimori², Kenji Kabashima¹
¹Department of Dermatology, Graduate School of Medicine, Kyoto University, Kyoto, ²Health 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 Yasui², Mitsuhiro Yoneda², Sachiko Okamoto³, Yasunori Amaishi³, Daisuke Muraoka⁴, Hiroaki Ikeda², Hiroyuki Murota¹
¹Department of Dermatology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, ²Department of Oncology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, ³Tech. Development Ctr, Takara Bio Inc., Kusatsu, ⁴Aichi 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 Hasui¹, Yoshio Kawakami¹, Yoshihiro Matsuda¹, Yohei Yasutomi¹, Himino Ashida¹, Shuta Tomida², Shin Morizane¹
¹Department of Dermatology, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama University, Okayama, ²Department 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 Iioka¹, Ryota Asahina^{1,2}, Toshiya Miyake¹, Fuuka Minami¹, Kenji Kabashima¹
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Center 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 Yoshikawa¹, Ryota Hashimoto³, Toshiro Takai⁴, Sumika Toyama¹, Mitsutoshi Tominaga¹, Kenji Takamori^{1,3}
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, ²Department of Cellular Physiology Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, ³Laboratory of Cell Biology, Biomedical Research Core Facilities, Juntendo University Graduate School of Medicine, Tokyo, ⁴Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ⁵Department 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 Kato¹, Chiho Yanai¹, Ryo Muko², Yosuke Amagai², Yoshihiro Umebayashi¹, Rina Kurokawa³, Wataru Suda³, Hiroshi Matsuda², Akane Tanaka²
¹Tokyo Medical University Hachioji Medical Center, Tokyo, ²Tokyo University of Agriculture and Technology, Tokyo, ³RIKEN 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 Takegami¹, Satoru Yonekura¹, Saeko Nakajima^{1,2}, Shuto Kanameishi¹, Koki Kataoka¹, Kenji Kabashima^{1,3,4}
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Department of Drug Discovery for Inflammatory Skin Diseases, Kyoto University Graduate School of Medicine, Kyoto, ³A*STAR Skin Research Labs (A*SRL), Agency for Science, Technology and Research (A*STAR), Singapore, ⁴Singapore 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 Zhao¹, Ge Peng¹, Alafate Abudouwani¹, Arisa Ikeda^{1,2}, Quan Sun¹, Mengyao Yang^{1,3}, Shan Wang^{1,4}, Hideoki Ogawa¹, Ko Okumura¹, François Niyonsaba^{1,5}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Nephrology, Juntendo University Graduate School of Medicine, Tokyo, ³Department of Dermatology, the First Affiliated Hospital of China Medical University, Liaoning, ⁴Department of Dermatology, Beijing Children's Hospital, Capital Medical University, Beijing, ⁵Faculty of International Liberal Arts, Juntendo University, Tokyo
- O01-12 [P01-19] Regulatory function of B cells in contact hypersensitivity re-stimulation**
 ○ Yutaka Matsumura¹, Hanako Koguchi-Yoshioka¹, Rei Watanabe², Manabu Fujimoto¹
¹The Department of Dermatology, Osaka University, Suita, ²The 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-Momohara¹, Yoshinao Muro¹, Kentaro Taki², Yoshihisa Nakano³, Takashi Yokoyama¹, Takuya Takeichi¹, Masashi Akiyama¹
¹The Department of Dermatology, Nagoya University, Nagoya, ²Division for Medical Research Engineering, Nagoya University, Nagoya, ³Public Health and Health Systems, Nagoya University, Nagoya
- O01-17 [P02-13] IgM autoantibody against the basement membrane zone spontaneously generated in mice**
 ○ Chihiro Shiiya¹, Ken Muramatsu¹, Norihiro Yoshimoto¹, Sho Katayama¹, Takuya Kawamura¹, Shoko Mai¹, Yosuke Mai¹, Hiroyuki Kitahata², Yoichiro Fujioka³, Ken Natsuga¹, Hiroaki Iwata^{1,4}, Kentaro Izumi¹, Hideyuki Ujiie¹
¹The Department of Dermatology, Hokkaido University, Sapporo, ²Department of Physics, Graduate School of Science, Chiba University, Chiba, ³Department of Cell Physiology, Faculty of Medicine, Hokkaido University, Sapporo, ⁴Department 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] Mitochondrial acid-5 ameliorates fibrosis and vasculopathy in a mouse model of systemic sclerosis**
 ○ Yuichiro Segawa¹, Takehiro Takahashi¹, Takehiro Suzuki², Chitose Suzuki², Takaaki Abe², Yoshihide Asano¹
¹Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, ²Department 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 Maekawa¹, Sho Yamazaki¹, Yuya Ouchi¹, Tomomi Kitayama³, Takashi Shimbo⁴, Ikuko Ueda¹, Manabu Fujimoto¹, Katsuto Tamai²
¹Department of Dermatology, Integrated Medicine, Graduate School of Medicine, Osaka University, Suita, ²Department of Stem Cell Therapy Science, Graduate School of Medicine, Osaka University, Suita, ³StemRIM Inc, Ibaraki, ⁴Division 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 Toyoshima³, Keisuke Shimizu^{1,2}, Maho Tagui^{1,2}, Mana Ito^{1,2}, Tomomi Sakamoto², Tadashi Terui^{1,2}, Hideki Fujita^{1,2}, Yoshimichi Okayama^{2,4,5,6,7}
¹Division of Cutaneous Science, Department of Dermatology, Nihon University School of Medicine, Tokyo, ²Center for Allergy, Nihon University School of Medicine, Tokyo, ³Department of Biochemistry & Molecular Biology, Nippon Medical School, Tokyo, ⁴Department of Allergy, Internal Medicine, Misato Kenwa Hospital, Misato, ⁵Department of Medicine, Division of Respiratory Medicine, Nihon University School of Medicine, Tokyo, ⁶Department of Internal Medicine, Division of Respiratory Medicine and Allergology, Showa University School of Medicine, Tokyo, ⁷Advanced 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 Shulruf², Dedee F. Murrell^{1,2}
¹Department of Dermatology, St George Hospital, Sydney, ²Faculty 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 Koga¹, Norito Ishii¹, Masahiro Tsutsumi¹, Kwesi Teye², Mieko Kosaka³, Takekuni Nakama¹
¹Department of Dermatology, Kurume University School of Medicine, Kurume, ²Kurume University Institute of Cutaneous Cell Biology, Kurume, ³Maruho 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 Baumann⁴, My Le Huyen³, Per Stahl Skov⁴, Doanh Le Huu^{2,3}
¹Hue University of Medicine and Pharmacy, Hue, ²Hanoi Medical University, Hanoi, ³Vietnam National Dermatology and Venereology Hospital, Hanoi, ⁴Reblab, 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 Tajima¹, Naotomo Kambe², Izumi Kishimoto¹, Noriko Kume¹, Fumikazu Yamazaki³, Hideaki Tanizaki¹
¹Department of Dermatology, Kansai Medical University, Hirakata, ²Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ³Department 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 Huang³, Cheng-Che E. Lan^{2,3}
¹Graduate Institute of Clinical Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung City, ²Department of Dermatology, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung City, ³Department 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. Kumar¹, Satoru Sugihara¹, Sachit Seth², Gency Gunasingh¹, Loredana Spoerri¹, Cassandra Rowe¹, Helmut Schaidler¹, Kiarash Khosrotehrani¹, Rupert Ecker², Nikolas K. Haass¹
¹Frazer Institute, University of Queensland, Brisbane, ²TissueGnostics, Vienna

- O04-09 [P03-14] The dual function of antimicrobial peptides in melanoma: Perspectives from experimental and clinical research**
 ○ Quan Sun¹, Ge Peng¹, Wanchen Zhao¹, Alafate Abudouwanli¹, Mengyao Yang^{1,2}, Shan Wang^{1,3}, Hideoki Ogawa¹, Ko Okumura¹, François Niyonsaba^{1,4}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Dermatology, The First Hospital of China Medical University, Shenyang, ³Department of Dermatology, Beijing Children's Hospital, Capital Medical University, National Center for Children's Health, Beijing, ⁴Faculty 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 Phusuphitchayan¹, Apasee Sooksamran¹, Poonnawis Sudtikoonaseth¹, Titaporn Nopmaneepaisarn², Nutpacha Chotikawichean²
¹Institute of Dermatology, Bangkok, ²Department 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 Tsukamoto¹, Yohei Iwata¹, Chiho Sumitomo^{1,2}, Kazumitsu Sugiura¹
¹The Department of Dermatology, Fujita Health University, Toyoake, ²SUMITOMO 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 Nishitani¹, Satoshi Nakamizo¹, Takero Shindo², Yo Kaku¹, Masakazu Fujimoto³, Masahiro Hirata³, Kai Mizoguchi³, Kazuhiro Kawai¹, Kenji Kabashima¹
¹Department of Dermatology, Kyoto University, Kyoto, ²Department of Hematology and Oncology, Kyoto University, Kyoto, ³Department of Diagnostic Pathology, Kyoto University, Kyoto, ⁴Department 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 Yamada¹, Yohei Iwata¹, Chiho Sumitomo^{1,2}, Kazumitsu Sugiura¹
¹The Department of Dermatology, Fujita Health University, Toyoake, ²SUMITOMO 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 Yui¹, Bowen Xia⁴, ZF Liu^{5,6}, Lawrence Lin⁵, Christopher Chew^{5,6,7,8}
¹Sinclair Dermatology Investigational Research Education and Clinical Trials (DIRECT), Melbourne, ²Faculty of Medicine, University of Melbourne, Melbourne, ³Department of Dermatology, Royal Melbourne Hospital, Melbourne, ⁴Monash Health, Melbourne, ⁵Faculty of Medicine, Monash University, Melbourne, ⁶Department of Dermatology, Alfred Health, Melbourne, ⁷Victorian Melanoma Service, Alfred Health, Melbourne, ⁸Skin 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 Sousa², Sofoklis Koudounas², Onur Egriboz², Wolfgang Funk³, Maximilian Kueckelhaus⁴, Ilaria Piccini², Marta Bertolini², Kentaro Kajiya¹
¹MIRAI Technology Institute, Shiseido Co., Ltd., Yokohama, ²Monasterium Laboratory Skin & Hair Research Solutions GmbH, Muenster, ³Schoenheitsklinik Dr Funk, Muenchen, ⁴Clinic 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 Hamanaka¹, Ken Ishii^{1,2}, Mari Urushibata¹, Kenji Yoshida¹, Akira Ishiko¹
¹The Department of Dermatology, Toho University School of Medicine, Tokyo, ²The 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 Kim², So Yeon Myeong¹, Yeongeun Kim¹, Jin Cheol Kim¹, Tae Jun Park², Hee Young Kang¹
¹Department of Dermatology, Ajou University School of Medicine, Suwon, ²Department of Biochemistry and Molecular Biology, Ajou University School of Medicine, Suwon
- O04-23 [P04-14] Proteases that activate pro-IL-36s in sterile neutrophilic 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 Aioi¹, Tomozumi Imamichi², Jun-ichi Kashiwakura³, Emiko Okuda-Ashitaka⁴
¹Basic Research, Septem-Soken, Osaka, ²Frederick National Laboratory for Cancer Research, Applied and Developmental Research Directorate, Frederick, ³Department of Life Science, Faculty of Pharmaceutical Sciences, Hokkaido University of Science, Sapporo, ⁴Department 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 Kim², Tae Jun Park^{3,4}, Hee Young Kang^{1,4}
¹Department of Dermatology, Ajou University School of Medicine, Suwon, ²Department of Biomedical Science, The Graduate School, Ajou University, Suwon, ³Department of Biochemistry and Molecular Biology, Ajou University School of Medicine, Suwon, ⁴Inflamm-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-36 γ 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 Hayakawa¹, Ryo Takahashi², Masahiro Fukuyama¹, Aki Tsukashima¹, Momoko Kimishima¹, Yoshimi Yamazaki¹, Manabu Ohyama^{1,2}
¹Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo, ²Flow 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 Kande², Ayano Narumoto², Dai Ihara², Noriki Fujimoto¹, Hayato Naka-Kaneda²
¹Department of Dermatology, Shiga University of Medical Science, Otsu, ²Department 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 Shido¹, Kaname Kojima³, Ikuko N. Motoike³, Kengo Kinoshita^{3,4,5,6}, Yoshihide Asano¹
¹Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, ²Aloop Clinic & Lab, Tokyo, ³Department of Integrative Genomics, Tohoku Medical Megabank Organization, Tohoku University, Sendai, ⁴Graduate School of Information Sciences, Tohoku University, Sendai, ⁵Advanced Research Center for Innovations in Next-Generation Medicine, Tohoku University, Sendai, ⁶Institute 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 Miyai¹, Akira Motoyama¹, Junichiro Hiruma², Mami Yamamoto³, Ryoji Tsuboi², Toshihiko Hibino^{1,2}
¹Shiseido Co., Ltd., MIRAI Technology Institute, Yokohama, ²Department of Dermatology, Tokyo Medical University, Tokyo
- O02-02 [P05-13] High resolution imaging of intra-dermal distributions of cosmetic ingredients using NanoSIMS**
Keishi Kihara¹, Akira Motoyama¹, ○ Kazuhiro Matsuda²
¹MIRAI Technology Institute, Shiseido Co., Ltd., Yokohama, ²Surface Science Laboratories, Toray Research Center, Inc., Shiga
- O02-03 [P05-14] Lorricrin 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 filaggrin-2 and hornerin: Analysis of a three-dimensional psoriatic skin model**
○ Teruhiko Makino¹, Megumi Mizawa¹, Keita Takemoto¹, Seiji Yamamoto², Tadamichi Shimizu¹
¹Department of Dermatology, University of Toyama, Toyama, ²Department 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 Abudouwanli¹, Ge Peng¹, Wanchen Zhao¹, Arisa Ikeda^{1,2}, Quan Sun¹, Mengyao Yang^{1,3}, Shan Wang^{1,4}, Ko Okumura¹, Hideoki Ogawa¹, François Niyonsaba^{1,5}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Nephrology, Juntendo University Graduate School of Medicine, Tokyo, ³Department of Dermatology, The First Affiliated Hospital of China Medical University, Shenyang, Liaoning, ⁴Department of Dermatology, Beijing Children's Hospital, Capital Medical University, National Center for Children's Health, Beijing, ⁵Faculty of International Liberal Arts, Juntendo University, Tokyo
- O02-08 [P05-19] Lorricrin 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 Deng², Jian (Richard) Cao², Nadine Pernodet³
¹Dr. Jart+, Asia Advanced Technology Pioneering, Shanghai, ²Estée Lauder Companies R&D, Asia Innovation Center, Shanghai, ³R&D, The Estée Lauder Companies, NY
- O02-10 [P05-25] Analyses of genes related to epidermal hyperplasia**
○ Tomohiro Tobita¹, Mitsutoshi Tominaga¹, Kenji Takamori^{1,2}
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender Specific Medicine, Juntendo Univ. Graduate school of Medicine, Urayasu, ²Department 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 Yoshikawa¹, Takuya Takeichi¹, Kazuki Nishida², Yumiko Kobayashi², Kazumitsu Sugiura³, Yoshinao Muro¹, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, ²Department of Advanced Medicine, Nagoya University Hospital, Nagoya, ³Department 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 Yamashita¹, Makiko Koike-Kumagai¹, Manabu Fujimoto², Mari Wataya-Kaneda^{1,2}
¹Department of Neurocutaneous Medicine, Division of Health Sciences, Graduate School of Medicine, Osaka University, Osaka, ²Department 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 Teye¹, Hiroshi Koga², Masahiro Tsutsumi², Norito Ishii², Takahiro Hamada², Takekuni Nakama²
¹Kurume University Institute of Cutaneous Cell Biology, Kurume, ²Department 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 Kaneda¹, Hanako Koguchi-Yoshioka^{1,2}, Satoshi Hattori³, Keisuke Nimura⁴, Saki Ishino⁵, Manabu Fujimoto¹, Mari Wataya-Kaneda^{1,2}
¹The Department of Dermatology, Osaka University, Suita, ²The Department of Neurocutaneous Medicine, Osaka University, Suita, ³The Department of Biomedical Statistics, Osaka University, Suita, ⁴The Division of Gene Therapy Science, Osaka University, Suita, ⁵The 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 Yoshioka¹, Sonoko Saito², Satomi Aoki², Hiroaki Hanafusa³, Takashi Seo⁴, Ken Natsuga⁴, Kazuhiko Nakabayashi⁵, Masayuki Amagai², Takeshi Fukumoto¹, Akiko Kubo¹, Akiharu Kubo^{1,2}
¹Division of Dermatology, Department of Internal Related, Graduate School of Medicine, Kobe University, Kobe, ²Department of Dermatology, Keio University School of Medicine, Tokyo, ³Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, ⁴Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, ⁵Department 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 Omi¹, Takuya Takeichi^{1,2}, Yasutoshi Ito^{1,3}, Takenori Yoshikawa¹, Yuki Mizutani^{4,5}, Miki Nagai⁴, Mariko Seishima^{6,7}, Tomoo Ogi^{8,9}, Yoshinao Muro¹, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, ²Nagoya University Institute for Advanced Research, Nagoya, ³Department of Dermatology, National Hospital Organization, Nagoya Medical Center, Nagoya, ⁴Gifu Prefectural General Medical Center, Gifu, ⁵Department of Dermatology, Mie University, Graduate School of Medicine, Tsu, ⁶Department of Dermatology, Asahi University Hospital, Gifu, ⁷Department of Dermatology, Gifu University Graduate School of Medicine, Gifu, ⁸Department of Genetics, Research Institute of Environmental Medicine (RIeM), Nagoya University, Nagoya, ⁹Department 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. Aala², Yi-Kai Hong^{1,4}, Alexandros Onoufriadis³, John A. McGrath^{1,3}, Chao-Kai Hsu^{1,2,4}
¹Department of Dermatology, National Chun Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, ²Institute of Clinical Medicine, College of Medicine, National Cheng Kung University, Tainan, ³St Johns Institute of Dermatology, School of Basic and Medical Biosciences, Kings College London, London, ⁴International Center for Wound Repair and Regeneration, National Cheng Kung University, Tainan, ⁵Tainan Hospital, Ministry of Health and Welfare, Tainan
- O02-21 [P06-17] Genetic association between palmoplantar pustulosis and HLA polymorphisms**
 ○ Nobuhiro Takahashi^{1,2}, Tomomichi Shimizu¹, Akio Kondoh¹, Fumikazu Yamazaki¹, Shingo Suzuki², Takahi Shiina², Tomotaka Mabuchi¹
¹Tokai University School of Medicine, Isehara, ²Department 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 Uematsu², Kosuke Fujimoto², Daisuke Tsuruta¹, Satoshi Uematsu²
¹Department of Dermatology, Graduate School of Medicine, Osaka Metropolitan University, Osaka, ²Department 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 Kawakami¹, Ken-Ichi Hasui¹, Yoshihiro Matsuda¹, Yohei Yasutomi¹, Himino Ashida¹, Ai Kajita¹, Yoji Hirai¹, Keiji Iwatsuki¹, Shuta Tomida², Shin Morizane¹
¹Department of Dermatology, Okayama University, Okayama, ²Department of Biobank, Okayama University, Okayama

- O02-25 [P07-12] Skin keratinocytes expressing mutation in the Cx26 gene cause susceptibility to chronic cutaneous candidiasis**
○ Alshimaa Mostafa¹, Teruasa Murata^{1,2}, Akihiko Kitoh¹, Hiromi Doi¹, Gyohei Egawa^{1,3}, Kenji Kabashima¹
¹The Department of Dermatology, Kyoto University, Kyoto, ²Department of Dermatology, Hyogo Medical University, Hyogo, ³Department 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}
¹Department of Dermatology, College of Medicine, Kaohsiung Medical University, Kaohsiung, ²Department of Dermatology, Kaohsiung University Gangshan Hospital, Kaohsiung, ³Department of Dermatology, Kaohsiung Medical University Hospital, Kaohsiung, ⁴Master of Public Health Degree Program, College of Public Health, National Taiwan University, Taipei, ⁵National Institute of Environmental Health Sciences, National Health Research Institutes, Miaoli, ⁶Graduate 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 Kabashima¹
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Alliance 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 Kobayashi¹, Hideki Nakagawa², Masato Komai³
¹Department of Dermatology, Seibo International Catholic Hospital, Tokyo, ²Department of Otolaryngology, Seibo International Catholic Hospital, Tokyo, ³Research 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 Morisaka¹, Kazuhiko Maeda^{2,3}, Manabu Fujimoto⁴, Shizuo Akira^{2,3}
¹Department of Stem Cell Gene Therapy Science, Graduate School of Medicine, Osaka University, Suita, ²Laboratory of Host Defense, World Premier Institute-Immunology Frontier Research Center (WPI-IFReC), Osaka University, Suita, ³Department of Host Defense, Research Institute for Microbial Diseases (RIMD), Osaka University, Suita, ⁴Department 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 Katakai², Riichiro Abe¹
¹Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, ²Department 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 Nguyen¹, Minh Ho³, ○ Bao C Bui²
¹Department of Omics, International University, Ho Chi Minh, ²University of Health Sciences, Vietnam National University, Ho Chi Minh, ³Department 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 Chen², Seiji Kamijo², Saya Shimizu², Mitsutoshi Tominaga³, Kenji Takamori¹, Hideoki Ogawa¹, Ko Okumura², Shigaku Ikeda¹, Rei Watanabe¹, Toshiro Takai²
¹Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, ²Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ³Juntendo 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 Kamijo², Yurie Masutani^{1,2}, Tomoko Yoshimura^{1,2}, Saya Shimizu², Keiko Takada^{1,2}, Mengnan Chen², Sakiko Maruyama^{1,2}, Hideoki Ogawa¹, Ko Okumura², Rei Watanabe¹, Shigaku Ikeda¹, Toshiro Takai²
¹Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, ²Atopy (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 Kyung¹, Dongeol Lee¹, Seunghyun Kang¹, Dong Keon Yon^{2,3}, Selin Woo², Minji Kim², Hayeon Lee², Jiseung Kang³, Masoud Rahmati⁴, Yujun Park⁶, Seyoung Mun⁶
¹COSMAX BTI, Seongnamsi, ²Center of Digital Health, Kyung Hee University Medical Center, Seoul, ³Department of Anesthesia, Massachusetts General Hospital, Boston, ⁴Department of Physical Education and Sport Sciences, Lorestan University, Khoramabad, ⁵Department of Pediatrics, Kyung Hee University Medical Center, Seoul, ⁶Department 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 Igawa¹, Akemi Ishida-Yamamoto¹, Noriaki Toyota², Mari Kishibe¹
¹Department of Dermatology, Asahikawa Medical University, Asahikawa, ²Minami 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 Yamakuchi³, Tomoko Fukushige¹, Takuro Kanekura¹, Teruto Hashiguchi³, Gyohei Egawa¹
¹Department of Dermatology, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, ²Department of Dermatology, Kagoshima City Hospital, Kagoshima, ³Department 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 Nozaki¹, Tomoe Nakagawa¹, Kaori Umekage¹, Kyoko Kanno¹, Mari Kishibe¹, Masaru Honma², Akemi Ishida-Yamamoto¹
¹Department of Dermatology, Asahikawa Medical University, Asahikawa, ²International 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 Miyata¹, Jun Yamagami², Yuko Takenaka², Mai Onuki², Tomoaki Sawayanagi³, Naoko Ishiguro²
¹Department of Dermatology, Tokyo Women's Medical University Yachiyo Medical Center, Chiba, ²Department of Dermatology, Tokyo Women's Medical University, Tokyo, ³Realinite Co., Ltd., Tokyo
- O05-18 [P09-13] Comparison between Local Anesthetic Minimal-Invasive Liposuction (LAMS) using normal saline and half saline**
 ○ Kyungho Paik¹, Nam Chul Kim², Jeong Eun Kim², Jinmook Jeong², Chang-Hun Huh¹
¹Seoul National University Bundang Hospital, Seongnam, ²365mc 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 Yang², Liwei Wang¹, Chao Yuan¹, Rachel Zhao², Yan Zhong², Lucas Kruger³, Kristine Schmalenberg³
¹Department of Skin and Cosmetic Research, Shanghai Skin Disease Hospital, School of Medicine, Tongji University, Shanghai, ²APAC Innovation Center, the Estée Lauder Companies, Shanghai, ³Global 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 Yuan¹, Liwei Wang¹, Yunyun Zheng², Xiaomin Zhao², Yan Zhong², Lucas Kruger³, Kristine Schmalenberg³, Hao Ouyang³
¹Department of Skin and Cosmetic Research, Shanghai Skin Disease Hospital, School of Medicine, Tongji University, Shanghai, ²APAC Innovation Center, the Estée Lauder Companies, Shanghai, ³Global 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 Wang¹, Chao Yuan¹, Shuyan Yang², Xiaomin Zhao², Yan Zhong², Lucas Kruger³, Kristine Schmalenberg³
¹Shanghai Skin Disease Hospital, Shanghai, ²APAC Innovation Center, the Estée Lauder Companies, Shanghai, ³Global Clinical and Consumer Sciences, The Estée Lauder Companies, NY
- O05-23 [P10-07] Cytoprotection mechanisms of keratinocyte cytoprotectants against sorafenib toxicity**
 ○ Yayoi Kamata¹, Rui Kato², Mitsutoshi Tominaga¹, Sumika Toyama¹, Eriko Komiya¹, Jun Utsumi¹, Takahide Kaneko², Yasushi Suga², Kenji Takamori^{1,2}
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Urayasu, ²Department 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 Kume¹, Rei Watanabe², Manabu Fujimoto¹, ○Eiji Kiyohara¹

¹Department of Dermatology, Course of Integrated Medicine, Graduate School of Medicine, Osaka University, Osaka, ²Department 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 skin graft**
 ○ Yoshikazu Hirose¹, Asaka Miura¹, Yuki Kobayashi², Yuya Ouchi², Tomomi Kitayama², Takashi Shimbo¹, Akio Tanaka³, Manabu Fujimoto⁴, Katsuto Tamai^{1,2}
¹Department of Stem Cell Therapy Science, Graduate School of Medicine, Osaka University, Osaka, ²StemRIM Inc., Osaka, ³Department of Dermatology, Graduate School of Biomedical and Health Sciences, Hiroshima University, Hiroshima, ⁴Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka
- C04-02 [P14-03] Collective cell migration dynamics of stratified epithelia under spatial confinement**
 ○ Takuma Nohara¹, Ken Natsuga¹, Yosuke Mai¹, Junichi Kumamoto², Masaharu Nagayama², Tsukasa Oikawa³, Hideyuki Ujiiie¹
¹Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, ²Research Institute for Electronic Science, Hokkaido University, Sapporo, ³Department 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 Taneda¹, Xiuju Dai¹, Kenji Watanabe², Teruko Tsuda¹, Hideki Mori¹, Ken Shiraishi¹, Yoichi Mizukami², Yasuhiro Fujisawa¹, Jun Muto¹
¹Department of Dermatology, Ehime University Graduate School of Medicine, Toon, ²Institute 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
 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 Yang¹, Shaw Jenq Tsai³
¹Department of Dermatology, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, ²Institute of Basic Medical Sciences, College of Medicine, National Cheng Kung University, Tainan, ³National 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 Nakanishi¹, Shohei Iida¹, Masako Ichishi², Makoto Kondo¹, Mai Nishimura¹, Ayaka Ichikawa¹, Yoshiaki Matsushima¹, Yoichiro Iwakura³, Masatoshi Watanabe³, Keiichi Yamanaka¹
¹Department of Dermatology, Mie University Graduate School of Medicine, Tsu, ²Department of Oncologic Pathology, Mie University Graduate School of Medicine, Tsu, ³Center 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 Miyazaki¹, Tomoki Taki¹, Kae Nakamura², Hiromasa Tanaka², Masaru Hori², Katsumi Ebisawa³, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University, Nagoya, ²Center for Low-Temperature Plasma Sciences, Nagoya University, Nagoya, ³Department 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 Peng¹, Quan Sun¹, Wanchen Zhao¹, Alafate Abudouwanli¹, Arisa Ikeda³, Shan Wang⁴, Hideoki Ogawa¹, Ko Okumura¹, François Niyonsaba^{1,5}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Dermatology, The First Hospital of China Medical University, Shenyang, ³Department of Nephrology, Juntendo University Graduate School of Medicine, Tokyo, ⁴Department of Dermatology, Beijing Children's Hospital, Capital Medical University, National Center for Children's Health, Beijing, ⁵Faculty 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 Chuang¹
¹Department of Dermatology, Taipei Medical University Hospital, Taipei, ²Department of Dermatology, School of Medicine, College of Medicine, Taipei Medical University, Taipei, ³Department 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 Shime¹, Mizuyu Odanaka¹, Masaki Imai², Akimichi Morita³, Sayuri Yamazaki¹
¹Department of Immunology, Nagoya City University Graduate School of Medical Sciences, Nagoya, ²Department of Medical Technology and Sciences, Faculty of Health Sciences, Kyoto Tachibana University, Kyoto, ³Department 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 Watanabe¹, Takamichi Ito³, Takeshi Nakahara³, Manabu Fujimoto¹, Katsumasa Fujita^{2,4}, Atsushi Tanemura¹
¹Department of Dermatology, Osaka University, Suita, ²Department of Applied Physics, Osaka University, Suita, ³Department of Dermatology, Kyushu University, Fukuoka, ⁴Institute 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 Ichigozaki¹, Toshihiro Kimura¹, Haruka Kuriyama¹, Hisashi Kanemaru¹, Azusa Miyashita¹, Rong Zhang², Yasushi Uemura², Satoshi Fukushima¹
¹Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, ²Division 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 Sugihara¹, Kota Tachibana¹, Jordan Kumar¹, Gency Gunasingh¹, Glen M Boyle², Nikolas K. Haass¹
¹Frazer Institute, the University of Queensland, Brisbane, ²QIMR Berghofer Medical Research 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 [P12-15] Withdrawn**
- O03-15 [P12-15] Precision diagnostics for early melanoma detection using spatial biology and AI-guided image analysis**
○ Yung-Ching Kao¹, Andrew Causer², Chenhao Zhou¹, Xiao Tan², Darren Smit¹, Katie J. Lee¹, Blake O'Brien³, Angus Collins³, Kiarash Khosrotehrani^{1,4}, H. Peter Soyer^{1,4}, Quan Nguyen^{2,5}, Mitchell S. Stark¹
¹Frazer Institute, The University of Queensland, Dermatology Research Centre, Brisbane, ²QIMR Medical Research Institute, Brisbane, ³Sullivan Nicolaides Pathology, Brisbane, ⁴Department of Dermatology, Princess Alexandra Hospital, Brisbane, ⁵Institute 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 Li¹, Sanjay Lietzau^{1,2}, Jenny Chung^{1,3}, Akinori Kawakami¹, Kenji Kabashima¹
¹The Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Hannover Medical School, Hannover, ³CUNY School of Medicine, New York
- O03-18 [P12-18] Investigation of the effect of TRPV1 inhibitor on skin damage caused by heat**
○ Yu Gabe¹, Keigo Kawabata¹, Miyuki Sudo², Keigo Kajiwara², Shingo Too², Yoshito Takahashi¹
¹Biological Science Research, Kao Corporation, Odawara, ²Skin 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 Wang¹, Ting-Ting Chen², Cheng-Lin Wu³, Wei-Ting Liu⁴, Yi-Hsuan Huang⁵, Tak-Wah Wong^{2,4,6}
¹Institute of Basic Medical Sciences, College of Medicine, National Cheng Kung University, Tainan, ²Department of Biochemistry and Molecular Biology, College of Medicine, National Cheng Kung University, Tainan, ³Department of Pathology, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, ⁴Department of Dermatology, National Cheng Kung University Hospital, Tainan, ⁵Department of Oncology, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, ⁶Center 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 Deng¹, Xi Yang¹, Kelly Dong², Jian (Richard) Cao¹, Nadine Pernodet²
¹Estée Lauder Companies Research and Development, Shanghai, ²Research 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 Koike¹, Takako Shibata¹, Kiyotaka Hasegawa¹, Tamio Suzuki²
¹Shiseido Co., Ltd., MIRAI Technology Institute, Yokohama, ²Department of Dermatology, Yamagata University Faculty of Medicine, Yamagata
- O03-24 [P12-26] A potent reagent against UV-induced carbonylation and skin yellowness**
○ Xi Yang¹, Jian (Richard) Cao¹, Nadine Pernodet²
¹Estée Lauder Companies Research and Development, Shanghai, ²Research and Development, The Estée Lauder Companies, NY
- O03-25 [P12-29] Anti-glycation and anti-skin sallowness effects of Siegesbeckia Orientalis extract on skin models**
○ Jian (Richard) Cao¹, Xi Yang¹, Binwei Deng¹, Nadine Pernodet²
¹Estée Lauder Companies R&D, Shanghai, ²R&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 Li¹, Yuping Su², Xi Yang¹, Yu Lin³, Senping Fan², Huanjun Zhou¹, Hao Long², Jian (Richard) Cao¹, Tom Mammon³, Nadine Pernodet³
¹The Estée Lauder Companies Innovation (China), Shanghai, ²School of Electronic Science and Engineering (National Model Microelectronics College) Xiamen University, Xiamen, ³R&D, The Estée Lauder Companies, NY
- O06-02 [P13-12] Chemical Modulation of mitochondria-ER contacts: Effects in Melanogenesis**
○ Federica Dal Bello¹, Natasha Kaar¹, Sara Schiavon¹, Emad Norouzi Esfahani¹, Tomas Knedlik¹, Alessio Gianelle², Florine Grudet¹, Paula Rebelo¹, Giovanni Marzaro³, Adriana Chilin³, Marta Giacomello^{1,4}
¹Department of Biology, University of Padova, Padova, ²Sezione INFN di Padova, Padova, ³Department of Pharmaceutical and Pharmacological Sciences, University of Padova, Padova, ⁴Department 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 Kageyama¹, Keiko Sakamoto^{1,2}, Satoshi Nakamizo³, Kenji Kabashima³, Keisuke Nagao², Tetsuya Honda¹
¹Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, ²Cutaneous Leukocyte Biology Section, Dermatology Branch, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Bethesda, ³Department 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-Ise¹, Taiichiro Ida³, Masayuki Amagai², Manabu Ohyama¹
¹Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo, ²Department of Dermatology, Keio University School of Medicine, Tokyo, ³Advantest Corporation, Saitama
- O06-06 [P13-16] Possible role of spinal semaphorin 3A in itch and pain perceptions**
○ Motoki Morita¹, Mitsutoshi Tominaga¹, Yayoi Kamata¹, Kenji Takamori^{1,2}
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, ²Department 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 Honda¹, Mitsutoshi Tominaga¹, Kenji Takamori^{1,2}
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Urayasu, ²Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu
- O06-09 [P13-19] Mechanism of histamine production and secretion by sweat gland cells**
○ Hayato Mizuno¹, Shunsuke Takahagi^{1,2}, Kazue Uchida¹, Kaori Ishii¹, Akio Tanaka¹
¹Department of Dermatology, Institute of Biomedical & Health Sciences, Hiroshima University, Hiroshima, ²Division 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 Mi¹, Binwei Deng¹, Jian (Richard) Cao¹, Nadine Pernodet²
¹Research and Development, The Estée Lauder Companies, Shanghai, ²Research 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 Xie¹, Huanjun Zhou¹, Jin Yan Song², Zitao Ma³, Tianhao Li³, Xiao Long³, Danning Zeng¹, Xiaodi Wang¹, Su Shi⁴, Yulan Qu¹, Yajun Luo¹, Haidong Kan⁴, Jian (Richard) Cao¹, Nadine Pernodet⁵
¹Estée Lauder Companies Innovation R&D (China) Co., Ltd, Shanghai, ²Hangzhou C2H4 Internet Technology Co., Ltd., Hangzhou, ³Department of Plastic and Reconstructive Surgery, Peking Union Medical College Hospital, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, ⁴School 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, ⁵R&D, The Estée Lauder Companies, Melville, NY

- O06-12 [P13-22] Role of Cutaneous Neuroinflammation and Potential Dorsal Root Ganglion in Rosacea**
 Dawoon Han¹, ○ Jihee Kim²
¹Department of Dermatology, Yonsei University college of Medicine, Seoul, ²Department 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 Zhao¹, Mitsutoshi Tominaga¹, Sumika Toyama¹, Kenji Takamori^{1,2}
¹Juntendo Itch Research Center, Institute for Environmental and Gender-Specific Medicine, Juntendo University, Tokyo, ²Department 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 Endo¹, Yuki Ichimura^{1,2}, Takashi Matsui¹, Risa Konishi^{1,3}, Tadatsune Iida¹, Takeshi Namiki¹, Naoko Okiyama¹
¹Department of Dermatology, Graduate School of Medical and Dental Sciences, Institute of Science Tokyo, Tokyo, ²Division of Rheumatology, Department of Internal Medicine, Tokyo Women's Medical University, Tokyo, ³Department of Dermatology, Faculty of Medicine, University of Tsukuba, Tsukuba
- O06-16 [P14-07] Effects of antimicrobial peptide human B-defensin-3 on the production of intercellular adhesion molecule-1 in human dermal fibroblasts**
 ○ Ying Zhangwei¹, Yoshie Umehara¹, Ko Okumura¹, Hideoki Ogawa¹, François Niyonsaba^{1,2}
¹Atopy (Allergy) Research Center, Juntendo University School of Medicine, Tokyo, ²Faculty 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 Shimauchi¹, Tomoo Inubushi², Shinsuke Nakazawa¹, Etsuji Yoshikawa², Taisuke Ito¹, Yoshiki Tokura¹, Tetsuya Honda¹
¹Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, ²Central 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 Wang¹, Chang-Cheng Chang²
¹Department of dermatology, MacKay Memorial Hospital, Taipei, ²Division 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 allodynia**
 ○ Mitsutoshi Tominaga¹, Kotaro Honda¹, Tomohiro Tobita¹, Eriko Komiya^{1,2}, Masafumi Yokota¹, Motoki Morita¹, Masaru Kurosawa¹, Sumika Toyama¹, Qiaofeng Zhao¹, Ying Zuo¹, Mao Hotta¹, Nanami Tanemoto¹, Miho Shiratori-Hayashi^{1,3}, Atsuko Kamo⁴, Kenji Takamori^{1,5}
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Urayasu, ²Department of Functional Morphology, Faculty of Pharmacy, Juntendo University, Urayasu, ³Department of Molecular and Systems Pharmacology, Faculty of Pharmacy, Juntendo University, Urayasu, ⁴Laboratory of Clinical Pathophysiology, Juntendo University Graduate School of Health Care and Nursing, Urayasu, ⁵Department 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. Pham¹, Hao J. Weng^{1,3,4,5}, Chung P. Liao^{1,2}
¹International Ph.D. Program in Cell Therapy and Regenerative Medicine, College of Medicine, Taipei Medical University, Taipei, ²Graduate Institute of Medical Sciences, College of Medicine, Taipei Medical University, Taipei, ³Graduate Institute of Clinical Medicine, College of Medicine, Taipei Medical University, Taipei, ⁴Department of Dermatology, Taipei Medical University-Shuang Ho Hospital, New Taipei, ⁵Department 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 Muko¹, Helen Williams², Gurdeep Singh², Hiroshi Matsuda³, Joanne L Pennock², Peter D Arkwright², Akane Tanaka^{1,3}
¹Institute of Global Innovation Research, Tokyo University of Agriculture & Technology, Tokyo, ²Lydia Becker Institute of Immunology and Inflammation, University of Manchester, Manchester, ³Laboratories 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-Lee¹, Akichika Ozeki¹, Christoph Preuss², Robert J. Benschop², Hitoe Torisu-Itakura¹, Takashi Matsuo¹, Jonathan T. Sims²

¹Eli Lilly Japan K.K., Kobe, ²Eli 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-Yamamura¹, Sandra Garcet³, Dante Dahabreh⁴, Juana Gonzalez³, Shunsuke Miura⁵, Hong Beom Hur³, Xuan Li³, Yael Renert-Yuval³, Yeriel Estrada⁴, Tali Czarnowicki³, Takeshi Nakahara^{1,2}, James G. Krueger³, Emma Guttman-Yassky⁴
¹Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, ²Research and Clinical Center for Yusho and Dioxin, Kyushu University, Fukuoka, ³Laboratory of Investigative Dermatology, The Rockefeller University, New York, ⁴Department of Dermatology, Icahn School of Medicine at the Mount Sinai Medical Center, New York, ⁵Department 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 Huong¹, Le Huu Doanh², Bui Long¹
¹Friendship Hospital, Hanoi, ²Hanoi 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 Huyen¹, Doanh Le Huu^{1,2}
¹National Hospital of Dermatology and Venereology, Hanoi, ²Ha 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 Kretz⁴, Enikő Sonkoly^{1,3}, Andor Pivarcsi^{1,2,3}
¹Department of Medical Biochemistry and Microbiology, Uppsala University, Uppsala, ²Department of Medicine Solna, Karolinska Institute, Stockholm, ³Dermatology and Venereology, Department of Medical Sciences, Uppsala University, Uppsala, ⁴Institute 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^{1,3}, Satoko Otsuguro³, Katsumi Maenaka^{3,4,5,6,7}, Hiroshi Nishihara⁸, Hideki Nakamura⁹, Kenzo Takahashi², Hideyuki Ujiie¹
¹Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, ²Department of Dermatology, Graduate School of Medicine, University of the Ryukyus, Okinawa, ³Center for Research and Education on Drug Discovery, Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo, ⁴Laboratory of Biomolecular Science, Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo, ⁵Division of Pathogen, Structure, International Institute for Zoonosis Control, Hokkaido University, Sapporo, ⁶Institute for Vaccine Research & Development, Hokkaido University, Sapporo, ⁷Faculty of Pharmaceutical Sciences, Kyushu University, Fukuoka, ⁸Genomics Unit, Keio Cancer Center, Keio University School of Medicine, Tokyo, ⁹Central 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**
 ○ Ziyang Qin^{1,2}, Huailong Chang^{1,2}, Kan Tao^{1,2}, Shengnan Tang^{1,2}
¹Shanghai Chicmax Cosmetic Co., Ltd., Global R&D Center, Shanghai, ²Shanghai KPC Biotechnology Co., Ltd., Shanghai
- LO-09 [L-13] A Comprehensive Meta-analysis of the Association Between Lipid profile and Hidradenitis Suppurativa**
 ○ Yan-Han Li¹, Shu-Han Chuang¹, Hui-Ju Yang^{2,3}
¹Division of General Practice, Department of Medical Education, Changhua Christian Hospital, Changhua, ²Department of Dermatology, Changhua Christian Hospital, Changhua, ³Department 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 Widyastuti³, Kukuh Waseso Jati Pangestu², Farreh Alan Maulana^{1,2}, Ervina Handayani^{1,2}, Mila Mayanti Kabir¹, Eka S. Prasedya^{2,4}
¹Department of Pharmacy, Faculty of Medicine and Health Sciences, Universitas Mataram, Mataram, ²Bioscience and Biotechnology Research Centre, Universitas Mataram, Mataram, ³Faculty of Food Technology and Agroindustry, Universitas Mataram, Mataram, ⁴Department 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 Kim¹, Eun Hee Yoo², Ji Hyun Lee^{1,2}
¹Department of Medical Sciences, Graduate School of The Catholic University of Korea, Seoul, ²Department 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 Kim¹, Young Su Jang¹, Dahye Seo¹, ARam Kim², Suji Son², Jae-Sang Ryu², Dong Hyun Kim², Jung U Shin²
¹Department of Biomedical Science, CHA University, Seongnam, ²Department 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 Seo¹, JaeSang Ryu², YoungSu Jang¹, HaiVin Kim¹, HeeJung Lee², DongHyun Kim², Yunkyung Jang², JungU Shin²
¹Department of Biomedical Science, CHA University, Seongnam, ²Department 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}
¹Department of Dermatology, Drug Hypersensitivity Clinical and Research Center, Chang Gung Memorial Hospital, Linkou, ²Cancer Vaccine and Immune Cell Therapy Core Laboratory, Department of Medical Research, Chang Gung Memorial Hospital, Linkou, ³Chang 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 Parsad³, Thuong Nguyen Van^{1,2}, Phuong Hoang Thi², Son Nguyen Hong², Hien Do Thi Thu², Tan Nguyen Manh^{1,2}, Hien Le Thanh², Hien Tran Thi Thu¹, Doanh Le Huu^{1,2}
¹Hanoi Medical University, Hanoi, ²National Hospital of Dermatology and Venereology, Hanoi, ³Department 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 Kimura¹, Akito Hasegawa¹, Tomoki Nishiguchi^{1,2}, Hong Ha Nguyen¹, Masatoshi Eguchi¹, Takeaki Ozawa², Riichiro Abe¹
¹Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, ²Department 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 Kitoh¹, Rintaro Shibuya², Sho Hanakawa³, Kenji Kabashima^{1,3}
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Kimberly and Eric J. Waldman Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York, ³Skin 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 Minami¹, Ryota Asahina^{1,2}, Sachiko Ono¹, Tetsuya Honda³, Gyohei Egawa⁴, Satoshi Nakamizo¹, Kenji Kabashima¹
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Center for One Medicine Innovative Translational Research (COMIT), Gifu University, Gifu, ³Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, ⁴Department 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 Kulkarni¹, Tatsuya Dokoshi¹, Toshiya Takahashi¹, Elizabeth Luo², Haleh Alimohamadi², Tomofumi Numata¹, Gerard Wong², Richard Gallo¹
¹The Department of Dermatology, UC San Diego, San Diego, ²The Department of Bioengineering, UC Los Angeles, Los Angeles, ³The 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 Tamai¹, Takashi Sugihira¹, Seitaro Nakagawa¹, Shuo Li², Manabu Fujimoto¹, Yumi Matsuoka-Nakamura^{1,2}
¹Department of Dermatology, Graduate School of Medicine, Osaka University, Suita, ²Cutaneous 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 new tyrosinase 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 β 7-positive mast cell progenitors in atopic dermatitis-like skin**
○ Yuki Honda Keith^{1,2}, Tetsuya Honda^{1,3}, Sachiko Ono¹, Bennett Lee^{4,5}, Rintaro Shibuya¹, Sho Hanakawa⁶, Yoshihiro Ishida¹, Satoshi Nakamizo¹, Kenji Kabashima^{1,4,6}
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Precision Immunology, Garvan Institute of Medical Research, Sydney, ³Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, ⁴Singapore Immunology Network (SigN), Agency for Science, Technology and Research (A*STAR), Biopolis, ⁵Lee Kong Chian School of Medicine, Nanyang Technological University, Biopolis, ⁶Skin 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 Nakamura¹, Toshifumi Nomura¹, Yasuhiro Fujisawa³
¹Department of Dermatology, University of Tsukuba, Tsukuba, ²UMass Chan Medical School, Worcester, ³Department 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 Atsugi¹, Keitaro Fukuda^{1,2}, Tommy W Terootea⁴, Aki Minoda^{4,5}, Akiharu Kubo^{1,6}, Masayuki Amagai^{1,2}
¹Department of Dermatology, Keio University School of Medicine, Tokyo, ²Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, Yokohama, ³Laboratory for Evolutionary Cell Biology of the Skin, School of Bioscience and Biotechnology, Tokyo University of Technology, Hachioji, ⁴Laboratory for Cellular Epigenomics, RIKEN Center for Integrative Medical Sciences, Yokohama, ⁵Department of Cell Biology, Faculty of Science, Radboud Institute for Molecular Life Sciences, Radboud University, Nijmegen, ⁶Division 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 Fukasawa¹, Takashi Yamashita², Atsushi Enomoto³, Satoshi Toyama², Asako Yoshizaki-Ogawa², Shoko Tateishi⁴, Hiroko Kanda⁴, Kiyoshi Miyagawa³, Shinichi Sato², Ayumi Yoshizaki^{1,2}
¹Department of Clinical Cannabinoid Research, The University of Tokyo Graduate School of Medicine, Tokyo, ²Department of Dermatology, The University of Tokyo Graduate School of Medicine, Tokyo, ³Laboratory of Molecular Radiology, Center of Disease Biology and Integrative Medicine, The University of Tokyo Graduate School of Medicine, Tokyo, ⁴Immune-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 Yanase³, Daiki Matsubara⁴, Takahiro Hiraga¹, Hiroshi Ishii⁵, Ryo Saito³, Shunsuke Takahagi^{3,6}, Michihiro Hide^{3,7}
¹Kyoto University Institute for Advanced Study, Kyoto University, Kyoto, ²Graduate School of Medicine, Kyoto University, Kyoto, ³Department of Pharmacotherapy, Hiroshima University, Hiroshima, ⁴Department of Dermatology, Hiroshima University, Hiroshima, ⁵RIES, Hokkaido University, Sapporo, ⁶Department of Dermatology, JA Hiroshima General Hospital, Hiroshima, ⁷Department 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 Hiroyasu¹, Beni Amatya¹, Daisuke Tsuruta¹, David J. Granville^{2,3,4,5}, ○ Sho Hiroyasu^{1,2,3,4}
¹The Department of Dermatology, Osaka Metropolitan University, Osaka, ²International Collaboration on Repair Discoveries (ICORD) Centre, Vancouver, ³Department of Pathology and Laboratory Medicine, University of British Columbia, Vancouver, ⁴British Columbia Professional Firefighters' Burn and Wound Healing Group, Vancouver Coastal Health Research Institute, Vancouver, ⁵Centre 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 Kelly², Roderick O'Connor², Christoph Ellebrecht^{1,2}
¹Department of Dermatology, University of Pennsylvania, Philadelphia, ²Center 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 Johnston⁴, Gioia Pacella⁴, Naseer Sangwan^{2,6}, Vijay Krishna^{1,7}, J. Mark Brown^{1,2,3}, Edward Maytin^{7,8}, Nicole Ward⁹, George Stark^{1,3}, Christine McDonald^{3,4}
¹Department of Cancer Biology, Lerner Research Institute, Cleveland Clinic, Cleveland, ²Center for Microbiome and Human Health, Lerner Research Institute, Cleveland Clinic, Cleveland, ³Department of Molecular Medicine, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Cleveland, ⁴Department of Inflammation and Immunity, Lerner Research Institute, Cleveland Clinic, Cleveland, ⁵Cleveland Clinic Lerner College of Medicine, Case Western Reserve University, Cleveland, ⁶Department of Cardiovascular and Metabolic Sciences, Lerner Research Institute, Cleveland Clinic, Cleveland, ⁷Department of Biomedical Engineering, Lerner Research Institute, Cleveland Clinic, Cleveland, ⁸Department of Dermatology, Dermatology & Plastic Surgery Institute, Cleveland Clinic, Cleveland, ⁹Department 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 Ujii, 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 Yoshimitsu¹, Motoki Nakamura¹, Shinji Kano¹, Tetsuya Magara¹, Hiroshi Kato¹, Aiko Sakai², Masaya Sugiyama², Masashi Mizokami³, Akimichi Morita¹

¹Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya,

²Department of Viral Pathogenesis and Controls, National Center for Global Health and Medicine, Ichikawa, ³Genome 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 Sormani¹, Ghazaleh Hashemi¹, Haiming Li¹, Chenhao Zhou¹, Kwong Ching Li¹, Siu Hang Chan¹, Samuel Tan¹, Quan Nguyen², Edwige Roy³, Kiarash Khosrotehrani¹

¹The University of Queensland, Frazer Institute, Brisbane, ²The 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}

¹Graduate Institute of Clinical Medicine, College of Medicine, Taipei Medical University, Taipei, ²Department of Dermatology, School of Medicine, Taipei Medical University, Taipei, ³Department of Dermatology, Taipei Medical University Hospital, Taipei, ⁴Cell 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}

¹Medicine Programs at the Kühne-Foundation, Medicine Campus Davos, ²Bieber 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}

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

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

○ Hideki Ueno^{1,2,3}

¹Department of Immunology, Graduate School of Medicine, Kyoto University, Kyoto, ²ASHBi Institute for the Advanced Study of Human Biology, Kyoto University, Kyoto, ³Kyoto 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}

¹Laboratory for Skin Homeostasis, RIKEN-IMS, Yokohama, ²Department 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 Nemolizumab Improves Pruritus in Patients with Intrinsic Atopic Dermatitis Lacking Atopic Predisposition

[P08-03]

○ Emi Sato¹, Keita Tsutsui^{1,2}, Hiroki Shimizu¹, Kotaro Ito^{1,3}

¹Department of Dermatology, Fukuoka University Faculty of Medicine, Fukuoka, ²Fukuoka Central Hospital, Fukuoka, ³Itto Dermatology Clinic, Kitsuki

C07-02 Spatially Transcriptomic Analysis Reveals Alopecia Areata-Specific Gene Expression Signatures Compared to Seborrheic Dermatitis

[P09-03]

○ SoHee Park

Department of Dermatology, Eunpyeong St. Marys Hospital, Seoul

C07-03 Consistent PD-1 decrease in cytotoxic T cell subsets suggests treatment-resistency in rapidly progressive alopecia areata

[P09-04]

○ Ryo Takahashi¹, Misaki Kinoshita-Ise², Yoshimi Yamazaki², Masahiro Fukuyama², Manabu Ohyama^{1,2}

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

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

[P09-05]

○ Albert F. Yang¹, Soham Patel^{2,3}, Keum San Chun⁴, Dylan Richards⁴, Jessica R. Walter⁵, Kazuaki Okamoto⁶, Amy S. Paller^{3,7,8}, Akihiko Ikoma⁶, Shuai Xu^{3,4,7,8,9}

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

- C07-05 [P09-06] Decoding the Immune Mechanisms in Papuloerythroderma of Ofuji: Clinical and Molecular Insights**
 ○ Koki Kataoka¹, Fuuka Minami¹, Ryota Asahina^{1,2}, Satoru Yonekura¹, Saeko Nakajima^{1,3}, Kenji Kabashima^{1,4,5}
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Center for One Medicine Innovative Translational Research (COMIT), Gifu University, Gifu, ³Department of Drug Discovery for Inflammatory Skin Diseases, Kyoto University Graduate School of Medicine, Kyoto, ⁴A*STAR Skin Research Labs (A*SRL), Agency for Science, Technology and Research (A*STAR), 8A Biomedical Grove, #06-06 Immunos, Singapore, ⁵Singapore 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-Uchida¹, Manabu Fujimoto², Yoshihide Asano³, Masatoshi Jinnin⁴, Takashi Matsushita⁵, Sei-ichiro Motegi⁶, Shinichi Sato⁷, Minoru Hasegawa¹
¹Departments of Dermatology, University of Fukui, Fukui, ²Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka, ³Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, ⁴Department of Dermatology, Wakayama Medical University Graduate School of Medicine, Wakayama, ⁵Department of Dermatology, Faculty of Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Kanazawa, ⁶Department of Dermatology, Gunma University Graduate School of Medicine, Gunma, ⁷Department 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 Bui¹, Huy Nguyen¹, Ngan K Nguyen²
¹Department of Medical Science, University of Health Sciences, Ho Chi Minh City, ²Department 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}
¹Department of Dermatology Acne Clinical and Research Center, Meiwa Medical Research Institute Meiwa Hospital, ²Hyogo 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 IRE1 α 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 Takahashi¹, Takehiro Takahashi¹, Tetsuya Ikawa¹, Hitoshi Terui¹, Toshiya Takahashi¹, Yuichiro Segawa¹, Hayakazu Sumida², Ayumi Yoshizaki^{2,3}, Shinichi Sato², Yoshihide Asano¹

¹Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, ²Department of Dermatology, The University of Tokyo Graduate School of Medicine, Tokyo, ³Department 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 Sawane¹, Tsukasa Kouno², Yoshinari Ando², Miki Kojima², Makiko Komata¹, Jay W. Shin^{2,3}, Kentaro Kajiya¹

¹MIRAI Technology Institute, Shiseido Co., Ltd, Yokohama, ²IMS, RIKEN, Yokohama, ³Genome 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 TNF α 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 Fujii², Ryosuke Miyagawa², Taisei Enomoto², Takato Ohtsuka², Yuma Yasui²

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

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

○ Yuki Saito¹, Roberta Lotti^{2,3}, Haruna Kimura¹, Akito Hasegawa¹, Brydon Bennett², Antonino Amato², Carlo Pincelli², Riichiro Abe¹

¹Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, ²PinCell s.r.l., Milano,

³DermoLab, 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 Ito², Yuki Furuichi², Takeshi Matsui⁴, Masayuki Amagai^{1,2}

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

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

○ Sonoko Saito¹, Yuki Saito^{2,3}, Showbu Sato³, Satomi Aoki¹, Noriko Ono¹, Yoshihiro Ito¹, Ai Yoshioka⁴, Hisato Suzuki⁵, Takashi Sasaki⁶, Tomoko Kawai⁷, Kenichiro Hata^{7,8}, Kenjiro Kosaki⁵, Masayuki Amagai¹, Kazuhiko Nakabayashi⁷, Akiharu Kubo^{1,4}

¹Department of Dermatology, Keio University School of Medicine, Tokyo, ²Department of Gastroenterology, Keio University School of Medicine, Tokyo, ³Division of Molecular Oncology, National Cancer Center Research Institute, Tokyo, ⁴Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe, ⁵Center for Medical Genetics, Keio University School of Medicine, Tokyo, ⁶Center for Supercentenarian Medical Research, Keio University School of Medicine, Tokyo, ⁷Department of Maternal-Fetal Biology, National Center for Child Health and Development, Tokyo, ⁸Department 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 Janelle¹, Gerome Bohelay^{2,3}, Gokce Oguz⁴, Vipin Narang⁵, Bernett Lee¹, Adaikalavan Ramasamy⁴, Anne Marie Cardine⁶, Vivien Hebert⁷, Florent Ginhoux⁵, Evan Newell³, Pascal Joly⁷, Frederic Caux^{2,3}, Philippe Musette^{2,3}

¹Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore, ²Department of Dermatology and Referral Centre for Autoimmune Bullous Diseases, Avicenne Hospital, Paris, ³Inserm UMR 1125, University Sorbonne, Paris, ⁴Genome Institute of Singapore, Singapore, ⁵Singapore Immunology Network, Singapore, ⁶INSERM UMRS 976, Paris, ⁷Inserm 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. Perleman 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 Kawanami¹, Keiichiro Shiraga², Yuichi Ogawa³, Keitaro Fukuda^{3,4}, Masayuki Amagai^{3,4}, Takeshi Matsui^{1,3,4}

¹Bionics Program, Graduate School of Bionics, Computer and Media Science, Tokyo University of Technology, Tokyo, ²Graduate School of Agriculture, Kyoto University, Kyoto, ³Center for Integrative Medical Sciences, RIKEN, Yokohama, ⁴Department 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 Aoyama¹, Shusuke Kawashima¹, Yuka Saeki¹, Yu Kawahara¹, Takamitsu Matsuzawa¹, Noriko Saito¹, Ayako Oikawa¹, Masahito Kawazu², Yosuke Togashi³, Yasuhiro Nakamura⁴, Tatsuyoshi Kawamura⁵, Yukiko Kiniwa⁶, Osamu Yamasaki⁷, Satoshi Fukushima⁸, Takashi Inozume¹

¹Department of Dermatology, Chiba University Graduate School of Medicine, Chiba, ²Division of Cell Therapy, Chiba Cancer Center Research Institute, Chiba, ³Department of Tumor Microenvironment, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, ⁴Department of Skin Oncology/Dermatology, Saitama Medical University International Medical Center, Saitama, ⁵Department of Dermatology, University of Yamanashi, Yamanashi, ⁶Department of Dermatology, Shinshu University, Matsumoto, ⁷Department of Dermatology, Shimane University Faculty of Medicine, Izumo, ⁸Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto

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 Bagoood, 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 β 2-adrenergic receptor in skin allergic inflammation**
 ○ Soichiro Yoshikawa^{1,2}, Hitoshi Urakami^{2,3}, Kei Nagao^{1,2}, Kensuke Miyake⁴, Shuhei Sano⁵, Zheyu Hu⁵, Emi Nishii⁵, Atsushi Fujimura², Takeshi Y. Hiyama⁶, Keiji Naruse⁷, Hajime Karasuyama⁴, Mitsutoshi Tominaga¹, Kenji Takamori^{1,8}, Shin Morizane³, Sachiko Miyake⁵
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Urayasu, ²Department of Cellular Physiology, Okayama University Academic Field of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, ³Department of Dermatology, Okayama University Academic Field of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, ⁴Inflammation, Infection & Immunity Laboratory, Advanced Research Institute, Tokyo Medical and Dental University (TMDU), Tokyo, ⁵Department of Immunology, Juntendo University Graduate School of Medicine, Tokyo, ⁶Department of Integrative Physiology, Tottori University Graduate School and Faculty of Medicine, Yonago, ⁷Department of Cardiovascular Physiology, Okayama University Academic Field of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, ⁸Department 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 Lim¹, Belle Yap¹, Lifang Koh¹, Jasrie Muhammad², Franklin Zhong², John Common¹
¹A*STAR Skin Research Labs, Singapore, ²Nanyang 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 Fujimoto³, Yumi Matsuoka-Nakamura^{1,3,4}
¹Cutaneous Immunology and Microbiology, Graduate School of Medicine, Osaka University, Osaka, ²Basic Research Development Division, Rohto Pharmaceutical Co., Ltd., Kizugawa, ³Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka, ⁴Cutaneous 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 Williams¹, Ryo Muko², Emily Wright¹, Hiroshi Matsuda³, Akane Tanaka^{2,3}, Peter D Arkwright¹, Joanne L Pennock¹
¹Lydia Becker Institute of Immunology and Inflammation, University of Manchester, Manchester, ²Institute of Global Innovation Research, Tokyo University of Agriculture & Technology, Tokyo, ³Laboratories 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 Kawai¹, Satoshi Muraoka², Masatoshi Eguchi¹, Hong Ha Nguyen¹, Shingo Takei¹, Haruna Kimura¹, Tatsuya Katsumi¹, Kouichi Tomii¹, Elena Borzova¹, Akito Hasegawa¹, Ryota Hayashi¹, Jun Adachi², Riichiro Abe¹
¹Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, ²Laboratory 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. Kosaka¹, Satoshi Nakamizo¹, Gyohei Egawa², Kazuhiro Iwai³, Kenji Kabashima¹
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Department of Dermatology, Kagoshima University, Kagoshima, ³Department of Molecular and Cellular Physiology, Kyoto University Graduate School of Medicine, Kyoto

Luncheon Seminar 9

12:35-13:35

Chair: Ken Igawa

LS9 Lebrikizumab: A new option in the management of atopic dermatitis

○ Thomas Bieber^{1,2}¹Medicine Programs at the Kühne-Foundation, Medicine Campus Davos, ²Bieber 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: Tatsuyoshi Kawamura, Yumi Aoyama, Cheng-Che Eric Lan

- JAOF1 Epigenetic regulation of Skin Aging**
○ Dong Hun Lee^{1,2}
¹Department of Dermatology, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, ²Institute 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 Meehansan
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^{1,2}
¹Departments of Dermatology, Biochemistry & Molecular Biology, Center of Applied Nanomedicine, Tainan, ²National 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}
¹Dermatology, The School of Translational Medicine, Monash University, Melbourne, ²Dermatology, Alfred Health, Melbourne

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 Nakamura¹, Dai Ogata², Junji Kato³, Maki Yoshimitsu¹, Tetsuya Magara¹, Hiroto Watanabe¹, Shinji Kano¹, Reiko Nakamura¹, Hiroshi Kato¹, Akimichi Morita¹¹Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya,²Department of Dermatologic Oncology, National Cancer Center Hospital, Tokyo, ³Department 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 Garman¹, Tara Gelb¹, Dimitrios Anastasakis², Madhu Lal Nag³, Matthew D Hall³, Markus Hafner², Isaac Brownell¹¹Dermatology Branch, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Bethesda, Maryland, ²RNA Molecular Biology Laboratory, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Bethesda, ³National 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 Tanaka¹, Ikko Kajihara², Kazuro Shimokawa³, Naotoshi Nakamura³, Yudo Kusaba², Ryoko Sakamoto², Saki Maeda-Otsuka², Saori Yamada-Kanazawa², Soichiro Sawamura², Hisashi Kanemaru², Katsunari Makino², Jun Aoi², Shinichi Masuguchi², Takashi Suzuki³, Satoshi Fukushima²¹The Department of Dermatology, Kumamoto Shinto General Hospital, Kumamoto, ²The Department of Dermatology, Kumamoto University, Kumamoto, ³Osaka 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 Wang¹, Kazunori Yokoi¹, Yusuke Yoshioka², Rei Watanabe³, Yasuhiro Fujisawa⁴, Takahiro Ochiya², Atsushi Tanemura¹, Manabu Fujimoto¹¹Department of Dermatology, Osaka University Graduate School of Medicine, Suita, ²Department of Molecular and Cellular Medicine, Institute of Medical Science, Tokyo Medical University, Tokyo, ³Department of Dermatology, Juntendo University School of Medicine, Tokyo, ⁴Department of Dermatology, University of Tsukuba, Tsukuba

C10-07 [P15-02] Circulating tumor DNA detection during immunotherapy predicts progression in Merkel cell carcinoma

○ Tomoko Akaike¹, Daniel S. Hippe², Song Y. Park³, Paul Nghiem^{1,2}, Lisa C. Zaba³¹Department of Dermatology, University of Washington School of Medicine, Seattle, ²Fred Hutch Cancer Center, Seattle, ³Department of Dermatology, Stanford University School of Medicine, Palo Alto

C10-08 [P08-02] Diagnostic scoring system for intravascular large B-cell lymphoma

○ Maho Nakashima¹, Motoi Takenaka², Takeharu Kato³, Yasushi Miyazaki⁴, Hiroyuki Murota²¹Department of Dermatology, Nagasaki University Hospital, Nagasaki, ²Department of Dermatology, Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, ³Department of Hematology, Nagasaki University Hospital, Nagasaki, ⁴Department 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

○ Eunjung 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 Ishiiji, 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] Lorincrin and T cell immunity: evidence from photocarcinogenesis**
 ○ Xinyi Wang¹, Yosuke Ishitsuka¹, Dennis R. Roop²
¹University of Osaka, Osaka, ²Department 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 Cui¹, Ji Hwan Moon², Hye Sun Shin³, Min-Kyoung Kim¹, Dong Hun Lee¹
¹Department of Dermatology, Seoul National University College of Medicine, Seoul, ²Samsung Genome Institute, Samsung Medical Center, Seoul, ³AMOREPACIFIC 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 Tai¹, Chih-Lung Chen², Wei-Hung Wang², Sabrina Mai-Yi Fan³, Sung-Jan Lin⁴
¹Genome and Systems Biology Degree Program, Academia Sinica and National Taiwan University, Taipei, ²Department of Biomedical Engineering, National Taiwan University, Taipei, ³Department of Medical Research, National Taiwan University Hospital, Taipei, ⁴Department 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 Raja¹, Jun Tsunozumi², Karolina Edlund³, Aiko Sada⁴, Hiromi Yanagisawa¹
¹Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, Tsukuba, ²Department of Pharmacy, Kyushu University of Health and Welfare, Miyazaki, ³Leibniz Research Centre for Working Environment and Human Factors, University of Dortmund, Dortmund, ⁴Medical 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 Ganier², Fiona M Watt^{2,3}
¹Frontier Research Center, POLA Chemical Industries, Inc., Yokohama, ²Centre for Gene Therapy and Regenerative Medicine, King's College London, London, ³Directors' 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, Koza 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}
¹Osaka Heat Cool inc., Minoh City, ²Graduate School of Engineering, Osaka University, Suita, ³Faculty of Materials Science and Engineering, Kyoto Institute of Technology, Kyoto, ⁴College of Science and Engineering, Aoyama Gakuin University, Tokyo, ⁵Faculty of Engineering, Nara Women's University, Nara, ⁶Graduate 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]** **Difamylast, 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 Kawamura², Masaki Takemura², Kazuhiko Yamamura^{1,2}, Takamichi Ito², Makiko Kido-Nakahara², Takeshi Nakahara^{1,2}
¹Research and Clinical Center for Yusho and Dioxin, Kyushu University Hospital, Fukuoka, ²Department 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 Sasaki¹, Takato Sugiyama¹, Keitaro Umezawa², Risa Nobuta¹, Chika Tsutsumi³, Yuri Miura², Ryo Ushioda^{3,4}, Toshifumi Nomura¹
¹Department of Dermatology, Institute of Medicine, University of Tsukuba, Tsukuba, ²Research Team for Mechanism of Aging, Tokyo Metropolitan Institute of Gerontology, Tokyo, ³Department of Molecular Biosciences, Faculty of Life Sciences, Kyoto Sangyo University, Kyoto, ⁴Institute 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 Tanahashi¹, Michihiro Kono^{1,2}, Takenori Yoshikawa¹, Yuika Suzuki¹, Masukazu Inoue³, Yachiyo Kuwatsuka⁴, Fumie Kinoshita⁴, Takuya Takeichi^{1,5}, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, ²Department of Dermatology and Plastic Surgery, Akita University Graduate School of Medicine, Akita, ³Japan Tissue Engineering Co., Ltd., Gamagori, ⁴Department of Advanced Medicine, Nagoya University Hospital, Nagoya, ⁵Nagoya 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 Sugiyama¹, Kazuya Matsuo², Risa Nobuta¹, Ruriko Endo¹, Kentaro Shiraki³, Norifumi Shioda², Toshifumi Nomura¹
¹Department of Dermatology, Institute of Medicine, University of Tsukuba, Tsukuba, ²Department of Genomic Neurology, Institute of Molecular Embryology and Genetics (IMEG), Kumamoto University, Kumamoto, ³Faculty 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}
¹Department of Dermatology, Graduate School of Medicine, University of the Ryukyus, Okinawa, ²Department 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 Kitoh¹, Rintaro Shibuya², Sho Hanakawa³, Kenji Kabashima^{1,3}
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Kimberly and Eric J. Waldman Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York, ³Skin 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 Minami¹, Ryota Asahina^{1,2}, Sachiko Ono¹, Tetsuya Honda³, Gyohei Egawa⁴, Satoshi Nakamizo¹, Kenji Kabashima¹
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Center for One Medicine Innovative Translational Research (COMIT), Gifu University, Gifu, ³Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, ⁴Department 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 Minami², Kenji Kabashima²
¹Center for One Medicine Innovative Translational Research (COMIT), Gifu University, Gifu, ²Department 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 Kim¹, Yeon Woo Jung¹, Kwang Hoon Lee¹, Chang Ook Park^{1,2}
¹Department of Dermatology and Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, ²Brain 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. Eisenhaure⁴, David J Lieb⁴, Nir Hacohen^{2,4}, Shadmehr Demehri^{2,3}
¹MIRAI Technology Institute, Shiseido Co., Ltd., Yokohama, ²Center for Cancer Research, Massachusetts General Hospital and Harvard Medical School, Boston, ³Department of Dermatology, Massachusetts General Hospital and Harvard Medical School, Boston, ⁴Broad Institute of MIT and Harvard, Boston
- 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 Masuda³, Rei Watanabe^{4,5}, Manabu Fujimoto⁴
¹Drug Development Research Laboratories, Maruho Co., Ltd., Kyoto, ²Strategic research planning & management Dept., Maruho Co., Ltd., Kyoto, ³Translational Research Dept., Maruho Co., Ltd., Kyoto, ⁴Department of Dermatology, Osaka University, Osaka, ⁵Department of Dermatology, Juntendo University, Tokyo

- 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
The Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi
- P01-09 [O01-02] Modulation of psoriatic inflammation through autophagy activation: the role of keratinocyte-specific Rubicon inhibition in a murine model**
○ Yoichiro Urata¹, Toshiya Miyake¹, Satoshi Nakamizo¹, Rintaro Shibuya¹, Tamotsu Yoshimori², Kenji Kabashima¹
¹Department of Dermatology, Graduate School of Medicine, Kyoto University, Kyoto, ²Health Promotion System Science, Graduate School of Medicine, Osaka University, Suita
- 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 Yasui², Mitsuhiro Yoneda², Sachiko Okamoto³, Yasunori Amaishi³, Daisuke Muraoka⁴, Hiroaki Ikeda², Hiroyuki Murota¹
¹Department of Dermatology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, ²Department of Oncology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, ³Tech. Development Ctr, Takara Bio Inc., Kusatsu, ⁴Aichi Cancer Ctr. Res. Inst., Div. of Translational Oncoimmunology, Nagoya
- P01-12 [O01-05] Spatial transcriptomic analysis of epidermal keratinocytes of the fistula lesions in hidradenitis suppurativa**
○ Ken-Ichi Hasui¹, Yoshio Kawakami¹, Yoshihiro Matsuda¹, Yohei Yasutomi¹, Himino Ashida¹, Shuta Tomida², Shin Morizane¹
¹Department of Dermatology, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama University, Okayama, ²Department of Biobank, Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama University, Okayama
- P01-13 [O01-06] CXCR6 regulates localization of CD8⁺ tissue-resident memory T cells to the epidermis in a murine contact hypersensitivity**
○ Takahide Iioka¹, Ryota Asahina^{1,2}, Toshiya Miyake¹, Fuuka Minami¹, Kenji Kabashima¹
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Center 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 Yoshikawa¹, Ryota Hashimoto³, Toshiro Takai⁴, Sumika Toyama¹, Mitsutoshi Tominaga¹, Kenji Takamori^{1,5}
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, ²Department of Cellular Physiology Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, ³Laboratory of Cell Biology, Biomedical Research Core Facilities, Juntendo University Graduate School of Medicine, Tokyo, ⁴Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ⁵Department of Dermatology, Juntendo University Urayasu Hospital, Chiba
- P01-15 [O01-08] Prevention of atopic dermatitis by skin and intestinal tract microbiota using DOHAD model**
○ Yukihiko Kato¹, Chiho Yanai¹, Ryo Muko², Yosuke Amagai², Yoshihiro Umebayashi¹, Rina Kurokawa³, Wataru Suda³, Hiroshi Matsuda², Akane Tanaka²
¹Tokyo Medical University Hachioji Medical Center, Tokyo, ²Tokyo University of Agriculture and Technology, Tokyo, ³RIKEN Center for Integrative Medical Sciences, Yokohama
- 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 Takegami¹, Satoru Yonekura¹, Saeko Nakajima^{1,2}, Shuto Kanameishi¹, Koki Kataoka¹, Kenji Kabashima^{1,3,4}
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Department of Drug Discovery for Inflammatory Skin Diseases, Kyoto University Graduate School of Medicine, Kyoto, ³A*STAR Skin Research Labs (A*SRL), Agency for Science, Technology and Research (A*STAR), Singapore, ⁴Singapore Immunology Network (SigN), Agency for Science, Technology and Research (A*STAR), Singapore

- P01-18**
[O01-11] **Persistent anti-inflammatory effects of voluntary exercise in a mouse model of atopic dermatitis**
○ Wanchen Zhao¹, Ge Peng¹, Alafate Abudouwanli¹, Arisa Ikeda^{1,2}, Quan Sun¹, Mengyao Yang^{1,3}, Shan Wang^{1,4}, Hideoki Ogawa¹, Ko Okumura¹, François Niyonsaba^{1,5}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Nephrology, Juntendo University Graduate School of Medicine, Tokyo, ³Department of Dermatology, the First Affiliated Hospital of China Medical University, Liaoning, ⁴Department of Dermatology, Beijing Children's Hospital, Capital Medical University, Beijing, ⁵Faculty of International Liberal Arts, Juntendo University, Tokyo
- P01-19**
[O01-12] **Regulatory function of B cells in contact hypersensitivity re-stimulation**
○ Yutaka Matsumura¹, Hanako Koguchi-Yoshioka¹, Rei Watanabe², Manabu Fujimoto¹
¹The Department of Dermatology, Osaka University, Suita, ²The 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 Tai³, Yu-Qian Chen², Yi-Shin Chou², Sung-Jan Lin^{1,2,3,4,5}
¹Research Center for Cell Therapy, Department of Medical Research, National Taiwan University Hospital, Taipei, ²Department of Biomedical Engineering, National Taiwan University, Taipei, ³Research Center for Developmental Biology and Regenerative Medicine, National Taiwan University, Taipei, ⁴Department of Dermatology, National Taiwan University Hospital and College of Medicine, Taipei, ⁵Genome and Systems Biology Degree Program, National Taiwan University and Academia Sinica, Taipei
- 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 Shiraishi³, Kensho Kanehisa³, Konatsu Asai³, Yukari Ibusuki³, Kounosuke Yamakawa³, Mitsutoshi Tominaga¹, Yoshitoshi Kasuya^{2,4}, Kenji Takamori¹, Makoto Tsuda³
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, Urayasu, ²Department of Molecular and Systems Pharmacology, Faculty of Pharmacy, Juntendo University, Urayasu, ³Department of Molecular and Systems Pharmacology, Graduate School of Pharmaceutical Sciences, Kyushu University, Fukuoka, ⁴Department of Respiriology, Faculty of Medicine, Chiba University, Chiba

Category 2 (P02): Auto-Immunity

- P02-01**
[III-3] **Deciphering the immune mechanism of autoreactive B cells in Pemphigus Vulgaris**
○ Baptiste Janelle¹, Gerome Bohelay^{2,3}, Gokce Oguz⁴, Vipin Narang⁵, Bernett Lee¹, Adailavan Ramasamy⁴, Anne Marie Cardine⁶, Vivien Hebert⁷, Florent Ginhoux⁵, Evan Newell⁵, Pascal Joly⁷, Frederic Caux^{2,3}, Philippe Musette^{2,3}
¹Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore, ²Department of Dermatology and Referral Centre for Autoimmune Bullous Diseases, Avicenne Hospital, Paris, ³Inserm UMR 1125, University Sorbonne, Paris, ⁴Genome Institute of Singapore, Singapore, ⁵Singapore Immunology Network, Singapore, ⁶INSERM UMRS 976, Paris, ⁷Inserm U1234, CHU Rouen, Rouen
- 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 Okada¹, Sasa Noah^{1,3}, Shohei Kojima², Rie Koide², Rei Watanabe^{1,4}, Yuumi Nakamura¹, Shinichi Imafuku⁵, Yayoi Tada⁶, Shinichi Sato³, Masatoshi Jinnin⁷, Tatsuyoshi Kawamura⁸, Shinji Shimada⁸, Shigetoshi Sano⁹, Manabu Fujimoto¹, Akimichi Morita¹⁰
¹Osaka University, Suita, ²RIKEN Center for Integrative Medical Sciences, Tokyo, ³The University of Tokyo, Tokyo, ⁴Juntendo University, Tokyo, ⁵Fukuoka University, Fukuoka, ⁶Teikyo University, Tokyo, ⁷Wakayama Medical University, Wakayama, ⁸University of Yamanashi, Yamanashi, ⁹Kochi University, Kochi, ¹⁰Nagoya City University, Nagoya
- 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 Yanase³, Daiki Matsubara⁴, Takahiro Hiraga¹, Hiroshi Ishii⁵, Ryo Saito¹, Shunsuke Takahagi^{3,6}, Michihiro Hide^{3,7}
¹Kyoto University Institute for Advanced Study, Kyoto University, Kyoto, ²Graduate School of Medicine, Kyoto University, Kyoto, ³Department of Pharmacotherapy, Hiroshima University, Hiroshima, ⁴Department of Dermatology, Hiroshima University, Hiroshima, ⁵RIES, Hokkaido University, Sapporo, ⁶Department of Dermatology, JA Hiroshima General Hospital, Hiroshima, ⁷Department of Dermatology, Hiroshima City Hiroshima Citizens Hospital, Hiroshima
- 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 Hiroyasu¹, Beni Amatyia¹, Daisuke Tsuruta¹, David J. Granville^{2,3,4,5}, ○ Sho Hiroyasu^{1,2,3,4}
¹The Department of Dermatology, Osaka Metropolitan University, Osaka, ²International Collaboration on Repair Discoveries (ICORD) Centre, Vancouver, ³Department of Pathology and Laboratory Medicine, University of British Columbia, Vancouver, ⁴British Columbia Professional Firefighters' Burn and Wound Healing Group, Vancouver Coastal Health Research Institute, Vancouver, ⁵Centre for Heart Lung Innovation, Providence Research, University of British Columbia, Vancouver
- 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 Takahashi¹, Takehiro Takahashi¹, Tetsuya Ikawa¹, Hitoshi Terui¹, Toshiya Takahashi¹, Yuichiro Segawa¹, Hayakazu Sumida², Ayumi Yoshizaki^{2,3}, Shinichi Sato², Yoshihide Asano¹
¹Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, ²Department of Dermatology, The University of Tokyo Graduate School of Medicine, Tokyo, ³Department of Clinical Cannabinoid Research, University of Tokyo Graduate School of Medicine, Tokyo
- 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-Momohara¹, Yoshinao Muro¹, Kentaro Taki², Yoshihisa Nakano³, Takashi Yokoyama¹, Takuya Takeichi¹, Masashi Akiyama¹
¹The Department of Dermatology, Nagoya University, Nagoya, ²Division for Medical Research Engineering, Nagoya University, Nagoya, ³Public Health and Health Systems, Nagoya University, Nagoya
- P02-13 [O01-17] IgM autoantibody against the basement membrane zone spontaneously generated in mice**
○ Chihiro Shiiya¹, Ken Muramatsu¹, Norihiro Yoshimoto¹, Sho Katayama¹, Takuya Kawamura¹, Shoko Mai¹, Yosuke Mai¹, Hiroyuki Kitahata², Yoichiro Fujioka², Ken Natsuga¹, Hiroaki Iwata^{3,4}, Kentaro Izumi¹, Hideyuki Ujiiie¹
¹The Department of Dermatology, Hokkaido University, Sapporo, ²Department of Physics, Graduate School of Science, Chiba University, Chiba, ³Department of Cell Physiology, Faculty of Medicine, Hokkaido University, Sapporo, ⁴Department of Dermatology, Graduate School of Medicine, Gifu University, Gifu
- 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 Wu¹, Wen-Ho Chuo², Chi-Chien Lin³
¹Department of Dermatology, Pingtung Veterans General Hospital, Pingtung, ²Department of Pharmacy, Tajen University, Pingtung, ³Institute 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] Mitochondic acid-5 ameliorates fibrosis and vasculopathy in a mouse model of systemic sclerosis**
○ Yuichiro Segawa¹, Takehiro Takahashi¹, Takehiro Suzuki², Chitose Suzuki², Takaaki Abe², Yoshihide Asano¹
¹Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, ²Department of Nephrology, Endocrinology and Vascular Medicine, Tohoku University Graduate School of Medicine, Sendai

- P02-19** **Atractylodin reduced the lesion severity of IMQ-induce psoriasis-like mice through inhibiting the NF-kappa B pathways**
 ○ Wen-Ho Chuo¹, Chieh-Shan Wu², Chi-Chien Lin³
¹Department of Pharmacy, Tajen University, Pingtung, ²Department of Dermatology, Pingtung Veterans General Hospital, Pingtung, ³Institute 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 Maekawa¹, Sho Yamazaki¹, Yuya Ouchi¹, Tomomi Kitayama³, Takashi Shimbo⁴, Ikuko Ueda¹, Manabu Fujimoto¹, Katsuto Tamai²
¹Department of Dermatology, Integrated Medicine, Graduate School of Medicine, Osaka University, Suita, ²Department of Stem Cell Therapy Science, Graduate School of Medicine, Osaka University, Suita, ³StemRIM Inc, Ibaraki, ⁴Division of Gene Therapy Science, Graduate School of Medicine, Osaka University, Suita
- 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 Toyoshima³, Keisuke Shimizu^{1,2}, Maho Tagui^{1,2}, Mana Ito^{1,2}, Tomomi Sakamoto², Tadashi Terui^{1,2}, Hideki Fujita^{1,2}, Yoshimichi Okayama^{2,4,5,6,7}
¹Division of Cutaneous Science, Department of Dermatology, Nihon University School of Medicine, Tokyo, ²Center for Allergy, Nihon University School of Medicine, Tokyo, ³Department of Biochemistry & Molecular Biology, Nippon Medical School, Tokyo, ⁴Department of Allergy, Internal Medicine, Misato Kenwa Hospital, Misato, ⁵Department of Medicine, Division of Respiratory Medicine, Nihon University School of Medicine, Tokyo, ⁶Department of Internal Medicine, Division of Respiratory Medicine and Allergology, Showa University School of Medicine, Tokyo, ⁷Advanced Medical Science Research Center, Gunma Paz University, Graduate School of Health Sciences, Takasaki
- 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 Shulruf², Dedee F. Murrell^{1,2}
¹Department of Dermatology, St George Hospital, Sydney, ²Faculty of Medicine, University of New South Wales, Sydney
- 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}
¹Department of Dermatology, Kurume University School of Medicine, Kurume, ²Kurume 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 Koga¹, Norito Ishii¹, Masahiro Tsutsumi¹, Kwesi Teye², Mieko Kosaka³, Takekuni Nakama¹
¹Department of Dermatology, Kurume University School of Medicine, Kurume, ²Kurume University Institute of Cutaneous Cell Biology, Kurume, ³Maruho Co., Ltd., Osaka
- 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 Baumann⁴, My Le Huyen³, Per Stahl Skov⁴, Doanh Le Huu^{2,3}
¹Hue University of Medicine and Pharmacy, Hue, ²Hanoi Medical University, Hanoi, ³Vietnam National Dermatology and Venereology Hospital, Hanoi, ⁴Reblab, Copenhagen
- 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
 The Department of Dermatology, Shenzhen children's hospital, Shenzhen

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 Honda¹, Naomi Takahashi-Shishido², Tomomitsu Miyagaki^{2,3}, Hikari Boki², Shinichi Sato², Makoto Sugaya¹
¹The Department of Dermatology, International University of Health and Welfare, Narita, ²The Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo, ³Department of Dermatology, St. Marianna University School of Medicine, Kawasaki

- P03-02 [C10-01] Spatial proteomic cell-cell correlation analysis reveals optimal tumor microenvironment for immunotherapy in Merkel cell carcinoma**
○ Motoki Nakamura¹, Dai Ogata², Junji Kato³, Maki Yoshimitsu¹, Tetsuya Magara¹, Hiroto Watanabe¹, Shinji Kano¹, Reiko Nakamura¹, Hiroshi Kato¹, Akimichi Morita¹
¹Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, ²Department of Dermatologic Oncology, National Cancer Center Hospital, Tokyo, ³Department of Dermatology, Sapporo Medical University School of Medicine, Sapporo
- P03-03 [C10-03] Genetic intratumor heterogeneity and clonal evolution in extramammary Paget's disease**
○ Kenichiro Tanaka¹, Ikko Kajihara², Kazuro Shimokawa³, Naotoshi Nakamura³, Yudo Kusaba², Ryoko Sakamoto², Saki Maeda-Otsuka², Saori Yamada-Kanazawa², Soichiro Sawamura², Hisashi Kanemaru², Katsunari Makino², Jun Aoi², Shinichi Masuguchi², Takashi Suzuki³, Satoshi Fukushima²
¹The Department of Dermatology, Kumamoto Shinto General Hospital, Kumamoto, ²The Department of Dermatology, Kumamoto University, Kumamoto, ³Osaka University, Center for Mathematical Modeling and Data Science, Osaka
- 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 Wang¹, Kazunori Yokoi¹, Yusuke Yoshioka², Rei Watanabe³, Yasuhiro Fujisawa⁴, Takahiro Ochiya², Atsushi Tanemura¹, Manabu Fujimoto¹
¹Department of Dermatology, Osaka University Graduate School of Medicine, Suita, ²Department of Molecular and Cellular Medicine, Institute of Medical Science, Tokyo Medical University, Tokyo, ³Department of Dermatology, Juntendo University School of Medicine, Tokyo, ⁴Department of Dermatology, University of Tsukuba, Tsukuba
- 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}
¹Graduate Institute of Clinical Medicine, College of Medicine, Taipei Medical University, Taipei, ²Department of Dermatology, School of Medicine, Taipei Medical University, Taipei, ³Department of Dermatology, Taipei Medical University Hospital, Taipei, ⁴Cell 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 Liao¹, Laura Min Xuan Chai², Yu-Hsuan Chen², Cheng-Chih Hsu²
¹Department of Dermatology, College of Medicine, National Taiwan University, Taipei, ²Department 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 Tajima¹, Naotomo Kambe², Izumi Kishimoto¹, Noriko Kume¹, Fumikazu Yamazaki³, Hideaki Tanizaki¹
¹Department of Dermatology, Kansai Medical University, Hirakata, ²Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ³Department 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 Lee¹, Seung-Pyo Hong^{2,3}, Dong Soo Yu¹, Jong-Il Kim^{2,3}
¹Department of dermatology, College of medicine, The Catholic University of Korea, Uijeongbu, ²Department of Biomedical Sciences, Seoul National University College of Medicine, Seoul, ³Genomic 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 Huang³, Cheng-Che E. Lan^{2,3}
¹Graduate Institute of Clinical Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung City, ²Department of Dermatology, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung City, ³Department 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. Kumar¹, Satoru Sugihara¹, Sachit Seth², Gency Gunasingh¹, Loredana Spoerri¹, Cassandra Rowe¹, Helmut Schaidler¹, Kiarash Khosrotehrani¹, Rupert Ecker², Nikolas K. Haass¹
¹Frazer Institute, University of Queensland, Brisbane, ²TissueGnostics, Vienna

- P03-14 [O04-09] The dual function of antimicrobial peptides in melanoma: Perspectives from experimental and clinical research**
 ○ Quan Sun¹, Ge Peng¹, Wanchen Zhao¹, Alafate Abudouwanli¹, Mengyao Yang^{1,2}, Shan Wang^{1,3}, Hideoki Ogawa¹, Ko Okumura¹, François Niyonsaba^{1,4}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Dermatology, The First Hospital of China Medical University, Shenyang, ³Department of Dermatology, Beijing Children's Hospital, Capital Medical University, National Center for Children's Health, Beijing, ⁴Faculty of International Liberal Arts, Tokyo
- 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 Rokunohe¹, Mika Matsumoto¹, Takanori Sasaki², Yasushi Matsuzaki¹, Hajime Nakano¹, Hiroki Mizukami², Daisuke Sawamura¹, Eijiro Akasaka¹
¹Department of Dermatology, Hirosaki University, Hirosaki, ²Department 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 Phusuphitchayanant¹, Apasee Sooksamran¹, Poonnawis Sudtikoonaseth¹, Titaporn Nopmaneepaisarn², Nutpacha Chotikawichean²
¹Institute of Dermatology, Bangkok, ²Department of Dermatology, Rajavithi Hospital, Bangkok
- P03-20 TROP2 expression and therapeutic implications in cutaneous squamous cell carcinoma**
 ○ Keiko Tanegashima¹, Yuka Tanaka¹, Takamichi Ito¹, Yoshinao Oda², Takeshi Nakahara¹
¹Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, ²Department 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 Tsukamoto¹, Yohei Iwata¹, Chiho Sumitomo^{1,2}, Kazumitsu Sugiura¹
¹The Department of Dermatology, Fujita Health University, Toyoake, ²SUMITOMO 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 Takei¹, Masato Umikawa², Yoshito Yamashiro³, Kenzo Takahashi¹
¹The Department of Dermatology, University of the Ryukyus, Okinawa, ²The Department of Medical Chemistry, University of the Ryukyus, Okinawa, ³Department 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 Nishitani¹, Satoshi Nakamizo¹, Takero Shindo², Yo Kaku¹, Masakazu Fujimoto³, Masahiro Hirata³, Kai Mizoguchi³, Kazuhiro Kawai⁴, Kenji Kabashima¹
¹Department of Dermatology, Kyoto University, Kyoto, ²Department of Hematology and Oncology, Kyoto University, Kyoto, ³Department of Diagnostic Pathology, Kyoto University, Kyoto, ⁴Department of Dermatology, Kido Hospital, Niigata
- P03-26 [O04-16] A clinicopathological analysis of forkhead box A1 (FOXA1) and estrogen receptor alpha expression in extramammary Paget's disease**
 ○ Yuna Yamada¹, Yohei Iwata¹, Chiho Sumitomo^{1,2}, Kazumitsu Sugiura¹
¹The Department of Dermatology, Fujita Health University, Toyoake, ²SUMITOMO 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 Yii¹, Bowen Xia⁴, ZF Liu^{5,6}, Lawrence Lin⁵, Christopher Chew^{5,6,7,8}
¹Sinclair Dermatology Investigational Research Education and Clinical Trials (DIRECT), Melbourne, ²Faculty of Medicine, University of Melbourne, Melbourne, ³Department of Dermatology, Royal Melbourne Hospital, Melbourne, ⁴Monash Health, Melbourne, ⁵Faculty of Medicine, Monash University, Melbourne, ⁶Department of Dermatology, Alfred Health, Melbourne, ⁷Victorian Melanoma Service, Alfred Health, Melbourne, ⁸Skin 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 Kulkarni¹, Tatsuya Dokoshi¹, Toshiya Takahashi¹, Elizabeth Luo², Haleh Alimohamadi², Tomofumi Numata¹, Gerard Wong², Richard Gallo¹
¹The Department of Dermatology, UC San Diego, San Diego, ²The Department of Bioengineering, UC Los Angeles, Los Angeles, ³The 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 Sawane¹, Tsukasa Kouno², Yoshinari Ando², Miki Kojima², Makiko Komata¹, Jay W. Shin^{2,3}, Kentaro Kajiya¹
¹MIRAI Technology Institute, Shiseido Co., Ltd, Yokohama, ²IMS, RIKEN, Yokohama, ³Genome 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 TNF α 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 Sousa², Sofoklis Koudounas², Onur Egriboz², Wolfgang Funk³, Maximilian Kueckelhaus⁴, Ilaria Piccini², Marta Bertolini², Kentaro Kajiya¹
¹MIRAI Technology Institute, Shiseido Co., Ltd., Yokohama, ²Monasterium Laboratory Skin & Hair Research Solutions GmbH, Muenster, ³Schoenheitsklinik Dr Funk, Muenchen, ⁴Clinic Fachklinik Hornheide, Muenster
- 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 Hamanaka¹, Ken Ishii^{1,2}, Mari Urushibata¹, Kenji Yoshida¹, Akira Ishiko¹
¹The Department of Dermatology, Toho University School of Medicine, Tokyo, ²The 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}
¹Department of Dermatology, Seoul National University, Seoul, ²Department of Biomedical Sciences, Seoul National University, Seoul, ³Laboratory of Cutaneous Aging Research, Seoul National University, Seoul, ⁴Institute of Human-Environmental Interface Biology, Seoul National University, Seoul, ⁵Department of Physiology, Seoul National University, Seoul, ⁶Institute on Aging, Seoul National University, Seoul, ⁷Neuroscience Research Institute, Seoul National University, Seoul, ⁸Wide River Institute of Immunology, Seoul National University, Seoul

- 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 Kim², So Yeon Myeong¹, Yeongeun Kim¹, Jin Cheol Kim¹, Tae Jun Park², Hee Young Kang¹
¹Department of Dermatology, Ajou University School of Medicine, Suwon, ²Department of Biochemistry and Molecular Biology, Ajou University School of Medicine, Suwon
- P04-13 Dermal to epidermal communication is altered with aging**
 ○ Jean-Baptiste Grieu¹, Laurie Verzeaux², Clement Nivet², Elodie Aymard², Helene Muchico², Brigitte Closs²
¹SILAB North East Asia KK., Tokyo, ²SILAB, Brive
- P04-14 [O04-23] Proteases that activate pro-IL-36s in sterile neutrophilic 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 Aioi¹, Tomozumi Imamichi², Jun-ichi Kashiwakura³, Emiko Okuda-Ashitaka⁴
¹Basic Research, Septem-Soken, Osaka, ²Frederick National Laboratory for Cancer Research, Applied and Developmental Research Directorate, Frederick, ³Department of Life Science, Faculty of Pharmaceutical Sciences, Hokkaido University of Science, Sapporo, ⁴Department 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 Kim², Tae Jun Park^{3,4}, Hee Young Kang^{1,4}
¹Department of Dermatology, Ajou University School of Medicine, Suwon, ²Department of Biomedical Science, The Graduate School, Ajou University, Suwon, ³Department of Biochemistry and Molecular Biology, Ajou University School of Medicine, Suwon, ⁴Inflamm-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**
 ○ Mikihiro Ike¹, Manami Toriyama¹, Motoki Nakamura², Akimichi Morita², Fumitaka Fujita³
¹The Department of Pharmaceutical Sciences, University of Osaka, Suita, ²The Department of Medical school, University of Nagoya City, Nagoya, ³Mandom Corporation, Osaka

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 Ito², Yuki Furuichi², Takeshi Matsui⁴, Masayuki Amagai^{1,2}
¹Skin Homeostasis, RIKEN-IMS, Yokohama, ²Dermatology, Keio University School of Medicine, Tokyo, ³Pharmaceutical Science, Keio University, Tokyo, ⁴Evolutionary 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 Kawanami¹, Keiichiro Shiraga², Yuichi Ogawa², Keitaro Fukuda^{3,4}, Masayuki Amagai^{3,4}, Takeshi Matsui^{1,3,4}
¹Bionics Program, Graduate School of Bionics, Computer and Media Science, Tokyo University of technology, Tokyo, ²Graduate School of Agriculture, Kyoto University, Kyoto, ³Center for Integrative Medical Sciences, RIKEN, Yokohama, ⁴Department of Dermatology, Keio University School of Medicine, Tokyo
- P05-03 [C11-01] Lorincrin and T cell immunity: evidence from photocarcinogenesis**
 ○ Xinyi Wang¹, Yosuke Ishitsuka¹, Dennis R. Roop²
¹University of Osaka, Osaka, ²Department 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 Hirabayashi⁴, Mayuko Sato⁵, Kiminori Toyooka⁵, Hiroyuki Sasaki⁶, Masayuki Amagai^{2,3}
¹School of Bioscience and Biotechnology, Tokyo University of Technology, Tokyo, ²RIKEN Center for Integrative Medical Sciences, Yokohama, ³Department of Dermatology, Keio University School of Medicine, Tokyo, ⁴Institute for Life and Medical Sciences, Kyoto University, Kyoto, ⁵RIKEN Center for Sustainable Resource Science, Yokohama, ⁶Department 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 Zhao¹, Alafate Abudouwanli¹, Quan Sun¹, Mengyao Yang^{1,2}, Shan Wang^{1,3}, Shigaku Ikeda¹, Hideoki Ogawa¹, Ko Okumura¹, François Niyonsaba^{1,4}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Dermatology, the First Affiliated Hospital of China Medical University, Shenyang, ³Department of Dermatology, Beijing Children's Hospital, Capital Medical University, Beijing, ⁴Faculty of International Liberal Arts, Juntendo University, Tokyo
- P05-06**
[C01-03] **Sweating disturbance negatively affects skin barrier function and increases the risk of food allergy**
○ Hironobu Ishimaru^{1,2}, Yasuo Okamoto¹, Yumi Aoyama³
¹Department of Pharmacology, Kawasaki Medical School, Okayama, ²Kyoto R&D Center, Maruho Co., Ltd., Kyoto, ³Department 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 Nakamoto¹, Hironobu Ishimaru¹, Tatsuki Ohta², Tetsushi Koide², Yumi Aoyama¹
¹Dermatology, Kawasaki Medical School, Kurashiki, ²Research 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 Ann¹, Yerim Choi^{1,2}, Karin Goto¹, Eung Ho Choi³, ○Yoshikazu Uchida¹, Kyungho Park¹
¹Hallym University, Chuncheon, ²LaSS Inc, Chuncheon, ³Yonsei 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 Takada¹, Miho Sashikawa-Kimura², Hossain Razib², Xiaonan Xie¹, Mayumi Komine², Mamitaro Ohtsuki², Genji Imokawa¹
¹Utsunomiya University, Utsunomiya, ²Jichi Medical University, Shimotsuke
- P05-10**
[C01-07] **Novel insights from changes in skin surface lipidomics profile and phenotype in various age groups**
○ Kyung Eun Lee¹, Kyong-Oh Shin¹, Hyeyoun Kim¹, Hee Yeon Cho¹, Minji Kim¹, Kyungho Park³, Seunghyun Kang¹
¹COSMAX BTI, Seongnam, ²LaSS Inc, Chuncheon, ³Hallym University, Chuncheon
- P05-11**
[C02-05] **Importance of integrin $\alpha 6\beta 4$ -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 Miyai¹, Akira Motoyama¹, Junichiro Hiruma², Mami Yamamoto², Ryoji Tsuboi², Toshihiko Hibino^{1,2}
¹Shiseido Co., Ltd., MIRAI Technology Institute, Yokohama, ²Department of Dermatology, Tokyo Medical University, Tokyo
- P05-13**
[O02-02] **High resolution imaging of intra-dermal distributions of cosmetic ingredients using NanoSIMS**
Keishi Kihara¹, Akira Motoyama¹, ○ Kazuhiro Matsuda²
¹MIRAI Technology Institute, Shiseido Co., Ltd., Yokohama, ²Surface 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 filaggrin-2 and hornerin: Analysis of a three-dimensional psoriatic skin model**
○ Teruhiko Makino¹, Megumi Mizawa¹, Keita Takemoto¹, Seiji Yamamoto², Tadamichi Shimizu¹
¹Department of Dermatology, University of Toyama, Toyama, ²Department 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 Abudouwanli¹, Ge Peng¹, Wanchen Zhao¹, Arisa Ikeda^{1,2}, Quan Sun¹, Mengyao Yang^{1,3}, Shan Wang^{1,4}, Ko Okumura¹, Hideoki Ogawa¹, François Niyonsaba^{1,5}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Nephrology, Juntendo University Graduate School of Medicine, Tokyo, ³Department of Dermatology, The First Affiliated Hospital of China Medical University, Shenyang, Liaoning, ⁴Department of Dermatology, Beijing Children's Hospital, Capital Medical University, National Center for Children's Health, Beijing, ⁵Faculty of International Liberal Arts, Juntendo University, Tokyo

- 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 Lee¹, Jong Ho Park², Hye-Won Na³, Ji Young Kim¹, Seohyun Park¹, Yu Jeong Bae¹, Shinwon Hwang¹, Il Joo Kwon¹, Hyoung-June Kim³, Hae Kwang Lee², Sang Ho Oh¹
¹The Department of Dermatology, Yonsei University College of Medicine, Seoul, ²P&K Skin Research Center, Seoul, ³AMOREPACIFIC Research and Innovation Center, Yongin
- P05-21 [O02-09] Soothing benefits of Centella asiatica extract**
 ○ Yan Wu^{1,2}, Binwei Deng², Jian (Richard) Cao², Nadine Pernodet³
¹Dr. Jart+, Asia Advanced Technology Pioneering, Shanghai, ²Estée Lauder Companies R&D, Asia Innovation Center, Shanghai, ³R&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 Toyama¹, Soichiro Yoshikawa¹, Yayoi Kamata¹, Mitsutoshi Tominaga¹, Kenji Takamori^{1,2}
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, ²Department of Dermatology, Juntendo University Urayasu Hospital, Chiba
- P05-23 Immature differentiation of keratinocytes leads to horny thickening by degraded expression of steroid sulfatase**
 ○ Masaki Yoshida¹, Yuzuki Ineyama¹, Sora Muraoka¹, Shota Koya¹, Yuka Ishii¹, Rena Yamamoto¹, Hitoshi Masaki², Nobuo Nagai³
¹School of Bioscience and Biotechnology, Tokyo University of Technology, Hachioji, Tokyo, ²CIEL CO., LTD., Sagamihara, Kanagawa, ³Nagahama 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 Tobita¹, Mitsutoshi Tominaga¹, Kenji Takamori^{1,2}
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender Specific Medicine, Juntendo Univ. Graduate school of Medicine, Urayasu, ²Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu
- P05-26 Putative roles of lipoxygenases in antioxidant barrier function of psoriasis and dermatitis**
 ○ Hyunjung Kim, Sungwoo Kim, Jihye Maeng, Joomi Yu
 Department of Dermatology, Chungnam National University School of Medicine, Chungnam National University Sejong Hospital, Sejong
- P05-27 Berberine, a Natural Alkaloid, Prevents Skin Aging by Up-Regulating Mitochondrial Ubiquitin Ligase MITOL/MARCH5**
 ○ Takeshi Tokuyama¹, Shigeru Yanagi²
¹Division of Regenerative Medicine, Jichi Medical University, Shimotsuke, ²Laboratory of Molecular Biochemistry, Department of Life Science, Faculty of Science, Gakushuin University, Mejiro, Tokyo
- P05-28 A role of repetin in cornification and barrier formation in human epidermis**
 ○ Megumi Mizawa¹, Teruhiko Makino¹, Keita Takemoto¹, Seiji Yamamoto², Tadamichi Shimizu¹
¹Department of Dermatology, Faculty of Medicine, Academic Assembly, University of Toyama, Toyama, ²Department 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 Umehara¹, Ge Peng¹, Ko Okumura¹, Hideoki Ogawa¹, François Niyonsaba^{1,2}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Faculty of International Liberal Arts, Juntendo University, Tokyo
- P05-30 Optimizing Topical Cannabinoid Dosing in Chronic Plaque Psoriasis: A Machine Learning Approach**
 ○ Andi N. A. Ureng¹, Rifaldy Fajar², Prihantini Prihantini³, Sahnaz V. Putri⁴
¹Department of Pharmacy, Andini Persada College of Health Sciences, Mamuju, ²Computational Biology and Medicine Laboratory, Yogyakarta State University, Sleman, ³Machine Learning for BioMedicine Laboratory, Bandung Institute of Technology, Bandung, ⁴Health 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 Nishikawa¹, Ryota Asahina^{2,3}, Gyohei Egawa^{2,4}, Seigo Yamada¹, Yoshiyuki Obayashi¹, Kenji Kabashima²
¹Well-being Research Laboratories, Lion Corporation, Kanagawa, ²Department of Dermatology, Graduate School of Medicine, Kyoto University, Kyoto, ³Center for One Medicine Innovative Translational Research (COMIT), Gifu University, Gifu, ⁴Department of Dermatology, Graduate School of Medical and Dental Sciences, Kagoshima University, Kagoshima

- 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 Wearne¹, Ruo Yan Ong¹, Sze Han Lee¹, James Chan^{1,2}, John Common¹
¹A*STAR Skin Research Labs, Agency for Science Technology and Research, Singapore, ²Singapore 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 Tham¹, Seong Soo Lim¹, John E.A. Common¹, Carine Bonnard^{1,2}
¹A*STAR Skin Research Labs (A*SRL), Agency for Science, Technology and Research (A*STAR), Singapore, ²Skin Research Institute of Singapore (SRIS), Singapore
- P05-36 Elucidation of microscopic characteristics of stratum corneum**
Yasuko Obata¹, ○ Shu Mao¹, Ikki Shibasaki¹, Yuri Ikeuchi-Takahashi¹, Kenya Ishida²
¹Hoshi University, Tokyo, ²Takasago 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 Lai¹, Yi-Han Chang^{1,2}, Chao-Chun Yang^{1,2}
¹Department of Dermatology, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, ²International Center for Wound Repair and Regeneration (iWRR), National Cheng Kung University, Tainan, ³Department of Dermatology, University of the Philippines - Philippine General Hospital, Manila
- P05-39 TRPV4 expression in atopic dermatitis and the effect by osmotic stress**
○ Atsuko Kamo¹, Mao Hotta², Mitsutoshi Tominaga², Kenji Takamori^{2,3}
¹Laboratory of Clinical Pathophysiology, Juntendo University Graduate School of Health Care and Nursing, Urayasu, Chiba, ²Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate school of Medicine, Urayasu, Chiba, ³Department 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 Takezawa¹, Manami Masuda¹, Minoru Abe^{1,2}, Megumi Miyazawa¹, Shintaro Inoue¹, Yukiko Mizutani¹
¹Department of Cosmetic Health Science, Gifu Pharmaceutical University, Gifu, ²Division of Cell Structure, National Institute for Physiological Science, Okazaki

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 Saito¹, Yuki Saito^{2,3}, Showbu Sato¹, Satomi Aoki¹, Noriko Ono¹, Yoshihiro Ito¹, Ai Yoshioka⁴, Hisato Suzuki⁵, Takashi Sasaki⁶, Tomoko Kawai⁷, Kenichiro Hata^{7,8}, Kenjiro Kosaki⁵, Masayuki Amagai¹, Kazuhiko Nakabayashi⁷, Akiharu Kubo^{1,4}
¹Department of Dermatology, Keio University School of Medicine, Tokyo, ²Department of Gastroenterology, Keio University School of Medicine, Tokyo, ³Division of Molecular Oncology, National Cancer Center Research Institute, Tokyo, ⁴Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe, ⁵Center for Medical Genetics, Keio University School of Medicine, Tokyo, ⁶Center for Supercentenarian Medical Research, Keio University School of Medicine, Tokyo, ⁷Department of Maternal-Fetal Biology, National Center for Child Health and Development, Tokyo, ⁸Department of Human Molecular Genetics, Gunma University Graduate School of Medicine, Maebashi
- P06-02 [C12-03] Defective extracellular secretion of SERPINB7 protein in Nagashima-type palmoplantar keratosis**
○ Katsuhito Sasaki¹, Takato Sugiyama¹, Keitaro Umezawa², Risa Nobuta¹, Chika Tsutsumi³, Yuri Miura², Ryo Ushioda^{3,4}, Toshifumi Nomura¹
¹Department of Dermatology, Institute of Medicine, University of Tsukuba, Tsukuba, ²Research Team for Mechanism of Aging, Tokyo Metropolitan Institute of Gerontology, Tokyo, ³Department of Molecular Biosciences, Faculty of Life Sciences, Kyoto Sangyo University, Kyoto, ⁴Institute 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 Tanahashi¹, Michihiro Kono^{1,2}, Takenori Yoshikawa¹, Yuika Suzuki¹, Masukazu Inoue³, Yachiyo Kuwatsuka⁴, Fumie Kinoshita⁴, Takuya Takeichi^{1,5}, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, ²Department of Dermatology and Plastic Surgery, Akita University Graduate School of Medicine, Akita, ³Japan Tissue Engineering Co., Ltd., Gamagori, ⁴Department of Advanced Medicine, Nagoya University Hospital, Nagoya, ⁵Nagoya University Institute for Advanced Research, Nagoya
- 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 Sugiyama¹, Kazuya Matsuo², Risa Nobuta¹, Ruriko Endo¹, Kentaro Shiraki³, Norifumi Shioda², Toshifumi Nomura¹
¹Department of Dermatology, Institute of Medicine, University of Tsukuba, Tsukuba, ²Department of Genomic Neurology, Institute of Molecular Embryology and Genetics (IMEG), Kumamoto University, Kumamoto, ³Faculty of Pure and Applied Sciences, University of Tsukuba, Tsukuba
- P06-08 [O02-13] MEFV variants are a predisposing factor for generalized pustular psoriasis**
 ○ Takenori Yoshikawa¹, Takuya Takeichi¹, Kazuki Nishida², Yumiko Kobayashi², Kazumitsu Sugiura³, Yoshinao Muro¹, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, ²Department of Advanced Medicine, Nagoya University Hospital, Nagoya, ³Department 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 Yamashita¹, Makiko Koike-Kumagai¹, Manabu Fujimoto², Mari Wataya-Kaneda^{1,2}
¹Department of Neurocutaneous Medicine, Division of Health Sciences, Graduate School of Medicine, Osaka University, Osaka, ²Department 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 Teye¹, Hiroshi Koga², Masahiro Tsutsumi², Norito Ishii², Takahiro Hamada², Takekuni Nakama²
¹Kurume University Institute of Cutaneous Cell Biology, Kurume, ²Department 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 Kaneda¹, Hanako Koguchi-Yoshioka^{1,2}, Satoshi Hattori³, Keisuke Nimura⁴, Saki Ishino⁵, Manabu Fujimoto¹, Mari Wataya-Kaneda^{1,2}
¹The Department of Dermatology, Osaka University, Suita, ²The Department of Neurocutaneous Medicine, Osaka University, Suita, ³The Department of Biomedical Statistics, Osaka University, Suita, ⁴The Division of Gene Therapy Science, Osaka University, Suita, ⁵The 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 FDF1**
 ○ Ai Yoshioka¹, Sonoko Saito², Satomi Aoki², Hiroaki Hanafusa³, Takashi Seo⁴, Ken Natsuga⁴, Kazuhiko Nakabayashi⁵, Masayuki Amagai², Takeshi Fukumoto¹, Akiko Kubo¹, Akiharu Kubo^{1,2}
¹Division of Dermatology, Department of Internal Related, Graduate School of Medicine, Kobe University, Kobe, ²Department of Dermatology, Keio University School of Medicine, Tokyo, ³Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, ⁴Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, ⁵Department of Maternal-Fetal Biology, National Research Institute for Child Health and Development, Tokyo
- P06-14 Withdrawn**

- P06-15 [O02-19] Two cases of Hailey-Hailey disease with novel pathogenic ATP2C1 variants suggesting possible genotype/phenotype correlations**
○ Michiya Omi¹, Takuya Takeichi^{1,2}, Yasutoshi Ito^{1,3}, Takenori Yoshikawa¹, Yuki Mizutani^{4,5}, Miki Nagai⁴, Mariko Seishima^{6,7}, Tomoo Ogi^{8,9}, Yoshinao Muro¹, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, ²Nagoya University Institute for Advanced Research, Nagoya, ³Department of Dermatology, National Hospital Organization, Nagoya Medical Center, Nagoya, ⁴Gifu Prefectural General Medical Center, Gifu, ⁵Department of Dermatology, Mie University, Graduate School of Medicine, Tsu, ⁶Department of Dermatology, Asahi University Hospital, Gifu, ⁷Department of Dermatology, Gifu University Graduate School of Medicine, Gifu, ⁸Department of Genetics, Research Institute of Environmental Medicine (RIEM), Nagoya University, Nagoya, ⁹Department of Human Genetics and Molecular Biology, Nagoya University Graduate School of Medicine, Nagoya
- P06-16 [O02-20] Methotrexate Reduces Pruritus in Patients with Recessive Dystrophic Epidermolysis Bullosa**
○ Hsin Yu Huang^{1,5}, Wilson Jr F. Aala², Yi-Kai Hong^{1,4}, Alexandros Onoufriadis³, John A. McGrath^{1,3}, Chao-Kai Hsu^{1,2,4}
¹Department of Dermatology, National Chun Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, ²Institute of Clinical Medicine, College of Medicine, National Cheng Kung University, Tainan, ³St Johns Institute of Dermatology, School of Basic and Medical Biosciences, Kings College London, London, ⁴International Center for Wound Repair and Regeneration, National Cheng Kung University, Tainan, ⁵Tainan Hospital, Ministry of Health and Welfare, Tainan
- P06-17 [O02-21] Genetic association between palmoplantar pustulosis and HLA polymorphisms**
○ Nobuhiro Takahashi^{1,2}, Tomomichi Shimizu¹, Akio Kondoh¹, Fumikazu Yamazaki¹, Shingo Suzuki², Takahi Shiina², Tomotaka Mabuchi¹
¹Tokai University School of Medicine, Isehara, ²Department 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 Moon¹, Hae Kyeong Yoon², Doyeon Kim³, Myung Eun Choi¹, Seung Hee Han², June Hyun Park³, Sun Woo Hong³, Hyesoo Cho¹, Dong Ki Lee^{3,4}, Chong Hyun Won^{1,2}
¹Department of Dermatology, Asan Medical Center, Seoul, ²Asan Institute for Life Sciences, Asan Medical Center, Seoul, ³OliX Pharmaceuticals, Suwon, ⁴Department 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 Tamai¹, Takashi Sugihira¹, Seitaro Nakagawa¹, Shuo Li², Manabu Fujimoto¹, Yumi Matsuoka-Nakamura^{1,2}
¹Department of Dermatology, Graduate School of Medicine, Osaka University, Suita, ²Cutaneous 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 Bagoood, 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 β 2-adrenergic receptor in skin allergic inflammation**
○ Soichiro Yoshikawa^{1,2}, Hitoshi Urakami^{2,3}, Kei Nagao^{1,2}, Kensuke Miyake⁴, Shuhei Sano⁵, Zheyu Hu⁵, Emi Nishii⁵, Atsushi Fujimura², Takeshi Y. Hiyama⁶, Keiji Naruse⁷, Hajime Karasuyama⁴, Mitsutoshi Tominaga¹, Kenji Takamori^{1,8}, Shin Morizane³, Sachiko Miyake⁵
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Urayasu, ²Department of Cellular Physiology, Okayama University Academic Field of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, ³Department of Dermatology, Okayama University Academic Field of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, ⁴Inflammation, Infection & Immunity Laboratory, Advanced Research Institute, Tokyo Medical and Dental University (TMDU), Tokyo, ⁵Department of Immunology, Juntendo University Graduate School of Medicine, Tokyo, ⁶Department of Integrative Physiology, Tottori University Graduate School and Faculty of Medicine, Yonago, ⁷Department of Cardiovascular Physiology, Okayama University Academic Field of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, ⁸Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu

- P07-04 [C09-03] Genetic barrier dysfunction drives skin inflammation during atopy and cutaneous pathogenic colonization**
 ○ Ying Shiang Lim¹, Belle Yap¹, Lifang Koh¹, Jasrie Muhammad², Franklin Zhong², John Common¹
¹A*STAR Skin Research Labs, Singapore, ²Nanyang 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 Fujimoto³, Yumi Matsuoka-Nakamura^{1,3,4}
¹Cutaneous Immunology and Microbiology, Graduate School of Medicine, Osaka University, Osaka, ²Basic Research Development Division, Roho Pharmaceutical Co., Ltd., Kizugawa, ³Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka, ⁴Cutaneous 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 Williams¹, Ryo Muko², Emily Wright¹, Hiroshi Matsuda³, Akane Tanaka^{2,3}, Peter D Arkwright¹, Joanne L Pennock¹
¹Lydia Becker Institute of Immunology and Inflammation, University of Manchester, Manchester, ²Institute of Global Innovation Research, Tokyo University of Agriculture & Technology, Tokyo, ³Laboratories 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 Kawai¹, Satoshi Muraoka², Masatoshi Eguchi¹, Hong Ha Nguyen¹, Shingo Takei¹, Haruna Kimura¹, Tatsuya Katsumi¹, Kouichi Tomii¹, Elena Borzova¹, Akito Hasegawa¹, Ryota Hayashi¹, Jun Adachi², Riichiro Abe¹
¹Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, ²Laboratory of Proteomics for Drug Discovery, Center for Drug Design Research, National Institute of Biomedical Innovation, Health and Nutrition, Osaka
- 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. Kosaka¹, Satoshi Nakamizo¹, Gyohei Egawa², Kazuhiro Iwai³, Kenji Kabashima¹
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Department of Dermatology, Kagoshima University, Kagoshima, ³Department of Molecular and Cellular Physiology, Kyoto University Graduate School of Medicine, Kyoto
- P07-10 [O02-23] Comprehensive metagenomic analysis of axillary microbiota in Japanese male subjects with axillary osmidrosis**
 ○ Miki Watanabe^{1,2}, Miho Uematsu², Kosuke Fujimoto², Daisuke Tsuruta¹, Satoshi Uematsu²
¹Department of Dermatology, Graduate School of Medicine, Osaka Metropolitan University, Osaka, ²Department of Immunology and Genomics, Graduate School of Medicine, Osaka Metropolitan University, Osaka
- P07-11 [O02-24] Investigation into the inflammatory cascade of secondary disease in dystrophic epidermolysis bullosa using spatial transcriptomics**
 ○ Yoshio Kawakami¹, Ken-Ichi Hasui¹, Yoshihiro Matsuda¹, Yohei Yasutomi¹, Himino Ashida¹, Ai Kajita¹, Yoji Hirai¹, Keiji Iwatsuki¹, Shuta Tomida², Shin Morizane¹
¹Department of Dermatology, Okayama University, Okayama, ²Department of Biobank, Okayama University, Okayama
- P07-12 [O02-25] Skin keratinocytes expressing mutation in the Cx26 gene cause susceptibility to chronic cutaneous candidiasis**
 ○ Alshimaa Mostafa¹, Teruasa Murata^{1,2}, Akihiko Kitoh¹, Hiromi Doi¹, Gyohei Egawa^{1,3}, Kenji Kabashima¹
¹The Department of Dermatology, Kyoto University, Kyoto, ²Department of Dermatology, Hyogo Medical University, Hyogo, ³Department 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}
¹Department of Dermatology, College of Medicine, Kaohsiung Medical University, Kaohsiung, ²Department of Dermatology, Kaohsiung University Gangshan Hospital, Kaohsiung, ³Department of Dermatology, Kaohsiung Medical University Hospital, Kaohsiung, ⁴Master of Public Health Degree Program, College of Public Health, National Taiwan University, Taipei, ⁵National Institute of Environmental Health Sciences, National Health Research Institutes, Miaoli, ⁶Graduate Institute of Clinical Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung
- P07-14 [O05-02] Enhanced Antioxidant Activity in Multinucleated Giant Cells within Granulomas**
 ○ Satoshi Nakamizo^{1,2}, Kenji Kabashima¹
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Alliance 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 Kobayashi¹, Hideki Nakagawa², Masato Komai³
¹Department of Dermatology, Seibo International Catholic Hospital, Tokyo, ²Department of Otolaryngology, Seibo International Catholic Hospital, Tokyo, ³Research 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 Morisaka¹, Kazuhiko Maeda^{2,3}, Manabu Fujimoto⁴, Shizuo Akira^{2,3}
¹Department of Stem Cell Gene Therapy Science, Graduate School of Medicine, Osaka University, Suita, ²Laboratory of Host Defense, World Premier Institute-Immunology Frontier Research Center (WPI-IFReC), Osaka University, Suita, ³Department of Host Defense, Research Institute for Microbial Diseases (RIMD), Osaka University, Suita, ⁴Department of Dermatology, Integrated Medicine, Graduate School of Medicine, Osaka University, Suita
- P07-17 [O05-05] Squaric acid dibutylester promotes innate immune-driven hair growth with CD206⁺ macrophage accumulation**
○ Koichi Tomii^{1,2}, Tomoya Kataka², Riichiro Abe¹
¹Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, ²Department 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 Nguyen¹, Minh Ho³, ○ Bao C Bui²
¹Department of Omics, International University, Ho Chi Minh, ²University of Health Sciences, Vietnam National University, Ho Chi Minh, ³Department 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 Fajar¹, Elfiany Evy², Sahnaz V. Putri³, Prihantini Prihantini⁴
¹Computational Biology and Medicine Laboratory, Yogyakarta State University, Sleman, ²Dermatology Research Unit, BLK General Hospital, Bulukumba, ³Health Management Laboratory, International University Semen Indonesia, Gresik, ⁴Machine Learning for BioMedicine Laboratory, Bandung Institute of Technology, Bandung
- P07-21 Predicting Well-Being in Psoriasis Patients with Wearable Biometrics and Microbiome Analysis Using Machine Learning**
○ Sahnaz V. Putri¹, Rifaldy Fajar², Prihantini Prihantini³, Andi N. A. Ureng⁴, Elfiany Evy⁵
¹Health Management Laboratory, International University Semen Indonesia, Gresik, ²Computational Biology and Medicine Laboratory, Yogyakarta State University, Sleman, ³Machine Learning for BioMedicine Laboratory, Bandung Institute of Technology, Bandung, ⁴Department of Pharmacy, Andini Persada College of Health Sciences, Mamuju, ⁵Dermatology Research Unit, BLK General Hospital, Bulukumba
- 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 Chen², Seiji Kamijo², Saya Shimizu², Mitsutoshi Tominaga³, Kenji Takamori³, Hideoki Ogawa¹, Ko Okumura², Shigaku Ikeda¹, Rei Watanabe¹, Toshiro Takai²
¹Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, ²Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ³Juntendo Itch Research Center (JIRC), Juntendo University Graduate School of Medicine, Chiba
- P07-23 Successful isolation of efficient bacteriophages against Escherichia coli strains detected from patients hospitalized in our hospital**
○ Junko Nishikawa¹, Junko Okano², Toshifumi Takahashi¹, Takahiko Nakagawa³, Hideto Kojima⁴, Noriki Fujimoto¹
¹The Department of Dermatology, Shiga University of Medical Science, Shiga, ²The Department of Plastic Surgery, Shiga University of Medical Science, Shiga, ³The Department of Regenerative Medicine Development, Shiga University of Medical Science, Shiga, ⁴The Department of Biocommunication Development, Shiga University of Medical Science, Shiga
- 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 Huang³, Jen-Yu Wang Wang^{1,2}, Te-An Lee Lee⁶
¹Department of Dermatology, MacKay Memorial Hospital, Taipei, ²Department of Medicine, MacKay Medical College, New Taipei City, ³Institute of Biomedical Sciences, MacKay Medical College, New Taipei City, ⁴Department of Nursing, MacKay Medical College, New Taipei City, ⁵Department of Medical Research, MacKay Memorial Hospital, Taipei, ⁶Department of Urology, Hsinchu MacKay Memorial Hospital, Hsinchu
- 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 Kamijo², Yurie Masutani^{1,2}, Tomoko Yoshimura^{1,2}, Saya Shimizu², Keiko Takada^{1,2}, Mengnan Chen², Sakiko Maruyama^{1,2}, Hideoki Ogawa¹, Ko Okumura², Rei Watanabe¹, Shigaku Ikeda¹, Toshiro Takai²
¹Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, ²Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo
- 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 Liu¹, Guangpeng Liu¹, Yongxian Lai²
¹Department of Plastic and Reconstructive Surgery, Shanghai Tenth People's Hospital, School of Medicine, Tongji University, Shanghai, ²Department 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-Uchida¹, Manabu Fujimoto², Yoshihide Asano³, Masatoshi Jinnin⁴, Takashi Matsushita⁵, Sei-ichiro Motegi⁶, Shinichi Sato⁷, Minoru Hasegawa¹
¹Departments of Dermatology, University of Fukui, Fukui, ²Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka, ³Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, ⁴Department of Dermatology, Wakayama Medical University Graduate School of Medicine, Wakayama, ⁵Department of Dermatology, Faculty of Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Kanazawa, ⁶Department of Dermatology, Gunma University Graduate School of Medicine, Gunma, ⁷Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo
- P08-02 [C10-08] Diagnostic scoring system for intravascular large B-cell lymphoma**
 ○ Maho Nakashima¹, Motoi Takenaka², Takeharu Kato³, Yasushi Miyazaki¹, Hiroyuki Murota²
¹Department of Dermatology, Nagasaki University Hospital, Nagasaki, ²Department of Dermatology, Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, ³Department of Hematology, Nagasaki University Hospital, Nagasaki, ⁴Department of Hematology, Atomic Bomb Disease Institute, Nagasaki University, Nagasaki
- P08-03 [C07-01] Nemozumab Improves Pruritus in Patients with Intrinsic Atopic Dermatitis Lacking Atopic Predisposition**
 ○ Emi Sato¹, Keita Tsutsui^{1,2}, Hiroki Shimizu¹, Kotaro Ito^{1,3}
¹Department of Dermatology, Fukuoka University Faculty of Medicine, Fukuoka, ²Fukuoka Central Hospital, Fukuoka, ³Ito 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 Bui¹, Huy Nguyen¹, Ngan K Nguyen²
¹Department of Medical Science, University of Health Sciences, Ho Chi Minh City, ²Department 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 Kim¹, Seo Hyeong Kim¹, Yoon Mi Choi¹, Soo Min Seo¹, Eun Young Jang¹, Yeon Woo Jung², Chang Ook Park², Do Hyeon Jeong³, Kwang Hoon Lee¹
¹CUTIS Biomedical Research Center Ltd., Seoul, ²Department of Dermatology & Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, ³RAPHAS Ltd., Seoul
- P08-07 [O05-11] Exploring the Synergy of big data in bridging digital health and cosmetics industries for advanced hair loss research**
 ○ Seoyeon Kyung¹, Dongeol Lee¹, Seunghyun Kang¹, Dong Keon Yon^{2,5}, Selin Woo², Minji Kim², Hayeon Lee², Jiseung Kang³, Masoud Rahmati⁴, Yujun Park⁶, Seyoung Mun⁶
¹COSMAX BTI, Seongnamsi, ²Center of Digital Health, Kyung Hee University Medical Center, Seoul, ³Department of Anesthesia, Massachusetts General Hospital, Boston, ⁴Department of Physical Education and Sport Sciences, Lorestan University, Khoramabad, ⁵Department of Pediatrics, Kyung Hee University Medical Center, Seoul, ⁶Department of Nanobiomedical Science, Dankook University, Cheonan
- 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 pruritus in eruptive pruritic papular porokeratosis (EPPP)**
 ○ Satomi Igawa¹, Akemi Ishida-Yamamoto¹, Noriaki Toyota², Mari Kishibe¹
¹Department of Dermatology, Asahikawa Medical University, Asahikawa, ²Minami 6 Dermatological Clinic, Asahikawa
- P08-10 The contribution of atopic diseases to alopecia areata**
 ○ Ying Yi Lu^{1,2}, Chieh-Hsin Wu^{3,4}
¹Department of Dermatology, Kaohsiung Veterans General Hospital, Kaohsiung City, ²School of Medicine, College of Medicine, National Sun Yat-sen University, Kaohsiung City, ³Department of Surgery, School of Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung City, ⁴Division of Neurosurgery, Department of Surgery, Kaohsiung Medical University Hospital, Kaohsiung City

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

Category 9 (P09): Patient-Targeted Research

- P09-01** **Epigenetic memory in healed psoriatic keratinocytes**
[II-4]
 ○ 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** **Characterization of Circulating Monocytes in Atopic Dermatitis through Single-Cell RNA Sequencing**
[I-4]
 ○ Yujin Lee
 Department of Dermatology, Eunpyeong St. Marys Hospital, College of Medicine, The Catholic University of Korea, Seoul
- P09-03** **Spatially Transcriptomic Analysis Reveals Alopecia Areata-Specific Gene Expression Signatures Compared to Seborrheic Dermatitis**
[C07-02]
 ○ SoHee Park
 Department of Dermatology, Eunpyeong St. Marys Hospital, Seoul
- P09-04** **Consistent PD-1 decrease in cytotoxic T cell subsets suggests treatment-resistency in rapidly progressive alopecia areata**
[C07-03]
 ○ Ryo Takahashi¹, Misaki Kinoshita-Ise², Yoshimi Yamazaki², Masahiro Fukuyama², Manabu Ohyama^{1,2}
¹Flow Cytometry Core Facility, Kyorin University Graduate School of Medicine, Tokyo, ²Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo
- P09-05** **Validation of a closed-loop AI and haptic-enabled wearable device for nocturnal scratching in mild atopic dermatitis**
[C07-04]
 ○ Albert F. Yang¹, Soham Patel^{2,3}, Keum San Chun⁴, Dylan Richards⁴, Jessica R. Walter⁵, Kazuaki Okamoto⁶, Amy S. Paller^{3,7,8}, Akihiko Ikoma⁶, Shuai Xu^{3,4,7,8,9}
¹Department of Dermatology, University of Michigan, Ann Arbor, ²University of Kansas School of Medicine, Kansas City, ³Department of Dermatology, Northwestern University Feinberg School of Medicine, Chicago, ⁴Sibel Health, Niles, ⁵Department of Obstetrics and Gynecology, Northwestern University Feinberg School of Medicine, Chicago, ⁶Maruho Co., Ltd., Osaka, ⁷Department of Pediatrics (Dermatology), Northwestern University Feinberg School of Medicine, Chicago, ⁸Querrey Simpson Institute for Bioelectronics, Northwestern University, Chicago, ⁹Department of Biomedical Engineering, Northwestern University, Evanston
- P09-06** **Decoding the Immune Mechanisms in Papuloerythroderma of Ofuji: Clinical and Molecular Insights**
[C07-05]
 ○ Koki Kataoka¹, Fuuka Minami¹, Ryota Asahina^{1,2}, Satoru Yonekura¹, Saeko Nakajima^{1,3}, Kenji Kabashima^{1,4,5}
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Center for One Medicine Innovative Translational Research (COMIT), Gifu University, Gifu, ³Department of Drug Discovery for Inflammatory Skin Diseases, Kyoto University Graduate School of Medicine, Kyoto, ⁴A*STAR Skin Research Labs (A*SRL), Agency for Science, Technology and Research (A*STAR), 8A Biomedical Grove, #06-06 Immunos, Singapore, ⁵Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A*STAR), 8A Biomedical Grove, Level 3 Immunos, Singapore
- P09-07** **MicroRNA as a disease marker of psoriasis**
[O05-15]
 ○ Yuko Higashi^{1,2}, Munekazu Yamakuchi³, Tomoko Fukushima¹, Takuro Kanekura¹, Teruto Hashiguchi¹, Gyohei Egawa¹
¹Department of Dermatology, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, ²Department of Dermatology, Kagoshima City Hospital, Kagoshima, ³Department of Laboratory and Vascular Medicine, Graduate School of Medical and Dental Sciences, Kagoshima University, Kagoshima
- P09-08** **Could Mechanical Stress Serve as a Predisposing Factor for the Malignant Transformation of Seborrheic Keratosis?**
[O05-16]
 ○ Hiroyoshi Nozaki¹, Tomoe Nakagawa¹, Kaori Umekage¹, Kyoko Kanno³, Mari Kishibe¹, Masaru Honma², Akemi Ishida-Yamamoto¹
¹Department of Dermatology, Asahikawa Medical University, Asahikawa, ²International Medical Support Center, Asahikawa Medical University, Asahikawa
- P09-09** **Amlitelimab normalises the atopic dermatitis gene signature in the skin of patients with moderate-to-severe atopic dermatitis**
 ○ Eriko Kudo¹, Shawn G. Kwatra², Margitta Worm³, Stephan Weidinger⁴, Franck Augé⁵, Shaima Belhechmi⁵, Annick Peleraux⁶, John T. O'Malley⁷, Charlotte Bernigaud⁸, Natalie Rynkiewicz⁷
¹Sanofi, Tokyo, ²Department of Dermatology and Maryland Itch Center, University of Maryland School of Medicine, Baltimore, ³Department of Dermatology and Allergology, University Medical Center Berlin, Berlin, ⁴Department of Dermatology and Allergy, University Hospital Schleswig-Holstein, Kiel, ⁵Sanofi, Paris, ⁶Sanofi, Montpellier, ⁷Sanofi, Cambridge
- P09-10** **Development of a digital image analysis system to objectively evaluate the treatment response in cellulitis**
[O05-17]
 ○ Kazunori Miyata¹, Jun Yamagami², Yuko Takenaka², Mai Onuki², Tomoaki Sawayanagi³, Naoko Ishiguro²
¹Department of Dermatology, Tokyo Women's Medical University Yachiyo Medical Center, Chiba, ²Department of Dermatology, Tokyo Women's Medical University, Tokyo, ³Realinite Co., Ltd., Tokyo

- P09-11** **Rilzabrutinib reduces biomarkers related to itch and disease severity in chronic spontaneous urticaria and atopic dermatitis**
 ○ Kenji Yahata¹, Marcus Maurer^{2,3}, Jörg Scheffel^{2,3}, Leon Kircik⁴, Jessica Gereige⁵, Vinh Truong⁶, Vincent Mikol⁷
¹Sanofi, Tokyo, ²Institute of Allergology, Charité - Universitätsmedizin Berlin, Berlin, ³Fraunhofer Institute for Translational Medicine and Pharmacology ITMP, Immunology and Allergology, Berlin, ⁴Icahn School of Medicine at Mount Sinai, New York, ⁵Sanofi, Cambridge, ⁶Ivodata Life Sciences (contracted by Sanofi), Paris, ⁷Sanofi, Paris
- P09-12** **Usefulness of skin sampling using microneedle patch in atopic dermatitis study: Comparison of RNA analysis results with skin biopsy**
 ○ Seo Hyeong Kim¹, Ji Hye Kim¹, Wanjin Kim², Chang Ook Park², Do Hyeon Jeong³, Kwang Hoon Lee¹
¹CUTIS Biomedical Research Center Ltd., Seoul, ²Department of Dermatology & Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, ³RAPHAS Ltd., Seoul
- P09-13** **Comparison between Local Anesthetic Minimal-Invasive Liposuction (LAMS) using normal saline and half saline**
[O05-18]
 ○ Kyungho Paik¹, Nam Chul Kim², Jeong Eun Kim², Jinmook Jeong², Chang-Hun Huh¹
¹Seoul National University Bundang Hospital, Seongnam, ²365mc Hospital Network, Seoul
- P09-14** **In vitro evidence demonstrating the nondepleting mechanism of action of amltelimab, an OX40 Ligand monoclonal antibody**
 ○ Hiroyuki Fujita¹, James G. Krueger², Brian S. Kim³, Stephan Weidinger¹, Yoko Kataoka⁵, Mark Peakman⁶, John T. O'Malley⁶, Karl Yen⁷, Cheng-Che Li⁶, Cassie Van Krinks⁶, Janina Nahler⁶
¹Sanofi, Tokyo, ²Laboratory for Investigative Dermatology, The Rockefeller University, New York, ³Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York, ⁴Department of Dermatology and Allergy, University Hospital Schleswig-Holstein, Kiel, ⁵Osaka Habikino Medical Center, Habikino, ⁶Sanofi, Cambridge, ⁷Sanofi, Rotkreuz
- P09-15** **The in-vivo exfoliation and 3h anti-acne efficacy of a clearing gel containing 2% salicylic acid**
[O05-19]
 ○ Shuyang Yang², Liwei Wang¹, Chao Yuan¹, Rachel Zhao², Yan Zhong², Lucas Kruger³, Kristine Schmalenberg³
¹Department of Skin and Cosmetic Research, Shanghai Skin Disease Hospital, School of Medicine, Tongji University, Shanghai, ²APAC Innovation Center, the Estée Lauder Companies, Shanghai, ³Global Clinical and Consumer Sciences, The Estée Lauder Companies, NY
- P09-16** **Increased IL-31 Expression in Eosinophilic Pustular Folliculitis and Its Possible Role in Disease Pathogenesis**
 ○ Saeko Nakajima¹, Satoru Yonekura¹, Eiko Toichi², Yu Sawada³, Kenji Kabashima¹
¹Kyoto University, Kyoto, ²NHO Kyoto Medical Center, Kyoto, ³University of Occupational and Environmental Health, Kitakyushu
- P09-17** **Deep Venous Thrombosis Risk in Elderly Patients with Lower Leg Cellulitis**
[O05-20]
 ○ 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** **Anti-acne efficacy of a botanic gel containing 1% salicylic acid: double-blinded, randomized controlled 3-day study**
[O05-21]
 ○ Chao Yuan¹, Liwei Wang¹, Yunyun Zheng², Xiaomin Zhao², Yan Zhong², Lucas Kruger³, Kristine Schmalenberg³, Hao Ouyang³
¹Department of Skin and Cosmetic Research, Shanghai Skin Disease Hospital, School of Medicine, Tongji University, Shanghai, ²APAC Innovation Center, the Estée Lauder Companies, Shanghai, ³Global Clinical and Consumer Sciences, The Estée Lauder Companies, NY
- 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** **A 3-Step product Regimen Efficacy on Acne Vulgaris for both Female and Male**
[O05-22]
 ○ Liwei Wang¹, Chao Yuan¹, Shuyang Yang², Xiaomin Zhao², Yan Zhong², Lucas Kruger³, Kristine Schmalenberg³
¹Shanghai Skin Disease Hospital, Shanghai, ²APAC Innovation Center, the Estée Lauder Companies, Shanghai, ³Global Clinical and Consumer Sciences, The Estée Lauder Companies, NY

Category 10 (P10): Pharmacology and Drug Development

- P10-01** **Breakthrough drug in Stevens-Johnson syndrome/toxic epidermal necrolysis: Drug discovery to prevent cell death via formyl peptide receptor-1**
[II-1]
 ○ Haruna Kimura¹, Akito Hasegawa¹, Tomoki Nishiguchi^{1,2}, Hong Ha Nguyen¹, Masatoshi Eguchi¹, Takeaki Ozawa², Riichiro Abe¹
¹Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, ²Department of Chemistry, School of Science, The University of Tokyo, Tokyo

- P10-02 [C08-06] Role of MrgprA3-expressing primary sensory neurons in itch responses in atopic dermatitis model mice**
○ Masanori Fujii^{1,2}, Kyoko Fujii², Ryosuke Miyagawa², Taisei Enomoto², Takato Ohtsuka², Yuma Yasui²
¹Department of Analytical Pharmacology, Faculty of Pharmacy, Meijo University, Aichi, ²Laboratory 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 Saito¹, Roberta Lotti^{2,3}, Haruna Kimura¹, Akito Hasegawa¹, Brydon Bennett², Antonino Amato², Carlo Pincelli², Riichiro Abe¹
¹Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, ²PinCell s.r.l., Milano, ³DermoLab, University of Modena and Reggio Emilia, Modena
- P10-04 [C10-02] CDK inhibitors disrupt mRNA processing and synergize with Bcl-xL inhibitors in Merkel cell carcinoma**
○ Khalid A Garman¹, Tara Gelb¹, Dimitrios Anastasakis², Madhu Lal Nag³, Matthew D Hall³, Markus Hafner², Isaac Brownell¹
¹Dermatology Branch, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Bethesda, Maryland, ²RNA Molecular Biology Laboratory, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Bethesda, ³National Center for Advancing Translational Sciences, National Institutes of Health, Bethesda
- 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 Kawamura², Masaki Takemura², Kazuhiko Yamamura^{1,2}, Takamichi Ito², Makiko Kido-Nakahara², Takeshi Nakahara^{1,2}
¹Research and Clinical Center for Yusho and Dioxin, Kyushu University Hospital, Fukuoka, ²Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka
- P10-07 [O05-23] Cytoprotection mechanisms of keratinocyte cytoprotectants against sorafenib toxicity**
○ Yayoi Kamata¹, Rui Kato², Mitsutoshi Tominaga¹, Sumika Toyama¹, Eriko Komiya¹, Jun Utsumi¹, Takahide Kaneko², Yasushi Suga², Kenji Takamori^{1,2}
¹Juntendo Itch Research Center (IIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Urayasu, ²Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu
- 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 Kume¹, Rei Watanabe², Manabu Fujimoto¹, ○ Eiji Kiyohara¹
¹Department of Dermatology, Course of Integrated Medicine, Graduate School of Medicine, Osaka University, Osaka, ²Department 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 Ichiki¹, Chiemi Saigo^{2,3,4}, Yuki Hanamatsu², Hiroaki Iwata¹, Tamotsu Takeuchi^{2,4}
¹Department of Dermatology, Gifu University Graduate School of Medicine, Gifu, ²Department of Pathology and Translational Research, Gifu University Graduate School of Medicine, Gifu, ³The United Graduate School of Drug Discovery and Medical Information Sciences, Gifu University, Gifu, ⁴Center for One Medicine Innovative Translational Research; COMIT, Gifu University, Gifu
- P10-11 [O03-01] Low-temperature plasma-activated Ringer's lactate solution induces cell death on malignant melanoma cells**
○ Akira Miyazaki¹, Tomoki Taki¹, Kae Nakamura², Hiromasa Tanaka², Masaru Hori², Katsumi Ebisawa³, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University, Nagoya, ²Center for Low-Temperature Plasma Sciences, Nagoya University, Nagoya, ³Department of Plastic and Reconstructive Surgery, Nagoya University, Nagoya
- P10-12 [O03-02] An extract of *Arctium lappa* L. may mitigate psoriatic inflammation by targeting EGFR**
○ Mengyao Yang^{1,2}, Ge Peng¹, Quan Sun¹, Wanchen Zhao¹, Alafate Abudouwanli¹, Arisa Ikeda³, Shan Wang⁴, Hideoki Ogawa¹, Ko Okumura¹, François Niyonsaba^{1,5}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Dermatology, The First Hospital of China Medical University, Shenyang, ³Department of Nephrology, Juntendo University Graduate School of Medicine, Tokyo, ⁴Department of Dermatology, Beijing Children's Hospital, Capital Medical University, National Center for Children's Health, Beijing, ⁵Faculty of International Liberal Arts, Juntendo University, Tokyo
- P10-13 Dictamnine and fraxinellone from *Cortex Dictamni* alleviates atopic dermatitis by inhibiting the activation of keratinocytes and basophils**
○ Jia-You Fang¹, Shih-Chun Yang², Shih-Hsuan Wei¹
¹Chang Gung University, Taoyuan, ²Soochow 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 Chuang¹
¹Department of Dermatology, Taipei Medical University Hospital, Taipei, ²Department of Dermatology, School of Medicine, College of Medicine, Taipei Medical University, Taipei, ³Department of Pharmacology, College of Medicine, National Taiwan University, Taipei
- 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 Peng¹, Mengyao Yang^{1,3}, Alafate Abudouwanli¹, Quan Sun¹, Wanchen Zhao¹, Arisa Ikeda^{1,4}, Hideoki Ogawa¹, Ko Okumura¹, François Niyonsaba^{1,5}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²The Department of Dermatology, Beijing Children's Hospital, Capital Medical University, National Center for Children's Health, Beijing, ³Department of Dermatology, The First Hospital of China Medical University, Shenyang, ⁴Department of Nephrology, Juntendo University Graduate School of Medicine, Tokyo, ⁵Faculty of International Liberal Arts, Juntendo University, Tokyo
- 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 Lo¹, Meng-Fang Huang², Chi-Feng Hung²
¹Department of Dermatology, Fu Jen Catholic University Hospital, Fu Jen Catholic University, New Taipei City, ²MS 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 Jhong¹, Jia-You Fang^{1,2,3,4}
¹Graduate Institute of Biomedical Sciences, Chang Gung University, Taoyuan, ²Research Center for Food and Cosmetic Safety and Research Center for Chinese Herbal Medicine, Chang Gung University of Science and Technology, Taoyuan, ³Department of Anesthesiology, Chang Gung Memorial Hospital, Taoyuan, ⁴Pharmaceutics Laboratory, Graduate Institute of Natural Products, Chang Gung University, Taoyuan

Category 11 (P11): Photobiology

- P11-01 [C11-02] Skin Aging through the Regulation of NRIP1 and PRDM1 Associated with DNA Methylation**
 ○ Yidan Cui¹, Ji Hwan Moon², Hye Sun Shin³, Min-Kyoung Kim¹, Dong Hun Lee¹
¹Department of Dermatology, Seoul National University College of Medicine, Seoul, ²Samsung Genome Institute, Samsung Medical Center, Seoul, ³AMOREPACIFIC 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 Shime¹, Mizuyu Odanaka¹, Masaki Imai², Akimichi Morita³, Sayuri Yamazaki¹
¹Department of Immunology, Nagoya City University Graduate School of Medical Sciences, Nagoya, ²Department of Medical Technology and Sciences, Faculty of Health Sciences, Kyoto Tachibana University, Kyoto, ³Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya
- 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 Watanabe¹, Takamichi Ito³, Takeshi Nakahara³, Manabu Fujimoto¹, Katsumasa Fujita^{2,4}, Atsushi Tanemura¹
¹Department of Dermatology, Osaka University, Suita, ²Department of Applied Physics, Osaka University, Suita, ³Department of Dermatology, Kyushu University, Fukuoka, ⁴Institute for Open and Transdisciplinary Research Initiatives, Osaka University, Suita
- 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 Aoyama¹, Shusuke Kawashima¹, Yuka Saeki¹, Yu Kawahara¹, Takamitsu Matsuzawa¹, Noriko Saito¹, Ayako Oikawa¹, Masahito Kawazu², Yosuke Togashi³, Yasuhiro Nakamura⁴, Tatsuyoshi Kawamura⁵, Yukiko Kuniwa⁶, Osamu Yamasaki⁷, Satoshi Fukushima⁸, Takashi Inozume¹
¹Department of Dermatology, Chiba University Graduate School of Medicine, Chiba, ²Division of Cell Therapy, Chiba Cancer Center Research Institute, Chiba, ³Department of Tumor Microenvironment, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, ⁴Department of Skin Oncology/Dermatology, Saitama Medical University International Medical Center, Saitama, ⁵Department of Dermatology, University of Yamanashi, Yamanashi, ⁶Department of Dermatology, Shinshu University, Matsumoto, ⁷Department of Dermatology, Shimane University Faculty of Medicine, Izumo, ⁸Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto
- 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 Umemura², Chihiro Hayashi², Akane Nagasako², Yoko Ino³, Yayoi Kimura³, Yukie Yamaguchi², Yoshihiro Ishikawa¹
¹Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, Yokohama, ²Cardiovascular Research Institute (CVRI), Yokohama City University Graduate School of Medicine, Yokohama, ³Advanced Medical Research Center, Yokohama City University, Yokohama
- P12-03 [C06-01] CXCL13 and CCL21 induce tertiary lymphoid structures and enhance the efficacy of immune checkpoint inhibitors in malignant melanoma**
○ Maki Yoshimitsu¹, Motoki Nakamura¹, Shinji Kano¹, Tetsuya Magara¹, Hiroshi Kato¹, Aiko Sakai², Masaya Sugiyama², Masashi Mizokami³, Akimichi Morita¹
¹Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, ²Department of Viral Pathogenesis and Controls, National Center for Global Health and Medicine, Ichikawa, ³Genome Medical Sciences Project, National Center for Global Health and Medicine, Ichikawa
- 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 Shido¹, Kaname Kojima³, Ikuko N. Motoike³, Kengo Kinoshita^{3,4,5,6}, Yoshihide Asano¹
¹Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, ²Aloop Clinic & Lab, Tokyo, ³Department of Integrative Genomics, Tohoku Medical Megabank Organization, Tohoku University, Sendai, ⁴Graduate School of Information Sciences, Tohoku University, Sendai, ⁵Advanced Research Center for Innovations in Next-Generation Medicine, Tohoku University, Sendai, ⁶Institute of Development, Aging and Cancer, Tohoku University, Sendai
- P12-07 [C06-04] Endothelial progenitors: Unlocking Tumor Vessel Normalization to Overcome Therapeutic Challenges in Melanoma**
○ Laura Sormani¹, Ghazaleh Hashemi¹, Haiming Li¹, Chenhao Zhou¹, Kwong Ching Li¹, Siu Hang Chan¹, Samuel Tan¹, Quan Nguyen², Edwige Roy¹, Kiarash Khosrotehrani¹
¹The University of Queensland, Frazer Institute, Brisbane, ²The 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**
[O03-07] **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 Ichigozaki¹, Toshihiro Kimura¹, Haruka Kuriyama¹, Hisashi Kanemaru¹, Azusa Miyashita¹, Rong Zhang², Yasushi Uemura², Satoshi Fukushima¹
¹Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, ²Division of Cancer Immunotherapy, Exploratory Oncology Research & Clinical Trial Center, National Cancer Center (NCC), Chiba
- P12-12**
[O03-12] **The MITF-Rho-ROCK-ECM axis regulates MAPKi effect in three-dimensional melanoma spheroids**
○ Satoru Sugihara¹, Kota Tachibana¹, Jordan Kumar¹, Gency Gunasingh¹, Glen M Boyle², Nikolas K. Haass¹
¹Frazer Institute, the University of Queensland, Brisbane, ²QIMR Berghofer Medical Research 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. Stehbins, ○ 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 Okamura¹, Yosuke Arai¹, Junnosuke Kawaguchi¹, Shinji Tsukada^{1,2}, Yuko Abe¹, Yutaka Hozumi¹, Tamio Suzuki¹
¹Department of Dermatology, Faculty of Medicine, Yamagata University, Yamagata, ²Maruho Co., Ltd., Osaka
- P12-15**
[O03-15] **Precision diagnostics for early melanoma detection using spatial biology and AI-guided image analysis**
○ Yung-Ching Kao¹, Andrew Causer², Chenhao Zhou¹, Xiao Tan², Darren Smit¹, Katie J. Lee¹, Blake O'Brien³, Angus Collins³, Kiarash Khosrotehrani^{1,4}, H. Peter Soyer^{1,4}, Quan Nguyen^{2,5}, Mitchell S. Stark¹
¹Frazer Institute, The University of Queensland, Dermatology Research Centre, Brisbane, ²QIMR Medical Research Institute, Brisbane, ³Sullivan Nicolaides Pathology, Brisbane, ⁴Department of Dermatology, Princess Alexandra Hospital, Brisbane, ⁵Institute for Molecular Bioscience, the University of Queensland, Brisbane
- 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 Li¹, Sanjay Lietzau^{1,2}, Jenny Chung^{1,3}, Akinori Kawakami¹, Kenji Kabashima¹
¹The Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Hannover Medical School, Hannover, ³CUNY School of Medicine, New York
- P12-18**
[O03-18] **Investigation of the effect of TRPV1 inhibitor on skin damage caused by heat**
○ Yu Gabe¹, Keigo Kawabata¹, Miyuki Sudo², Keigo Kajiwara², Shingo Tooi², Yoshito Takahashi¹
¹Biological Science Research, Kao Corporation, Odawara, ²Skin 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 Li¹, Jeng-Jer Shieh^{1,2,3}
¹Institute of Biomedical Sciences, National Chung Hsing University, Taichung, ²Department of Education and Research, Taichung Veterans General Hospital, Taichung, ³Rong Hsing Research Center for Translational Medicine, National Chung Hsing University, Taichung
- P12-20**
Investigation of IRE1 α 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 Wang¹, Ting-Ting Chen², Cheng-Lin Wu³, Wei-Ting Liu⁴, Yi-Hsuan Huang⁵, Tak-Wah Wong^{2,4,6}
¹Institute of Basic Medical Sciences, College of Medicine, National Cheng Kung University, Tainan, ²Department of Biochemistry and Molecular Biology, College of Medicine, National Cheng Kung University, Tainan, ³Department of Pathology, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, ⁴Department of Dermatology, National Cheng Kung University Hospital, Tainan, ⁵Department of Oncology, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, ⁶Center of Applied Nanomedicine, National Cheng Kung University, Tainan
- 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 Deng¹, Xi Yang¹, Kelly Dong², Jian (Richard) Cao¹, Nadine Pernodet²
¹Estée Lauder Companies Research and Development, Shanghai, ²Research 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 Koike¹, Takako Shibata¹, Kiyotaka Hasegawa¹, Tamio Suzuki²
¹Shiseido Co., Ltd., MIRAI Technology Institute, Yokohama, ²Department of Dermatology, Yamagata University Faculty of Medicine, Yamagata
- P12-26 [O03-24]** **A potent reagent against UV-induced carbonylation and skin yellowness**
○ Xi Yang¹, Jian (Richard) Cao¹, Nadine Pernodet²
¹Estée Lauder Companies Research and Development, Shanghai, ²Research and Development, The Estée Lauder Companies, NY
- P12-27** **Diphenylcyclopropanone induces ROS-mediated Apoptosis in Melanoma Cells.**
○ Meng-Han Shen^{1,2}, Jeng-Jer Shieh^{2,3}, Zheng-Yi Li², Mao-Chia Chang²
¹Department of Dermatology, Wan Fang Hospital, Taipei Medical University, Taipei, ²Institute of Biomedical Sciences, National Chung Hsing University, Taichung, ³Department of Education and Research, Taichung Veterans General Hospital, Taichung
- P12-28** **Therapeutic implications of circadian clock-enhancing small molecule on aging pigmentation in UVB-induced senescence model**
○ Jiyun Lim^{1,2}, Jung Min Park¹, Hyun Mo Lee¹, Yoon Jae Kim¹, Jun Hyuk Cho¹, Soo Hong Seo¹, Hyo Hyun Ahn¹, Im Joo Rhyu², Jong-Wha Jung³, Gi Hoon Son⁴, Dai Hyun Kim^{1,2}
¹Department of Dermatology, Korea University College of Medicine, Seoul, ²Department of Anatomy, Korea University College of Medicine, Seoul, ³Research Institute of Pharmaceutical Sciences, College of Pharmacy, Kyungpook National University, Daegu, ⁴Department of Biomedical Science, Korea University College of Medicine, Seoul
- P12-29 [O03-25]** **Anti-glycation and anti-skin sallowness effects of Siegesbeckia Orientalis extract on skin models**
○ Jian (Richard) Cao¹, Xi Yang¹, Binwei Deng¹, Nadine Pernodet²
¹Estée Lauder Companies R&D, Shanghai, ²R&D, The Estée Lauder Companies, NY
- P12-30** **Anti-glycation and tyrosinase inhibition effects of UP302**
○ Nora Ruth¹, Jaimie Jerome¹, Neelam Muizzuddin¹, Ewa Markiewicz², Olusola Idowu², Tom Mammone^{1,3}
¹Estée Lauder Companies Research and Development, New York, ²HexisLab Ltd, Newcastle upon Tyne, ³Clinique Research Laboratories, New York
- P12-31 [O06-01]** **Unravelling the effects of protein glycation on skin sallowness: an experimental and simulation approach**
○ Zhen Li¹, Yuping Su², Xi Yang¹, Yu Lin³, Senping Fan², Huanjun Zhou¹, Hao Long², Jian (Richard) Cao¹, Tom Mammone³, Nadine Pernodet²
¹The Estée Lauder Companies Innovation (China), Shanghai, ²School of Electronic Science and Engineering (National Model Microelectronics College) Xiamen University, Xiamen, ³R&D, The Estée Lauder Companies, NY

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 Kobayashi¹, Yoshikazu Hirose¹, Yuya Ouchi², Tomomi Kitayama², Eiichi Takaki², Ryoma Yamamoto², Sho Yamazaki², Machika Kawamura², Kotaro Saga¹, Takashi Shimbo¹, Manabu Fujimoto³, Katsuto Tamai¹
¹Department of Stem Cell Therapy Science, Osaka University Graduate School of Medicine, Suita-city, ²StemRIM Institute of Regeneration-Inducing Medicine, Suita-city, ³Department of Dermatology, Osaka University Graduate School of Medicine, Suita
- 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 Kande², Ayano Narumoto², Dai Ihara², Noriki Fujimoto¹, Hayato Naka-Kaneda²
¹Department of Dermatology, Shiga University of Medical Science, Otsu, ²Department 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 Hayakawa¹, Ryo Takahashi², Masahiro Fukuyama¹, Aki Tsukashima¹, Momoko Kimishima¹, Yoshimi Yamazaki¹, Manabu Ohyama^{1,2}
¹Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo, ²Flow Cytometry Core Facility, Kyorin University Graduate School of Medicine, Tokyo
- P13-05 Cutaneous TRPV1 innervations trigger a macrophage and fibroblast containing pathway to activate hair growth**
 ○ Tamar L. Ben-Shaan^{1,2,3}, Konrad Knopper^{1,2}, Lihui Duan^{1,2}, Ruiqi Liu³, Hanna Taglinao^{1,2}, Ying Xu^{1,2}, Jinping An^{1,2}, Maksim V. Plikus³, Jason G. Cyster^{1,2}
¹Department of Microbiology and Immunology, University of California, San Francisco, San Francisco, ²Howard Hughes Medical Institute, San Francisco, ³Department of Developmental and Cell Biology, University of California, Irvine
- 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 Tai¹, Chih-Lung Chen², Wei-Hung Wang², Sabrina Mai-Yi Fan³, Sung-Jan Lin⁴
¹Genome and Systems Biology Degree Program, Academia Sinica and National Taiwan University, Taipei, ²Department of Biomedical Engineering, National Taiwan University, Taipei, ³Department of Medical Research, National Taiwan University Hospital, Taipei, ⁴Department of Dermatology, National Taiwan University Hospital and College of Medicine, Taipei
- P13-10 [C11-06] Elucidating the role of anti-aging matrix Fibulin 7 in skin inflammatory disease psoriasis**
 ○ Erna Raja¹, Jun Tsunozumi², Karolina Edlund³, Aiko Sada⁴, Hiromi Yanagisawa¹
¹Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, Tsukuba, ²Department of Pharmacy, Kyushu University of Health and Welfare, Miyazaki, ³Leibniz Research Centre for Working Environment and Human Factors, University of Dortmund, Dortmund, ⁴Medical Institute of Bioregulation, Kyushu University, Fukuoka
- P13-11 [C11-07] Multiple fetal fibroblast subpopulations differently contribute to skin architecture development**
 ○ Noriko Morioka^{1,2}, Clarisse Ganier², Fiona M Watt^{2,3}
¹Frontier Research Center, POLA Chemical Industries, Inc., Yokohama, ²Centre for Gene Therapy and Regenerative Medicine, King's College London, London, ³Directors' Unit, EMBL, Heidelberg
- P13-12 [O06-02] Chemical Modulation of mitochondria-ER contacts: Effects in Melanogenesis**
 ○ Federica Dal Bello¹, Natasha Kaar¹, Sara Schiavon¹, Emad Norouzi Esfahani¹, Tomas Knedlik¹, Alessio Gianelle², Florine Grudet¹, Paula Rebelo¹, Giovanni Marzaro³, Adriana Chilin³, Marta Giacomello^{1,4}
¹Department of Biology, University of Padova, Padova, ²Sezione INFN di Padova, Padova, ³Department of Pharmaceutical and Pharmacological Sciences, University of Padova, Padova, ⁴Department of Biomedical Sciences, University of Padova, Padova
- P13-13 [O06-03] Histological characterization and transcriptomic analysis of acquired idiopathic generalized anhidrosis post corticosteroid pulse therapy**
 ○ Reiko Kageyama¹, Keiko Sakamoto^{1,2}, Satoshi Nakamizo³, Kenji Kabashima³, Keisuke Nagao², Tetsuya Honda¹
¹Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, ²Cutaneous Leukocyte Biology Section, Dermatology Branch, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Bethesda, ³Department of Dermatology, Kyoto University, Kyoto
- 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-Ise¹, Taiichiro Ida³, Masayuki Amagai², Manabu Ohyama¹
¹Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo, ²Department of Dermatology, Keio University School of Medicine, Tokyo, ³Advantest Corporation, Saitama

- P13-16**
[O06-06] **Possible role of spinal semaphorin 3A in itch and pain perceptions**
○ Motoki Morita¹, Mitsutoshi Tominaga¹, Yayoi Kamata¹, Kenji Takamori^{1,2}
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, ²Department of Dermatology, Juntendo University Urayasu Hospital, Chiba
- 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 Honda¹, Mitsutoshi Tominaga¹, Kenji Takamori^{1,2}
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Urayasu, ²Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu
- P13-19**
[O06-09] **Mechanism of histamine production and secretion by sweat gland cells**
○ Hayato Mizuno¹, Shunsuke Takahagi^{1,2}, Kazue Uchida¹, Kaori Ishii¹, Akio Tanaka¹
¹Department of Dermatology, Institute of Biomedical & Health Sciences, Hiroshima University, Hiroshima, ²Division 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 Mi¹, Binwei Deng¹, Jian (Richard) Cao¹, Nadine Pernodet²
¹Research and Development, The Estée Lauder Companies, Shanghai, ²Research and Development, The Estée Lauder Companies, NY
- P13-21**
[O06-11] **Uncover the critical environmental risk factors to pore visibility with an AI approach**
○ Hang Xie¹, Huanjun Zhou¹, Jin Yan Song², Zitao Ma³, Tianhao Li³, Xiao Long³, Danning Zeng¹, Xiaodi Wang¹, Su Shi⁴, Yulan Qu¹, Yajun Luo¹, Haidong Kan⁴, Jian (Richard) Cao¹, Nadine Pernodet⁵
¹Estée Lauder Companies Innovation R&D (China) Co., Ltd, Shanghai, ²Hangzhou C2H4 Internet Technology Co., Ltd., Hangzhou, ³Department of Plastic and Reconstructive Surgery, Peking Union Medical College Hospital, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, ⁴School 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, ⁵R&D, The Estée Lauder Companies, Melville, NY
- P13-22**
[O06-12] **Role of Cutaneous Neuroinflammation and Potential Dorsal Root Ganglion in Rosacea**
Dawoon Han¹, ○ Jihee Kim²
¹Department of Dermatology, Yonsei University college of Medicine, Seoul, ²Department of Dermatology, Yonsei University college of Medicine, Yongin
- P13-23**
Functional expression of TRP channels in human eccrine sweat glands
○ Qianwen Luo¹, Hiroko Kato¹, Takeshi Hara^{1,2}, Atsushi Tanemura³, Yukinobu Nakagawa³, Hiroyuki Murota⁴, Makoto Tominaga^{5,6,7,8}, Kiyotoshi Sekiguchi⁹, Fumitaka Fujita^{1,2}
¹Graduate School of Pharmaceutical Sciences, Osaka University, Suita, ²Mandom Corporation, Osaka, ³Graduate School of Medicine, Osaka University, Suita, ⁴Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, ⁵Exploratory Research Center on Life and Living Systems National Institutes of Natural Sciences, Okazaki, ⁶National Institute for Physiological Sciences, National Institutes of Natural Sciences, Okazaki, ⁷Department of Physiological Sciences, SOKENDAI, (The Graduate University for Advanced Studies), Okazaki, ⁸Nagoya Advanced Research and Development Center, Nagoya City University, Nagoya, ⁹Division of Matrixome Research and Application, Institute for Protein Research, Osaka University, Suita
- P13-24**
[O06-13] **Age-dependent effects of psychological stress on itch sensitivity in mice: improvement by serotonin**
○ Qiaofeng Zhao¹, Mitsutoshi Tominaga¹, Sumika Toyama¹, Kenji Takamori^{1,2}
¹Juntendo Itch Research Center, Institute for Environmental and Gender-Specific Medicine, Juntendo University, Tokyo, ²Department 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 Lee², Shyh-Jou Shieh^{2,3}, Chao-Chun Yang^{1,2}
¹Department of Dermatology, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, ²International Center for Wound Repair & Regeneration, National Cheng Kung University, Tainan, ³Division 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 Koma¹, Yuko Tsuruma¹, Kensuke Tamura¹, Jongho Park², Tatsuki Iinuma³, Madoka Kage³, Shigenori Aoki¹, Shinya Takyu¹, Beomjoon Kim², Yutaka Takagi³
¹LINTEC Corporation, Tokyo, ²Institute of Industrial Science, The University of Tokyo, Tokyo, ³Pharmaceutical Sciences, Josai University, Saitama
- P13-33 Expression and functional analysis of endomorphins in peripheral tissues**
 ○ Eriko Komiya^{1,2}, Kotaro Honda¹, Sumika Toyama¹, Yayoi Kamata¹, Makino Watanabe², Akira Minami², Mitsutoshi Tominaga¹, Kenji Takamori^{1,3}
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender Specific Medicine, Graduate School of Medicine, Juntendo University, Urayasu, ²Department of Functional Morphology, Faculty of Pharmacy, Juntendo University, Urayasu, ³Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu
- P13-34 Effect of Afzelin on inflammation and lipogenesis in Particulate matter-stimulated C. acnes-treated SZ95 sebocytes**
 ○ Ji Yeon Hong¹, Yonghee Choi¹, Yoon Jin Roh¹, Joon Seok¹, Mi-Kyung Lee², Kui Young Park¹
¹Department of Dermatology, Chung-Ang University Hospital, Chung-Ang University College of Medicine, Seoul, ²Department 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. Perleman 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 skin graft**
 ○ Yoshikazu Hirose¹, Asaka Miura¹, Yuki Kobayashi², Yuya Ouchi², Tomomi Kitayama², Takashi Shimbo¹, Akio Tanaka³, Manabu Fujimoto⁴, Katsuto Tamai^{1,2}
¹Department of Stem Cell Therapy Science, Graduate School of Medicine, Osaka University, Osaka, ²StemRIM Inc., Osaka, ³Department of Dermatology, Graduate School of Biomedical and Health Sciences, Hiroshima University, Hiroshima, ⁴Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka
- P14-03 [C04-02] Collective cell migration dynamics of stratified epithelia under spatial confinement**
 ○ Takuma Nohara¹, Ken Natsuga¹, Yosuke Mai¹, Junichi Kumamoto², Masaharu Nagayama², Tsukasa Oikawa³, Hideyuki Ujiie¹
¹Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, ²Research Institute for Electronic Science, Hokkaido University, Sapporo, ³Department 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 Taneda¹, Xiuju Dai¹, Kenji Watanabe², Teruko Tsuda¹, Hideki Mori¹, Ken Shiraishi¹, Yoichi Mizukami², Yasuhiro Fujisawa¹, Jun Muto¹
¹Department of Dermatology, Ehime University Graduate School of Medicine, Toon, ²Institute 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
 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 Endo¹, Yuki Ichimura^{1,2}, Takashi Matsui¹, Risa Konishi^{1,3}, Tadatsune Iida¹, Takeshi Namiki¹, Naoko Okiyama¹
¹Department of Dermatology, Graduate School of Medical and Dental Sciences, Institute of Science Tokyo, Tokyo, ²Division of Rheumatology, Department of Internal Medicine, Tokyo Women's Medical University, Tokyo, ³Department 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 Zhangwei¹, Yoshie Umehara¹, Ko Okumura¹, Hideoki Ogawa¹, François Niyonsaba^{1,2}
¹Atopy (Allergy) Research Center, Juntendo University School of Medicine, Tokyo, ²Faculty 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 Shimauchi¹, Tomoo Inubushi², Shinsuke Nakazawa¹, Etsuji Yoshikawa², Taisuke Ito¹, Yoshiki Tokura¹, Tetsuya Honda¹
¹Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, ²Central 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 Ham¹, Joohee Lee¹, Won Jai Lee^{2,3}, Jin Woong Jung¹, Ju Hee Lee^{1,2}, Young In Lee^{1,2}
¹Department of Dermatology & Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, ²Scar Laser and Plastic Surgery Center, Yonsei Cancer Hospital, Seoul, ³Department 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 Wang¹, Chang-Cheng Chang²
¹Department of dermatology, MacKay Memorial Hospital, Taipei, ²Division 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 Chino¹, Miku Imai¹, Hiroshi Kasamatsu¹, Takumi Hasegawa¹, Kentaro Nishimura¹, Saori Uchida¹, Shinichiro Niwa², Noritaka Oyama¹, Minoru Hasegawa¹
¹The Department of Dermatology, University of Fukui, Fukui, ²Link Genomics, Inc., Tokyo
- P14-13 Observation of fine three-dimensional structure of cartilage**
○ Hideki Mori¹, Ryosuke Kawakami², Teruko Tsuda³, Kazuki Yatsuzuka³, Satoshi Yoshida³, Jun Muto³, Asami Tozawa¹, Ken Shiraishi³, Kenshi Imamura², Yasuhiro Fujisawa³
¹The Department of Dermatology, Division of Plastic and Reconstructive surgery, Ehime University Graduate School of Medicine, Toon, ²The Department of Molecular Medicine for Pathogenesis, Ehime University Graduate School of Medicine, Toon, ³The Department of Dermatology, Ehime University Graduate School of Medicine, Toon
- P14-14 A Complex of Three Marine Extracts Demonstrate "Retinol-like" Anti-Aging Properties without Acute Inflammatory Responses**
○ Jaime Emmetsberger^{1,2}, Annette Ortiz²
¹La Mer, Max Huber Research Labs, New York, ²Research & 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 Trivero¹, Krystle Corallo¹, Nadine Pernodet^{1,2}
¹Estée Lauder Inc., R&D, NY, ²SUNY, 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 Charoensuksira¹, Jitlada Meephansan¹, Raksanawan Vanichvongvan¹, Poorichaya Sompam², Pattarin Tangtanatakul Tangtanatakul^{3,4}, Poonkiat Suchonwanit⁵
¹Division of Dermatology, Chulabhorn International College of Medicine, Thammasat University, Pathum Thani, ²Center of Excellence in Systems Biology, Faculty of Medicine, Chulalongkorn University, Bangkok, ³Department of Transfusion Medicine and Clinical Microbiology, Faculty of Allied Health Sciences, Chulalongkorn University, Bangkok, ⁴Center of Excellence in Immunology and Immune-mediated diseases, Department of Microbiology, Chulalongkorn University, Bangkok, ⁵Division of Dermatology, Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok
- P15-02 [C10-07] Circulating tumor DNA detection during immunotherapy predicts progression in Merkel cell carcinoma**
 ○ Tomoko Akaike¹, Daniel S. Hippe², Song Y. Park¹, Paul Nghiem^{1,2}, Lisa C. Zaba³
¹Department of Dermatology, University of Washington School of Medicine, Seattle, ²Fred Hutch Cancer Center, Seattle, ³Department 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 Yang¹, Shaw Jenq Tsai³
¹Department of Dermatology, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, ²Institute of Basic Medical Sciences, College of Medicine, National Cheng Kung University, Tainan, ³National 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 Nakanishi¹, Shohei Iida¹, Masako Ichishi², Makoto Kondo¹, Mai Nishimura¹, Ayaka Ichikawa¹, Yoshiaki Matsushima¹, Yoichiro Iwakura³, Masatoshi Watanabe³, Keiichi Yamanaka¹
¹Department of Dermatology, Mie University Graduate School of Medicine, Tsu, ²Department of Oncologic Pathology, Mie University Graduate School of Medicine, Tsu, ³Center for Animal Disease Models, Research Institute for Biomedical Sciences, Tokyo
- 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 Charoensuksira¹, Punyaphat Sirithanabadeekul^{1,3}, Chutinan Chueachavalit⁴, Sunchai Payungporn⁴
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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 Morita¹, James G. Krueger², Chiharu Tateishi¹, Eisaku Ogawa⁴, Koji Masuda⁵, Yukie Yamaguchi⁶, Sandra Garcet², Hong Hur², Naomi Shishido², Mona Uchida-Yamada⁷, Yasumasa Kanaï⁷
¹Nagoya City University Graduate School of Medical Sciences, Nagooya, ²The Rockefeller University, New York, ³Osaka Metropolitan University Graduate School of Medicine, Osaka, ⁴Shinshu University School of Medicine, Matsumoto, ⁵Kyoto Prefectural University of Medicine, Kyoto, ⁶Yokohama City University School of Medicine, Yokohama, ⁷Medical Affairs, Kyowa Kirin Co., Ltd., Tokyo
- P15-09 [O06-21] A role of spinal cholecystokinin-2 receptor in mechanical allodynia**
 ○ Mitsutoshi Tominaga¹, Kotaro Honda¹, Tomohiro Tobita¹, Eriko Komiyama^{1,2}, Masafumi Yokota¹, Motoki Morita¹, Masaru Kurosawa¹, Sumika Toyama¹, Qiaofeng Zhao¹, Ying Zuo¹, Mao Hotta¹, Nanami Tanemoto¹, Miho Shiratori-Hayashi^{1,3}, Atsuko Kamo⁴, Kenji Takamori^{1,5}
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Urayasu, ²Department of Functional Morphology, Faculty of Pharmacy, Juntendo University, Urayasu, ³Department of Molecular and Systems Pharmacology, Faculty of Pharmacy, Juntendo University, Urayasu, ⁴Laboratory of Clinical Pathophysiology, Juntendo University Graduate School of Health Care and Nursing, Urayasu, ⁵Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu
- P15-10 [O06-22] Increased CXCL10 and CXCR3 expression in pain and itch cutaneous neurofibroma**
 ○ Trang Q. T. Pham¹, Hao J. Weng^{1,3,4,5}, Chung P. Liao^{1,2}
¹International Ph.D. Program in Cell Therapy and Regenerative Medicine, College of Medicine, Taipei Medical University, Taipei, ²Graduate Institute of Medical Sciences, College of Medicine, Taipei Medical University, Taipei, ³Graduate Institute of Clinical Medicine, College of Medicine, Taipei Medical University, Taipei, ⁴Department of Dermatology, Taipei Medical University-Shuang Ho Hospital, New Taipei, ⁵Department of Dermatology, School of Medicine, College of Medicine, Taipei Medical University, Taipei

- P15-11 [O06-23] EGF suppresses eczema in the NC/Tnd mouse model**
○ Ryo Muko¹, Helen Williams², Gurdeep Singh², Hiroshi Matsuda³, Joanne L Pennock², Peter D Arkwright², Akane Tanake^{1,3}
¹Institute of Global Innovation Research, Tokyo University of Agriculture & Technology, Tokyo, ²Lydia Becker Institute of Immunology and Inflammation, University of Manchester, Manchester, ³Laboratories 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-Lee¹, Akichika Ozeki¹, Christoph Preuss², Robert J. Benschop², Hitoe Torisu-Itakura¹, Takashi Matsuo¹, Jonathan T. Sims²
¹Eli Lilly Japan K.K., Kobe, ²Eli 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 Nam⁴, Yun Jung Huh⁵, Hyun Je Kim^{4,6,7}, Jeong Eun Kim^{5,8}
¹Department of Dermatology, Seoul National University Hospital, Seoul, ²Department of Dermatology, Seoul National University College of Medicine, Seoul, ³Institute of Human-Environmental Interface Biology, Medical Research Center, Seoul National University, Seoul, ⁴Department of Biomedical Sciences, Seoul National University Graduate School, Seoul, ⁵Department of Dermatology, Hanyang University College of Medicine, Hanyang University Hospital, Seoul, ⁶Department of Microbiology and Immunology, Seoul National University College of Medicine, Seoul, ⁷Genomic Medicine Institute, Medical Research Center, Seoul National University, Seoul, ⁸Hanyang 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 Kim¹, Hyun Mo Lee¹, Sungjae Yoo², Jung Min Park¹, Jiyun Lim^{1,3}, Yoon Jae Kim¹, Jun Hyuk Cho¹, Soo Hong Seo¹, Hyo Hyun Ahn¹, Sang Ihn Han²
¹Department of Dermatology, Korea University College of Medicine, Seoul, ²Biomaterials Research Center, Biomedical Research Division, Korea Institute of Science and Technology (KIST), Seoul, ³Department of Anatomy, Korea University College of Medicine, Seoul
- 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}
¹Department of Dermatology, Chung Shan Medical University Hospital, Taichung, ²School of Medicine, Chung Shan Medical University, Taichung, ³Department of Mechanical Engineering, National Chung Cheng University, Chia Yi, ⁴Department of Medical Research, Dalin Tzu Chi General Hospital, Chia Yi, ⁵Technology 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 Zhao³, Suyu Wang³, Parisi Michelle², Lisa Schmidt², Uma Santhanam^{1,2}
¹La Mer, Max Huber Research Labs, New York, ²Research & Development, The Estée Lauder Companies, NY, ³APAC 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-Yamamura¹, Sandra Garcet³, Dante Dahabreh⁴, Juana Gonzalez³, Shunsuke Miura⁵, Hong Beom Hur³, Xuan Li³, Yael Renert-Yuval³, Yeriel Estrada⁴, Tali Czarnowicki³, Takeshi Nakahara^{1,2}, James G. Krueger³, Emma Guttman-Yassky⁴
¹Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, ²Research and Clinical Center for Yusho and Dioxin, Kyushu University, Fukuoka, ³Laboratory of Investigative Dermatology, The Rockefeller University, New York, ⁴Department of Dermatology, Icahn School of Medicine at the Mount Sinai Medical Center, New York, ⁵Department of Dermatology, The University of Tokyo, Tokyo
- 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 Matsumura³, Hanako Koguchi-Yoshioka³, Miki Kume³, Manabu Fujimoto^{1,3}
¹Department of Medicine for Cutaneous Immunological Diseases, Osaka University, Suita, ²Department of Dermatology, Juntendo University, Tokyo, ³Department of Dermatology, Osaka University, Suita
- L-04** **Associations of Different Inflammatory Factors with Atherosclerosis Among Patients with Psoriasis Vulgaris**
[LO-02] ○ Nguyen Thi Kim Huong¹, Le Huu Doanh², Bui Long¹
¹Friendship Hospital, Hanoi, ²Hanoi Medical University, Hanoi
- L-05** **SERUM MRGPRX2 LEVELS IN CHRONIC SPONTANEOUS URTICARIA IN VIETNAMESE PATIENTS**
[LO-03] ○ Cuc Nguyen Thi Kim^{1,2}, Minh Vu Nguyet^{1,2}, Lan Pham Thi^{1,2}, My Le Huyen¹, Doanh Le Huu^{1,2}
¹National Hospital of Dermatology and Venereology, Hanoi, ²Ha Noi Medical University, Hanoi
- L-06** **“Black-Red Dot Sign” under Dermoscopy: Significance in Screening and Antifungal Efficacy Tracking in Subcutaneous Fungal Infection lesion**
[LO-04] ○ 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** **The skin-specific long non-coding RNA TEDAR regulates epidermal differentiation**
[LO-05] Kunal Das Mahapatra^{1,2}, Özge Arslan^{1,3}, Jonathan Elton^{1,2}, Evelyn Kelemen^{1,3}, Longlong Lou^{1,3}, Markus Kretz⁴, Enikő Sonkoly^{1,3},
 ○ Andor Pivarcsi^{1,2,3}
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- L-09** **Biofabrication of 3D shaped skin equivalents for mechanobiology and robotic applications**
[LO-06] ○ Minghao Nie, Michio Kawai, Yuto Matsushima, Haruka Oda, Shoji Takeuchi
 The University of Tokyo, Graduate School of Information Science and Technology, Tokyo
- L-10** **Proteasome inhibitors as potential anticancer agents for angiosarcoma cells**
[LO-07] ○ Che-Yuan Hsu^{1,2}, Teruki Yanagi^{1,2}, Kodai Miyamoto^{1,2}, Satoko Otsuguro³, Katsumi Maenaka^{3,4,5,6,7}, Hiroshi Nishihara⁸,
 Hideki Nakamura⁹, Kenzo Takahashi², Hideyuki Ujiie¹
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- L-11** **The Therapeutic potential of Artemisia Naphta on Seborrhoeic Dermatitis**
[LO-08] ○ Ziyang Qin^{1,2}, Huailong Chang^{1,2}, Kan Tao^{1,2}, Shengnan Tang^{1,2}
¹Shanghai Chicmax Cosmetic Co., Ltd., Global R&D Center, Shanghai, ²Shanghai KPC Biotechnology Co., Ltd., Shanghai
- L-12** **Characterizing intratumoral heterogeneity in cutaneous squamous cell carcinoma using multi-regional whole-exome sequencing**
 Yeun-Jun Chung¹, ○ Yoon-Seob Kim²
¹Department of Microbiology, College of Medicine, The Catholic University of Korea, Seoul, ²Department of Dermatology, Bucheon St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul
- L-13** **A Comprehensive Meta-analysis of the Association Between Lipid profile and Hidradenitis Suppurativa**
[LO-09] ○ Yan-Han Li¹, Shu-Han Chuang¹, Hui-Ju Yang^{2,3}
¹Division of General Practice, Department of Medical Education, Changhua Christian Hospital, Changhua, ²Department of Dermatology, Changhua Christian Hospital, Changhua, ³Department of Post-Baccalaureate Medicine, College of Medicine, National Chung Hsing University, Taichung City
- L-14** **Indonesian brown algae *Sargassum cristaefolium* lipid extract activity against bacterial skin infection**
[LO-10] ○ Anggit Sunarwidhi^{1,2}, Sri Widyastuti³, Kukul Waseso Jati Pangestu², Farreh Alan Maulana^{1,2}, Ervina Handayani^{1,2},
 Mila Mayanti Kabir¹, Eka S. Prasedya^{2,4}
¹Department of Pharmacy, Faculty of Medicine and Health Sciences, Universitas Mataram, Mataram, ²Bioscience and Biotechnology Research Centre, Universitas Mataram, Mataram, ³Faculty of Food Technology and Agroindustry, Universitas Mataram, Mataram, ⁴Department of Biology, Faculty of Mathematics and Natural Sciences, Universitas Mataram, Mataram

- L-15 [LO-11] Therapeutic Potential of Topical Cannabigerol (CBG) in the Treatment of Inflammation and Erythema in Rosacea**
○ Suji Kim¹, Eun Hee Yoo², Ji Hyun Lee^{1,2}
¹Department of Medical Sciences, Graduate School of The Catholic University of Korea, Seoul, ²Department of Dermatology, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul
- L-16 JAK/STAT signaling pathway plays a decisive role in intractable bullous pemphigoid**
○ Hsin-Yu Chung¹, Chuang-Wei Wang^{1,2,3,4,5}, Wen-Hung Chung^{1,2,3,4,5,6}
¹Department of Dermatology, Drug Hypersensitivity Clinical and Research Center, Chang Gung Memorial Hospital, Linkou, Taipei, and Keelung, ²Cancer Vaccine and Immune Cell Therapy Core Laboratory, Department of Medical Research, Chang Gung Memorial Hospital, Linkou, ³Chang Gung Immunology Consortium, Chang Gung Memorial Hospital and Chang Gung University, ⁴Department of Dermatology, Xiamen Chang Gung Hospital, Xiamen, ⁵Xiamen Chang Gung Allergology Consortium, Xiamen Chang Gung Hospital, Xiamen, ⁶College of Medicine, Chang Gung University, Taoyuan
- 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}
¹Department of Dermatology, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, ²Institute of Human-Environmental Interface Biology, Medical Research Center, Seoul National University, Seoul
- L-18 [LO-12] Microbiome-implanted *in vitro* 3D skin models to evaluate skin-microbiome interactions**
○ Hai Vin Kim¹, Young Su Jang¹, Dahye Seo¹, ARam Kim², Suji Son², Jae-Sang Ryu², Dong Hyun Kim², Jung U Shin²
¹Department of Biomedical Science, CHA University, Seongnam, ²Department of Dermatology, CHA Bundang Medical Center, CHA University School of Medicine, Seongnam
- L-19 [LO-13] Inhibitory Effects of Minocycline on Neutrophil Extracellular Trap Formation in Human Neutrophils and a Mouse Model of Hidradenitis Suppurativa**
○ DaHye Seo¹, JaeSang Ryu², YoungSu Jang¹, HaiVin Kim¹, HeeJung Lee², DongHyun Kim², Yunkyung Jang², JungU Shin²
¹Department of Biomedical Science, CHA University, Seongnam, ²Department of Dermatology, CHA Bundang Medical Center, CHA University School of Medicine, Seongnam
- 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
Department of Physiology, Daegu Catholic University School of Medicine, Daegu
- L-21 Topical delivery of antisense oligonucleotides into lesional skin of atopic dermatitis mouse model**
○ Zacharias A. Dwi Pramono¹, Dave Keng Boon Wee¹, Hong Liang Tey²
¹Institute of Molecular and Cell Biology, A*STAR, Singapore, ²National Skin Centre, Singapore
- L-22 Genotoxicity Assessment of m-Phenylenediamine using the *in vitro* Bacterial Reverse Mutation Test**
○ Dong Hyun Kim¹, Yong Hyun Chung³, Yong Taek Kwon³, Soo Jin Yoo¹, Jung Hun Lee¹, Ji Yeon Woo¹, Yeon Su Baek¹, Su Ho Lee³, Myeong Ju Shin³, Hwi Won Jo³, Min Jung Kim², Sun Kyung Kim¹
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- L-23 [LO-14] 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}
¹Department of Dermatology, Drug Hypersensitivity Clinical and Research Center, Chang Gung Memorial Hospital, Linkou, ²Cancer Vaccine and Immune Cell Therapy Core Laboratory, Department of Medical Research, Chang Gung Memorial Hospital, Linkou, ³Chang Gung Immunology Consortium, Chang Gung Memorial Hospital and Chang Gung University, Taouan
- 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 Parsad³, Thuong Nguyen Van^{1,2}, Phuong Hoang Thi², Son Nguyen Hong², Hien Do Thi Thu², Tan Nguyen Manh^{1,2}, Hien Le Thanh², Hien Tran Thi Thu¹, Doanh Le Huu^{1,2}
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