
December 2, 2022, Room A

Opening

8:20-8:30

Plenary Session I

8:30-10:00

Chairs: Kenji Kabashima, Daisuke Tsuruta, Ohsang Kwon

I-1 [P09-01] Decreased levels of ceramide and cholesterol in the stratum corneum may affect the development of infantile seborrheic dermatitis

○ Risa Fukuda¹, Ryo Tanaka¹, Naoko Mochimaru¹, Kyongsun Pak², Megumi Kiuchi³, Naoko Hirata⁴, Mari Mitsui⁵, Yukihiko Ohya⁶, Kazue Yoshida^{1,6}

¹Division of Dermatology, National Center for Child Health and Development, Tokyo, ²Division of Biostatistics, Department of Data Management, Center of Clinical Research and Development, National Center for Child Health and Development, Tokyo, ³Department of Corporate Communications, Pigeon Corporation, Tokyo, ⁴Department of Product Development, Pigeon Corporation, Ibaraki, ⁵Center for Maternal-Fetal, Neonatal and Reproductive Medicine, National Center for Child Health and Development, Tokyo, ⁶Allergy Center, National Center for Child Health and Development, Tokyo

I-2 [P14-01] FL11 deficiency-induced paradoxical Th2 polarization in response to IFN- γ possibly contributes to skin fibrosis in systemic sclerosis

○ Tetsuya Ikawa^{1,2}, Takuya Miyagawa², Yuki Fukui², Satoshi Toyama², Jun Omatsu², Kentaro Awaji², Yuta Norimatsu², Yusuke Watanabe², Ayumi Yoshizaki², Shinichi Sato², Yoshihide Asano^{1,2}

¹Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, ²Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo

I-3 [P10-01] Impact of anti-interleukin-4 receptor alpha antibodies on cutaneous T-cell lymphoma via regulatory T cell induction

○ Teruyoshi Hisamoto, Ruriko Kawanabe, Yurika Osuji, Hirohito Kotani, Kazuki M. Matsuda, Ai Kuzumi, Takemichi Fukasawa, Satoshi Ebata, Asako Yoshizaki-Ogawa, Shinichi Sato, Ayumi Yoshizaki

The Department of Dermatology, University of Tokyo, Tokyo

I-4 [P04-01] Glycolytic metabolism drives melanocyte senescence characterizing defective melanosome transport

○ Jin Cheol Kim¹, Young Joon Park¹, Yul Hee Kim¹, Jin Wook Lee², Youngeun Kim¹, So Yeon Myeong³, Tae Jun Park^{4,5}, Hee Young Kang^{1,3,5}

¹The Department of Dermatology, Ajou University School of Medicine, Suwon, ²Department of Dermatology, Chungbuk National University Hospital, Cheongju, ³Department of Medical Sciences, Ajou University Graduate School of Medicine, Suwon, ⁴Department of Biochemistry and Molecular Biology, Ajou University School of Medicine, Suwon, ⁵Inflamm-Aging Translational Research Center, Ajou University School of Medicine, Suwon

I-5 [P08-01] Prenatal exposure to nickel and atopic dermatitis at age 3 years: a birth cohort study with cytokine profiles

○ Chih-Hung Lee^{1,3}, Ji-Chen Ho^{1,3}, Hui-Ju Wen¹, Shu-Li Wang²

¹Department of Dermatology, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, ²National Institute of Environmental Health Sciences, National Health Research Institutes, Miaoli, ³Department of Dermatology, Chang Gung University, Taoyuan

I-6 [P15-02] Macrophage-derived CXCL10 mediates immune checkpoint inhibitor-induced severe skin toxicity

○ Chun-Bing Chen

Department of Dermatology, Drug Hypersensitivity Clinical and Research Center, Chang Gung Memorial Hospital, Linkou

Concurrent Oral Session 1 (Pigmentation and Melanoma -I)

10:10-11:39

Chairs: Atsushi Otsuka, Michihiro Kono

C01-01 [P12-03] Mixed response to cancer immunotherapy is driven by intratumor heterogeneity and differential inter-lesion immune infiltration

○ Takashi Inozume^{1,2}, Takao Morinaga², Masahito Kawazu², Shusuke Kawashima^{1,2}, Takehiro Ohnuma⁶, Yukiko Kiniwa⁸, Yu Kawahara^{1,7}, Yoshiyasu Umeda⁷, Yasuhiro Nakamura⁷, Tatsuyoshi Kawamura³, Kazuo Yamashita⁵, Yutaka Suzuki⁷, Hiroyoshi Nishikawa¹⁰, Yosuke Togashi^{2,4}

¹Department of Dermatology, Chiba University, Chiba, ²Chiba Cancer Center, Research Institute, Chiba, ³Department of Dermatology, University of Yamanashi, Yamanashi, ⁴Department of Tumor Microenvironment, Okayama University, Okayama, ⁵KOTAI Biotechnologies Inc, Osaka, ⁶Department of Dermatology and Plastic Surgery, Kumamoto University, Kumamoto, ⁷Department of Skin Oncology/Dermatology, Saitama Medical University International Medical Center, Saitama, ⁸Department of Dermatology, Shinshu University, Matsumoto, ⁹Department of Computational Biology and Medical Sciences, Graduate School of Frontier Sciences, The University of Tokyo, Chiba, ¹⁰Department of Immunology, Nagoya University, Nagoya

- C01-02 [P12-04] MITF specifies melanocytes through repressing neural genes**
○ Akinori Kawakami¹, Miroslav Hejna², Jun Song², Hoang Mai³, Kenji Kabashima¹, David E. Fisher⁴
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Department of Physics, University of Illinois, Urbana, ³Department of Pathology, Massachusetts General Hospital, Harvard Medical School, Boston, ⁴Cutaneous Biology Research Center, Department of Dermatology, Massachusetts General Hospital, Harvard Medical School, Charlestown
- C01-03 [P12-05] LL37 might promote local invasion of melanoma by the stimulation of melanoma cells and tumor-associated macrophages**
○ Kentaro Ohuchi, Taku Fujimura, Ryo Amagai, Yuna Roh, Junko Endo, Yumi Kambayashi, Yoshihide Asano
Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai
- C01-04 [P12-06] The role of T-cadherin in the development of chemical-induced vitiligo; new insights from a genome-wide association study**
○ Ken Okamura¹, Yuko Abe¹, Izumi Naka², Jun Ohashi², Yutaka Hozumi¹, Tamio Suzuki¹
¹Department of Dermatology, Faculty of Medicine, Yamagata University, Yamagata, ²Department of Biological Sciences, Graduate School of Science, The University of Tokyo, Tokyo
- C01-05 [P12-07] Overcoming Immune Checkpoint Inhibitor Resistance to Improve Melanoma Therapy**
Sheena M. Daignault-Mill¹, ○ Davide Moi^{1,2,3}, Bijun Zeng^{1,2,3}, Rituparna Bhatt¹, Robert J. Ju¹, Gency Gunasingh¹, Liam Griffiths¹, Melina Haritopoulou-Sinanidou¹, Brian Gabrielli⁴, Glen M. Boyle⁵, Roberta Mazzieri^{1,2,3}, Loredana Spoerri¹, Riccardo Dolcetti^{1,2,3}, Nikolas K. Haass¹
¹The University of Queensland Diamantina Institute, The University of Queensland, Brisbane, ²Peter MacCallum Cancer Centre, Melbourne, ³University of Melbourne, Melbourne, ⁴Mater Research Institute, The University of Queensland, Brisbane, ⁵QIMR Berghofer Medical Research Institute, Brisbane
- C01-06 [P12-08] SEMA4A may contribute to a melanocytes-nerve fibers paracrine cross-talk that enhances UVB-induced melanogenesis**
○ Moe Tsutsumi^{1,2}, Onur Egriboz², Ilaria Piccini², Kentaro Kajiya¹, Marta Bertolini²
¹Shiseido Co., Ltd., MIRAI Technology Institute, Yokohama, ²Monasterium Laboratory, Muenster
- C01-07 [P12-09] Proteomic Profiling of Cutaneous Melanoma Identifies Novel Molecular Signatures of Tumour Metastasis**
○ Ali Azimi^{1,2,3}, Ellis Patrick^{3,4}, Rachel Teh^{1,2,3}, Jennifer Kim⁵, Pablo Fernandez-Penas^{1,2,3}
¹Faculty of Medicine and Health, The University of Sydney, Westmead, ²Department of Dermatology, Westmead Hospital, Westmead, ³Centre for Cancer Research, The Westmead Institute for Medical Research, Westmead, ⁴School of Mathematics and Statistics, Faculty of Science, The University of Sydney, Camperdown, ⁵Department of Tissue Pathology and Diagnostic Oncology, Institute of Clinical Pathology and Medical Research, Westmead Hospital, Westmead

Luncheon Seminar 1

11:50-12:50

Chairs: Yayoi Tada, Hiroaki Iwata

- LS1-1 Early intervention for Psoriatic Disease based on Long-Term Safety and Efficacy**
○ Emi Nishida
Department of Dermatology, Okazaki City Hospital, Okazaki
- LS1-2 Lichen sclerosus et atrophicus: a current landscape of autoimmune and genetic enigma**
○ Noritaka Oyama
Department of Dermatology, University of Fukui, Fukui

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Sun Pharma RISING SUN AWARD 2022

12:55-13:55

Chairs: Kenji Kabashima, Manabu Fujimoto, Makoto Sugaya

- SRA1 Visualization of skin immune responses; why it happens?**
○ Gyohei Egawa
Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto
- SRA2 Physiology and pathology of the cutaneous basement membrane zone**
○ Ken Natsuga
Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo
- SRA3 Comprehensive study of autoimmune diseases**
○ Naoko Okiyama
Department of Dermatology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Tokyo

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LEO Foundation Awards 2022

14:00-14:20

Presenter: Kenji Kabashima

Award Ceremony

14:20-14:55

Young JSID Award

Presenter: Kenji Kabashima

YJA-1 Misaki Kinoshita-Ise, Department of Dermatology, Kyorin University Faculty of Medicine

YJA-2 Hanako Koguchi-Yoshioka, Department of Neurocutaneous Medicine, Division of Health Science, Graduate School of Medicine, Osaka University

YJA-3 Akihiko Uchiyama, Department of Dermatology, Gunma University Graduate School of Medicine

JSID's Fellowship Shiseido Research Grant

Presenter: Rumiko Fujiwara

SE STING-mediated anti-tumor strategy by epigenetic modification

○ Yu Sawada

Department of Dermatology, University of Occupational and Environmental Health

SE Development of a novel therapeutic strategy for angiosarcoma through drug screening

○ Teruki Yanagi

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

Diploma of Dermatological Scientist

Presenter: Kenji Kabashima

Syahla Nisaa Amalia, Department of Dermatology, Gunma University Graduate School of Medicine

Ge Peng^{1,2}, ¹Atopy/Allergy Research Center, Juntendo University Graduate School of Medicine, ²Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine

JSID Honorary Membership

Presenter: Kenji Kabashima

SID/JSID Young Fellow Collegiality Awards

Presenter: Nicole Ward

Nicholas Robert Love, University of California

Allen Oak, University of Pennsylvania

Reid Oldenburg, University of California

ESDR/JSID Young Fellow Collegiality Awards

Presenter: Thomas Florestan

Roberto Maglie, University of Florence

Farzan Solimani, Charité – Universitätsmedizin Berlin

ASDR/JSID Exchange Program

Presenter: Nicolas Haass

Davide Moi, The University of Queensland

TSID/JSID Young Fellow Collegiality Awards

Presenter: Kenji Kabashima

Chun-Bing Chen, Chang Gung Memorial Hospital

Yi-Shuan Sheen, National Taiwan University Hospital

KSID/JSID Young Fellow Collegiality Awards

Presenter: Hee Young Kang

Jin Cheol Kim, Ajou University
Dai Hyun Kim, Korea University

Symposium 1

"The Prospects of Quantum Computers for Medical Applications"

15:05-17:05

Chairs: Hiroshi Imai, Ayumi Yoshizaki

SY1-1 Quantum Computers for Medical Applications

○ Hiroshi Imai
Department of Computer Science, the University of Tokyo, Tokyo

SY1-2 Efficient Feature Encoding with Quantum Bits and its Applications in Classifying Healthcare Datasets

○ Rudy Raymond
IBM Quantum, IBM Research Tokyo/The Univ. of Tokyo/Keio Univ.

SY1-3 Discovering Novel Medical Knowledge by Quantum Computing

○ Hideaki Kawaguchi^{1,2}
¹Quantum Computing Center, Keio University, Yokohama, ²Department of Biomedical Informatics, The University of Tokyo, Tokyo

SY1-4 Privacy preserving technologies toward safe medical science

○ Tetsuo Shibuya
The Institute of Medical Science, The University of Tokyo, Tokyo

Evening Seminar 1

17:25-18:25

Chair: Akemi Ishida-Yamamoto

ES1 Aiming for a higher goal in psoriasis management. Perspective from Australia

○ Peter Foley
Department of Medicine, The University of Melbourne, Melbourne

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December 2, 2022, Room B

Concurrent Oral Session 2 (Epidermal Structure and Barrier Function -I)

10:10-11:39

Chairs: Mayumi Komine, Satoru Shinkuma

- C02-01 [P05-03] The antimicrobial peptide AMP-IBP5 relieves skin inflammation in a mouse model of atopic dermatitis through the LRP1 receptor**
 ○ Hai Le Thanh Nguyen^{1,2}, Ge Peng^{1,2}, Juan Valentin Trujillo-Paez¹, Hainan Yue^{1,2}, Yoshie Umehara¹, Ko Okumura¹, Hideoki Ogawa¹, Shigaku Ikeda^{1,2}, François Niyonsaba^{1,3}
¹Atopy (Allergy) Research Center, Juntendo University, Tokyo, ²Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, ³Faculty of International Liberal Arts, Juntendo University, Tokyo
- C02-02 [P05-04] Epidermal expression of Hes1 regulates immune response**
 ○ Mariko Moriyama, Yuko Miyake, Hiroyuki Moriyama
 Pharmaceutical Research and Technology Institute, Kindai University, Higashi-Osaka
- C02-03 [P05-05] Involvement of the aryl hydrocarbon receptor in histamine-evoked acute itch**
 ○ Hainan Yue^{1,2}, Ge Peng^{1,2}, Yoshie Umehara², Hai Le Thanh Nguyen^{1,2}, Saya Tsukamoto^{1,2}, Arisa Ikeda³, Juan Valentin Trujillo-Paez², Ko Okumura², Hideoki Ogawa², Shigaku Ikeda^{1,2}, François Niyonsaba^{2,4}
¹Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, ²Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ³Department of Nephrology, Juntendo University Graduate School of Medicine, Tokyo, ⁴Faculty of International Liberal Arts, Juntendo University, Tokyo
- C02-04 [P05-06] Ceramide-1-Phosphate Promotes Premature Aging in Human Dermal Fibroblasts Exposed to Diesel Particulate Matter**
 ○ Kyong-Oh Shin¹, Seongeum Kim², Yerim Choi², Sanwoon Back², Yoshikazu Uchida², Kyungho Park²
¹Department of Food Science and Nutrition, Convergence Program of Material Science for Medical and Pharmaceuticals, and Korean Inst. of Nutrition Hallym University, and 2LaSS Lipid Institute, LaSS Inc., Chuncheon, ²Department of Food Science and Nutrition, Convergence Program of Material Science for Medical and Pharmaceuticals, and Korean Inst. of Nutrition Hallym University, Chuncheon
- C02-05 [P05-07] Horse ceramide accentuates glucosylceramide synthase and ceramide synthase 3 by activating PPAR β/δ and/or γ to stimulate ceramide synthesis**
 ○ Tami Igarashi¹, Hiroki Yanagi¹, Masayuki Yagi¹, Masamitsu Ichihashi², Genji Imokawa³
¹Rosette Co., LTD, Tokyo, ²Arts Ginza Clinic, Tokyo, ³Center for Bioscience Research and Education, Utsunomiya University, Utsunomiya
- C02-06 [P05-08] Pyroptosis of keratinocyte in Stevens-Johnson syndrome/toxic epidermal necrolysis**
 ○ Yuki Saito, Akito Hasegawa, Riichiro Abe
 The Department of Dermatology, University of Niigata, Niigata City
- C02-07 [P05-09] Loss of IL-33 causes increased filaggrin protein level without impact on TEWL after tape-stripping**
 ○ Md Razib Hossain, Tuba Musarrat Ansary, Mayumi Komine, Mamitaro Ohtsuki
 The Department of Dermatology, Jichi Medical University, Shimotsuke

Luncheon Seminar 2

11:50-12:50

Chair: Sohshi Morimura

- LS2 Mechanism of skin barrier dysfunction by Type 2 inflammation in atopic dermatitis**
 ○ Gaku Tsuji
 Research and Clinical Center for Yusho and Dioxin, Kyushu University Hospital Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka

Co-sponsored by Sanofi K.K.

3-minute presentation and discussion 1 (JSID's Fellowship Shiseido Research Grant/Pigmentation and Melanoma-I)

15:05-16:10

Chairs: Takafumi Kadono, Keitaro Fukuda

- O01-03 [P12-13] Phorbol ester TPA inhibits the proliferation of metastatic melanoma via tyrosine phosphatases, TC-PTP and SH-PTP2**
○ Yuki Akamatsu¹, Mami Onishi¹, Yuki Ichihara¹, Miwa Yamauchi², Taiki Nagano², Masahiro Oka³, Shinji Kamada^{1,2}, Tetsushi Iwasaki^{1,2}
¹Department of Biology, Graduate School of Science, Kobe University, Kobe, ²Biosignal Research Center, Kobe University, Kobe, ³Kita-Harima Medical Center, Ono
- O01-04 [P12-14] NGS-based targeted sequencing unveiled 20% of Japanese patients with albinism were Hermasky-Pudlak Syndrome**
○ Toru Saito, Ken Okamura, Yutaka Hozumi, Tamio Suzuki
Department of Dermatology, Faculty of Medicine, Yamagata University, Yamagata
- O01-05 [P12-15] Immune profiling of simultaneous multiple stages of melanoma using spatial transcriptomics**
○ Youngkyoung Lim¹, Beom Keun Cho², Seong-Jun Kang², Hyun Je Kim³, Soyoung Jeong², Chong Hyun Won⁴, Chung-Gyu Park^{2,5}
¹Department of Dermatology, Seoul National University Hospital, Seoul, ²Department of Biomedical Sciences, Seoul National University Gradual School, Seoul, ³Genome Medicine Institute, Seoul National University College of Medicine, Seoul, ⁴Department of Dermatology, Asan Medical Center, University of Ulsan College of Medicine, Seoul, ⁵Cancer Research Institute, Seoul National University College of Medicine, Seoul
- O01-06 [P12-16] Expression of Discoidin Domain Receptor 1 and E-cadherin in epidermis affects melanocyte behavior in rhododendrol-induced leukoderma mouse**
○ Yuko Abe, Yutaka Hozumi, Ken Okamura, Tamio Suzuki
Department of Dermatology, Yamagata University Faculty of Medicine, Yamagata
- O01-07 [P12-17] Single-cell transcriptomic profiling of melanocytic tumors reveals malignancy-specific cyclin-dependent kinase dynamics**
○ Nicholas Robert Love, Maija Kiuru
Department of Dermatology, University of California at Davis, Sacramento
- O01-08 [P12-18] Regulation of aging-associated pigmentation via improvement of senescent fibroblasts**
○ Cathleen Ysulat, Satoshi Yoshimoto, Masato Namekata, Kenji Shimizu
R&D Center, Nikko Chemicals Co., Ltd., Tokyo
- O01-09 [P12-19] The expression of dimeric immunoglobulin A (dIgA) in malignant melanoma has the potential for a good prognosis**
○ Akitaka Hata¹, Toshiaki Kogame¹, Takashi Nomura¹, Yosuke Yamamoto², Kenji Kabashima¹
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Department of Healthcare Epidemiology, Kyoto University Graduate School of Medicine, Kyoto
- O01-10 [P12-20] Targeting melanoma plasticity and tumour microenvironment architecture to improve immune cell infiltration**
○ Satoru Sugihara¹, Jacinta Simmons^{2,3}, Yimeng Guan¹, Gency Gunasingh¹, Jordan Kumar¹, Rituparna Bhatt¹, Riccardo Dolcetti^{1,4}, Glen M. Boyle⁵, Loredana Spoerri¹, Nikolas K. Haass¹
¹The University of Queensland, The University of Queensland Diamantina Institute, Brisbane, Queensland, ²School of Biomedical Science, Queensland University of Technology, Brisbane, Queensland, ³QIMR Berghofer Medical Research Institute, Brisbane, Qld, Australia, Brisbane, Queensland, ⁴Peter MacCallum Cancer Centre Department of Oncology, University of Melbourne, Australia, Melbourne, Victoria
- O01-11 [P12-21] Beta-blockers induce apoptosis via MEK inhibition in malignant melanoma**
○ Natsuko Saito-Sasaki, Yu Sawada, Etsuko Okada
The Department of Dermatology, University of Occupational and Environmental health, Japan, Kitakyushu
- O01-12 [P12-22] Overexpression of NUA2 and phospho-Akt(S473) has a significant impact on development and progression in acral melanomas**
○ Takeshi Namiki¹, Kohei Nojima¹, Masahiro Hayashi², Masakazu Kawaguchi², Tamio Suzuki², Masashi Ishikawa³, Atsushi Tanemura⁴, Ichiro Katayama⁵, Taisuke Mori⁶, Naoya Yamazaki⁷, Hiroki Mori⁸, Yoshiyuki Sasaki⁹, Hiroo Yokozeki¹, Naoko Okiyama¹
¹Department of Dermatology, Tokyo Medical and Dental University, Tokyo, ²Department of Dermatology, Yamagata University, Yamagata, ³Department of Dermatology, Saitama Cancer Center, Saitama, ⁴Department of Dermatology, Osaka University, Osaka, ⁵Department of Dermatology, Osaka City University, Osaka, ⁶Department of Pathology, National Cancer Center Hospital, Tokyo, ⁷Department of Dermatologic Oncology, National Cancer Center Hospital, Tokyo, ⁸Department of Plastic Surgery, Tokyo Medical and Dental University, Tokyo, ⁹Clinical Dental Research Promotion Unit, Tokyo Medical and Dental University, Tokyo
- O01-13 [P12-23] Establishment of a mouse model with the *SASH1* mutation**
○ Yuta Araki, Ken Okamura, Yutaka Hozumi, Tamio Suzuki
Department of Dermatology, Yamagata University Faculty of Medicine, Yamagata

3-minute presentation and discussion 4 (Pigmentation and Melanoma-II/Pharmacology and Drug Development-I)

16:10-17:15

Chairs: Takuya Takeichi, Takamichi Ito

- O04-01 [P12-24] Dynamic visualization of melanosome endo/phagocytosis during melanin transfer using melanosomes pre-stained with carbocyanine dyes**
 ○ Seiji Takeuchi^{1,5}, Takeshi Fukumoto¹, Chikako Nishigori¹, Lieve Declercq², Daniel B. Yarosh³, Thomas Mammone⁴, Naoaki Saito⁵
¹Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe, ²Biological Research Department Europe & Asia, Estee Lauder Companies, Oevel, ³Basic Science Research, Estee Lauder Companies, Melville, NY, ⁴Skin Physiology and Pharmacology, Research & Development, Estee Lauder Companies, Melville, NY, ⁵Kobe Skin Research Department, Biosignal Research Center, Kobe University, Kobe
- O04-02 [P12-25] Effect of air pollution and polycyclic aromatic hydrocarbons on skin pigmentation**
 ○ Rachel Phua^{1,2}, Nikolaos Pantelireis¹, Carlos Clavel^{1,2}
¹A*STAR Skin Research Lab (A*SRL), Agency for Science, Technology and Research (A*STAR), Singapore, ²Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore
- O04-03 [P12-26] Anti-glycation and anti-sallowiness effects of certain materials in 3D skin equivalent models**
 ○ Tom Mammone^{1,2}, Jaimie Jerome¹, Bin Wei Deng³, Jian (Richard) Cao³, Ewa Markiewicz⁴, Olusola Idowu⁴
¹Estée Lauder Companies Research and Development, Melville, New York, ²Clinique Research Labs, Melville, New York, ³Estée Lauder Companies Research and Development Asia Innovation Center, Shanghai, ⁴HexisLab Limited, Newcastle
- O04-04 [P12-27] Performance of near-ultraviolet light dermoscopy for pigmented skin tumors**
 ○ Akane Minagawa, Maureen T Meling, Hiroshi Koga, Ryuhei Okuyama
 The Department of Dermatology, Shinshu University School of Medicine, Matsumoto
- O04-05 [P12-28] Anti-glycation properties of phenolic compounds in 3D skin equivalent models and its implications in prevention of premature skin aging**
 ○ Jaimie Jerome¹, Ewa Markiewicz², Olusola Idowu², Tom Mammone¹
¹Estée Lauder Companies Research and Development, Melville, New York, ²HexisLab Limited, Newcastle
- O04-06 [P12-29] Anatomic Mapping of Acral Melanocytic Nevi and Acral Lentiginous Melanomas of Taiwanese Patients**
 ○ Yi-Shuan Sheen¹, Sheng-Ni Chen², Ming-Hsien Lin¹
¹National Taiwan University Hospital, Taipei, ²National Taiwan University Hospital Hsin-Chu Branch, Hsin-Chu
- O04-07 [P12-30] The detection of *BRAF V600E* mutation in malignant melanoma: the experience of a single institute**
 ○ Cheng-Lin Wu^{1,2}, Yi-Lin Chen^{1,3}, Shu-Ching Yang¹, Wan-Li Chen¹, Hui-Wen Wang², Wan-Ning Huang², Chung-Liang Ho^{1,4}
¹Department of Pathology, National Cheng Kung University Hospital, Tainan, ²Institute of Clinical Medicine, College of Medicine, National Cheng Kung University, Tainan, ³Department of Medical Laboratory Science and Biotechnology, College of Medicine, National Cheng Kung University, Tainan, ⁴Institute of Molecular Medicine, College of Medicine, National Cheng Kung University, Tainan
- O04-08 [P10-07] Progesterone receptor is a promising target of combination therapy with histone deacetylase inhibitors in cutaneous T-cell lymphoma**
 ○ Kazuyasu Fujii¹, Rei Noguchi², Yuki Yoshimatsu², Tadashi Kondo², Takuro Kanekura¹
¹The Department of Dermatology, Kagoshima University, Kagoshima, ²Division of Rare Cancer Research, National Cancer Center Research Institute, Tokyo
- O04-09 [P10-09] Tomentosolic acid attenuates neutrophil-associated psoriasis-like inflammation**
 ○ Tsong-Long Hwang^{1,2}, Michal Korinek^{1,2}, Pei-Shan Hsieh², Pei-Wen Hsieh²
¹Graduate Institute of Health Industry Technology, Chang Gung University of Science and Technology, Taoyuan, ²Graduate Institute of Natural Products, Chang Gung University, Taoyuan
- O04-10 [P10-10] Effect of the presence or absence of genetic mutations on spesolimab efficacy in patients with a generalized pustular psoriasis (GPP) flare**
 ○ Yukari Okubo¹, A. David Burden², Min Zheng³, Siew Eng Choon⁴, Diamant Thaci⁵, Ling Li⁶, Christian Thoma⁷, Slaheddine Marrakchi⁸
¹Department of Dermatology, Tokyo Medical University, Tokyo, ²Institute of Infection, Immunity and Inflammation, University of Glasgow, Glasgow, ³Department of Dermatology, Second Affiliated Hospital, Zhejiang University, School of Medicine, Hangzhou, Zhejiang, ⁴Department of Dermatology, Hospital Sultanah Aminah, Clinical School Johor Bahru, Monash University Malaysia, Subang Jaya, ⁵Universitat Zu Luebeck, Luebeck, ⁶Boehringer Ingelheim (China), Investment CO Ltd, Shanghai, ⁷Boehringer Ingelheim International GmbH, Biberach, ⁸Department of Dermatology, Hedi Chaker Hospital, University of Sfax, Sfax

O04-11 [P10-11] The effect of concomitant plaque psoriasis (PsO) on the efficacy of spesolimab in patients with a generalized pustular psoriasis (GPP) flare

○ Takeshi Okubo¹, Peter van der Kerkhof², Yukari Okubo³, Lluís Puig⁴, Jorg C. Prinz⁵, Anna J. Nichols⁶, Christian Thoma⁷, Ling Li⁸, Herve Bachelez^{9,10}

¹Nippon Boehringer Ingelheim Co., Ltd, Tokyo, ²Department of Dermatology, Radboud University, Nijmegen, ³Department of Dermatology, Tokyo Medical University, Tokyo, ⁴Department of Dermatology, Hospital de la Santa Creu i Sant Pau, Universitat Autònoma de Barcelona, Barcelona, ⁵Department of Dermatology and Allergy, Ludwig-Maximilian-University Munich, Munich, ⁶Dr. Phillip Frost Department of Dermatology and Cutaneous Surgery, University of Miami Miller School of Medicine, Miami, Florida, ⁷Boehringer Ingelheim International GmbH, Biberach, ⁸Boehringer Ingelheim (China) Investment Co. Ltd., Shanghai, ⁹Service de Dermatologie, Assistance Publique Hôpitaux de Paris Hôpital Saint-Louis, Paris, ¹⁰INSERM Unité 1163, Imagine Institute of Genetic Diseases, Université Paris Cité, Paris

O04-12 [P10-12] The Cosmetic Functions of Inositol

○ Yuki Inoue, Tomoki Oguro, Toshio Nakamura, Takuo Tsuno

Planning & Development Dept. TSUNO RICE FINE CHEMICALS CO., LTD, Wakayama

O04-13 [P10-13] Anti-inflammatory effects of alpha-boswellic acid in DNCB-induced BALB/c mice

○ Chi-Feng Hung¹, Yu-Jou Hsu²

¹School of Medicine, Fu Jen Catholic University, New Taipei City, ²PhD Program in Pharmaceutical Biotechnology, New Taipei City

Evening Seminar 2

"Latest findings in generalized pustular psoriasis"

17:25-18:25

Chairs: Yumi Aoyama, Yukari Okubo

ES2-1 Unmet needs in the pathophysiology and treatment of GPP- Significance for harnessing of excessive inflammation induced by neutrophil-keratinocyte crosstalk -

○ Sayaka Shibata

Department of Dermatology, The University of Tokyo, Tokyo

ES2-2 The latest treatment of GPP

○ Shin Morizane

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

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

December 2, 2022, Room C

Concurrent Oral Session 3

(Adaptive Immunity-I/Innate Immunity, Microbiology, Microbiome)

10:10-11:39

Chairs: Tatsuyoshi Kawamura, Yuumi Matsuoka

- C03-01 [P01-02] Identification of dendritic cell subsets promoting activation of T lymphocyte in the elicitation phase of murine contact hypersensitivity**
 ○ Fuuka Minami¹, Ryota Asahina¹, Sachiko Ono¹, Tetsuya Honda², Gyohei Egawa¹, Satoshi Nakamizo¹, Kenji Kabashima¹
¹The Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²The Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu
- C03-02 [P01-03] Fatty-acid binding protein 5 in T cells is required not for the development but for functional activities of skin resident memory T cells**
 ○ Shuichi Nakai^{1,2}, Rei Watanabe², Manabu Fujimoto²
¹Research Department, Maruho Co., Ltd., Kyoto, ²Department of Dermatology, Osaka University, Osaka
- C03-03 [P01-04] Psychological stress exacerbates skin allergic inflammation by dysfunction of anti-inflammatory M2 macrophages via β 2-adrenergic receptor**
 ○ Hitoshi Urakami¹, Yuki Fujita², Ayaka Komura², Kei Nagao², Keigo Matsui², Shota Hino², Kensuke Miyake³, Hajime Karasuyama³, Soichiro Yoshikawa^{2,4}, Atsunori Kamiya², Shin Morizane¹
¹Department of Dermatology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, ²Department of Cell Physiology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, ³Inflammation, infection and Immunity Laboratory, Advanced Research Institute, Tokyo Medical and Dental University (TMDU), Tokyo, ⁴Department of Immunology, Juntendo University School of Medicine, Tokyo
- C03-04 [P07-02] The number of carbon atoms in fatty acids determines different roles for comedogenesis and inflammatory changes in acne vulgaris**
 ○ Takashi Sugihira^{1,2,3}, Yumi Matsuoka-Nakamura^{2,4}, Rei Watanabe^{2,3}, Yasunari Sato¹, Tsuyoshi Ishii¹, Manabu Fujimoto^{2,4}
¹Basic Reserch Development Division, Rohto Pharmaceutical Co., LTD., Kyoto, ²Department of Dermatology, Graduate School of Medicine, Osaka university, Osaka, ³Department of Integrative Medicine for Allergic and Immunological Diseases, Graduate School of Medicine, Osaka University, Osaka, ⁴Cutaneous Immunology, Immunology Frontier Research Center, Osaka University, Osaka
- C03-05 [P07-03] Activation of IKK β by linear ubiquitin chain assembly complex (LUBAC) specifically exacerbates a murine imiquimod-induced psoriasis model**
 ○ Ken I. Kosaka¹, Satoshi Nakamizo¹, Gyohei Egawa¹, Kazuhiro Iwai², Kenji Kabashima¹
¹Departments of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Department of Molecular and Cellular Physiology, Kyoto University Graduate School of Medicine, Kyoto
- C03-06 [P07-04] C10orf99 peptide enhances proinflammatory response in keratinocytes and reduces barrier formation of the epidermis**
 ○ Teruki Dainichi¹, Yuri Nakano², Hiromi Doi², Satoshi Nakamizo^{2,3}, Saeko Nakajima², Thomas Farkas⁴, Pui Mun Wong³, Vipin Narang³, Ricardo Moreno Traspas³, Eiryu Kawakami^{5,6}, Emma Guttman-Yassky⁷, Oliver Dreesen³, Thomas Litman⁴, Bruno Reversade³, Kenji Kabashima²
¹Kagawa University, Miki-cho, Kagawa, ²Kyoto University, Kyoto, ³A*STAR, Biopolis, ⁴University of Copenhagen, Copenhagen, ⁵RIKEN, Yokohama, ⁶Chiba University, Chiba, ⁷Icahn School of Medicine at Mount Sinai, New York, NY
- C03-07 [P07-06] Changes in peripheral blood mononuclear cell subsets putatively predict response to i.v. steroid pulse therapy to severe alopecia areata**
 ○ Ryo Takahashi¹, Yohei Sato², Momoko Kimishima², Manabu Ohyama^{1,2}
¹Flow Cytometry Core Facility, Kyorin University Graduate School of Medicine, Mitaka, Tokyo, ²Department of Dermatology, Kyorin University Faculty of Medicine, Mitaka, Tokyo

Luncheon Seminar 3

11:50-12:50

Chair: Mari Kishibe

- LS3 Treatment Strategies for Systemic Sclerosis from the Viewpoint of Vascular Disorder**
 ○ Sei-ichiro Motegi
 Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi

Co-sponsored by Janssen Pharmaceutical K.K.

3-minute presentation and discussion 2 (Cell-Cell Interactions in the Skin/Epidermal Structure and Barrier Function -I)

15:05-16:10

Chairs: Katsunari Makino, Masahiro Kamata

- O02-01 [P04-05]** **Plasma membrane phosphatidylinositol 4,5-bisphosphate is critical for the intercellular adhesion of keratinocytes**
○ Kaori Kanemaru¹, Kiyoko Fukami², Yoshikazu Nakamura¹
¹Department of Applied Biological Science, Faculty of Science and Technology, Tokyo University of Science, Noda, ²School of Life Sciences, Tokyo University of Pharmacy and Life Sciences, Hachioji
- O02-02 [P04-06]** **Analysis of priming effects of TF inducers on synergistic TF expression in human vascular endothelial cells**
○ Daiki Matsubara¹, Yuhki Yanase², Takuma Kunieda², Kaori Ishii¹, Shunsuke Takahagi¹, Akio Tanaka¹, Koichiro Ozawa², Michihiro Hide³
¹Department of Dermatology, Graduate School of Biomedical and Health Sciences, Hiroshima University, Hiroshima, ²Department of Pharmacotherapy, Graduate School of Biomedical and Health Sciences, Hiroshima University, Hiroshima, ³Hiroshima City Hiroshima Citizens Hospital, Hiroshima
- O02-03 [P04-07]** **Three-dimensional ultrastructural imaging of desmosomes and keratin filaments in the epidermis**
○ Norito Ishii¹, Keisuke Ohta², Takekuni Nakama¹
¹Department of Dermatology, Kurume University School of Medicine, and Kurume University Institute of Cutaneous Cell Biology, Kurume, ²Division of Microscopic and Developmental Anatomy, Department of Anatomy, Kurume University School of Medicine, Kurume
- O02-04 [P05-11]** **Western diet alters skin ceramide fraction and reduces skin barrier function**
○ Satoshi Nakamizo¹, Kahbing J Tan², Hyeon-Cheol Lee-Okada³, Reiko Sato², Zachary Chow⁴, Saeko Nakajima¹, John E.A. Common⁴, Kazuko Saeki³, Takehiko Yokomizo³, Florent Ginhoux^{2,4}, Kenji Kabashima^{1,2,4}
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Singapore Immunology Network (SiGN), Agency for Science, Technology and Research, ³Department of Biochemistry, Graduate School of Medicine, Juntendo University, Tokyo, ⁴Skin Research Institute of Singapore (SRIS), Agency for Science, Technology and Research
- O02-05 [P05-13]** **Hemidesmosomes contribute to the mechanical strength of epithelial cell sheets adhering to the substrate**
○ Yoshiaki Hirako, Kou Hashimoto
Graduate School of Science, Nagoya University, Nagoya
- O02-06 [P05-14]** **Sphingosine 1-phosphate receptor 1 (S1PR1) increases epidermal barrier function-related gene expressions in differentiated keratinocytes**
○ Satomi Igawa¹, Manae Takahashi¹, Risa Matsuo¹, Mari Kishibe¹, Akemi Ishida-Yamamoto¹, Anna Di Nardo²
¹The Department of Dermatology, Asahikawa Medical University, Asahikawa, ²Department of Dermatology, School of Medicine, University of California, San Diego, La Jolla
- O02-07 [P05-15]** **Difamilast, a topical PDE4 inhibitor, restores skin barrier impairment via KPRP in atopic dermatitis**
○ Gaku Tsuji^{1,2}, Akiko Hachiya², 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
- O02-08 [P05-16]** **Expression of S100-fused proteins in a three-dimensional atopic dermatitis skin**
○ Teruhiko Makino¹, Seiji Yamamoto², Keita Takemoto¹, Megumi Mizawa¹, Tadamichi Shimizu¹
¹The Department of Dermatology, University of Toyama, Toyama, ²The Department of Pathology, University of Toyama, Toyama
- O02-09 [P05-17]** **Chromogranin A-derived peptide, catestatin, alleviates 2,4-dinitrochlorobenzene-induced atopic dermatitis-like symptoms in a mouse model**
○ Saya Tsukamoto^{1,2}, Ge Peng^{1,2}, Nguyen Hai Le Thanh^{1,2}, Trujillo-Paez Juan Valentin², Yoshie Umehara², Hainan Yue^{1,2}, Arisa Ikeda^{2,4}, Ko Okumura², Hideoki Ogawa², Shigaku Ikeda^{1,2}, François Niyonsaba^{2,3}
¹Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, ²Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ³Faculty of International Liberal Arts, Juntendo University, Tokyo, ⁴Department of Nephrology, Juntendo University Graduate School of Medicine, Tokyo
- O02-10 [P05-18]** **Analysis of thermotropic behavior of free fatty acids in intercellular lipid model of stratum corneum focusing on ceramide chirality**
○ Yasuko Obata¹, Rie Arai¹, Takayuki Furuishi¹, Etsuo Yonemochi¹, Kenya Ishida²
¹Hoshi University, Tokyo, ²Takasago International, Kanagawa
- O02-11 [P05-19]** **Epithelial cell proliferation and turnover spatially regulate the distributions of ZO-1**
○ Keisuke Imafuku¹, Hiroaki Iwata^{1,2}, Ken Natsuga¹, Makoto Okumura³, Yasuyuki Kobayashi³, Hiroyuki Kitahata⁴, Akiharu Kubo^{5,6}, Masaharu Nagayama³, Hideyuki Ujiie¹
¹The Department of Dermatology, University of Hokkaido, Sapporo, ²The Department of Dermatology, University of Gifu, Gifu, ³The Research Institute of Electronic Science, University of Hokkaido, Sapporo, ⁴The Department of Physics, University of Chiba, Chiba, ⁵The Department of Dermatology, University of Kobe, Kobe, ⁶The Department of Dermatology, Keio University, Tokyo

O02-12 **Keratinocytes depolymerize hyaluronan in a different manner than fibroblasts**
[P05-20]

○ Yukiko Mizutani, Minori Abe, Manami Masuda, Shintaro Inoue
 Department of Cosmetic Health Science, Gifu Pharmaceutical University, Gifu

3-minute presentation and discussion 5 (Epidermal Structure and Barrier Function -II/Translational Studies)

16:10-17:10

Chairs: Sayaka Shibata, Mari Kishibe

O05-01 **Axon growth inhibitory molecule Nogo regulates sensory neuron innervation of epidermis**
[P05-21]

○ Ayako Matsuyama, Takaharu Okada
 RIKEN Center for Integrative Medical Sciences, Yokohama

O05-02 **Nitration might be one causative factor that lowers the hydrophobicity of corneocytes**
[P05-22]

○ Hitoshi Masaki, Yuki Sato, Yuri Okano
 CIEL Co., Ltd., Sagami-hara, Kanagawa

O05-03 **Effects of Mucopolysaccharide Polysulfate on Tight Junction Barrier in Human Epidermal Keratinocytes**
[P05-23]

○ Rie Tamura¹, Mika Fujikawa¹, Hiroko Sugimoto², Koki Fujikawa¹, Ami Yamagishi¹, Yuhki Ueda¹
¹Kyoto R&D Center, Maruho Co., Ltd., Kyoto, ²Maruho Co., Ltd., Osaka

O05-04 **Downregulation of the low-density lipoprotein receptor-related protein (LRP) 1 promotes the pathogenesis of psoriasis**
[P05-24]

○ Saori Yoshida^{1,2}, Ge Peng^{1,2}, Saya Tsukamoto^{1,2}, Hainan Yue^{1,2}, Hai Le Thanh Nguyen^{1,2}, Yoshie Umehara¹, Juan Valentin Trujillo-Paez¹, Arisa Ikeda^{1,3}, Ko Okumura¹, Hideoki Ogawa¹, Shigaku Ikeda^{1,2}, François Niyonsaba^{1,4}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, ³Department of Nephrology, Juntendo University Graduate School of Medicine, Tokyo, ⁴Faculty of International Liberal Arts, Juntendo University, Tokyo

O05-05 **RNA sequencing-based transcriptome profiling of pathogenic genes for seborrheic keratosis**
[P05-25]

○ Takafumi Miyaki, Mariko Yozaki, Akira Iwanaga, Sayaka Kuwatsuka, Yutaka Kuwatsuka, Hiroyuki Murota
 Department of Dermatology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki

O05-06 **Macrocystis pyrifer Ferment Affects Several Factors for Skin Barrier Function**
[P05-26]

○ Jaime Emmetsberger^{1,2}, Donald Collins^{1,2}, Nevena Karaman-Jurukovska², James McCarthy², Whitby Eagle², Thomas Mammone², Nadine Pernodet²
¹Max Huber Research Laboratories, Melville, New York, ²Estee Lauder Companies Research Laboratories, Melville, New York

O05-07 **Skin Barrier Functions in Patients with Systemic Sclerosis and Sjogren's Syndrome**
[P05-27]

○ Sooyoung Kim¹, Kyung-Ann Lee^{1,2}, Moon Kyun Cho¹, Hyun-Sook Kim²
¹Department of Dermatology, Soonchunhyang University Hospital, Seoul, ²Division of Rheumatology, Department of Internal Medicine, Soonchunhyang University Hospital, Seoul

O05-08 **Macrophage activation promotes hypohidrosis**
[P15-01]

○ Tadatsune Iida¹, Takeshi Namiki¹, Daisuke Kobayashi², Hiroo Yokozeki¹, Naoko Okiyama¹
¹Department of dermatology, Tokyo Medical and Dental University, Tokyo, ²Department of human pathology, Tokyo Medical and Dental University, Tokyo

O05-09 **A new SDS-inducible irritant CD model shows H1 antihistamine-refractory itch and upregulated gene expression of IL-4 and Th17/Th22 cytokines**
[P15-06]

○ Toru Kimitsu^{1,2}, Toshiro Takai¹, Seiji Kamijo¹, Yurie Masutani^{1,2}, Tomoko Yoshimura^{1,2}, Saori Ichikawa³, Saya Shimizu¹, Takasuke Ogawa², Keiko Takada^{1,2}, Mitsutoshi Tominaga⁴, Hajime Suto¹, Kenji Takamori⁴, Hideoki Ogawa², Ko Okumura¹, Shigaku Ikeda^{1,2}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Allergology and Dermatology, Juntendo University Graduate School of Medicine, Tokyo, ³Department of Materials and Biological Sciences, Japan Women's University, Tokyo, ⁴Juntendo Itch Research Center (JIRC), Juntendo University Graduate School of Medicine, Chiba

O05-10 **Artificial intelligence for the automated single-shot assessment of psoriasis severity**
[P15-07]

○ Takashi Okamoto¹, Masataka Kawai², Shinji Shimada¹, Tatsuyoshi Kawamura¹
¹The Department of Dermatology, University of Yamanashi, Yamanashi, ²The Department of Pathology, University of Yamanashi, Yamanashi

O05-11 **Characterizing the Immunopathogenesis of pathogen-induced Severe Cutaneous Adverse Reactions**
[P15-08]

○ Reid Oldenburg¹, Bob Geng², Yanfang Zhu³, Caitlyn Kellogg¹, Ben Croker³
¹The Department of Dermatology, University of California San Diego, San Diego, ²Rady Children's Specialists of San Diego, Division of Immunology, San Diego, ³Department of Pediatrics, University of California San Diego, San Diego

O05-12
[P15-09]

Study on the efficacy and safety of post-biotics cosmetics on skin aging phenotype

○ Sang Gyu Lee, Jihee Kim, Young In Lee, Ju Hee Lee

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

Evening Seminar 3

"The New Science of Immune Diseases"

17:25-18:25

Chairs: Takashi Matsushita, Takashi Yamashita

ES3-1

Role of IL-17 and IL-17 receptors in various cells and diseases

○ Takemichi Fukasawa, Ayumi Yoshizaki, Shinichi Sato

The Department of Dermatology, University of Tokyo, Tokyo

ES3-2

Non-coding RNAs in psoriasis

○ Masatoshi Jinnin

Department of Dermatology, Wakayama Medical University Graduate School of Medicine, Wakayama

Co-sponsored by Kyowa Kirin Co., Ltd.

December 2, 2022, Room D

Concurrent Oral Session 4 (Pharmacology and Drug Development/Translational Studies-I)

10:10-11:39

Chairs: Masatoshi Jinnin, Naoko Okiyama

- C04-01 [P10-02] Benzimidazole antiparasitics induce semaphorin 3A expression via JNK/AP-1 signaling in normal human epidermal keratinocytes**
 ○ Yayoi Kamata^{1,2}, Mirei Fujita^{1,2}, Mitsutoshi Tominaga^{1,2}, Takahide Kaneko³, Yasushi Suga^{2,3}, Hideoki Ogawa¹, Kenji Takamori^{1,2,3}
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Urayasu, ²Anti-Aging Skin Research Laboratory, Juntendo University Graduate School of Medicine, Urayasu, ³Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu
- C04-02 [P10-03] Possible contribution of both central and peripheral PACAP-PAC1 receptor signaling to itch sensation in mice**
 ○ Takashi Kurihara¹, Kazuyasu Fujii², Youhei Uchida², Tomomi Terawaki¹, Hiroki Saito¹, Sho Kato³, Ryuta Ikeda³, Mayuko Murata³, Yuki Kambe¹, Atsuro Miyata¹, Ichiro Takasaki³, Takuro Kanekura²
¹Department of Pharmacology, Graduate School of Medical and Dental Sciences, Kagoshima University, Kagoshima-shi, ²Department of Dermatology, Graduate School of Medical and Dental Sciences, Kagoshima University, Kagoshima-shi, ³Department of Pharmacology, Graduate School of Science and Engineering for Research, University of Toyama, Toyama
- C04-03 [P10-04] Inhibition of pharyngeal blisters by imatinib on a murine model**
 ○ Corrine S. De Jesus¹, Satoru Yonekura², Mikako Murase³, Kana Takemoto³, Fumi Matsumoto³, Junpei Anan³, Takashi Nomura², Kenji Kabashima²
¹The Department of Dermatology, Quirino Memorial Medical Center, Quezon City, ²Kyoto University Graduate School of Medicine, Kyoto, ³Mitsubishi Tanabe Pharma Corporation, Osaka
- C04-04 [P10-05] Role of ERK pathway in the pathogenesis of atopic dermatitis and its potential as a therapeutic target**
 ○ Nahoko Zeze¹, Makiko Kido-Nakahara¹, Gaku Tsuji^{1,2}, Eriko Maehara¹, Yuki Sato¹, Takeshi Nakahara^{1,2}
¹The Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, ²The Research and Clinical Center for Yusho and Dioxin, Kyushu University, Fukuoka
- C04-05 [P10-06] Type 2 Cytokines Sensitize Human Sensory Neurons to Itch-associated Stimuli**
 ○ Madison Mack¹, Yannick Miron², Paul Miller², Zafer Ozturk¹, Danial Richman¹, Andrew Korotzer³, Paul Bryce¹
¹Sanofi, Cambridge, MA, ²AnaBios, San Diego, CA, ³Regeneron Pharmaceuticals, Tarrytown, NY
- C04-06 [P10-08] The protective role of Apocynin on ultraviolet B-induced cellular senescence in human keratinocytes**
 ○ Tuba Musarrat Ansary, Koji Kamiya, Md Razib Hossain, Mayumi Komine, Mamitaro Ohtsuki
 Department of Dermatology, Jichi Medical University, Shimotsuke
- C04-07 [P15-03] Rapid thawing method intensifies tissue destruction during cryoablation by increasing inflammation and oxidative stress**
 ○ Mai Ishikawa, Akiko Sekiguchi, Keiji Kosaka, Yuta Inoue, Akihiko Uchiyama, Sei-ichiro Motegi
 The Department of Dermatology, University of Gunma, Maebashi

Luncheon Seminar 4

11:50-12:50

Chair: Ayumi Yoshizaki

- LS4 An update on systemic sclerosis**
 ○ Dinesh Khanna
 University of Michigan, Ann Arbor

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

3-minute presentation and discussion 3 (Photobiology/Skin, Appendages, and Stem Cell Biology)

15:05-16:10

Chairs: Tomomitsu Miyagaki, Gyohei Egawa

- O03-01 [P11-03] Bath-PUVA therapy modulates systemic inflammatory proteomic signatures to lower cardiovascular risk**
 ○ Yoshifumi Kanayama, Kyoko Ikumi, Mai Sakurai, Kan Torii, Yuki Enomoto, Aya Yamamoto, Akimichi Morita
 Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya

- O03-02 [P11-04] Free radicals and fast action to counteract oxidative damage in skin cells**
○ Nadine Pernodet^{1,2}, Jacqueline Trivero¹, Dawn Layman¹, Antonella Rella¹, Earl Goyarts¹
¹Estée Lauder Companies Research & Development, New York, ²Estée Lauder Research Laboratories, Melville, New York
- O03-03 [P11-05] A novel extracorporeal photopheresis using a quartz capillary tube and UVC light-emitting diodes**
○ Hideyuki Masuda^{1,2}, Akimichi Morita¹
¹Department of Geriatric and Environmental Dermatology, Nagoya City University, Nagoya, ²Ushio Inc. Tokyo
- O03-04 [P13-08] Mucopolysaccharide polysulfate promotes stabilization of dermal microvessels via the angiotensin-1/Tie2 pathway**
○ Yuhki Ueda, Shiori Fujiwara-Sumiyoshi, Mika Fujikawa, Miho Osaki, Koki Fujikawa, Naoki Yamanaka
Kyoto R&D Center, Maruho Co., Ltd., Kyoto
- O03-05 [P13-09] Dermal adipocytes activate hair follicle stem cells through metabolic communication**
○ Kang-Yu Tai¹, Chih-Lung Chen², Sabrina Mai-Yi Fan⁵, Tso-Yu Chang², Maksim V. Plikus⁴, Sung-Jan Lin^{2,3}
¹Genome and System Biology Degree Program, National Taiwan University and Academia Sinica, Taipei, ²Department of Biomedical Engineering, National Taiwan University, Taipei, ³Department of Dermatology, National Taiwan University Hospital, Taipei, ⁴University of California Irvine, Irvine, California, ⁵Department of Biomedical Research, National Taiwan University Hospital, Taipei
- O03-06 [P13-10] Protective effects of a moisturizer on eccrine sweating impairment in the murine footpad by restoring skin blood flow by NO production**
○ Hironobu Ishimaru¹, Takaaki Doi^{1,2}, Yoshiko Mizukawa², Tetsuo Shiohara²
¹Kyoto R&D Center, Maruho Co., Ltd., Kyoto, ²Department of Dermatology, Kyorin University School of Medicine, Mitaka
- O03-07 [P13-11] Heated cigarette aerosols cause skin aging via activation of aryl hydrocarbon receptors**
○ Shinji Kano, Motoki Nakamura, Maki Yoshimitsu, Yuka Nojiri, Tetsuya Magara, Akimichi Morita
Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya
- O03-08 [P13-12] Tracing the origin of hair follicle stem cells**
○ Ritsuko Morita¹, Noriko Sanzen¹, Hiroko Sasaki¹, Tetsutaro Hayashi², Mana Umeda², Mika Yoshimura², Takaki Yamamoto^{3,4}, Tatsuo Shibata⁵, Takaya Abe⁵, Hiroshi Kiyonari⁵, Yasuhide Furuta^{5,6}, Itoshi Nikaido^{2,7,8}, Hironobu Fujiwara¹
¹Laboratory for Tissue Microenvironment, RIKEN Center for Biosystems Dynamics Research, Kobe, ²Laboratory for Bioinformatics Research, RIKEN Center for Biosystems Dynamics, Kobe, ³Nonequilibrium Physics of Living Matter RIKEN Hakubi Research Team, RIKEN Center for Biosystems Dynamics Research, Kobe, ⁴Laboratory for Physical Biology, RIKEN Center for Biosystems Dynamics Research, Kobe, ⁵Laboratory for Animal Resources and Genetic Engineering, RIKEN Center for Biosystems Dynamics Research, Kobe, ⁶Mouse Genetics Core Facility, Sloan Kettering Institute, Memorial Sloan Kettering Cancer Center, New York, ⁷Graduate School of Science and Technology, University of Tsukuba, Tsukuba, ⁸Functional Genome Informatics, Medical Research Institute, Tokyo Medical and Dental University, Tokyo
- O03-09 [P13-13] Estimation of severity of itch from success probability of itch-extinguishing 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
- O03-10 [P13-14] Spatial numerical difference of human dermal resident memory T cells**
○ Yoshinori Muto, Youichi Ogawa, Shinji Shimada, Tatsuyoshi Kawamura
The Department of Dermatology, University of Yamanashi, Chuo, Yamanashi
- O03-11 [P13-15] Hair-follicle-associated pluripotent (HAP) stem cells can differentiate into cardiomyocyte subtypes**
○ Nanako Takaoka^{1,2}, Michiko Yamane^{1,2}, Ayami Hasegawa^{1,2}, Koya Obara², Kyoumi Shirai², Yuko Hamada², Nobuko Arakawa², Ryoichi Aki², Robert M. Hoffman^{3,4}, Yasuyuki Amoh²
¹Department of Dermatology, Kitasato University Graduate School of Medical Science, Sagamihara, ²Department of Dermatology, Kitasato University School of Medicine, Sagamihara, ³AntiCancer, Incorporated, San Diego, ⁴Department of Surgery, University of California San Diego, San Diego
- O03-12 [P13-16] A single administration of Neurotrophin reduces dry skin-mechanical allodynia in mice**
○ Eriko Komiya¹, Kotaro Honda¹, Yui Toyosawa^{1,2}, Sumika Toyama¹, Go Kojima^{1,2}, Yayoi Kamata¹, Mitsutoshi Tominaga¹, Kenji Takamori^{1,2}
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Graduate School of Medicine, Juntendo University, Urayasu, ²Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu
- O03-13 [P13-17] Female Scalp Age-related Loss of Transcriptional and Proteomic Signature In Hair Follicle and Interfollicular Dermal Fibroblasts**
○ M. Julie Thornton¹, R. Williams¹, R. Baker¹, G.E. Westgate¹, A.D. Pawlus², J. Zguris²
¹Centre for Skin Sciences, Faculty of Life Sciences, University of Bradford, Bradford, ²Aveda, Hair Innovation & Technology, Minneapolis

3-minute presentation and discussion 6 (Carcinogenesis and Cancer)

16:10-17:10

Chairs: Sohshi Morimura, Yasuhiro Fujisawa

- O06-01 [P03-08] Intertumor and intratumor heterogeneity of PIK3CA hotspot mutations in extramammary Paget's disease**
 ○ Yudo Kusaba, Ikko Kajihara, Tselmeg Mijiddorj Myangat, Kenichiro Tanaka, Soichiro Sawamura, Hisashi Kanemaru, Katsunari Makino, Jun Aoi, Shinichi Masuguchi, Satoshi Fukushima
 The Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto
- O06-02 [P03-09] Nectin cell adhesion molecule 4 regulates angiogenesis and serves as a novel therapeutic target in angiosarcoma**
 ○ Yuka Tanaka, Takamichi Ito, Keiko Tanegashima, Gaku Tsuji, Makiko Nakahara, Takeshi Nakahara
 Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka
- O06-03 [P03-10] Large-scale retrospective analysis of a single-center study of bath-PUVA therapy for cutaneous T-cell lymphomas**
 ○ Akihiro Matsubara, Yuki Enomoto, Yoshifumi Kanayama, Mai Sakurai, Kan Torii, Kyoko Ikumi, Aya Yamamoto, Akimichi Morita
 The Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya
- O06-04 [P03-11] Effects of zinc supplementation in proliferation and migration of human squamous cell carcinoma cell lines in vitro**
 ○ Hiroshi Mitsui, Takahiro Sunaga, Tatsuyoshi Kawamura
 The Department of Dermatology, University of Yamanashi, Kofu
- O06-05 [P03-12] Potential Roles of Inducible Co-Stimulator and Inducible Co-Stimulator Ligand in Mycosis Fungoides and Sézary Syndrome**
 ○ Kenta Oka, Takuya Miyagawa, Hiraku Suga, Sayaka Shibata, Hiroaki Kamijo, Yuka Mizuno, Teruyoshi Hisamoto, Issei Omori, Hikari Boki, Naomi Takahashi-Shishido, Shinichi Sato
 Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo
- O06-06 [P03-13] Serum anti p53 autoantibodies in angiosarcoma**
 ○ Mihoko Kiyohara¹, Jun Aoi¹, Ikko Kajihara¹, Saki Otsuka¹, Tsuyoshi Kadomatsu², Satoshi Fukushima¹
¹Department of Dermatology, Faculty of Life Sciences, Kumamoto University, Kumamoto, ²Department of Molecular Genetics, Faculty of Life Sciences, Kumamoto University, Kumamoto
- O06-07 [P03-14] Scinderin in angiosarcoma cell lines and tissues - a potential therapeutic target**
 ○ Yuiko Yonekura¹, Osamu Imamura³, Kosuke Miyai², Kimi Kato², Fumihisa Kumazawa², Yuka Katsurada², Kimiya Sato², Hitoshi Tsuda², Takahiro Satoh¹
¹Department of Dermatology, National Defense Medical College of Saitama, Tokorozawa-shi, ²Department of Basic Pathology, National Defense Medical College, Saitama, Tokorozawa-shi, ³Dept. Biochemistry, National Defense Med. Col., Tokorozawa-shi
- O06-08 [P03-15] Loss of membrane expression of VE-cadherin and β -catenin was correlated with histological nodule formation in scalp angiosarcomas**
 ○ Hiroki Yamamoto, Miho Sashikawa-Kimura, Mayumi Komine, Md Razib Hossain, Tuba Musarrat Ansary, Mamitaro Ohtsuki
 Department of Dermatology, Jichi Medical University, Shimotsuke
- O06-09 [P03-16] Immunomodulatory and pro-angiogenic effects of plasminogen activating inhibitor-1 in tumor microenvironment of melanoma**
 ○ Airi Kobayashi, Taku Fujimura, Kentaro Ohuchi, Hitoshi Terui, Yumi Kambayashi, Yoshihide Asano
 The Department of Dermatology, University of Tohoku, Sendai
- O06-10 [P03-17] Withdrawn**
- O06-11 [P03-18] The prognostic influence of the microbiome on cutaneous squamous cell carcinoma**
 ○ Tomoko Tashiro, Yu Sawada, Natsuko Saito-Sasaki, Etsuko Okada
 Department of Dermatology, University of Occupational and Environmental Health, Kitakyusyu
- O06-12 [P03-19] Mucosal involvement in a patient with cutaneous CD30-positive T-cell lymphoproliferative disorders**
 ○ Koji Habe¹, Shinya Yamamoto¹, Ena Noda¹, Hajime Ishinaga², Koichi Ohshima³, Keiichi Yamanaka¹
¹Department of Dermatology, Mie University Graduate School of medicine, Tsu, ²Department of Otorhinolaryngology, Head and Neck Surgery, Mie University Graduate School of Medicine, Tsu, ³Department of Pathology, Kurume University School of Medicine, Kurume

Evening Seminar 4

17:25-18:25

Chair: Eiko Toichi

ES4 Setting treatment goals for psoriasis against the backdrop of cumulative life course impairment (CLCI)

○ Chris Baker^{1,2}

¹University of Melbourne, Melbourne, ²Director of Dermatology, St Vincent's Hospital Melbourne, Melbourne

Co-sponsored by AbbVie GK

December 3, 2022, Room A

Morning Seminar 1 "new era of itch"

8:00-9:00

Chairs: Manabu Fujimoto, Takeshi Tamaki

MS1-1 The role for sensory neuronal IL-31 receptor and STAT3 in inflammatory itch

○ Takaharu Okada
RIKEN Center for Integrative medical Sciences, Tokyo

MS1-2 Current understanding of characteristic of itch in systemic diseases

○ Hiroyuki Murota
Department of dermatology, Graduate school of medicine, Nagasaki university, Nagasaki

Co-sponsored by Mitsubishi Tanabe Pharma Corporation/Teikoku Seiyaku Co., Ltd.

Plenary Session II

9:10-10:40

Chairs: Manabu Fujimoto, Norito Katoh, John Common

II-1 [P13-01] The extracellular matrix fibulin-7 maintains epidermal stem cell population balance during skin aging

○ Aiko Sada^{1,2}, Erna Raja^{1,2}, Gopakumar Changarathil², Lalhaba Oinam², Yen X Ngo^{1,2}, Jun Tsunozumi³, Ryutaro Ishii², Takako Sasaki⁴, Kyoko Imanaka-Yoshida⁵, Hiromi Yanagisawa²
¹International Research Center for Medical Sciences (IRCMS), Kumamoto University, Kumamoto, ²Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, Tsukuba, ³Department of Pharmaceutical Sciences, Kyushu University of Health and Welfare, Miyazaki, ⁴Department of Biochemistry II, Oita University, Oita, ⁵Department of Pathology and Matrix Biology, Mie University Graduate School of Medicine, Mie

II-2 [P01-01] Maintenance of pathogenic CD4⁺ tissue-resident memory T cells by CD301b⁺ dendritic cells via CXCL16 in a mouse model of allergic dermatitis

○ Ryota Asahina, Fuuka Minami, Gyohei Egawa, Satoshi Nakamizo, Kenji Kabashima
Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto

II-3 [P02-01] Type XVII collagen-specific CD4⁺ T cell clones induce the phenotype of bullous pemphigoid in mice by producing Th2 cytokines

○ Norihiro Yoshimoto¹, Ken Muramatsu¹, Takamasu Ito¹, Zheng Miao¹, Ken Natsuga¹, Hiroaki Iwata¹, Yoshinori Hasegawa², Hiroshi Shimizu¹, Hideyuki Ujiie¹
¹Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo-shi, ²Department of Applied Genomics, Kazusa DNA Research Institute, Kisarazu-shi

II-4 [P05-01] Spontaneous dermatitis associated with increased sebaceous lipid production in *Tmem79* deficient mice

○ Ari Morimoto^{1,2}, Keitaro Fukuda^{1,2}, Yoshihiro Ito^{1,2}, Umi Tahara^{1,2}, Takashi Sasaki³, Aiko Shiohama¹, Hiroshi Kawasaki^{1,2}, Eiryu Kawakami^{4,5}, Tatsuro Naganuma^{6,7}, Makoto Arita^{6,7}, Hiroyuki Sasaki⁸, Haruhiko Koseki⁹, Takeshi Matsui^{1,2,10}, Masayuki Amagai^{1,2}
¹Department of Dermatology, Keio University School of Medicine, Tokyo, ²Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, Yokohama, ³Center for Supercentenarian Medical Research, Keio University School of Medicine, Tokyo, ⁴Advanced Data Science Project (ADSP), RIKEN Information R&D and Strategy Headquarters, Yokohama, ⁵Artificial Intelligence Medicine, Graduate School of Medicine, Chiba University, Chiba, ⁶Division of Physiological Chemistry and Metabolism, Faculty of Pharmacy, Keio University, Tokyo, ⁷Laboratory for Metabolomics, RIKEN Center for Integrative Medical Sciences, Yokohama, ⁸Occupational Therapy Department, School of Rehabilitation, Tokyo Professional University of Health Sciences, Tokyo, ⁹Laboratory for Developmental Genetics, RIKEN Center for Integrative Medical Sciences, Yokohama, ¹⁰Laboratory for Evolutionary Cell Biology of the Skin, School of Bioscience and Biotechnology, Tokyo University of Technology, Hachioji

II-5 [P07-01] JAK-inhibition rescues phenotype in a mouse model of cicatricial alopecia

○ Keiko Sakamoto¹, Shubham Goel², John T Seykora³, Tetsuya Honda¹, Keisuke Nagao²
¹Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, ²Dermatology Branch, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Bethesda, ³Department of Dermatology, Perelman School of Medicine, University of Pennsylvania, Philadelphia

II-6 [P02-02] Clonal CD4⁺ T cells generate CXCL13 without TCR pathway in the pathogenic tertiary lymphoid structures of chronic blisters in pemphigus

○ Ayeong Lee¹, Dawoon Han¹, Taehee Kim¹, Ji Young Choi¹, Mi Yeon Cho¹, Ahreum Song¹, Tae-Gyun Kim², Doyoung Kim², Soo-Chan Kim³, Jong Hoon Kim¹
¹Department of Dermatology and Cutaneous Biology Research Institute, Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, ²Department of Dermatology and Cutaneous Biology Research Institute, Severance Hospital, Yonsei University College of Medicine, Seoul, ³Department of Dermatology and Cutaneous Biology Research Institute, Yongin Severance Hospital, Yonsei University College of Medicine, Seoul

Tanioku Kihei Memorial Lecture

10:45-11:15

Chair: Shinichi Sato

TML Pemphigus in the 21st Century: Progress and Promise
○ Russell P. Hall III
Dermatology, Duke University, School of Medicine, Durham, NC

JSID Award Lecture

11:15-11:45

Chair: Kenji Kabashima

JAL Immunoregulatory mechanisms and new players in autoimmune skin diseases
○ Hayato Takahashi
Department of Dermatology, Keio University School of Medicine, Tokyo

JSID Kisaragi Award

11:45-11:50

Chair: Kenji Kabashima

JKA Great experiences in Kisaragi Juku and our recent discovery of the epidermal quality control mechanism
○ Tomoki Kato^{1,2}
¹Research Division, CHUGAI PHARMACEUTICAL CO., LTD., ²Department of Stem Cell Biology, Medical Research Institute, Tokyo Medical and Dental University, Tokyo

Sponsored Symposium

"Applications of Microdevices in the New Era Medicine"

12:00-13:00

Chairs: Shinichi Sato, Ayumi Yoshizaki

SSY1 How Microfluidic Devices Can Contribute to Medicine?
○ Manabu Tokeshi
Division of Applied Chemistry, Faculty of Engineering, Hokkaido University, Sapporo

SSY2 New Era in Science Discovered by Microbial Single Cell Analysis
○ Haruko Takeyama^{1,2}
¹Department of Life Science and Medical Bioscience, Waseda University, Tokyo, ²Computational Bio Big-Data Open Innovation Laboratory, AIST-Waseda University, Tokyo

Co-sponsored by NOV division, TOKIWA Pharmaceutical Co., Ltd.

The 23rd Maruho Research Award Presentations by award winners and award ceremony

13:10-14:10

Chairs: Masayuki Amagai, Shinichi Sato, Kenji Kabashima

MRA1 TIGIT/CD155 axis mediates resistance to immunotherapy in patients with melanoma with the inflamed tumor microenvironment

○ Shusuke Kawashima^{1,2}, Takashi Inozume^{1,2,3}, Masahito Kawazu^{2,4}, Toshihide Ueno⁴, Akiko Honobe-Tabuchi¹, Takehiro Ohnuma^{3,5}, Tatsuyoshi Kawamura³, Yoshiyasu Umeda⁶, Yasuhiro Nakamura⁶, Yukiko Kiniwa⁷, Osamu Yamasaki⁸, Satoshi Fukushima⁵, Hiroyoshi Nishikawa⁹, Hiroyuki Matsue¹, Yosuke Togashi^{12,9,10}

¹Department of Dermatology, Chiba University Graduate School of Medicine, Chiba, ²Chiba Cancer Center Research Institute, Chiba, ³Department of Dermatology, University of Yamanashi, ⁴Division of Cellular Signaling, Group for Cancer Development and Progression, National Cancer Center Research Institute, Tokyo, ⁵Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, ⁶Department of Skin Oncology/Dermatology, Saitama Medical University International Medical Center, Saitama, ⁷Department of Dermatology, Shinshu University School of Medicine, Saitama, ⁸Department of Dermatology, Shimane University School of Medicine, Shimane, ⁹Division of Cancer Immunology, Research Institute/Exploratory Oncology Research and Clinical Trial Center (EPOC), National Cancer Center, Tokyo, ¹⁰Department of Tumor Microenvironment, Faculty of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University, Okayama

MRA2 Peripheral tolerance by Treg via constraining OX40 signal in autoreactive T cells against desmoglein 3, a target antigen in pemphigus

○ Hisato Iriki¹, Hayato Takahashi¹, Naoko Wada¹, Hisashi Nomura¹, Miho Mukai¹, Aki Kamata¹, Hiromi Ito¹, Jun Yamagami¹, Takeshi Matsui^{2,3}, Yutaka Kurebayashi⁴, Setsuko Mise-Omata⁵, Hiroshi Nishimasu^{6,7}, Osamu Nureki⁶, Akihiko Yoshimura⁵, Shohei Hori⁸, Masayuki Amagai^{1,2}

¹Department of Dermatology, Keio University School of Medicine, Tokyo, ²Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, Yokohama City, ³Laboratory for Evolutionary Cell Biology of the Skin School of Bioscience and Biotechnology, Tokyo University of Technology, Tokyo, ⁴Department of Pathology, Keio University School of Medicine, Tokyo, ⁵Department of Microbiology and Immunology, Keio University School of Medicine, Tokyo, ⁶Department of Biological Science, Graduate School of Science, The University of Tokyo, Tokyo, ⁷Structural Biology Division, Research Center for Advanced Science and Technology, The University of Tokyo, Tokyo, ⁸Graduate School of Pharmaceutical Sciences, The University of Tokyo, Tokyo

MRA3 Prolonged high-intensity exercise induces fluctuating immune responses to herpes simplex virus infection via glucocorticoids

○ Akimasa Adachi^{1,2}, Tetsuya Honda^{1,3}, Teruki Dainichi¹, Gyohei Egawa¹, Yosuke Yamamoto¹, Takashi Nomura¹, Masamitsu Maekawa⁴, Nariyasu Mano⁵, Naoto Koyanagi^{5,6}, Yasushi Kawaguchi^{5,6}, Toshiaki Ohteki⁷, Takashi Nagasawa⁸, Koichi Ikuta⁹, Akihiko Kitoh¹, Kenji Kabashima^{1,10}

¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Department of Dermatology, Tokyo Metropolitan Bokutoh Hospital, Tokyo, ³Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, ⁴Department of Pharmaceutical Sciences, Tohoku University Hospital, Sendai, ⁵Division of Molecular Virology, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, Tokyo, ⁶Department of Infectious Disease Control, International Research Center for Infectious Diseases, The Institute of Medical Science, The University of Tokyo, Tokyo, ⁷Department of Biodefense Research, Medical Research Institute, Tokyo Medical and Dental University (TMDU), Tokyo, ⁸Laboratory of Stem Cell Biology and Developmental Immunology, Graduate School of Frontier Biosciences and Graduate School of Medicine, Osaka University, Osaka, ⁹Laboratory of Immune Regulation, Department of Virus Research, Institute for Frontier Life and Medical Sciences, Kyoto University, Kyoto, ¹⁰Singapore Immunology Network (SigN) and Skin Research Institute of Singapore (SRIS), Technology and Research (A*STAR), Biopolis

MRA4 Safety and efficacy of rituximab in systemic sclerosis (DESIREs): a double-blind, investigator-initiated, randomised, placebo-controlled trial

○ Satoshi Ebata¹, Ayumi Yoshizaki¹, Koji Oba², Kosuke Kashiwabara³, Keiko Ueda³, Yukari Uemura^{3,4}, Takeyuki Watadani⁵, Takemichi Fukasawa¹, Shunsuke Miura¹, Asako Yoshizaki-Ogawa¹, Yoshihide Asano¹, Naoko Okiyama⁶, Masanari Kodera⁷, Minoru Hasegawa⁸, Shinichi Sato¹

¹Department of Dermatology, The University of Tokyo, Graduate School of Medicine, Tokyo, ²Department of Biostatistics, School of Public Health, Graduate School of Medicine, and Interfaculty Initiative in Information Studies, The University of Tokyo, Tokyo, ³Clinical Research Support Center, The Tokyo University Hospital, Tokyo, ⁴Biostatistics Section, Department of Data Science, Center for Clinical Sciences, National Center for Global Health and Medicine, Tokyo, ⁵Department of Diagnostic Radiology, The University of Tokyo, Graduate School of Medicine, Tokyo, ⁶Department of Dermatology, Faculty of Medicine, University of Tsukuba, Ibaraki, ⁷Department of Dermatology, Japan Community Health Care Organization Chukyo Hospital, Aichi, ⁸Department of Dermatology, Division of Medicine, Faculty of Medical Sciences, University of Fukui, Fukui

Co-sponsored by Maruho Co., Ltd.

Concurrent Oral Session 5 (Auto-Immunity-I)

14:20-15:44

Chairs: Hideyuki Ujiie, Sei-Ichiro Motegi

C05-01 [P02-04] Single cell protein analysis of autoantigen-reactive B cells in the autoimmune disease and the murine model

○ Takemichi Fukasawa, Satoshi Ebata, Asako Yoshizaki, Shinichi Sato, Ayumi Yoshizaki
The Department of Dermatology, University of Tokyo, Tokyo

C05-02 [P02-05] UVB-induced type-I interferon in keratinocytes is associated with infiltration of CXCL13+ T peripheral helper cells in dermatomyositis skin

○ Khashayar Afshari¹, Nazgol-Sadat Haddadi¹, Yuqing Wang^{2,3}, Jillian Richmond¹, Ruth Ann Vleugels⁴, Manuel Garber^{2,3}, Mehdi Rashighi¹

¹Department of Dermatology, UMass Chan Medical School, Worcester, ²Program in Bioinformatics and Integrative Biology, UMass Chan Medical School, Worcester, ³Department of Systems Biology, UMass Chan Medical School, Worcester, ⁴Department of Dermatology, Harvard Medical School, Boston

C05-03 [P02-06] Impact of anti-transcobalamin receptor antibodies on cutaneous arteritis

○ Kazuki M. Matsuda¹, Hirohito Kotani¹, Kei Yamaguchi^{2,3}, Taishi Okumura^{2,3}, Eriko Fukuda⁴, Masanori Kono⁵, Teruyoshi Hisamoto¹, Ruriko Kawanabe¹, Yuta Norimatsu¹, Ai Kuzumi¹, Maiko Fukayama¹, Takemichi Fukasawa¹, Satoshi Ebata¹, Asako Yoshizaki-Ogawa¹, Tomohisa Okamura³, Hirofumi Shoda³, Keishi Fujio³, Naoki Goshima^{2,3}, Shinichi Sato¹, Ayumi Yoshizaki¹

¹The Department of Dermatology, The University of Tokyo Graduate School of Medicine, Tokyo, ²Molecular Profiling Research Center for Drug Discovery, National Institute of Advanced Industrial Science and Technology, Tokyo, ³ProteoBridge corporation, Tokyo, ⁴Cellular and Molecular Biotechnology Research Institute, National Institute of Advanced Industrial Science and Technology, Ibaraki, ⁵Department of Allergy and Rheumatology, The University of Tokyo Graduate School of Medicine, Tokyo

- C05-04 [P02-07] Autoimmunity against melanoma differentiation-associated protein 5 induces interstitial lung disease in mice**
○ Yuki Ichimura^{1,2}, Risa Konishi^{1,2}, Toshifumi Nomura², Manabu Fujimoto³, Naoko Okiyama¹
¹Department of Dermatology, Graduate School of Medicine and Dental Sciences, Tokyo Medical and Dental University, Tokyo, ²Department of Dermatology, Faculty of Medicine, University of Tsukuba, Tsukuba, ³Department of Dermatology, Course of Integrated Medicine, Graduate School of Medicine, Osaka University, Osaka
- C05-05 [P02-08] Immunomodulating role of the JAKs inhibitor tofacitinib in a mouse model of bleomycin-induced scleroderma**
○ Takashi Matsushita, Wah Wah Aung, Motoki Horii, Kie Mizumaki, Miyu Kano
The Department of Dermatology, Kanazawa University, Kanazawa
- C05-06 [P02-09] Antifibrotic effect of regulating Th17 and regulatory T cell imbalance and intestinal microbiota changes in a systemic sclerosis mouse model**
○ Akiko Sekiguchi¹, Chikako Shimokawa², Tamotsu Kato³, Hajime Hisaeda², Hiroshi Ohno³, Sei-ichiro Motegi¹
¹Department of dermatology, Graduate School of Medicine, Gunma University, Maebashi, ²Department of parasitology, National Institute of Infectious Diseases, Tokyo, ³Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences, Yokohama
- C05-07 [P02-10] A novel ELISA which uses an isolated native autoantigen complex to detect mucous membrane pemphigoid autoantibodies**
○ Shoko Mai¹, Kentaro Izumi¹, Yosuke Mai¹, Ken Natsuga¹, Norito Ishii², Daisuke Sawamura³, Franziska Schauer⁴, Dimitra Kiritsi³, Hideyuki Ujite¹
¹Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, ²Department of Dermatology, Kurume University School of Medicine, Kurume, ³Department of Dermatology, Hirosaki University Graduate School of Medicine, Hirosaki, ⁴Department of Dermatology, Faculty of Medicine, Medical Center-University of Freiburg, Freiburg

Symposium 2

"Recent Advancement in Autoimmunity"

15:55-17:55

Chairs: Takashi Matsushita, Hayato Takahashi

- SY2-1 The role of B cells in autoimmune skin diseases**
○ Jean-David Bouaziz^{1,2}
¹Department of Dermatology and Skin Research Center, Saint Louis Hospital, Paris, ²Research Unit, Skin Immunity and Inflammation team, French Institute of Health, Paris
- SY2-2 Pathological function of proteases in pemphigoid diseases**
○ Sho Hiroyasu
The Department of Dermatology, Osaka Metropolitan University Graduate School of Medicine, Osaka
- SY2-3 Role of Th cells in autoimmune diseases of the skin**
○ Kamran Ghoreschi
Department of Dermatology, Venereology and Allergology, Charité-Universitätsmedizin Berlin, Corporate Member of Freie Universität Berlin, Humboldt-Universität zu Berlin, Berlin Institute of Health, Berlin
- SY2-4 Development of novel immuno-regulatory methods using designer exosomes**
○ Rikinari Hanayama
WPI Nano Life Science Institute, Kanazawa University, Kanazawa

Evening Seminar 5

"Management of Alopecia Areata: Diagnosis, Pathogenesis and Treatment"

18:10-19:10

Chairs: Yoshihide Asano, Rie Ueki

- ES5-1 Diagnostic and therapeutic strategies for alopecia areata**
○ Misaki Kinoshita-Ise
Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo
- ES5-2 Alopecia areata pathogenesis and treatment based on the latest research**
○ Taisuke Ito
Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu

Co-sponsored by Eli Lilly Japan K.K.

December 3, 2022, Room B

Morning Seminar 2

"Novel and various effects of apremilast on psoriasis"

8:00-9:00

Chairs: Akimichi Morita, Koichiro Nakamura

MS2-1 Psoriasis and glucose metabolism - Is cAMP involved? -

○ Kyoko Ikumi

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

MS2-2 Phosphodiesterase-4 inhibitors affect the expression of proinflammatory mediators by epidermal keratinocytes via cAMP-independent pathway

○ Hideki Nakajima

The Department of Dermatology, Kochi Medical School, Kochi University, Nankoku

Co-sponsored by Medical Affairs, Amgen K.K.

Luncheon Seminar 5

12:00-13:00

Chair: Yoshiki Tokura

LS5 Demystifying the molecular mechanisms upon early biologic intervention for psoriasis control

○ Frank Kolbinger

Novartis Pharma AG, Basel

Co-sponsored by Novartis Pharma K.K. Medical Affairs Division/Maruho Co., Ltd. Medical Affairs Dept.

Concurrent Oral Session 6

(Pigmentation and Melanoma-II/Genetic Disease, Gene Regulation and Gene Therapy)

14:20-15:44

Chairs: Yukinori Okada, Rei Watanabe

C06-01 [P12-10] Identification of developmental dysfunction of basal keratinocytes in vitiligo lesions induced by anti-PD1 therapy using single-cell RNA-seq

○ Toshihiro Masuda^{1,2}, Satoshi Nakamizo², Saeko Nakajima², Kenji Kabashima²¹Research Department, Maruho Co., Ltd., Kyoto, ²Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto

C06-02 [P12-11] EGF signaling regulates melanogenesis via elevating SCF and ET-1 expression in keratinocytes

○ Ping Xu^{1,4}, Lingli Yang¹, Yasutaka Kuroda^{1,2}, Sylvia Lai¹, Huimin Zhang⁴, Daisuke Tsuruta³, Ichiro Katayama¹¹Department of Pigmentation Research and Therapeutics, Graduate School of Medicine, Osaka Metropolitan University, Osaka,²Biological Science Laboratories, Kao Corporation, Kanagawa, ³Department of dermatology, Graduate School of Medicine, OsakaMetropolitan University, Osaka, ⁴Department of Dermatology, Shuguang Hospital affiliated to Shanghai University of Traditional Chinese Medicine, Shanghai

C06-03 [P12-12] Induction of tertiary lymphoid structures in a mouse melanoma model under a combination of chemokines and anti-PD-1 inhibitors

○ Maki Yoshimitsu¹, Motoki Nakamura¹, Shinji Kano¹, Tetsuya Magara², Yuka Nojiri¹, Hiroshi Kato¹, Akimichi Morita¹¹Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya city,²Northern Mie Medical Center Inabe General Hospital, Inabe city

C06-04 [P06-02] Autoinflammatory keratinization disease with hepatitis/autism reveals roles for JAK1 hyperactivity

○ Takuya Takeichi¹, John Y. W. Lee², Yusuke Okuno^{3,4,5}, Yuki Miyasaka⁶, Yuya Murase¹, Takenori Yoshikawa¹, Kana Tanahashi¹, Emi Nishida⁷, Tatsuya Okamoto⁸, Komei Ito⁹, Yoshinao Muro⁹, Kazumitsu Sugiura¹⁰, Tamio Ohno⁶, John A. McGrath⁷, Masashi Akiyama¹¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, ²St Johns Institute of Dermatology, Kings College London (Guys Campus), London, ³Medical Genomics Center, Nagoya University Hospital, Nagoya, ⁴Department of Pediatrics,Nagoya University Graduate School of Medicine, Nagoya, ⁵Department of Virology, Nagoya City University Graduate School ofMedical Sciences, Nagoya, ⁶Division of Experimental Animals, Nagoya University Graduate School of Medicine, Nagoya,⁷Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya,⁸Division of Pediatric Surgery, Department of Surgery, Graduate School of Medicine, Kyoto University, Kyoto, ⁹Department ofAllergy, Aichi Childrens Health and Medical Center, Obu, ¹⁰Department of Dermatology, Fujita Health University School of Medicine, Toyoake

- O06-05**
[P06-03] **Rapid establishment of model mice for recessive dystrophic epidermolysis bullosa with patient-derived mutations**
○ Takashi Shimbo¹, Satoshi Takaki^{2,3}, Kentaro Ikegami³, Katsuto Tamai²
¹StemRIM Institute of Regeneration-Inducing Medicine, Osaka University, Osaka, ²Department of Stem Cell Therapy Science, Graduate School of Medicine, Osaka University, Osaka, ³StemRIM Inc, Osaka
- O06-06**
[P06-04] **Readthrough effect of gentamicin components on a nonsense mutation in *SERPINB7***
○ Masae Takeda¹, Toshinari Miyauchi¹, Shotaro Suzuki¹, Jin Teng Peh¹, Hideyuki Ujiie¹, Toshifumi Nomura^{1,2}
¹Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, ²Department of Dermatology, Faculty of Medicine, University of Tsukuba, Tsukuba
- O06-07**
[P06-05] **Usefulness of mRNA Obtained from Peripheral Blood Mononuclear Cells to Analyze Consequences of Mutations in Epidermolysis Bullosa**
○ Eijiro Akasaka, Hajime Nakano, Daisuke Sawamura
Department of Dermatology, Hirosaki University Graduate School of Medicine, Hirosaki

3-minute presentation and discussion 7 (Pharmacology and Drug Development -II/Patient-Targeted Research)

15:55-16:55

Chairs: Shin Morizane, Yutaka Shimomura

- O07-01**
[P10-14] **Melanin suppressing effect of ferulic acid from rice bran**
○ Tomoki Oguro, Shiori Nakagawa, Toshio Nakamura, Takuo Tsuno
Planning & Development Dept., TSUNO RICE FINE CHEMICALS CO., LTD., Wakayama
- O07-02**
[P10-15] **Laser-mediated nanoparticle delivery to target siRNA for attenuating psoriasisform lesion**
○ Jia-You Fang¹, Woan-Ruoh Lee², Zih-Chan Lin¹, Chien-Yu Lin¹
¹Pharmaceutics Laboratory, Chang Gung University, Taoyuan, ²Graduate Institute of Medical Sciences, Taipei Medical University, Taipei
- O07-03**
[P10-16] **Rice bran extract promotes hair growth and inhibits hair loss**
○ Yuho Yamauchi, Toshio Nakamura, Takuo Tsuno
Planning & Development Dept., TSUNO RICE FINE CHEMICALS CO., LTD., Wakayama
- O07-04**
[P10-17] **Indonesian Brown Algae *Sargassum crassifolium* ethanolic extract accelerated cutaneous wound healing in incision wound-mice model**
○ Anggit L. Sunarwidhi¹, Apriliana Wahyuni¹, Hafifah Djaese¹, Ari Hernawan², Eka S. Prasedya³, Haji Sunarpi³, Ni Wayan R. Martyasari², Yogi Ambana³, Sri Widyastuti⁴
¹Department of Pharmacy, Faculty of Medicine, University of Mataram, Mataram, ²Department of Informatics Technology, Faculty of Engineering, University of Mataram, Mataram, ³Bioscience and Biotechnology Research Centre, Faculty of Mathematics and Natural Sciences, University of Mataram, Mataram, ⁴Faculty of Food Technology and Agroindustry, University of Mataram, Mataram
- O07-05**
[P09-06] **Whole body irradiation is effective against refractory alopecia areata**
○ Aya Yamamoto¹, Takuya Furuhashi², Mai Sakurai¹, Yuki Enomoto¹, Kyoko Ikumi¹, Akimichi Morita¹
¹Department of Geriatric and Environmental Dermatology, Nagoya City University, Nagoya, ²Kasugai municipal hospital, Kasugai
- O07-06**
[P09-07] **Real-world effectiveness and safety of upadacitinib in Japanese patients with atopic dermatitis: Two-center retrospective study**
○ Keiji Kosaka, Akihiko Uchiyama, Yuta Inoue, Mai Ishikawa, Sei-ichiro Motegi
The Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi
- O07-07**
[P09-08] **Axial involvement in palmoplantar pustulosis**
○ Kyoko Ikumi, Akimichi Morita
Department of Geriatric and Environmental Dermatology, Nagoya City University, Graduate School of Medical Sciences, Nagoya
- O07-08**
[P09-09] **Combination of TARC and soluble OX40 in the diagnosis of DIHS/DRESS**
○ Yasuhiro Mitsui, Satoru Shinkuma, Yuki Nakamura-Nishimura, Rie Ommori, Kohei Ogawa, Fumi Miyagawa, Hideo Asada
Department of Dermatology, Nara Medical University School of Medicine, Kashihara
- O07-09**
[P09-10] **Itch sensitization (punctate hyperknesis) in prurigo nodularis and postherpetic itch: implications of reduced intraepidermal nerve fibers**
○ Takashi Hashimoto, Satoshi Okuno, Manami Okuzawa, Takahiro Satoh
Department of Dermatology, National Defense Medical College, Tokorozawa
- O07-10**
[P09-11] **The salt intake in psoriasis patients**
○ Ayaki Matsumoto, Kozo Nakai, Daisuke Tsuruta
The Department of Dermatology, Metropolitan University of Osaka, Osaka

- O07-11 [P09-12] Patients' assessment of dupilumab self-injection for atopic dermatitis: a single-center questionnaire study**
 ○ Makoto Ito, Masahiro Kamata, Hideaki Uchida, Mayumi Nagata, Saki Fukaya, Kotaro Hayashi, Atsuko Fukuyasu, Takamitsu Tanaka, Takeko Ishikawa, Yayoi Tada
 The Department of Dermatology, Teikyo University School of Medicine, Tokyo
- O07-12 [P09-13] Comparison of the effects of a topical serum with Hydroxypinacolone retinoate to one treatment of a microablative laser treatment**
 ○ Kristine Schmalenberg¹, Lucas Kruger¹, Uma Santhanam¹, David Orentreich², Jodi Logerfo²
¹Global Clinical and Consumer Sciences, Estee Lauder Companies, Melville, New York, ²Orentreich Medical Group, New York

3-minute presentation and discussion 10 (Adaptive Immunity)

16:55-17:55

Chairs: Hidehisa Saeki, Hironobu Fujiwara

- O10-01 [P01-08] Oral tolerance inhibits DTH in the sensitization phase by Treg-mediated suppression of DC functions in skin dLNs**
 ○ Arisa Akagi¹, Rintaro Shibuya¹, Akihiko Kitoh², Sho Hanakawa², Kenji Kabashima^{1,2}
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Singapore Immunology Network and Skin Research Institute of Singapore, Agency for Science, Technology and Research (A*STAR)
- O10-02 [P01-09] CD101 defines human epidermal, but not dermal, resident memory regulatory T cells**
 ○ Youichi Ogawa, Takuya Sato, Shinji Shimada, Tatsuyoshi Kawamura
 The Department of Dermatology, University of Yamanashi, Yamanashi
- O10-03 [P01-10] Human epidermal CD8⁺ resident memory T cells express TLR5**
 ○ Takuya Sato, Youichi Ogawa, Shinji Shimada, Tatsuyoshi Kawamura
 Department of Dermatology, University of Yamanashi, Yamanashi
- O10-04 [P01-11] IL-31 induces pruritus and anxiety-like behavior in mice**
 ○ Yoichiro Urata¹, Yuki Honda Keith², Akira Honryo¹, Satoshi Nakamizo¹, Gyohei Egawa¹, Tetsuya Honda³, Toshiya Miyake¹, Kenji Kabashima¹
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Immunology Division, Garvan Institute of Medical Research, Sydney, ³Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu
- O10-05 [P01-12] Dendritic cell-intrinsic pellino-1 limits T helper 17 cell immune response by intradermal Candida albicans skin infection**
 ○ Jeyun Park¹, Sung Hee Kim¹, Lihua Che^{1,2}, Xinjie Tong¹, Joohee Lee¹, Won Seok Roh¹, Min-Geol Lee¹, Tae-Gyun Kim^{1,3}
¹Department of Dermatology, Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, ²Brain Korea 21 PLUS Project for Medical Science, Yonsei University College of Medicine, Seoul, ³Institute for Immunology and Immunological Diseases, Yonsei University College of Medicine, Seoul
- O10-06 [P01-13] IL-33 enhances ACE2 expression on epidermal keratinocytes in atopic dermatitis: a plausible issue of SARS-CoV2 transmission in inflamed skin**
 ○ Chien-Hui Hong^{1,2}, En-Cheng Lin^{1,2}
¹Department of Dermatology, Kaohsiung Veterans General Hospital, Kaohsiung, ²Department of Dermatology, National Yang Ming Chiao Tung University, Taipei
- O10-07 [P01-14] Transcription factor EHF is involved in differentiation and function of Langerhans cells**
 ○ Nobuhiro Nakano¹, Jiro Kitaura¹, Ko Okumura¹, Hideoki Ogawa^{1,2}, Shigaku Ikeda^{1,2}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo
- O10-08 [P01-15] IL-4 Receptor α Blockade Attenuates Experimental Allergic Conjunctivitis Evoked by Skin Inflammation**
 ○ Hongwei Han¹, Kai-Ting C. Shade¹, Joseph Gans¹, Kazuhiko Arima², Alexandra Hicks¹
¹Sanofi, Cambridge, MA, ²Sanofi Medical Operations, Sanofi K.K., Tokyo
- O10-09 [P01-16] IL-9 contributes to DNFB-induced contact hypersensitivity**
 ○ Shiori Kamiya^{1,2}, Ippei Ikegami², Ryuta Kamekura², Shingo Ichimiya², Hisashi Uhara¹
¹The Department of Dermatology, Sapporo Medical University School of Medicine, Sapporo, ²The Department of Human Immunology, Research Institute for Frontier Medicine, Sapporo Medical University School of Medicine, Sapporo
- O10-10 [P01-17] The suppressive effect of kaempferol on atopic dermatitis-like skin inflammation in mice model**
 ○ Bolor Nasanbat, Akihiko Uchiyama, Syahla N. Amalia, Yuta Inoue, Yoko Yokoyama, Sachiko Ogino, Ryoko Torii, Mari Hosoi, Sei-ichiro Motegi
 The Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi

O10-11 Clinical investigation of clinical and histological study in patients with COVID-19 vaccine associated alopecia

[P01-18]

○ Taiyo Hitaka, Yu Sawada, Yumiko Sakuragi, Natsuko Saito-Sasaki, Etsuko Okada
Department of Dermatology, University of Occupational and Environmental Health, Kitakyushu

O10-12 Effects of psychological stressors on the pathogenesis of atopic dermatitis

[P01-19]

○ Qiaofeng Zhao¹, Mitsutoshi Tominaga¹, Sumika Toyama¹, 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

Evening Seminar 6

"Practice of psoriasis treatment from pathological condition"

18:10-19:10

Chairs: Yuko Higashi, Hidehisa Saeki

ES6-1 Exploring the Links between Obesity and Psoriasis

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

ES6-2 Diagnosis and management of psoriatic arthritis in real-world clinical practice

○ Megumi Kishimoto
Department of Dermatology, Jichi Medical University, Shimotsuke

Co-sponsored by UCB Japan Co. Ltd.

December 3, 2022, Room C

Morning Seminar 3

"Current Topics in atopic dermatitis"

8:00-9:00

Chairs: Nobukazu Hayashi, Yohei Iwata

- MS3-1** **Current topics in the pathogenesis of atopic dermatitis**
 ○ Hanako Ohmatsu
 Department of Dermatology, National Hospital Organization Sagamihara National Hospital, Sagamihara
- MS3-2** **Increasing therapeutic options and understanding of atopic dermatitis**
 ○ Tetsuya Honda
 Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu

Co-sponsored by Otsuka Pharmaceutical Co., Ltd.

Luncheon Seminar 6

"Skin Barrier Integrity: Inflammatory mediators and factors affecting barrier function and recovery"

12:00-13:00

Chairs: Yoshihiro Kuwano, Mari Kishibe

- LS6-1** **Multiple layers of skin barrier to external stimuli**
 ○ Kenji Kabashima
 Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto
- LS6-2** **The anti-inflammatory and barrier enhancing properties of *Macrocystis Pyrifera* ferment**
 ○ Jaime Emmetsberger
 La Mer's Max Huber Research Labs, Melville, NY

Co-sponsored by ELC JAPAN K.K.

Concurrent Oral Session 7

(Adaptive Immunity-II/Patient-Targeted Research)

14:20-15:44

Chairs: Hiroyuki Murota, Saeko Nakajima

- C07-01** **T2R38 is expressed on skin-infiltrating lymphocytes and modulates lymphocyte migration**
[P01-05]
 ○ Moe Sakakibara¹, Hayakazu Sumida¹, Keisuke Yanagida², Sosuke Miyasato³, Motonao Nakamura³, Shinichi Sato¹
¹The Department of Dermatology, University of Tokyo, Tokyo, ²Department of Lipid Signaling, National Center for Global Health and Medicine, Tokyo, ³Department of Bioscience, Graduate School of Life Science, Okayama University of Science, Okayama
- C07-02** **Tumor necrosis factor-alpha plays pivotal role in both the induction and maintenance of murine GVHD-like dermatitis model**
[P01-06]
 ○ Toshiya Miyake, Gyohei Egawa, Satoshi Nakamizo, Kenji Kabashima
 Department of Dermatology, Graduate School of Medicine, Kyoto University, Kyoto
- C07-03** **Characteristic keratinocyte death in Stevens-Johnson syndrome/toxic epidermal necrolysis induced by immune checkpoint inhibitors**
[P01-07]
 ○ Haruna Kimura, Akito Hasegawa, Riichi Abe
 The Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata
- C07-04** **Identification and functional characterization of skin resident memory T cells in DIHS/DRESS**
[P09-02]
 ○ Toshiharu Fujiyama¹, Hideo Hashizume², Kazuo Kurihara¹, Reiko Kageyama¹, Yoshiki Tokura³, Tetsuya Honda¹
¹Hamamatsu University School of Medicine, Hamamatsu, ²Iwata City Hospital, Iwata city, ³Chutoen General Medical Center, Kakegawa city
- C07-05** **Artificial intelligence-assisted assessment system for identifying treatment-refractory atopic dermatitis lesions**
[P09-03]
 ○ Kenta Nakamoto¹, Yuki Hayashida¹, Yumiko Asanuma¹, Tetsuko Sato¹, Yuma Miyaji², Daisuke Katayama², Tetsushi Koide², Yumi Aoyama¹
¹Dermatology, Kawasaki Medical School, Kurashiki, ²Research Institute for Nanodevices, Hiroshima University, Higashihiroshima

- C07-06 [P09-04] A serum N-linked glycan profile as a candidate biomarker for clinical management of psoriasis**
○ Kentaro Nishimura¹, Noritaka Oyama¹, Takumi Hasegawa¹, Hiroshi Kasamatsu¹, Takenao Chino¹, Takahiro Tokunaga², Kiyoshi Higashi³, Koichi Saito³, Keita Yamada⁴, Minoru Hasegawa¹
¹Department of Dermatology, Faculty of Medical Sciences, University of Fukui, Fukui, ²Medical Research Support Center, University of Fukui Hospital, Fukui, ³Advanced Materials Development Laboratory, Sumitomo Chemical Co., Ltd., Osaka, ⁴Laboratory of Toxicology, Osaka Ohtani University, Tondabayashi
- C07-07 [P09-05] Analysis of circuit clotting development during therapeutic plasmapheresis in bullous pemphigoid**
○ Tatsuro Sugai¹, Kentaro Izumi¹, Yosuke Mai¹, Norihiro Yoshimoto¹, Toshinari Miyauchi¹, Yuki Chiba², Keisuke Takesada², Daigo Nakazawa³, Tatsu Tanabe³, Kiyohiko Hotta⁴, Ikuko Iwata⁵, Ichiro Yabe⁵, Hideyuki Ujiiie¹
¹Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, ²Hokkaido University Hospital Medical Engineering Center, Sapporo, ³Department of Rheumatology, Endocrinology, and Nephrology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, ⁴Department of Renal and Genitourinary surgery, Graduate School of Medicine, Hokkaido University, Sapporo, ⁵Department of Neurology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo

3-minute presentation and discussion 8 (Auto-Immunity -I)

15:55-16:55

Chairs: Yukie Yamaguchi, Kazumitsu Sugiura

- O08-01 [P02-15] Adipose derived regenerative cells improve fibrosis in systemic sclerosis model mice by stimulating IL-10 production in B lymphocytes**
○ Hirohito Kotani, Kazuki M. Matsuda, Teruyoshi Hisamoto, Ruriko Kawanabe, Yurika Osuji, Ai Kuzumi, Takemichi Fukasawa, Satoshi Ebata, Asako Yoshizaki-Ogawa, Shinichi Sato, Ayumi Yoshizaki
The Department of Dermatology, University of Tokyo, Tokyo
- O08-02 [P02-16] Prediction model for rituximab effect on modified Rodnan skin score in systemic sclerosis: a machine learning analysis of the DESIRES trial**
○ Satoshi Ebata¹, Koji Oba², Kosuke Kashiwabara³, Keiko Ueda³, Yukari Uemura^{3,4}, Takeyuki Watadani⁵, Takemichi Fukasawa¹, Shunsuke Miura¹, Asako Yoshizaki-Ogawa¹, Shinichi Sato¹, Ayumi Yoshizaki¹
¹Department of Dermatology, The University of Tokyo, Graduate School of Medicine, Tokyo, ²Department of Biostatistics, School of Public Health, Graduate School of Medicine, and Interfaculty Initiative in Information Studies, The University of Tokyo, Tokyo, ³Clinical Research Support Center, The Tokyo University Hospital, Tokyo, ⁴Biostatistics Section, Department of Data Science, Center for Clinical Sciences, National Center for Global Health and Medicine, Tokyo, ⁵Department of Diagnostic Radiology, The University of Tokyo, Graduate School of Medicine, Tokyo
- O08-03 [P02-17] Interleukin-26-DNA complexes promote blister formation and inflammation in bullous pemphigoid**
○ Yuka Mizuno, Sayaka Shibata, Yukiko Ito, Haruka Taira, Shinichi Sato
The Department of Dermatology, University of Tokyo, Tokyo
- O08-04 [P02-18] Exacerbated psoriasis-like inflammation in K14-angiotensin-like protein 2 transgenic mice treated with imiquimod**
○ Tomoya Watanabe¹, Yukihiko Watanabe¹, Keishi Miyata², Yuichi Oike², Yukie Yamaguchi¹
¹Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, Yokohama, ²Department of Molecular Genetics, Graduate School of Medical Sciences, Kumamoto University, Kumamoto
- O08-05 [P02-19] Different longitudinal changes in nailfold video capillaroscopy findings among myositis-specific Abs in idiopathic inflammatory myopathy**
○ Yasuhito Hamaguchi¹, Naoki Mugii², Motoki Horii¹, Natsumi Fushida¹, Tomoyuki Ikeda¹, Kyosuke Oishi¹, Takashi Matsushita¹
¹Department of Dermatology, Faculty of Medicine, Institute of Medical Pharmaceutical and Health Science, Kanazawa University, Kanazawa, ²Department of Rehabilitation, Kanazawa University Hospital, Kanazawa
- O08-06 [P02-20] The importance of IL-17A for amyloidosis of the liver and spleen induced by inflammatory skin disease**
○ Shohei Iida¹, Fumiyasu Momose², Yoshiaki Matsushima¹, Makoto Kondo¹, Koji Habe¹, Yoshifumi Hirokawa³, Masatoshi Watanabe³, Yoichiro Iwakura⁴, Yasutomo Imai⁵, Keiichi Yamanaka¹
¹Department of Dermatology, Mie University Graduate School of Medicine, Tsu, ²Department of Personalized Cancer Immunotherapy, Mie University Graduate School of Medicine, Tsu, ³Department of Oncologic Pathology, Mie University Graduate School of Medicine, Tsu, ⁴Center for Animal Disease Models, Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, ⁵Imai Dermatology Pediatric Dermatology Allergology, Fukushima, Osaka
- O08-07 [P02-21] Upstream signaling in cytokine release from bullous pemphigoid IgG stimulated keratinocytes**
○ Jay-V James G. Barit, Sho Hiroyasu, Aoi Hiroyasu, Daisuke Tsuruta
Department of Dermatology, Osaka Metropolitan University Graduate School of Medicine, Osaka

- O08-08 [P02-22] GPNMB-induced decrease in production of inflammatory cytokines by macrophages may be important for suppression of psoriasis**
 ○ Taro Akatsuka¹, Makoto Sugaya¹, Tomomitsu Miyagaki², Tomonori Oka³, Hiraku Suga³, Ayumi Yoshizaki¹, Yoshihide Asano³, Shinichi Sato³
¹Department of Dermatology, International University of Health and Welfare, Narita, Chiba, ²Department of Dermatology, St. Marianna University School of Medicine, Kawasaki, Kanagawa, ³Department of Dermatology, University of Tokyo, Tokyo
- O08-09 [P02-23] Causal relationship between atopic dermatitis and chronic renal disease**
 ○ Arisa Ikeda^{1,2}, Ge Peng^{1,3}, Hai Le Thanh Nguyen^{1,3}, Juan Valentin Trujillo-Paez¹, Yoshie Umehara¹, Hainan Yue^{1,3}, Saya Tsukamoto^{1,3}, Ko Okumura¹, Hideoki Ogawa¹, Yusuke Suzuki², Shigaku Ikeda^{1,3}, François Niyonsaba^{1,4}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Nephrology, Juntendo University Graduate School of Medicine, Tokyo, ³Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, ⁴Faculty of International Liberal Arts, Juntendo University, Tokyo
- O08-10 [P02-24] Cytokine profiles for predicting the development of COVID-19 vaccine-associated bullous pemphigoid**
 ○ Midori Sunada¹, Seiko Sugiyama¹, Yukiko Nakahara¹, Mariko Yamane¹, Rehito Mashiko¹, Takenobu Yamamoto², Yumi Aoyama¹
¹The Department of Dermatology, Kawasaki Medical School, Kurashiki, ²The Department of Dermatology, Kawasaki General Medical Center, Okayama
- O08-11 [P02-25] The migration of circulating basophils to the skin is involved in the mechanism of basophil depletion in chronic spontaneous urticaria**
 ○ Izumi Kishimoto¹, Ni Ma¹, Naotomo Kambe^{1,2}, Hideaki Tanizaki¹
¹The Department of Dermatology, Kansai Medical University, Hirakata, ²Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto
- O08-12 [P02-26] Effects of decanoic acid on imiquimod-induced psoriasis-like dermatitis in mice**
 ○ Kinuko Irie, Shohei Igari, Toshiyuki Yamamoto
 Department of Dermatology, Fukushima Medical University School of Medicine, Fukushima

3-minute presentation and discussion 11

(Auto-Immunity -II/Genetic Disease, Gene Regulation and Gene Therapy)

16:55-18:00

Chairs: Hayakazu Sumida, Yasuhito Hamaguchi

- O11-01 [P02-27] Detailed serological examinations to examine the pathogenesis of a pemphigus case with oral erosions and pemphigus foliaceus skin lesions**
 ○ Marie Ohata¹, Takeshi Fukumoto¹, Kosuke Takahashi¹, Norito Ishii², Takashi Hashimoto³, Akiharu Kubo¹
¹Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe, ²Department of Dermatology, Kurume University School of Medicine, Fukuoka, ³Department of Dermatology, Osaka Metropolitan University Graduate School of Medicine, Osaka
- O11-02 [P02-28] Serum cold-inducible RNA-binding protein levels as a potential biomarker for systemic sclerosis**
 ○ Issei Omori, Hayakazu Sumida, Ayaka Sugimori, Moe Sakakibara, Mariko Urano-Takaoka, Shinichi Sato
 Department of Dermatology, the University of Tokyo Graduate School of Medicine, Tokyo
- O11-03 [P02-29] Increased interleukin-9 levels in sera, muscle and skin of patients with dermatomyositis**
 ○ Kyosuke Oishi, Yasuhito Hamaguchi, Kazuhiko Takehara, Takashi Matsushita
 The Department of Dermatology, Kanazawa University, Kanazawa
- O11-04 [P02-30] Ultrasound Visualizes Peripheral Vascular Dysfunction in Finger Pulp Blood Flow in Patients with Mixed Tissue Connective disease**
 ○ Kazuhiro Komura¹, Minoru Hasegawa²
¹Department of Dermatology, Kanazawa, Red Cross Hospital, Kanazawa, ²Department of Dermatology, Division of Medicine, Faculty of Medical Sciences, University of Fukui, Echizen-cho
- O11-05 [P02-31] Skin inflammation may affect salivary glands and secretion of saliva**
 ○ Yoshiaki Matsushima¹, Kento Mizutani¹, Shohei Iida¹, Masako Ichishi², Takehisa Nakanishi¹, Karin Okada¹, Ai Umaoka¹, Makoto Kondo¹, Koji Habe², Masatoshi Watanabe², Keiichi Yamanaka¹
¹Department of Dermatology, Mie University, Graduate School of Medicine, Tsu, ²Oncologic Pathology, Mie University, Graduate School of Medicine, Tsu
- O11-06 [P02-32] Smoking might be related the development of vitiligo on the hands**
 ○ Yuki Enomoto, Yoshifumi Kanayama, Kyoko Ikumi, Mai Sakurai, Kan Torii, Aya Yamamoto, Akimichi Morita
 Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya
- O11-07 [P06-06] The age-dependent change of transcribed enhancers in human skin**
 ○ Kosuke Katsuo¹, Satoshi Nakamizo¹, Yasuhiro Murakawa², Kenji Kabashima¹
¹The Department of Dermatology, Kyoto University, Kyoto, ²Institute for the advanced study of human biology, Kyoto University, Kyoto

- O11-08 [P06-07] Clinicopathological and genetic analysis of hybrid schwannoma/neurofibroma tumor**
○ Tatsuya Katsumi¹, Ryota Hayashi¹, Osamu Ansa¹, Shingo Takei¹, Rei Yokoyama¹, Akihiko Yuki¹, Sumiko Takatsuka², Tatsuya Takenouchi², Riichiro Abe²
¹Division of dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, ²Division of Dermatology, Niigata Cancer Center Hospital, Niigata
- O11-09 [P06-08] A homozygous loss-of-function variant in the MPO gene is associated with generalized pustular psoriasis**
○ Mami Onitsuka¹, Muhammad Farooq², Shuichiro Yasuno¹, Yutaka Shimomura¹
¹Department of Dermatology, Yamaguchi University Graduate School of Medicine, Ube, ²Department of Bioinformatics, Institute of Biochemistry, Biotechnology and Bioinformatics (IBBB), The Islamia University of Bahawalpur, Punjab
- O11-10 [P06-09] Intrafamilial/interfamilial heterogeneity in hereditary hemorrhagic telangiectasia phenotype due to ACVRL1 variants**
○ Chiaki Murase¹, Takuya Takeichi¹, Tomoki Taki¹, So Takeuchi¹, Aoi Ebata¹, Yukako Muramatsu², Tomoo Ogi³, Masashi Akiyama¹
¹The Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, ²Department of Pediatrics, Nagoya University Hospital, Nagoya, ³Department of Genetics, Research Institute of Environmental Medicine, Nagoya University, Nagoya
- O11-11 [P06-10] Cytologic impacts of two kratin 14 mutations, K14 R125C and K14G364Rfr*118 underlying epidermolysis bullosa simplex generalized severe**
○ Risa Matsuo¹, Mari Kishibe¹, Satomi Igawa¹, Akiharu Kubo², Akemi Ishida-Yamamoto¹
¹The Department of Dermatology, Asahikawa Medical University, Asahikawa, ²Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe
- O11-12 [P06-11] A combined ichthyosis vulgaris/X-linked recessive ichthyosis/atopic dermatitis patient controlled well with heparinoid-containing ointment**
○ Takenori Yoshikawa¹, Yoshimasa Nakane², Takuya Takeichi¹, Michihiro Kono³, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, ²Department of Dermatology, Toyohashi City Hospital, Toyohashi, ³Department of Dermatology and Plastic Surgery, Akita University Graduate School of Medicine, Akita
- O11-13 [P06-12] Elucidation of the role of IL-36 cascade in pustular skin disorders**
○ Akihiko Yamaguchi¹, Toshifumi Takahashi¹, Takashi Satoh², Noriki Fujimoto¹
¹The Department of Dermatology, Shiga University of Medical Science, Otsu, Shiga, ²The Department of Dermatology and Allergy, University Hospital, LMU Munich, Germany, Munich, Bavaria

Evening Seminar 7

"Psoriasis pathology and recent advances in treatment"

18:10-19:10

Chairs: Hiroshi Mitsui, Takafumi Kadono

ES7-1 New insights in the pathogenesis of psoriasis and clinical significance of TYK2 inhibition

○ Masahiro Kamata
Department of Dermatology, Teikyo University School of Medicine, Tokyo

ES7-2 Potential of Tyk2 inhibitors in the treatment of psoriasis

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

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

December 3, 2022, Room D

Morning Seminar 4

8:00-9:00

Chair: Makoto Sugaya

MS4 Roles of staphylococcal Agr quorum sensing in atopic dermatitis and hospital-acquired infections

○ Yumi Matsuoka-Nakamura

Cutaneous Immunology, Immunology Frontier Research Center, Osaka University, Suita

Co-sponsored by Torii Pharmaceutical Co., Ltd.

Luncheon Seminar 7

12:00-13:00

Chair: Kazumitsu Sugiura

LS7 Psoriasis and IL-23: inseparable pathogenic relation

○ Mayumi Komine

Department of Dermatology, Jichi Medical University, Shimotsuke

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

Concurrent Oral Session 8 (Carcinogenesis and Cancer/Photobiology-I)

14:20-15:44

Chairs: Makoto Sugaya, Emi Nishida

C08-01 Eribulin mesylate exerts antitumor effects via CD103

[P03-02]

○ Kazumasa Oya¹, Yoshiyuki Nakamura¹, Toshifumi Nomura¹, Yasuhiro Fujisawa^{1,2}¹Department of Dermatology, University of Tsukuba, Tsukuba, ²Department of Dermatology, Ehime University, To-on

C08-02 SLFN11 is highly expressed on the tumor cells in CD30 transformed mycosis fungoides and Sezary syndrome

[P03-03]

○ Takatoshi Shimauchi¹, Junko Murai², Tetsuya Honda¹¹Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, ²Institute for Advanced Biosciences, Keio University, Tsuruoka

C08-03 Desmoglein 3 changes gene expression profiles in oral squamous cell carcinoma between anchorage-dependent and -independent conditions

[P03-04]

○ Michiyoshi Kouno¹, Junichiro Inada², Masaki Minabe², Yurie Akiyama², Kazunari Higa³, Tetsuhiko Tachikawa⁴, Takeshi Nomura², Shinichi Takahashi¹¹Department of Dermatology, Tokyo Dental College Ichikawa General Hospital, Ichikawa, ²Department of Oral Oncology, Oral and Maxillofacial Surgery, Tokyo Dental College, Ichikawa, ³Cornea Center Eye bank, Tokyo Dental College Ichikawa General Hospital, Ichikawa, ⁴Division of Molecular Diagnosis and Cancer Prevention, Saitama Cancer Center, Saitama

C08-04 HER2-targeted antibody-drug conjugates regress tumors in preclinical extramammary Paget's disease models

[P03-05]

○ Keiko Tokuchi, Takuya Maeda, Teruki Yanagi, Shinya Kitamura, Hideyuki Ujiie

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

C08-05 Pro-angiogenic factors might predict the efficacy of bexarotene in advanced cutaneous T cell lymphomas

[P03-06]

○ Yumi Kambayashi, Taku Fujimura, Kentaro Ohuchi, Ryo Amagai, Yoshihide Asano

The Department of Dermatology, University of Tohoku, Sendai

C08-06 Histological Prognostic Factors of Angiosarcoma

[P03-07]

○ Toshio Ichiki^{1,2}, Yuichi Yamada^{2,3}, Takamichi Ito¹, Takeshi Nakahara¹, Yoshinao Oda²¹Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, ²Department of Anatomic Pathology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, ³Department of Pathology, Fukuoka University hospital and School of Medicine, Fukuoka

C08-07 The landscape of genetic alterations of UVB-induced skin tumors in DNA repair-deficient mice

[P11-01]

○ Ai Yoshioka¹, Hirofumi Nakaoka^{2,3}, Takeshi Fukumoto¹, Ituro Inoue³, Chikako Nishigori^{1,4}, Akiharu Kubo¹, Makoto Kunisada¹¹Division of Dermatology, Department of Internal Related, Graduate School of Medicine, Kobe University, Kobe, ²Department of Cancer Genome Research, Sasaki Institute, Tokyo, ³Human Genetics Laboratory, National Institute of Genetics, Mishima, ⁴Japanese Red Cross Hyogo Blood Center, Kobe

3-minute presentation and discussion 9 (Innate Immunity, Microbiology, Microbiome/Patient Population Research -I)

15:55-16:55

Chairs: Sayuri Yamazaki, Hideki Fujita

- O09-01 [P07-05] Impact of systemic treatments on skin mycobiome of atopic dermatitis in comparison to anti-IL-4R α antibody and calcineurin inhibitor**
Hitomi Morisaki¹, ○ Yuta Koike¹, Daisuke Motooka², Mai Matsumoto¹, Motoi Takenaka¹, Hiroyuki Murota¹
¹Department of Dermatology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, ²Department of Infection Metagenomics, Research Institute for Microbial Diseases, Osaka University, Osaka
- O09-02 [P07-07] Inhibition of STING alleviated the clinical symptoms of atopic dermatitis in mouse model**
○ Jae-Sang Ryu¹, Han Sai Lee², Young Su Jang³, Jinju Lee², Aram Kim¹, Bo Ram Mok³, Dong Hyun Kim¹, Young Shin Song⁴, Jung U Shin¹
¹Department of Dermatology, Bundang CHA Medical Center, CHA University School of Medicine, Seongnam, ²Department of Biomedical Science, Graduate School, CHA University, Seongnam, ³Department of Biochemistry, CHA University School of Medicine, Seongnam, ⁴Department of Internal Medicine, Bundang CHA Medical Center, CHA University School of Medicine, Seongnam
- O09-03 [P07-08] A microbiota-dependent subset of skin macrophages protects against cutaneous bacterial infection**
○ Young Joon Park¹, Byeong Hoon Kang², Hyun-Jin Kim², Ji Eun Oh², Heung Kyu Lee²
¹Department of Dermatology, Ajou University School of Medicine, Suwon, ²Korea Advanced Institute of Science and Technology (KAIST), Daejeon
- O09-04 [P07-09] Epidemiological study of ticks carrying *Aeromonas hydrophila* between endemic and non-endemic area of Japanese spotted fever**
○ Makoto Kondo, Yoshiaki Matushima, Shohei Iida, Koji Habe, Keiichi Yamanaka
The Department of Dermatology, University of Mie, Mie, Tsu
- O09-05 [P07-10] The role of IL-33/ $\gamma\delta$ T/IL-17 signal axis in the pathogenesis of skin inflammation**
○ Hongjin Li, Yasutomo Imai, Teruasa Murata, Nobuo Kanazawa
Department of Dermatology, Hyogo Medical University, Nishinomiya
- O09-06 [P07-11] *S. epidermidis* enhance human β -defensin-3 production via EGFR by inducing TGF- α**
○ Rie Ommori, Yuki Nishimura, Fumi Miyagawa, Chinatsu Shobatake, Kohei Ogawa, Satoru Shinkuma, Hideo Asada
The Department of Dermatology, Nara Medical University, Nara
- O09-07 [P07-12] Time Of Flight-Mass Spectrometry in cutaneous mycobacteriosis: a case of *Mycobacterium lentiflavum* infection**
○ Yasuaki Ikuno¹, Toshifumi Takahashi¹, Akihiko Yamaguchi¹, Takeshi Kato¹, Ai Kishita², Noriki Fujimoto¹
¹Department of Dermatology, Shiga University of Medical Science, Otsu, ²Department of Clinical Laboratory, Shiga University of Medical Science, Otsu
- O09-08 [P08-07] Genome-wide association study for total IgE levels identified novel loci**
○ Kosuke Shido¹, Kaname Kojima², Kenshi Yamasaki¹, Kengo Kinoshita², Yoshihide Asano¹
¹The Department of Dermatology, University of Tohoku, Sendai, ²Tohoku Medical Megabank Organization, Tohoku University, Sendai
- O09-09 [P08-08] Novel idea of skin disease CAD consisting of 2-step CNN models for conventional and non-standardized picture images**
○ Yuta Yanagisawa¹, Kaname Kojima³, Kosuke Shido², Kenshi Yamasaki², Yoshihide Asano²
¹Tohoku University School of Medicine, Sendai, ²Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, ³Tohoku Medical Megabank Organization, Tohoku University, Sendai
- O09-10 [P08-09] Serum RANKL/OPG ratio correlates with severity and suggests fracture's risk in older women with atopic dermatitis**
○ Takashi Sakai^{1,2}, Nadine Herrmann², Laura Maintz², Tim Joachim Nümm³, Thomas Welchowski^{2,3}, Thomas Bieber²
¹Department of Dermatology, Faculty of Medicine, Oita University, Yufu-shi, ²Department of Dermatology and Allergy, Christine Kühne-Center for Allergy Research and Education (CK-CARE), University Hospital Bonn, Bonn, ³Department of Medical Biometry, Informatics and Epidemiology, University Hospital Bonn, Bonn
- O09-11 [P08-10] A significant association of anti-OJ antibody-positive patients with cancer shown by a meta-analysis**
○ Yuta Yamashita¹, Kazuki Nishida², Yoshinao Muro¹, Haruka Koizumi¹, Mariko Ogawa-Momohara¹, Takuya Takeichi¹, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, ²Department of Biostatistics Section, Center for Advanced Medicine and Clinical Research, Nagoya
- O09-12 [P08-11] Varicella-zoster virus type E associated with varicella reinfection in the Japanese**
○ Gyohei Egawa, Kenji Kabashima
Department of Dermatology, Kyoto University, Kyoto

3-minute presentation and discussion 12 (Patient Population Research -II/Tissue Regeneration and Wound Healing)

16:55-17:55

Chairs: Minoru Hasegawa, Takahiro Satoh

- O12-01 [P08-12]** **A large-scale retrospective analysis of a single center study of bath-psoralen plus ultraviolet A (PUVA) therapy for psoriasis**
 ○ Mai Sakurai, Kyoko Ikumi, Yuki Enomoto, Yoshifumi Kanayama, Kan Torii, Aya Yamamoto, Akimichi Morita
 Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya
- O12-02 [P08-13]** **The clinical and histological characteristics of 'basophil-high' atopic dermatitis**
 ○ Natsumi Nagashima¹, Tsukasa Ugajin¹, Kensuke Miyake², Hajime Karasuyama², Takeshi Namiki¹, Naoko Okiyama¹
¹Department of Dermatology, Tokyo Medical and Dental University, Tokyo, ²Advanced Research Institute, Tokyo Medical and Dental University, Tokyo
- O12-03 [P14-06]** **Three-dimensional visualization of cutaneous lymphatic vasculature and their morphological changes in aging and disease**
 ○ Enkhtuul Gantumur¹, Nao Itai¹, Kyoko Tsujita¹, Shinsuke Akita², Kentaro Kajiya¹
¹MIRAI Technology Institute, Shiseido CO., LTD, Yokohama, ²Department of Plastic, Reconstructive, and Aesthetic Surgery, Graduate School of Medicine, Chiba University, Chiba
- O12-04 [P14-08]** **Dimethyl fumarate ameliorates delayed wound healing due to IL-36Ra deficiency through suppression of NET formation and oxidative stress**
 ○ Hiroyuki Ito¹, Yohei Iwata¹, Yurie Hasegawa¹, Mizuki Sugiura¹, Masashi Akiyama², Kazumitsu Sugiura¹
¹Department of Dermatology, Fujita Health University School of Medicine, Aichi, ²Department of Dermatology, Nagoya University Graduate School of Medicine, Aichi
- O12-05 [P14-09]** **Wound occlusion inhibits wound-induced hair neogenesis by increasing tissue stiffness**
 ○ Allen S.W. Oak, Arben Nace, Ruifeng Yang, Ying Zheng, George Cotsarelis
 Department of Dermatology, University of Pennsylvania School of Medicine, Philadelphia
- O12-06 [P14-10]** **TGFβ1 secretion via extracellular vesicles drives fibroblast induced tissue contraction**
 ○ Khek-Chian Tham³, Thankiah Sudhaharan², Keng-Hwee Chiam³, Seong Soo Lim¹, Graham D. Wright², Carine Bonnard¹, John E.A. Common¹
¹A*STAR Skin Research Labs, Agency for Science, Technology and Research, Singapore, ²A*STAR Microscopy Platform, Research Support Centre, Agency for Science, Technology and Research, Singapore, ³Bioinformatics Institute, Agency for Science, Technology and Research, Singapore
- O12-07 [P14-11]** **ASC-J9 inhibits cell proliferation and extracellular matrix production of keloid fibroblasts through interrupting STAT3 signaling**
 ○ Yi-Kai Hong^{1,2}, Chen-Han Wu⁵, Yu-Chen Lin^{1,2}, Yu-Lun Huang^{1,2}, Kuo-Shu Hung⁴, Tsung-Pin Pai⁵, Yen-Ting Liu⁵, Tzu-Chi Chen⁵, Hardy Chan⁵, Chao-Kai Hsu^{1,2,3}
¹Department of Dermatology, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan City, ²International Center for Wound Repair and Regeneration (iWRR), National Cheng Kung University, Tainan City, ³Institute of Clinical Medicine, College of Medicine, National Cheng Kung University, Tainan City, ⁴Department of Surgery, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan City, ⁵Allianz Pharmascience Ltd. (now Annji Pharmaceutical Co. Ltd.), Taipei City
- O12-08 [P14-12]** **Regulation of endovascular progenitors by myeloid Wls activity in cutaneous wound healing**
 ○ Seen Ling Sim¹, Antje Blumenthal¹, Simranpreet Kaur^{1,2}, Kiarash Khosrotehrani¹
¹The University of Queensland Diamantina Institute, Brisbane, ²Mater Research-UQ, Brisbane
- O12-09 [P14-13]** **The active form of vitamin D, calcitriol, regulates the skin tight junction barrier *in vitro* and *in vivo* diabetic models**
 ○ Juan Valentin Trujillo-Paez¹, Hai Le Thanh Nguyen^{1,2}, Yoshie Umehara¹, Hainan Yue^{1,2}, Ge Peng^{1,2}, Shigaku Ikeda², Ko Okumura¹, Hideoki Ogawa¹, François Niyonsaba^{1,2,3}
¹Atopy (Allergy) Research Center, Juntendo University, Tokyo, ²Department of Dermatology and Allergology, Juntendo University, Tokyo, ³Faculty of International Liberal Arts, Juntendo University, Tokyo
- O12-10 [P14-14]** **Cell-to-cell interaction and the activation of JAK/STAT pathway via WNT5A in keloid scar development**
 ○ Young In Lee^{1,3}, Seoyoon Ham¹, Sooyeon Choi¹, Jihee Kim^{1,3}, Won Jai Lee^{2,3}, Ju Hee Lee^{1,3}
¹Department of Dermatology, Severance Hospital, Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, ²Department of Plastic and Reconstructive Surgery, Severance Hospital, Yonsei University College of Medicine, Seoul, ³Scar Laser and Plastic Surgery Center, Yonsei Cancer Hospital, Yonsei University College of Medicine, Seoul

O12-11 [P14-15] Antimicrobial peptide human β -defensins induce the secretion of angiogenic factor angiogenin from human dermal fibroblasts

○ Yoshie Umehara¹, Miho Takahashi², Hainan Yue¹, Juan Valentin Trujillo-Paez¹, Ge Peng¹, Hai Le Thanh Nguyen¹, Ko Okumura¹, Hideoki Ogawa², François Niyonsaba^{1,3}

¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, ³Faculty of International Liberal Arts, Juntendo University, Tokyo

O12-12 [P14-16] Augmentation of lymphangiogenic actions by cyclic phosphatidic acid through LPA1/3/6 pathways in human dermal lymphatic endothelial cells

○ Katsuki Okuyama, Takashi Sato

Department of Biochemistry, Tokyo University of Pharmacy and Life Sciences, Hachioji, Tokyo

Evening Seminar 8

"Role of IL-23 in the pathogenesis of psoriatic disease"

18:10-19:10

Chair: Keiichi Yamanaka

ES8 Improving care for patients by long-term management of psoriatic disease, differentiating biologics in Psoriatic disease: A focus on anti-IL-23 mAbs

○ Brian Kirby

Department of Dermatology, St Vincent's University Hospital, Dublin

Co-sponsored by Janssen Pharmaceutical K.K.

December 4, 2022, Room A

Morning Seminar 5

8:00-9:00

Chair: Sayuri Yamazaki

MS5 IL-36: a key cytokine in the pathomechanism of inflammatory skin diseases

○ James G. Krueger

Laboratory for Investigative Dermatology, The Rockefeller University, New York

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

Plenary Session III

9:10-10:40

Chairs: Manabu Ohyama, Yayoi Tada, Riichiro Abe

III-1 [P12-01] Blockade of glucose-6-phosphate dehydrogenase induces immunogenic cell death and accelerates immunotherapy in malignant melanoma

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

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

III-2 [P02-03] Interleukin-31 promotes fibrosis and T helper 2 polarization in systemic sclerosis

○ Ai Kuzumi¹, Kazuki M. Matsuda¹, Hirohito Kotani¹, Satoshi Ebata¹, Takemichi Fukasawa¹, Asako Yoshizaki-Ogawa¹, Kyojiro Morikawa², Yutaka Kazoe³, Kazuma Mawatari², Takehiko Kitamori⁴, Shinichi Sato¹, Ayumi Yoshizaki¹¹The Department of Dermatology, University of Tokyo, Tokyo, ²Department of Applied Chemistry, Graduate School of Engineering, The University of Tokyo, Tokyo, ³Department of System Design Engineering, Faculty of Science and Technology, Keio University, Yokohama, ⁴Department of Bioengineering, Graduate School of Engineering, The University of Tokyo, Tokyo

III-3 [P05-02] Human- β -defensin-3 attenuates atopic dermatitis symptoms through activation of autophagy and aryl hydrocarbon receptor signaling pathway

○ Ge Peng^{1,2}, Saya Tsukamoto^{1,2}, Yoshie Umehara², Ko Okumura², Hideoki Ogawa², Shigaku Ikeda^{1,2}, François Niyonsaba^{1,3}¹Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, ²Atopy/Allergy Research Center, Juntendo University Graduate School of Medicine, Tokyo, ³Faculty of International Liberal Arts, Juntendo University, Tokyo

III-4 [P03-01] NY-ESO-1 and XAGE-1B correlate with the formation of tertiary lymphoid structures and prognosis of cutaneous angiosarcoma

○ Tetsuya Magara, Motoki Nakamura, Yuka Nojiri, Maki Yoshimitsu, Shinji Kano, Akihiro Matsubara, Hiroshi Kato, Akimichi Morita

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

III-5 [P12-02] Immune cell therapy against melanoma by utilizing iPS cell-derived myeloid cell lines producing IFN-beta or IL-15/IL-15 receptor alpha

○ Satoru Mizuhashi¹, Yosuke Kubo¹, Hisashi Kanemaru¹, Satoshi Nakahara¹, Azusa Miyasita¹, Takayuki Ishibashi¹, Haruka Kuriyama¹, Toshihiro Kimura¹, Shinichi Masuguchi¹, Rong Zhang², Tatsuki Iwama², Tetsuya Nakatsura², Yasushi Uemura², Satoru Senju³, Satoshi Fukushima¹¹Department 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, Tokyo, ³Department of Immunogenetics, Graduate School of Medical Sciences, Kumamoto University, Kumamoto

III-6 [P06-01] Epidermolytic ichthyosis-associated *KRT1* mutations promote interleukin-18 release from keratinocytes via NLRP3 inflammasome activation

○ Osamu Ansai¹, Ryota Hayashi¹, Toshinari Miyauchi², Tatsuya Katsumi¹, Tomoki Nishiguchi¹, Akito Hasegawa¹, Ken Natsuga², Toshifumi Nomura², Riichiro Abe¹¹Division of Dermatology, Niigata University School of Medical and Dental Science, Niigata, ²Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, ³Department of Dermatology, Faculty of Medicine, University of Tsukuba, Tsukuba

Concurrent Oral Session 9 (Epidermal Structure and Barrier Function -II, Tissue Regeneration and Wound Healing)

10:50-12:14

Chairs: Takeshi Matsui, Ken Natsuga

- C09-01 [P05-10] Overexpression of sphingomyelin/glucosylceramide deacylase in the epidermis of mice provokes atopic dermatitis-like skin eruptions**
○ Miho Kimura¹, Mariko Takada², Hidetoshi Tsuda³, Mayumi Komine¹, Mamitaro Ohtsuki¹, Genji Imokawa²
¹The Department of Dermatology, Jichi Medical University, Shimotsuke, ²University of Utsunomiya, Utsunomiya, ³The Department of human genetics, University of Jichi, Shimotsuke
- C09-02 [P05-12] Whole Structural Reconstruction and Quantification of Epidermal Innervation through the Suction Blister Method and Skin-Clearing Technique**
○ Dai Hyun Kim¹, Se Jeong Lee², June Hoan Kim², Sung Jin Park¹, Soo Hong Seo¹, Hyo Hyun Ahn¹, Woong Sun^{2,3}, Byung-Jo Kim⁴, Im Joo Rhyu^{2,3}
¹Department of Dermatology, Korea University College of Medicine, Seoul, ²Department of Anatomy, Korea University College of Medicine, Seoul, ³Division of Brain Korea 21 Plus Program for Biomedical Science, Korea University College of Medicine, Seoul, ⁴Department of Neurology, Korea University College of Medicine, Seoul
- C09-03 [P14-02] The cutaneous capillary loop maintains epidermal stem/progenitor cells by the control of pericytes behavior**
○ Mika Sawane, Ryota Kami, Makiko Komata, Taiki Tsutsui, Hirofumi Aoki, Kentaro Kajiya
MIRAI Technology Institute, Shiseido Co., Ltd, Yokohama
- C09-04 [P14-03] Epidermis-specific SOX2 overexpression suppressed pressure ulcer formation after cutaneous I/R injury via enhancement of AREG production**
○ Yuta Inoue, Akihiko Uchiyama, Mai Ishikawa, Keiji Kosaka, Yoko Yokoyama, Sachiko Ogino, Ryoko Torii, Mari Hosoi, Sei-ichiro Motegi
The Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi
- C09-05 [P14-04] TRPV4 promotes cutaneous wound healing by enhancing keratinocyte migration and granulation tissue formation via activation of MAPK signaling**
○ Sahori Yamazaki, Bayarmaa Taivanbat, Akihiko Uchiyama, Syahla N. Amalia, Yuta Inoue, Mai Ishikawa, Keiji Kosaka, Yoko Yokoyama, Sachiko Ogino, Ryoko Torii, Mari Hosoi, Sei-ichiro Motegi
The Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi
- C09-06 [P14-05] Herpes simplex virus-induced murine dry skin model through sweating disturbance**
○ Yumiko Asanuma¹, Hironobu Ishimaru², Tetsuko Sato¹, Takenobu Yamamoto¹, Yumi Aoyama¹
¹The Department of Dermatology, Kawasaki Medical School, Kurashiki, ²Department of Pharmacology, Kawasaki Medical School, Kurashiki
- C09-07 [P14-07] Endovascular progenitors express PDGFR α and contribute to fully differentiated endothelium in aorta and wounds**
○ Cassandra Styke¹, Simranpreet Kaur^{1,2}, Seen Ling Sim¹, Jilai Zhao¹, Abbas Shafiee^{1,3}, Chenhao Zhou¹, Ho Yi Wong¹, Kiarash Khosrotehrani¹
¹University of Queensland Diamantina Institute, Brisbane, ²Mater Research, Brisbane, ³Queensland University of Technology, Brisbane

Luncheon Seminar 8 "Hot Topics of Hidradenitis Suppurativa and Pyoderma Gangrenosum"

12:25-13:25

Chairs: Mamitaro Ohtsuki, Hideshi Torii

- LS8-1 New insight into Hidradenitis Suppurativa in Japan**
○ Koremasa Hayama, Hideki Fujita
Division of Cutaneous Science, Department of Dermatology, Nihon University School of Medicine, Tokyo
- LS8-2 Advances on therapeutic strategies for pyoderma gangrenosum**
○ Hideyuki Ujiie
Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo

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JSID-Asia-Oceania-Forum

"Autoimmune and genetic diseases"

13:40-16:00

Chairs: Toshifumi Nomura, Yukie Yamaguchi

JAOF1 Skin microbiota, microbial metabolites and atopic dermatitis

○ Xu Yao

Division of Allergy and Rheumatology, Institute of Dermatology, Chinese Academy of Medical Sciences, Nanjing

JAOF2 Defining epithelial innate immune sensors

○ Kim Robinson

A*STAR Skin Research Laboratories & Skin Research Institute Singapore, Singapore

JAOF3 Diagnosis and investigative treatments of epidermolysis bullosa in Taiwan

○ Chao-Kai Hsu

Department of Dermatology, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan

JAOF4 Genetic disorders with skin cancers: SNUH experience

○ Je-Ho Mun^{1,2}

¹Department of Dermatology, Seoul National University Hospital, ²Department of Dermatology, Seoul National University College of Medicine

JAOF5 Tissue engineering approaches to treat skin loss

Imran Khan¹, Zaliha Pieterse¹, Kynan Lawlor², Andrew Stevenson³, Mark Fear³, Fiona Wood³, Ankur Sharma⁴, ○ Pritinder Kaur¹

¹Curtin University, Perth, WA, ²Murdoch Children's Research Institute, Melbourne, VIC, ³University of Western Australia, Perth, WA,

⁴Curtin University & Harry Perkins Institute, Perth, WA

December 4, 2022, Room B

Morning Seminar 6

"Skin Diseases UPDATE - Pathogenic mechanism of "Itch associated with skin diseases such as Atopic dermatitis" and "Systemic sclerosis""

8:00-9:00

Chairs: Norito Katoh, Manabu Ohyama

MS6-1 Itch associated with skin diseases including atopic dermatitis

○ Miho Shiratori-Hayashi, Makoto Tsuda

Department of Molecular and System Pharmacology, Graduate School of Pharmaceutical Sciences, Kyushu University, Fukuoka

MS6-2 The cytokine network in the pathogenesis of systemic sclerosis

○ Asako Yoshizaki

The Department of Dermatology, University of Tokyo, Tokyo

Co-sponsored by Maruho Co., Ltd.

Concurrent Oral Session 10

(Auto-Immunity-II/Cell-Cell Interactions in the Skin)

10:50-12:14

Chairs: Yumi Aoyama, Yoshihide Asano

C10-01 Multiple subregions within the caveolin-1 scaffolding domain inhibit psoriasis-like inflammation

[P02-11]

○ Chika Asai¹, Naoko Takamura¹, Tomoya Watanabe¹, Miho Asami¹, Noriko Ikeda¹, Stanley Hoffman², Yukie Yamaguchi¹

¹Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, Yokohama, ²Division of Rheumatology, Department of Medicine, Medical University of South Carolina, Charleston, South Carolina

C10-02 Role of platelet-activating factor in the skin and spinal cord in the mechanisms of itch

[P02-12]

○ Tomoki Kurioka¹, Risa Tamagawa-Mineoka¹, Mari Nakanishi¹, Midori Kawasaki-Nagano¹, Yukiyasu Arakawa¹, Hiromi Nishigaki¹, Megumi Kishida¹, Tomomi Hashidate-Yoshida², Hideo Shindou^{2,3}, Norito Katoh¹

¹The Department of Dermatology, Kyoto prefectural University of medicine, Kyoto, ²Department of Lipid Life Science, National Center for Global Health and Medicine, Tokyo, ³Department of Medical Lipid Science, Graduate School of Medicine, The University of Tokyo, Tokyo

C10-03 Blockade of calpain enzymatic activity exerts anti-fibrotic effects in bleomycin-induced systemic sclerosis model mice

[P02-13]

○ Hiroshi Kasamatsu¹, Takenao Chino¹, Takumi Hasegawa¹, Natsuko Utsunomiya¹, Akira Utsunomiya¹, Noritaka Oyama¹, Masami Yamada², Minoru Hasegawa¹

¹Department of Dermatology, University of Fukui, Fukui, ²Department of Cell Biology and Biochemistry, University of Fukui, Fukui

C10-04 TRPV4 regulates psoriasis-like dermatitis via enhancement of Th17 pathway by increasing ATP and neuropeptides production in mouse model

[P02-14]

○ Syahla N. Amalia, Akihiko Uchiyama, Hritu Baral, Chisako Fujiwara, Yuta Inoue, Yoko Yokoyama, Sachiko Ogino, Ryoko Torii, Mari Hosoi, Sei-ichiro Motegi

The Department of Dermatology, Gunma University, Maebashi

C10-05 Sensory neuronal STAT3 is critical for IL-31 receptor expression and inflammatory itch

[P04-02]

○ Sotaro Ochiai^{1,2}, Sonoko Takahashi¹, Kenji Kabashima⁴, Masato Kubo^{5,6}, Manabu Nakayama⁷, Takaharu Okada^{2,3}

¹Malaghan Institute of Medical Research, Wellington, ²Laboratory for Tissue Dynamics, RIKEN, Yokohama, ³Graduate School of Medical Life Science, Yokohama City University, Yokohama, ⁴Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ⁵Laboratory for Cytokine Regulation, RIKEN, Yokohama, ⁶Division of Molecular Pathology, Research Institute for Biomedical Science, Tokyo University of Science, Chiba, ⁷Department of Frontier Research and Development, Kazusa DNA Research Institute, Chiba

C10-06 The role of FcγRIIB in the development of imiquimod-induced psoriasis-like skin inflammation model

[P04-03]

○ Irisu Nakabori¹, Yasuhito Hamaguchi¹, Kaori Sawada¹, Motoki Horii¹, Natsumi Fushida¹, Tasuku Kitano¹, Wang Chenyang¹, Jia Xibei¹, Yuichi Ikawa², Akito Komuro², Takashi Matsushita¹

¹Department of Dermatology, Faculty of Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Kanazawa, ²Department of Plastic Surgery, Kanazawa University Hospital, Kanazawa

C10-07 [P04-04] Microdissection-based spatial transcriptomics unraveled orchestrated epidermal-dermal interactions in atopic dermatitis

○ Tomohiro Miyai^{1,2}, Hiroshi Kawasaki^{1,2}, Masahito Hosokawa³, Hiroko Matsunaga⁴, Aiko Sekita^{1,2}, Ayano Fukushima-Nomura², Masayuki Amagai², Haruko Takeyama^{3,4}, Haruhiko Koseki^{1,5}

¹Laboratory for Developmental Genetics, RIKEN IMS, Yokohama, ²Department of Dermatology, Keio University School of Medicine, Tokyo, ³Department of Life Science and Medical Bioscience, Waseda University, Tokyo, ⁴Research Organization for Nano & Life Innovation, Waseda University, Tokyo, ⁵Department of Cellular and Molecular Medicine, Chiba University, Chiba

Luncheon Seminar 9 "The novel mechanism of itch"

12:25-13:25

Chairs: Saeko Nakajima, Akihiko Asahina

LS9-1 TRP channels and itch

○ Makoto Tominaga^{1,2}

¹Division of Cell Signaling, National Institute for Physiological Sciences, Okazaki, ²Thermal Biology Group, Exploratory Research Center on Life and Living Systems, Okazaki

LS9-2 Mechanisms of Itch related to Type 2 cytokines

○ Gil Yosipovitch

Dr Phillip Frost Department of Dermatology, Miller School of Medicine, University of Miami, Miami

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

December 4, 2022, Room C

Morning Seminar 7

"Fosravuconazole, a Novel Oral Antifungal Agent for the Treatment of Onychomycosis -Basic Characteristics and Clinical Effects-"

8:00-9:00

Chairs: Shinji Shimada, Hideki Fujita

MS7-1 Mycological characteristics and pathogenicity levels of the causative agents of onychomycosis

○ Takashi Sugita
Department of Microbiology, Meiji Pharmaceutical University, Tokyo

MS7-2 New Possibilities for Onychomycosis Treatment

○ Yuichiro Tsunemi
Department of Dermatology, Saitama Medical University, Saitama

Co-sponsored by Sato pharmaceutical Co., LTD./Eisai Co., Ltd.

Concurrent Oral Session 11

(Photobiology-II/Skin, Appendages, and Stem Cell Biology)

10:50-12:14

Chairs: Daisuke Nanba, Tetsuya Honda

C11-01 [P11-02] Identification and quantification of senescent cell types in chronologically aged skin and UV-induced skin pathologies

○ Oliver Dreesen¹, Peh Fern Ong¹, Xin Er Lee¹, Audrey S. Wang¹, Satoshi Nakamizo³, Yoshihiro Ishida³, Kenji Kabashima^{2,3}
¹Cell Aging Laboratory, A*STAR Skin Research Labs, Singapore, ²Skin Immunology Laboratory, A*STAR Skin Research Labs, Singapore, ³Kyoto University, Graduate School of Medicine, Kyoto

C11-02 [P13-02] Sox2 in the Dermal Papilla regulates Hair Follicle Pigmentation

○ Carlos Clavel
A*STAR Skin Research Labs (A*SRL), Singapore

C11-03 [P13-03] Discover Melanocyte Heterogeneously in the Human Interfollicular Epidermis

○ Ken Uda, Toshiyuki Homma, Tomoko Tashiro
FUJIFILM corporation, Kanagawa

C11-04 [P13-04] Significance of thermal stimulation for assessment of inflammation and immune dysregulation in acquired idiopathic generalized anhidrosis

○ Yurie Shimoda, Yoshiko Mizukawa, Yoshimi Yamazaki, Manabu Ohyama
Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo

C11-05 [P13-05] CD147 antagonist peptide-9 ameliorates the imiquimod-induced psoriatic dermatitis in mice

○ Aoi Okubo¹, Youhei Uchida¹, Yuko Higashi¹, Takuya Sato², Youichi Ogawa², Akihiro Ryuge^{3,4}, Kenji Kadomatsu⁴, Takuro Kanekura¹
¹The Department of Dermatology, University of Kagoshima, Kagoshima, ²Department of Dermatology, Faculty of Medicine, University of Yamanashi, Yamanashi, ³Department of Nephrology, Nagoya University Graduate School of Medicine, Aichi, ⁴Department of Biochemistry, Nagoya University Graduate School of Medicine, Aichi

C11-06 [P13-06] ITGA6+ dermal sheath cup cells promote cell migration in autologous cell-based therapy for patterned hair loss

○ Yumiko Ishimatsu-Tsuji^{1,2}, Shiro Niiyama², Ryokichi Irisawa³, Kazutoshi Harada³, Jiro Kishimoto³, Ryoji Tsuboi³
¹Shiseido Co., Ltd MIRAI Technology Institute, Frontier Business R&D Center, Regenerative Medicine Research & Business Development Department, Yokohama, ²Toho University Ohashi Medical Center, Department of Dermatology, Tokyo, ³Tokyo Medical University Hospital, Department of Dermatology, Tokyo

C11-07 [P13-07] Involvement of soluble MICA and NKG2D in the pathomechanisms of alopecia areata

○ Reiko Kageyama, Taisuke Ito, Toshiharu Fujiyama, Tetsuya Honda
Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu

Luncheon Seminar 10

"Systemic Sclerosis"

12:25-13:25

Chairs: Minoru Hasegawa, Masanari Kodera

LS10-1 Treatment of Systemic Sclerosis with Rituximab

○ Satoshi Ebata

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

LS10-2 Antibodyome research for diagnosis with human in vitro proteome

○ Naoki Goshima

Department of Human Science, Musashino University, Tokyo

Co-sponsored by ZENYAKU KOGYO CO., LTD.

December 4, 2022, Room D

Morning Seminar 8

8:00-9:00

Chair: Riichiro Abe

MS8 Recent advances in managing cutaneous T-cell lymphoma

○ Toshihisa Hamada

Department of Dermatology, International University of Health and Welfare Narita Hospital, Narita

Co-sponsored by Minophagen Pharmaceutical Co., Ltd.

Concurrent Oral Session 12 (Patient-Targeted Research/Translational Studies-II)

10:50-12:14

Chairs: Taisuke Ito, Kiarash Khosrotehrani

C12-01 [P08-02] Risk factors for development of generalized pustular psoriasis (GPP) among patients with psoriasis vulgaris (PsV) in Japan

○ Koremasa Hayama¹, Ryoko Iwasaki², Yahui Tian³, Hideki Fujita¹

¹Nihon University School of Medicine, Tokyo, ²Nippon Boehringer Ingelheim Co., Ltd, Tokyo, ³Boehringer Ingelheim (China) Investment Co., Ltd, Shanghai

C12-02 [P08-03] Hydrochlorothiazide augments incidence of squamous cell carcinoma in an elderly Japanese cohort with hypertension: The Shizuoka Study

○ Hideo Hashizume^{1,2}, Eiji Nakatani¹, Yoko Sato¹, Yoshiki Miyachi¹

¹Shizuoka Graduate University of Public Health, Shizuoka, ²Department of Dermatology, Iwata City Hospital, Iwata

C12-03 [P08-04] Attempts at Early Diagnosis of VEXAS Syndrome: A Single-Center Retrospective Analysis of Sweet Syndrome with Hematologic Abnormalities

○ Mari Kishibe, Risa Matsuo, Satomi Igawa, Akemi Ishida-Yamamoto

Department of Dermatology, Asahikawa Medical University, Asahikawa

C12-04 [P08-05] Male predominance and predilection of gluteal involvement in hidradenitis suppurativa of Asians

○ Chia-Bao Chu^{1,2}, Chao-Chun Yang^{1,3}, Shaw-Jenq Tsai^{2,4}

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, ³International Center for Wound Repair and Regeneration, National Cheng Kung University, Tainan, ⁴Department of Physiology, College of Medicine, National Cheng Kung University, Tainan

C12-05 [P08-06] Clinical characteristics and treatments of pemphigus and bullous pemphigoid: analysis using a nationwide inpatient database in Japan

○ Hideaki Miyachi¹, Takaaki Konishi², Yohei Hashimoto², Hiroki Matsui², Kiyohide Fushimi³, Takashi Inozume¹, Hideo Yasunaga²

¹Department of Dermatology, Graduate School of Medicine, Chiba University, Chiba, ²Department of Clinical Epidemiology and Health Economics, School of Public Health, The University of Tokyo, Tokyo, ³Department of Health Policy and Informatics, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Tokyo

C12-06 [P15-04] Utilizing Any Unlabeled Skin Disease Images for Improving Dermatological AI

○ Ryu Tadokoro¹, Kosuke Shido², Kaname Kojima³, Kenshi Yamasaki², Yoshihide Asano²

¹Tohoku University School of Medicine, Sendai, ²Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, ³Tohoku Medical Megabank Organization, Tohoku University, Sendai

C12-07 [P15-05] Keratinocyte-derived circulating exosomal miRNAs as a novel biomarker of disease severity in psoriasis

○ Dong Chan Kim¹, Young Joon Park¹, Ji Young Park¹, Jae Youn Cheong², Eun-So Lee¹

¹The Department of Dermatology, Ajou University School of Medicine, Suwon, ²Ajou Translational Omics Center, Ajou University Medical Center, Suwon

Sponsored Educational Seminar

12:25-13:25

Chair: Kenji Kabashima

SES The role of macrophages during tissue homeostasis and infection

○ Keisuke Nagao
Cutaneous Leukocyte Biology Section, NIAMS, NIH, Maryland

Co-sponsored by Sun Pharma Japan Ltd.

December 2, 8:20 - December 4, 17:00, Digital Poster

Poster Presentation

Category (SE): JSID's Fellowship Shiseido Research Grant

SE-1
[O01-02] **EGFR-mediated epidermal stem cell motility drives skin regeneration through COL17A1 proteolysis**
○ Daisuke Nanba¹, Fujio Toki¹, Kyosuke Asakawa¹, Hiroyuki Matsumura¹, Ken Shiraiishi², Koji Sayama², Kyoichi Matsuzaki³, Hiroshi Toki⁴, Emi K Nishimura¹
¹Division of Aging and Regeneration, Institute of Medical Science, University of Tokyo, Tokyo, ²Department of Dermatology, Ehime University School of Medicine, Toon, ³Department of Plastic and Reconstructive Surgery, International University of Health and Welfare, School of Medicine, Narita, ⁴Health Care Division, Health and Counseling Center, Osaka University, Toyonaka

SE-2
[O01-01] **Protease functions in itch associated with pemphigoid diseases**
○ Sho Hiroyasu^{1,2,3}, Aoi Hiroyasu¹, David J. Granville^{2,3}, Daisuke Tsuruta¹
¹The Department of Dermatology, Osaka Metropolitan University Graduate School of Medicine, Osaka, ²International Collaboration On Repair Discoveries (ICORD) Centre, Vancouver Coastal Health Research Institute (VCHRI), Vancouver, BC, ³Department of Pathology and Laboratory Medicine, University of British Columbia (UBC), Vancouver, BC

Category 1 (P01): Adaptive Immunity

P01-01
[II-2] **Maintenance of pathogenic CD4⁺ tissue-resident memory T cells by CD301b⁺ dendritic cells via CXCL16 in a mouse model of allergic dermatitis**
○ Ryota Asahina, Fuuka Minami, Gyohei Egawa, Satoshi Nakamizo, Kenji Kabashima
Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto

P01-02
[C03-01] **Identification of dendritic cell subsets promoting activation of T lymphocyte in the elicitation phase of murine contact hypersensitivity**
○ Fuuka Minami¹, Ryota Asahina¹, Sachiko Ono¹, Tetsuya Honda², Gyohei Egawa¹, Satoshi Nakamizo¹, Kenji Kabashima¹
¹The Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²The Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu

P01-03
[C03-02] **Fatty-acid binding protein 5 in T cells is required not for the development but for functional activities of skin resident memory T cells**
○ Shuichi Nakai^{1,2}, Rei Watanabe², Manabu Fujimoto²
¹Research Department, Maruho Co., Ltd., Kyoto, ²Department of Dermatology, Osaka University, Osaka

P01-04
[C03-03] **Psychological stress exacerbates skin allergic inflammation by dysfunction of anti-inflammatory M2 macrophages via β 2-adrenergic receptor**
○ Hitoshi Urakami¹, Yuki Fujita², Ayaka Komura², Kei Nagao², Keigo Matsui², Shota Hino², Kensuke Miyake³, Hajime Karasuyama³, Soichiro Yoshikawa^{2,4}, Atsunori Kamiya², Shin Morizane¹
¹Department of Dermatology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, ²Department of Cell Physiology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, ³Inflammation, infection and Immunity Laboratory, Advanced Research Institute, Tokyo Medical and Dental University (TMDU), Tokyo, ⁴Department of Immunology, Juntendo University School of Medicine, Tokyo

P01-05
[C07-01] **T2R38 is expressed on skin-infiltrating lymphocytes and modulates lymphocyte migration**
○ Moe Sakakibara¹, Hayakazu Sumida¹, Keisuke Yanagida², Sosuke Miyasato³, Motonao Nakamura³, Shinichi Sato¹
¹The Department of Dermatology, University of Tokyo, Tokyo, ²Department of Lipid Signaling, National Center for Global Health and Medicine, Tokyo, ³Department of Bioscience, Graduate School of Life Science, Okayama University of Science, Okayama

P01-06
[C07-02] **Tumor necrosis factor-alpha plays pivotal role in both the induction and maintenance of murine GVHD-like dermatitis model**
○ Toshiya Miyake, Gyohei Egawa, Satoshi Nakamizo, Kenji Kabashima
Department of Dermatology, Graduate School of Medicine, Kyoto University, Kyoto

P01-07
[C07-03] **Characteristic keratinocyte death in Stevens-Johnson syndrome/toxic epidermal necrolysis induced by immune checkpoint inhibitors**
○ Haruna Kimura, Akito Hasegawa, Riichiro Abe
The Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata

P01-08
[O10-01] **Oral tolerance inhibits DTH in the sensitization phase by Treg-mediated suppression of DC functions in skin dLNs**
○ Arisa Akagi¹, Rintaro Shibuya¹, Akihiko Kitoh², Sho Hanakawa², Kenji Kabashima^{1,2}
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Singapore Immunology Network and Skin Research Institute of Singapore, Agency for Science, Technology and Research (A*STAR)

- P01-09**
[O10-02] **CD101 defines human epidermal, but not dermal, resident memory regulatory T cells**
○ Youichi Ogawa, Takuya Sato, Shinji Shimada, Tatsuyoshi Kawamura
The Department of Dermatology, University of Yamanashi, Yamanashi
- P01-10**
[O10-03] **Human epidermal CD8⁺ resident memory T cells express TLR5**
○ Takuya Sato, Youichi Ogawa, Shinji Shimada, Tatsuyoshi Kawamura
Department of Dermatology, University of Yamanashi, Yamanashi
- P01-11**
[O10-04] **IL-31 induces pruritus and anxiety-like behavior in mice**
○ Yoichiro Urata¹, Yuki Honda Keith², Akira Honryo¹, Satoshi Nakamizo¹, Gyohei Egawa¹, Tetsuya Honda³, Toshiya Miyake¹, Kenji Kabashima¹
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Immunology Division, Garvan Institute of Medical Research, Sydney, ³Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu
- P01-12**
[O10-05] **Dendritic cell-intrinsic pellino-1 limits T helper 17 cell immune response by intradermal *Candida albicans* skin infection**
○ Jeyun Park¹, Sung Hee Kim¹, Lihua Che^{1,2}, Xinjie Tong¹, Joohee Lee¹, Won Seok Roh¹, Min-Geol Lee¹, Tae-Gyun Kim^{1,3}
¹Department of Dermatology, Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, ²Brain Korea 21 PLUS Project for Medical Science, Yonsei University College of Medicine, Seoul, ³Institute for Immunology and Immunological Diseases, Yonsei University College of Medicine, Seoul
- P01-13**
[O10-06] **IL-33 enhances ACE2 expression on epidermal keratinocytes in atopic dermatitis: a plausible issue of SARS-CoV2 transmission in inflamed skin**
○ Chien-Hui Hong^{1,2}, En-Cheng Lin^{1,2}
¹Department of Dermatology, Kaohsiung Veterans General Hospital, Kaohsiung, ²Department of Dermatology, National Yang Ming Chiao Tung University, Taipei
- P01-14**
[O10-07] **Transcription factor EHF is involved in differentiation and function of Langerhans cells**
○ Nobuhiro Nakano¹, Jiro Kitaura¹, Ko Okumura¹, Hideoki Ogawa^{1,2}, Shigaku Ikeda^{1,2}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo
- P01-15**
[O10-08] **IL-4 Receptor α Blockade Attenuates Experimental Allergic Conjunctivitis Evoked by Skin Inflammation**
○ Hongwei Han¹, Kai-Ting C. Shade¹, Joseph Gans¹, Kazuhiko Arima², Alexandra Hicks¹
¹Sanofi, Cambridge, MA, ²Sanofi Medical Operations, Sanofi K.K., Tokyo
- P01-16**
[O10-09] **IL-9 contributes to DNFB-induced contact hypersensitivity**
○ Shiori Kamiya^{1,2}, Ippei Ikegami², Ryuta Kamekura², Shingo Ichimiya², Hisashi Uhara¹
¹The Department of Dermatology, Sapporo Medical University School of Medicine, Sapporo, ²The Department of Human Immunology, Research Institute for Frontier Medicine, Sapporo Medical University School of Medicine, Sapporo
- P01-17**
[O10-10] **The suppressive effect of kaempferol on atopic dermatitis-like skin inflammation in mice model**
○ Bolor Nasanbat, Akihiko Uchiyama, Syahla N. Amalia, Yuta Inoue, Yoko Yokoyama, Sachiko Ogino, Ryoko Torii, Mari Hosoi, Sei-ichiro Motegi
The Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi
- P01-18**
[O10-11] **Clinical investigation of clinical and histological study in patients with COVID-19 vaccine associated alopecia**
○ Taiyo Hitaka, Yu Sawada, Yumiko Sakuragi, Natsuko Saito-Sasaki, Etsuko Okada
Department of Dermatology, University of Occupational and Environmental Health, Kitakyushu
- P01-19**
[O10-12] **Effects of psychological stressors on the pathogenesis of atopic dermatitis**
○ Qiaofeng Zhao¹, Mitsutoshi Tominaga¹, Sumika Toyama¹, 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

Category 2 (P02): Auto-Immunity

- P02-01**
[II-3] **Type XVII collagen-specific CD4⁺ T cell clones induce the phenotype of bullous pemphigoid in mice by producing Th2 cytokines**
○ Norihiro Yoshimoto¹, Ken Muramatsu¹, Takamasa Ito¹, Zheng Miao¹, Ken Natsuga¹, Hiroaki Iwata¹, Yoshinori Hasegawa², Hiroshi Shimizu¹, Hideyuki Ujiie¹
¹Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo-shi, ²Department of Applied Genomics, Kazusa DNA Research Institute, Kisarazu-shi

- P02-02 [II-6] Clonal CD4⁺ T cells generate CXCL13 without TCR pathway in the pathogenic tertiary lymphoid structures of chronic blisters in pemphigus**
○ Ayeong Lee¹, Dawoon Han¹, Taehee Kim¹, Ji Young Choi¹, Mi Yeon Cho¹, Ahreum Song¹, Tae-Gyun Kim², Doyoung Kim², Soo-Chan Kim³, Jong Hoon Kim¹
¹Department of Dermatology and Cutaneous Biology Research Institute, Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, ²Department of Dermatology and Cutaneous Biology Research Institute, Severance Hospital, Yonsei University College of Medicine, Seoul, ³Department of Dermatology and Cutaneous Biology Research Institute, Yonsei Severance Hospital, Yonsei University College of Medicine, Seoul
- P02-03 [III-2] Interleukin-31 promotes fibrosis and T helper 2 polarization in systemic sclerosis**
○ Ai Kuzumi¹, Kazuki M. Matsuda¹, Hirohito Kotani¹, Satoshi Ebata¹, Takemichi Fukasawa¹, Asako Yoshizaki-Ogawa¹, Kyojiro Morikawa², Yutaka Kazoe³, Kazuma Mawatari², Takehiko Kitamori⁴, Shinichi Sato¹, Ayumi Yoshizaki¹
¹The Department of Dermatology, University of Tokyo, Tokyo, ²Department of Applied Chemistry, Graduate School of Engineering, The University of Tokyo, Tokyo, ³Department of System Design Engineering, Faculty of Science and Technology, Keio University, Yokohama, ⁴Department of Bioengineering, Graduate School of Engineering, The University of Tokyo, Tokyo
- P02-04 [C05-01] Single cell protein analysis of autoantigen-reactive B cells in the autoimmune disease and the murine model**
○ Takemichi Fukasawa, Satoshi Ebata, Asako Yoshizaki, Shinichi Sato, Ayumi Yoshizaki
The Department of Dermatology, University of Tokyo, Tokyo
- P02-05 [C05-02] UVB-induced type-I interferon in keratinocytes is associated with infiltration of CXCL13+ T peripheral helper cells in dermatomyositis skin**
○ Khashayar Afshari¹, Nazgol-Sadat Haddadi¹, Yuqing Wang^{2,3}, Jillian Richmond¹, Ruth Ann Vleugels⁴, Manuel Garber^{2,3}, Mehdi Rashighi¹
¹Department of Dermatology, UMass Chan Medical School, Worcester, ²Program in Bioinformatics and Integrative Biology, UMass Chan Medical School, Worcester, ³Department of Systems Biology, UMass Chan Medical School, Worcester, ⁴Department of Dermatology, Harvard Medical School, Boston
- P02-06 [C05-03] Impact of anti-transcobalamin receptor antibodies on cutaneous arteritis**
○ Kazuki M. Matsuda¹, Hirohito Kotani¹, Kei Yamaguchi^{2,3}, Taishi Okumura^{2,3}, Eriko Fukuda⁴, Masanori Kono⁵, Teruyoshi Hisamoto¹, Ruriko Kawanabe¹, Yuta Norimatsu¹, Ai Kuzumi¹, Maiko Fukayama¹, Takemichi Fukasawa¹, Satoshi Ebata¹, Asako Yoshizaki-Ogawa¹, Tomohisa Okamura⁵, Hirofumi Shoda⁵, Keishi Fujio⁵, Naoki Goshima^{2,3}, Shinichi Sato¹, Ayumi Yoshizaki¹
¹The Department of Dermatology, The University of Tokyo Graduate School of Medicine, Tokyo, ²Molecular Profiling Research Center for Drug Discovery, National Institute of Advanced Industrial Science and Technology, Tokyo, ³ProteoBridge corporation, Tokyo, ⁴Cellular and Molecular Biotechnology Research Institute, National Institute of Advanced Industrial Science and Technology, Ibaraki, ⁵Department of Allergy and Rheumatology, The University of Tokyo Graduate School of Medicine, Tokyo
- P02-07 [C05-04] Autoimmunity against melanoma differentiation-associated protein 5 induces interstitial lung disease in mice**
○ Yuki Ichimura^{1,2}, Risa Konishi^{1,2}, Toshifumi Nomura², Manabu Fujimoto³, Naoko Okiyama¹
¹Department of Dermatology, Graduate School of Medicine and Dental Sciences, Tokyo Medical and Dental University, Tokyo, ²Department of Dermatology, Faculty of Medicine, University of Tsukuba, Tsukuba, ³Department of Dermatology, Course of Integrated Medicine, Graduate School of Medicine, Osaka University, Osaka
- P02-08 [C05-05] Immunomodulating role of the JAKs inhibitor tofacitinib in a mouse model of bleomycin-induced scleroderma**
○ Takashi Matsushita, Wah Wah Aung, Motoki Horii, Kie Mizumaki, Miyu Kano
The Department of Dermatology, Kanazawa University, Kanazawa
- P02-09 [C05-06] Antifibrotic effect of regulating Th17 and regulatory T cell imbalance and intestinal microbiota changes in a systemic sclerosis mouse model**
○ Akiko Sekiguchi¹, Chikako Shimokawa², Tamotsu Kato³, Hajime Hisaeda², Hiroshi Ohno³, Sei-ichiro Motegi¹
¹Department of dermatology, Graduate School of Medicine, Gunma University, Maebashi, ²Department of parasitology, National Institute of Infectious Diseases, Tokyo, ³Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences, Yokohama
- P02-10 [C05-07] A novel ELISA which uses an isolated native autoantigen complex to detect mucous membrane pemphigoid autoantibodies**
○ Shoko Mai¹, Kentaro Izumi¹, Yosuke Mai¹, Ken Natsuga¹, Norito Ishii², Daisuke Sawamura³, Franziska Schauer⁴, Dimitra Kiritsi⁴, Hideyuki Ujiiie¹
¹Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, ²Department of Dermatology, Kurume University School of Medicine, Kurume, ³Department of Dermatology, Hirosaki University Graduate School of Medicine, Hirosaki, ⁴Department of Dermatology, Faculty of Medicine, Medical Center-University of Freiburg, Freiburg
- P02-11 [C10-01] Multiple subregions within the caveolin-1 scaffolding domain inhibit psoriasis-like inflammation**
○ Chika Asai¹, Naoko Takamura¹, Tomoya Watanabe¹, Miho Asami¹, Noriko Ikeda¹, Stanley Hoffman², Yukie Yamaguchi¹
¹Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, Yokohama, ²Division of Rheumatology, Department of Medicine, Medical University of South Carolina, Charleston, South Carolina

- P02-12 [C10-02] Role of platelet-activating factor in the skin and spinal cord in the mechanisms of itch**
 ○ Tomoki Kurioka¹, Risa Tamagawa-Mineoka¹, Mari Nakanishi¹, Midori Kawasaki-Nagano¹, Yukiyasu Arakawa¹, Hiromi Nishigaki¹, Megumi Kishida¹, Tomomi Hashidate-Yoshida², Hideo Shindou^{2,3}, Norito Katoh¹
¹The Department of Dermatology, Kyoto prefectural University of medicine, Kyoto, ²Department of Lipid Life Science, National Center for Global Health and Medicine, Tokyo, ³Department of Medical Lipid Science, Graduate School of Medicine, The University of Tokyo, Tokyo
- P02-13 [C10-03] Blockade of calpain enzymatic activity exerts anti-fibrotic effects in bleomycin-induced systemic sclerosis model mice**
 ○ Hiroshi Kasamatsu¹, Takenao Chino¹, Takumi Hasegawa¹, Natsuko Utsunomiya¹, Akira Utsunomiya¹, Noritaka Oyama¹, Masami Yamada², Minoru Hasegawa¹
¹Department of Dermatology, University of Fukui, Fukui, ²Department of Cell Biology and Biochemistry, University of Fukui, Fukui
- P02-14 [C10-04] TRPV4 regulates psoriasis-like dermatitis via enhancement of Th17 pathway by increasing ATP and neuropeptides production in mouse model**
 ○ Syahla N. Amalia, Akihiko Uchiyama, Hritu Baral, Chisako Fujiwara, Yuta Inoue, Yoko Yokoyama, Sachiko Ogino, Ryoko Torii, Mari Hosoi, Sei-ichiro Motegi
 The Department of Dermatology, Gunma University, Maebashi
- P02-15 [O08-01] Adipose derived regenerative cells improve fibrosis in systemic sclerosis model mice by stimulating IL-10 production in B lymphocytes**
 ○ Hirohito Kotani, Kazuki M. Matsuda, Teruyoshi Hisamoto, Ruriko Kawanabe, Yurika Osuji, Ai Kuzumi, Takemichi Fukasawa, Satoshi Ebata, Asako Yoshizaki-Ogawa, Shinichi Sato, Ayumi Yoshizaki
 The Department of Dermatology, University of Tokyo, Tokyo
- P02-16 [O08-02] Prediction model for rituximab effect on modified Rodnan skin score in systemic sclerosis: a machine learning analysis of the DESIRES trial**
 ○ Satoshi Ebata¹, Koji Oba², Kosuke Kashiwabara³, Keiko Ueda³, Yukari Uemura^{3,4}, Takeyuki Watadani⁵, Takemichi Fukasawa¹, Shunsuke Miura¹, Asako Yoshizaki-Ogawa¹, Shinichi Sato¹, Ayumi Yoshizaki¹
¹Department of Dermatology, The University of Tokyo, Graduate School of Medicine, Tokyo, ²Department of Biostatistics, School of Public Health, Graduate School of Medicine, and Interfaculty Initiative in Information Studies, The University of Tokyo, Tokyo, ³Clinical Research Support Center, The Tokyo University Hospital, Tokyo, ⁴Biostatistics Section, Department of Data Science, Center for Clinical Sciences, National Center for Global Health and Medicine, Tokyo, ⁵Department of Diagnostic Radiology, The University of Tokyo, Graduate School of Medicine, Tokyo
- P02-17 [O08-03] Interleukin-26-DNA complexes promote blister formation and inflammation in bullous pemphigoid**
 ○ Yuka Mizuno, Sayaka Shibata, Yukiko Ito, Haruka Taira, Shinichi Sato
 The Department of Dermatology, University of Tokyo, Tokyo
- P02-18 [O08-04] Exacerbated psoriasis-like inflammation in K14-angiotensin-like protein 2 transgenic mice treated with imiquimod**
 ○ Tomoya Watanabe¹, Yukihiko Watanabe¹, Keishi Miyata², Yuichi Oike², Yukie Yamaguchi¹
¹Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, Yokohama, ²Department of Molecular Genetics, Graduate School of Medical Sciences, Kumamoto University, Kumamoto
- P02-19 [O08-05] Different longitudinal changes in nailfold video capillaroscopy findings among myositis-specific Abs in idiopathic inflammatory myopathy**
 ○ Yasuhito Hamaguchi¹, Naoki Mugii², Motoki Horii¹, Natsumi Fushida¹, Tomoyuki Ikeda¹, Kyosuke Oishi¹, Takashi Matsushita¹
¹Department of Dermatology, Faculty of Medicine, Institute of Medical Pharmaceutical and Health Science, Kanazawa University, Kanazawa, ²Department of Rehabilitation, Kanazawa University Hospital, Kanazawa
- P02-20 [O08-06] The importance of IL-17A for amyloidosis of the liver and spleen induced by inflammatory skin disease**
 ○ Shohei Iida¹, Fumiyasu Momose², Yoshiaki Matsushima¹, Makoto Kondo¹, Koji Habe¹, Yoshifumi Hirokawa³, Masatoshi Watanabe³, Yoichiro Iwakura⁴, Yasutomo Imai⁵, Keiichi Yamanaka¹
¹Department of Dermatology, Mie University Graduate School of Medicine, Tsu, ²Department of Personalized Cancer Immunotherapy, Mie University Graduate School of Medicine, Tsu, ³Department of Oncologic Pathology, Mie University Graduate School of Medicine, Tsu, ⁴Center for Animal Disease Models, Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, ⁵Imai Dermatology Pediatric Dermatology Allergology, Fukushima, Osaka
- P02-21 [O08-07] Upstream signaling in cytokine release from bullous pemphigoid IgG stimulated keratinocytes**
 ○ Jay-V James G. Barit, Sho Hiroyasu, Aoi Hiroyasu, Daisuke Tsuruta
 Department of Dermatology, Osaka Metropolitan University Graduate School of Medicine, Osaka
- P02-22 [O08-08] GPNMB-induced decrease in production of inflammatory cytokines by macrophages may be important for suppression of psoriasis**
 ○ Taro Akatsuka¹, Makoto Sugaya¹, Tomomitsu Miyagaki², Tomonori Oka³, Hiraku Suga³, Ayumi Yoshizaki³, Yoshihide Asano³, Shinichi Sato³
¹Department of Dermatology, International University of Health and Welfare, Narita, Chiba, ²Department of Dermatology, St. Marianna University School of Medicine, Kawasaki, Kanagawa, ³Department of Dermatology, University of Tokyo, Tokyo

- P02-23 [O08-09] Causal relationship between atopic dermatitis and chronic renal disease**
○ Arisa Ikeda^{1,2}, Ge Peng^{1,3}, Hai Le Thanh Nguyen^{1,3}, Juan Valentin Trujillo-Paez¹, Yoshie Umehara¹, Hainan Yue^{1,3}, Saya Tsukamoto^{1,3}, Ko Okumura¹, Hideoki Ogawa¹, Yusuke Suzuki², Shigaku Ikeda^{1,3}, François Niyonsaba^{1,4}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Nephrology, Juntendo University Graduate School of Medicine, Tokyo, ³Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, ⁴Faculty of International Liberal Arts, Juntendo University, Tokyo
- P02-24 [O08-10] Cytokine profiles for predicting the development of COVID-19 vaccine-associated bullous pemphigoid**
○ Midori Sunada¹, Seiko Sugiyama¹, Yukiko Nakahara¹, Mariko Yamane¹, Rehito Mashiko¹, Takenobu Yamamoto², Yumi Aoyama¹
¹The Department of Dermatology, Kawasaki Medical School, Kurashiki, ²The Department of Dermatology, Kawasaki General Medical Center, Okayama
- P02-25 [O08-11] The migration of circulating basophils to the skin is involved in the mechanism of basophil depletion in chronic spontaneous urticaria**
○ Izumi Kishimoto¹, Ni Ma¹, Naotomo Kambe^{1,2}, Hideaki Tanizaki¹
¹The Department of Dermatology, Kansai Medical University, Hirakata, ²Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto
- P02-26 [O08-12] Effects of decanoic acid on imiquimod-induced psoriasis-like dermatitis in mice**
○ Kinuko Irie, Shohei Igari, Toshiyuki Yamamoto
Department of Dermatology, Fukushima Medical University School of Medicine, Fukushima
- P02-27 [O11-01] Detailed serological examinations to examine the pathogenesis of a pemphigus case with oral erosions and pemphigus foliaceus skin lesions**
○ Marie Ohata¹, Takeshi Fukumoto¹, Kosuke Takahashi¹, Norito Ishii², Takashi Hashimoto³, Akiharu Kubo¹
¹Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe, ²Department of Dermatology, Kurume University School of Medicine, Fukuoka, ³Department of Dermatology, Osaka Metropolitan University Graduate School of Medicine, Osaka
- P02-28 [O11-02] Serum cold-inducible RNA-binding protein levels as a potential biomarker for systemic sclerosis**
○ Issei Omori, Hayakazu Sumida, Ayaka Sugimori, Moe Sakakibara, Mariko Urano-Takaoka, Shinichi Sato
Department of Dermatology, the University of Tokyo Graduate School of Medicine, Tokyo
- P02-29 [O11-03] Increased interleukin-9 levels in sera, muscle and skin of patients with dermatomyositis**
○ Kyosuke Oishi, Yasuhito Hamaguchi, Kazuhiko Takehara, Takashi Matsushita
The Department of Dermatology, Kanazawa University, Kanazawa
- P02-30 [O11-04] Ultrasound Visualizes Peripheral Vascular Dysfunction in Finger Pulp Blood Flow in Patients with Mixed Tissue Connective disease**
○ Kazuhiro Komura¹, Minoru Hasegawa²
¹Department of Dermatology, Kanazawa, Red Cross Hospital, Kanazawa, ²Department of Dermatology, Division of Medicine, Faculty of Medical Sciences, University of Fukui, Echizen-cho
- P02-31 [O11-05] Skin inflammation may affect salivary glands and secretion of saliva**
○ Yoshiaki Matsushima¹, Kento Mizutani¹, Shohei Iida¹, Masako Ichishi², Takehisa Nakanishi¹, Karin Okada¹, Ai Umaoka¹, Makoto Kondo¹, Koji Habe¹, Masatoshi Watanabe², Keiichi Yamanaka¹
¹Department of Dermatology, Mie University, Graduate School of Medicine, Tsu, ²Oncologic Pathology, Mie University, Graduate School of Medicine, Tsu
- P02-32 [O11-06] Smoking might be related the development of vitiligo on the hands**
○ Yuki Enomoto, Yoshifumi Kanayama, Kyoko Ikumi, Mai Sakurai, Kan Torii, Aya Yamamoto, Akimichi Morita
Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya

Category 3 (P03): Carcinogenesis and Cancer

- P03-01 [III-4] NY-ESO-1 and XAGE-1B correlate with the formation of tertiary lymphoid structures and prognosis of cutaneous angiosarcoma**
○ Tetsuya Magara, Motoki Nakamura, Yuka Nojiri, Maki Yoshimitsu, Shinji Kano, Akihiro Matsubara, Hiroshi Kato, Akimichi Morita
Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Science, Nagoya
- P03-02 [C08-01] Eribulin mesylate exerts antitumor effects via CD103**
○ Kazumasa Oya¹, Yoshiyuki Nakamura¹, Toshifumi Nomura¹, Yasuhiro Fujisawa^{1,2}
¹Department of Dermatology, University of Tsukuba, Tsukuba, ²Department of Dermatology, Ehime University, To-on
- P03-03 [C08-02] SLFN11 is highly expressed on the tumor cells in CD30 transformed mycosis fungoides and Sezary syndrome**
○ Takatoshi Shimauchi¹, Junko Murai², Tetsuya Honda¹
¹Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, ²Institute for Advanced Biosciences, Keio University, Tsuruoka

- P03-04 [C08-03] Desmoglein 3 changes gene expression profiles in oral squamous cell carcinoma between anchorage-dependent and -independent conditions**
 ○ Michiyoshi Kouno¹, Junichiro Inada², Masaki Minabe², Yurie Akiyama², Kazunari Higa³, Tetsuhiko Tachikawa⁴, Takeshi Nomura², Shinichi Takahashi¹
¹Department of Dermatology, Tokyo Dental College Ichikawa General Hospital, Ichikawa, ²Department of Oral Oncology, Oral and Maxillofacial Surgery, Tokyo Dental College, Ichikawa, ³Cornea Center Eye bank, Tokyo Dental College Ichikawa General Hospital, Ichikawa, ⁴Division of Molecular Diagnosis and Cancer Prevention, Saitama Cancer Center, Saitama
- P03-05 [C08-04] HER2-targeted antibody-drug conjugates regress tumors in preclinical extramammary Paget's disease models**
 ○ Keiko Tokuchi, Takuya Maeda, Teruki Yanagi, Shinya Kitamura, Hideyuki Ujiiie
 Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo
- P03-06 [C08-05] Pro-angiogenic factors might predict the efficacy of bexarotene in advanced cutaneous T cell lymphomas**
 ○ Yumi Kambayashi, Taku Fujimura, Kentaro Ohuchi, Ryo Amagai, Yoshihide Asano
 The Department of Dermatology, University of Tohoku, Sendai
- P03-07 [C08-06] Histological Prognostic Factors of Angiosarcoma**
 ○ Toshio Ichiki^{1,2}, Yuichi Yamada^{2,3}, Takamichi Ito¹, Takeshi Nakahara¹, Yoshinao Oda²
¹Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, ²Department of Anatomic Pathology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, ³Department of Pathology, Fukuoka University hospital and School of Medicine, Fukuoka
- P03-08 [O06-01] Intertumor and intratumor heterogeneity of PIK3CA hotspot mutations in extramammary Paget's disease**
 ○ Yudo Kusaba, Ikko Kajihara, Tselmeg Mijiddorj Myangat, Kenichiro Tanaka, Soichiro Sawamura, Hisashi Kanemaru, Katsunari Makino, Jun Aoi, Shinichi Masuguchi, Satoshi Fukushima
 The Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto
- P03-09 [O06-02] Nectin cell adhesion molecule 4 regulates angiogenesis and serves as a novel therapeutic target in angiosarcoma**
 ○ Yuka Tanaka, Takamichi Ito, Keiko Tanegashima, Gaku Tsuji, Makiko Nakahara, Takeshi Nakahara
 Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka
- P03-10 [O06-03] Large-scale retrospective analysis of a single-center study of bath-PUVA therapy for cutaneous T-cell lymphomas**
 ○ Akihiro Matsubara, Yuki Enomoto, Yoshifumi Kanayama, Mai Sakurai, Kan Torii, Kyoko Ikumi, Aya Yamamoto, Akimichi Morita
 The Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya
- P03-11 [O06-04] Effects of zinc supplementation in proliferation and migration of human squamous cell carcinoma cell lines in vitro**
 ○ Hiroshi Mitsui, Takahiro Sunaga, Tatsuyoshi Kawamura
 The Department of Dermatology, University of Yamanashi, Kofu
- P03-12 [O06-05] Potential Roles of Inducible Co-Stimulator and Inducible Co-Stimulator Ligand in Mycosis Fungoides and Sézary Syndrome**
 ○ Kenta Oka, Takuya Miyagawa, Hiraku Suga, Sayaka Shibata, Hiroaki Kamijo, Yuka Mizuno, Teruyoshi Hisamoto, Issei Omori, Hikari Boki, Naomi Takahashi-Shishido, Shinichi Sato
 Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo
- P03-13 [O06-06] Serum anti p53 autoantibodies in angiosarcoma**
 ○ Mihoko Kiyohara¹, Jun Aoi¹, Ikko Kajihara¹, Saki Otsuka¹, Tsuyoshi Kadomatsu², Satoshi Fukushima¹
¹Department of Dermatology, Faculty of Life Sciences, Kumamoto University, Kumamoto, ²Department of Molecular Genetics, Faculty of Life Sciences, Kumamoto University, Kumamoto
- P03-14 [O06-07] Scinderin in angiosarcoma cell lines and tissues - a potential therapeutic target**
 ○ Yuiko Yonekura¹, Osamu Imamura³, Kosuke Miyai², Kimi Kato², Fumihisa Kumazawa², Yuka Katsurada², Kimiya Sato², Hitoshi Tsuda², Takahiro Satoh¹
¹Department of Dermatology, National Defense Medical College of Saitama, Tokorozawa-shi, ²Department of Basic Pathology, National Defense Medical College, Saitama, Tokorozawa-shi, ³Dept. Biochemistry, National Defense Med. Col., Tokorozawa-shi
- P03-15 [O06-08] Loss of membrane expression of VE-cadherin and β -catenin was correlated with histological nodule formation in scalp angiosarcomas**
 ○ Hiroki Yamamoto, Miho Sashikawa-Kimura, Mayumi Komine, Md Razib Hossain, Tuba Musarrat Ansary, Mamitaro Ohtsuki
 Department of Dermatology, Jichi Medical University, Shimotsuke
- P03-16 [O06-09] Immunomodulatory and pro-angiogenic effects of plasminogen activating inhibitor-1 in tumor microenvironment of melanoma**
 ○ Airi Kobayashi, Taku Fujimura, Kentaro Ohuchi, Hitoshi Terui, Yumi Kambayashi, Yoshihide Asano
 The Department of Dermatology, University of Tohoku, Sendai
- P03-17 [O06-10] Withdrawn**

P03-18 **The prognostic influence of the microbiome on cutaneous squamous cell carcinoma**

[O06-11]

○ Tomoko Tashiro, Yu Sawada, Natsuko Saito-Sasaki, Etsuko Okada
Department of Dermatology, University of Occupational and Environmental Health, Kitakyusyu

P03-19 **Mucosal involvement in a patient with cutaneous CD30-positive T-cell lymphoproliferative disorders**

[O06-12]

○ Koji Habe¹, Shinya Yamamoto¹, Ena Noda¹, Hajime Ishinaga², Koichi Ohshima³, Keiichi Yamanaka¹
¹Department of Dermatology, Mie University Graduate School of medicine, Tsu, ²Department of Otorhinolaryngology, Head and Neck Surgery, Mie University Graduate School of Medicine, Tsu, ³Department of Pathology, Kurume University School of Medicine, Kurume

Category 4 (P04): Cell-Cell Interactions in the Skin

P04-01 **Glycolytic metabolism drives melanocyte senescence characterizing defective melanosome transport**

[I-4]

○ Jin Cheol Kim¹, Young Joon Park¹, Yul Hee Kim¹, Jin Wook Lee², Youngeun Kim¹, So Yeon Myeong³, Tae Jun Park^{4,5}, Hee Young Kang^{1,3,5}
¹The Department of Dermatology, Ajou University School of Medicine, Suwon, ²Department of Dermatology, Chungbuk National University Hospital, Cheongju, ³Department of Medical Sciences, Ajou University Graduate School of Medicine, Suwon, ⁴Department of Biochemistry and Molecular Biology, Ajou University School of Medicine, Suwon, ⁵Inflamm-Aging Translational Research Center, Ajou University School of Medicine, Suwon

P04-02 **Sensory neuronal STAT3 is critical for IL-31 receptor expression and inflammatory itch**

[C10-05]

○ Sotaro Ochiai^{1,2}, Sonoko Takahashi¹, Kenji Kabashima⁴, Masato Kubo^{5,6}, Manabu Nakayama⁷, Takaharu Okada^{2,3}
¹Malaghan Institute of Medical Research, Wellington, ²Laboratory for Tissue Dynamics, RIKEN, Yokohama, ³Graduate School of Medical Life Science, Yokohama City University, Yokohama, ⁴Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ⁵Laboratory for Cytokine Regulation, RIKEN, Yokohama, ⁶Division of Molecular Pathology, Research Institute for Biomedical Science, Tokyo University of Science, Chiba, ⁷Department of Frontier Research and Development, Kazusa DNA Research Institute, Chiba

P04-03 **The role of FcγRIIB in the development of imiquimod-induced psoriasis-like skin inflammation model**

[C10-06]

○ Irisu Nakabori¹, Yasuhito Hamaguchi¹, Kaori Sawada¹, Motoki Horii¹, Natsumi Fushida¹, Tasuku Kitano¹, Wang Chenyang¹, Jia Xibei¹, Yuichi Ikawa², Akito Komuro², Takashi Matsushita¹
¹Department of Dermatology, Faculty of Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Kanazawa, ²Department of Plastic Surgery, Kanazawa University Hospital, Kanazawa

P04-04 **Microdissection-based spatial transcriptomics unraveled orchestrated epidermal-dermal interactions in atopic dermatitis**

[C10-07]

○ Tomohiro Miyai^{1,2}, Hiroshi Kawasaki^{1,2}, Masahito Hosokawa³, Hiroko Matsunaga⁴, Aiko Sekita^{1,2}, Ayano Fukushima-Nomura², Masayuki Amagai², Haruko Takeyama^{3,4}, Haruhiko Koseki^{1,5}
¹Laboratory for Developmental Genetics, RIKEN IMS, Yokohama, ²Department of Dermatology, Keio University School of Medicine, Tokyo, ³Department of Life Science and Medical Bioscience, Waseda University, Tokyo, ⁴Research Organization for Nano & Life Innovation, Waseda University, Tokyo, ⁵Department of Cellular and Molecular Medicine, Chiba University, Chiba

P04-05 **Plasma membrane phosphatidylinositol 4,5-bisphosphate is critical for the intercellular adhesion of keratinocytes**

[O02-01]

○ Kaori Kanemaru¹, Kiyoko Fukami², Yoshikazu Nakamura¹
¹Department of Applied Biological Science, Faculty of Science and Technology, Tokyo University of Science, Noda, ²School of Life Sciences, Tokyo University of Pharmacy and Life Sciences, Hachioji

P04-06 **Analysis of priming effects of TF inducers on synergistic TF expression in human vascular endothelial cells**

[O02-02]

○ Daiki Matsubara¹, Yuhki Yanase², Takuma Kunieda², Kaori Ishii¹, Shunsuke Takahagi¹, Akiyo Tanaka¹, Koichiro Ozawa², Michihiro Hide³
¹Department of Dermatology, Graduate School of Biomedical and Health Sciences, Hiroshima University, Hiroshima, ²Department of Pharmacotherapy, Graduate School of Biomedical and Health Sciences, Hiroshima University, Hiroshima, ³Hiroshima City Hiroshima Citizens Hospital, Hiroshima

P04-07 **Three-dimensional ultrastructural imaging of desmosomes and keratin filaments in the epidermis**

[O02-03]

○ Norito Ishii¹, Keisuke Ohta², Takekuni Nakama¹
¹Department of Dermatology, Kurume University School of Medicine, and Kurume University Institute of Cutaneous Cell Biology, Kurume, ²Division of Microscopic and Developmental Anatomy, Department of Anatomy, Kurume University School of Medicine, Kurume

Category 5 (P05): Epidermal Structure and Barrier Function

- P05-01 [III-4] Spontaneous dermatitis associated with increased sebaceous lipid production in *Tmem79* deficient mice**
 ○ Ari Morimoto^{1,2}, Keitaro Fukuda^{1,2}, Yoshihiro Ito^{1,2}, Umi Tahara^{1,2}, Takashi Sasaki³, Aiko Shiohama¹, Hiroshi Kawasaki^{1,2}, Eiryu Kawakami^{4,5}, Tatsuro Naganuma^{6,7}, Makoto Arita^{6,7}, Hiroyuki Sasaki⁸, Haruhiko Koseki⁹, Takeshi Matsui^{1,2,10}, Masayuki Amagai^{1,2}
¹Department of Dermatology, Keio University School of Medicine, Tokyo, ²Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, Yokohama, ³Center for Supercentenarian Medical Research, Keio University School of Medicine, Tokyo, ⁴Advanced Data Science Project (ADSP), RIKEN Information R&D and Strategy Headquarters, Yokohama, ⁵Artificial Intelligence Medicine, Graduate School of Medicine, Chiba University, Chiba, ⁶Division of Physiological Chemistry and Metabolism, Faculty of Pharmacy, Keio University, Tokyo, ⁷Laboratory for Metabolomics, RIKEN Center for Integrative Medical Sciences, Yokohama, ⁸Occupational Therapy Department, School of Rehabilitation, Tokyo Professional University of Health Sciences, Tokyo, ⁹Laboratory for Developmental Genetics, RIKEN Center for Integrative Medical Sciences, Yokohama, ¹⁰Laboratory for Evolutionary Cell Biology of the Skin, School of Bioscience and Biotechnology, Tokyo University of Technology, Hachioji
- P05-02 [III-3] Human- β -defensin-3 attenuates atopic dermatitis symptoms through activation of autophagy and aryl hydrocarbon receptor signaling pathway**
 ○ Ge Peng^{1,2}, Saya Tsukamoto^{1,2}, Yoshie Umehara², Ko Okumura², Hideoki Ogawa², Shigaku Ikeda^{1,2}, François Niyonsaba^{1,3}
¹Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, ²Atopy/Allergy Research Center, Juntendo University Graduate School of Medicine, Tokyo, ³Faculty of International Liberal Arts, Juntendo University, Tokyo
- P05-03 [C02-01] The antimicrobial peptide AMP-IBP5 relieves skin inflammation in a mouse model of atopic dermatitis through the LRP1 receptor**
 ○ Hai Le Thanh Nguyen^{1,2}, Ge Peng^{1,2}, Juan Valentin Trujillo-Paez¹, Hainan Yue^{1,2}, Yoshie Umehara¹, Ko Okumura¹, Hideoki Ogawa¹, Shigaku Ikeda^{1,2}, François Niyonsaba^{1,3}
¹Atopy (Allergy) Research Center, Juntendo University, Tokyo, ²Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, ³Faculty of International Liberal Arts, Juntendo University, Tokyo
- P05-04 [C02-02] Epidermal expression of Hes1 regulates immune response**
 ○ Mariko Moriyama, Yuko Miyake, Hiroyuki Moriyama
 Pharmaceutical Research and Technology Institute, Kindai University, Higashi-Osaka
- P05-05 [C02-03] Involvement of the aryl hydrocarbon receptor in histamine-evoked acute itch**
 ○ Hainan Yue^{1,2}, Ge Peng^{1,2}, Yoshie Umehara², Hai Le Thanh Nguyen^{1,2}, Saya Tsukamoto^{1,2}, Arisa Ikeda³, Juan Valentin Trujillo-Paez¹, Ko Okumura², Hideoki Ogawa², Shigaku Ikeda^{1,2}, François Niyonsaba^{2,4}
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- P05-06 [C02-04] Ceramide-1-Phosphate Promotes Premature Aging in Human Dermal Fibroblasts Exposed to Diesel Particulate Matter**
 ○ Kyong-Oh Shin¹, Seongeum Kim², Yerim Choi², Sanwoon Back², Yoshikazu Uchida², Kyungho Park²
¹Department of Food Science and Nutrition, Convergence Program of Material Science for Medical and Pharmaceuticals, and Korean Inst. of Nutrition Hallym University, and 2LaSS Lipid Institute, LaSS Inc., Chuncheon, ²Department of Food Science and Nutrition, Convergence Program of Material Science for Medical and Pharmaceuticals, and Korean Inst. of Nutrition Hallym University, Chuncheon
- P05-07 [C02-05] Horse ceramide accentuates glucosylceramide synthase and ceramide synthase 3 by activating PPAR β/δ and/or γ to stimulate ceramide synthesis**
 ○ Tami Igarashi¹, Hiroki Yanagi¹, Masayuki Yagi¹, Masamitsu Ichihashi², Genji Imokawa³
¹Rosette Co., LTD, Tokyo, ²Arts Ginza Clinic, Tokyo, ³Center for Bioscience Research and Education, Utsunomiya University, Utsunomiya
- P05-08 [C02-06] Pyroptosis of keratinocyte in Stevens-Johnson syndrome/toxic epidermal necrolysis**
 ○ Yuki Saito, Akito Hasegawa, Riichiro Abe
 The Department of Dermatology, University of Niigata, Niigata City
- P05-09 [C02-07] Loss of IL-33 causes increased filaggrin protein level without impact on TEWL after tape-stripping**
 ○ Md Razib Hossain, Tuba Musarrat Ansary, Mayumi Komine, Mamitaro Ohtsuki
 The Department of Dermatology, Jichi Medical University, Shimotsuke
- P05-10 [C09-01] Overexpression of sphingomyelin/glucosylceramide deacylase in the epidermis of mice provokes atopic dermatitis-like skin eruptions**
 ○ Miho Kimura¹, Mariko Takada², Hidetoshi Tsuda³, Mayumi Komine¹, Mamitaro Ohtsuki¹, Genji Imokawa²
¹The Department of Dermatology, Jichi Medical University, Shimotsuke, ²University of Utsunomiya, Utsunomiya, ³The Department of human genetics, University of Jichi, Shimotsuke

- P05-11 [O02-04] Western diet alters skin ceramide fraction and reduces skin barrier function**
○ Satoshi Nakamizo¹, Kahbing J Tan², Hyeon-Cheol Lee-Okada³, Reiko Sato², Zachary Chow⁴, Saeko Nakajima¹, John E.A. Common⁴, Kazuko Saeki³, Takehiko Yokomizo³, Florent Ginhoux^{2,4}, Kenji Kabashima^{1,2,4}
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Singapore Immunology Network (SigN), Agency for Science, Technology and Research, ³Department of Biochemistry, Graduate School of Medicine, Juntendo University, Tokyo, ⁴Skin Research Institute of Singapore (SRIS), Agency for Science, Technology and Research
- P05-12 [C09-02] Whole Structural Reconstruction and Quantification of Epidermal Innervation through the Suction Blister Method and Skin-Clearing Technique**
○ Dai Hyun Kim¹, Se Jeong Lee², June Hoan Kim², Sung Jin Park¹, Soo Hong Seo¹, Hyo Hyun Ahn¹, Woong Sun^{2,3}, Byung-Jo Kim⁴, Im Joo Rhyu^{2,3}
¹Department of Dermatology, Korea University College of Medicine, Seoul, ²Department of Anatomy, Korea University College of Medicine, Seoul, ³Division of Brain Korea 21 Plus Program for Biomedical Science, Korea University College of Medicine, Seoul, ⁴Department of Neurology, Korea University College of Medicine, Seoul
- P05-13 [O02-05] Hemidesmosomes contribute to the mechanical strength of epithelial cell sheets adhering to the substrate**
○ Yoshiaki Hirako, Kou Hashimoto
Graduate School of Science, Nagoya University, Nagoya
- P05-14 [O02-06] Sphingosine 1-phosphate receptor 1 (S1PR1) increases epidermal barrier function-related gene expressions in differentiated keratinocytes**
○ Satomi Igawa¹, Manae Takahashi¹, Risa Matsuo¹, Mari Kishibe¹, Akemi Ishida-Yamamoto¹, Anna Di Nardo²
¹The Department of Dermatology, Asahikawa Medical University, Asahikawa, ²Department of Dermatology, School of Medicine, University of California, San Diego, La Jolla
- P05-15 [O02-07] Difamilast, a topical PDE4 inhibitor, restores skin barrier impairment via KPRP in atopic dermatitis**
○ Gaku Tsuji^{1,2}, Akiko Hachiya², 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
- P05-16 [O02-08] Expression of S100-fused proteins in a three-dimensional atopic dermatitis skin**
○ Teruhiko Makino¹, Seiji Yamamoto², Keita Takemoto¹, Megumi Mizawa¹, Tadamichi Shimizu¹
¹The Department of Dermatology, University of Toyama, Toyama, ²The Department of Pathology, University of Toyama, Toyama
- P05-17 [O02-09] Chromogranin A-derived peptide, catestatin, alleviates 2,4-dinitrochlorobenzene-induced atopic dermatitis-like symptoms in a mouse model**
○ Saya Tsukamoto^{1,2}, Ge Peng^{1,2}, Nguyen Hai Le Thanh^{1,2}, Trujillo-Paez Juan Valentin², Yoshie Umehara², Hainan Yue^{1,2}, Arisa Ikeda^{2,4}, Ko Okumura², Hideoki Ogawa², Shigaku Ikeda^{1,2}, François Niyonsaba^{2,3}
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- P05-18 [O02-10] Analysis of thermotropic behavior of free fatty acids in intercellular lipid model of stratum corneum focusing on ceramide chirality**
○ Yasuko Obata¹, Rie Arai¹, Takayuki Furuishi¹, Etsuo Yonemochi¹, Kenya Ishida²
¹Hoshi University, Tokyo, ²Takasago International, Kanagawa
- P05-19 [O02-11] Epithelial cell proliferation and turnover spatially regulate the distributions of ZO-1**
○ Keisuke Imafuku¹, Hiroaki Iwata^{1,2}, Ken Natsuga¹, Makoto Okumura³, Yasuyuki Kobayashi³, Hiroyuki Kitahata⁴, Akiharu Kubo^{5,6}, Masaharu Nagayama³, Hideyuki Ujiie¹
¹The Department of Dermatology, University of Hokkaido, Sapporo, ²The Department of Dermatology, University of Gifu, Gifu, ³The Research Institute of Electronic Science, University of Hokkaido, Sapporo, ⁴The Department of Physics, University of Chiba, Chiba, ⁵The Department of Dermatology, University of Kobe, Kobe, ⁶The Department of Dermatology, Keio University, Tokyo
- P05-20 [O02-12] Keratinocytes depolymerize hyaluronan in a different manner than fibroblasts**
○ Yukiko Mizutani, Minori Abe, Manami Masuda, Shintaro Inoue
Department of Cosmetic Health Science, Gifu Pharmaceutical University, Gifu
- P05-21 [O05-01] Axon growth inhibitory molecule Nogo regulates sensory neuron innervation of epidermis**
○ Ayako Matsuyama, Takaharu Okada
RIKEN Center for Integrative Medical Sciences, Yokohama
- P05-22 [O05-02] Nitration might be one causative factor that lowers the hydrophobicity of corneocytes**
○ Hitoshi Masaki, Yuki Sato, Yuri Okano
CIEL Co., Ltd., Sagami-hara, Kanagawa
- P05-23 [O05-03] Effects of Mucopolysaccharide Polysulfate on Tight Junction Barrier in Human Epidermal Keratinocytes**
○ Rie Tamura¹, Mika Fujikawa¹, Hiroko Sugimoto², Koki Fujikawa¹, Ami Yamagishi¹, Yuhki Ueda¹
¹Kyoto R&D Center, Maruho Co., Ltd., Kyoto, ²Maruho Co., Ltd., Osaka

- P05-24 [O05-04] Downregulation of the low-density lipoprotein receptor-related protein (LRP) 1 promotes the pathogenesis of psoriasis**
 ○ Saori Yoshiba^{1,2}, Ge Peng^{1,2}, Saya Tsukamoto^{1,2}, Hainan Yue^{1,2}, Hai Le Thanh Nguyen^{1,2}, Yoshie Umehara¹, Juan Valentin Trujillo-Paez¹, Arisa Ikeda^{1,3}, Ko Okumura¹, Hideoki Ogawa¹, Shigaku Ikeda^{1,2}, François Niyonsaba^{1,4}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, ³Department of Nephrology, Juntendo University Graduate School of Medicine, Tokyo, ⁴Faculty of International Liberal Arts, Juntendo University, Tokyo
- P05-25 [O05-05] RNA sequencing-based transcriptome profiling of pathogenic genes for seborrheic keratosis**
 ○ Takafumi Miyaki, Mariko Yozaki, Akira Iwanaga, Sayaka Kuwatsuka, Yutaka Kuwatsuka, Hiroyuki Murota
 Department of Dermatology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki
- P05-26 [O05-06] *Macrocystis pirifera* Ferment Affects Several Factors for Skin Barrier Function**
 ○ Jaime Emmetsberger^{1,2}, Donald Collins^{1,2}, Nevena Karaman-Jurukovska², James McCarthy², Whitby Eagle², Thomas Mammone², Nadine Pernodet²
¹Max Huber Research Laboratories, Melville, New York, ²Estee Lauder Companies Research Laboratories, Melville, New York
- P05-27 [O05-07] Skin Barrier Functions in Patients with Systemic Sclerosis and Sjogren's Syndrome**
 ○ Sooyoung Kim¹, Kyung-Ann Lee^{1,2}, Moon Kyun Cho¹, Hyun-Sook Kim²
¹Department of Dermatology, Soonchunhyang University Hospital, Seoul, ²Division of Rheumatology, Department of Internal Medicine, Soonchunhyang University Hospital, Seoul

Category 6 (P06): Genetic Disease, Gene Regulation and Gene Therapy

- P06-01 [III-6] Epidermolytic ichthyosis-associated *KRT1* mutations promote interleukin-18 release from keratinocytes via NLRP3 inflammasome activation**
 ○ Osamu Ansai¹, Ryota Hayashi¹, Toshinari Miyauchi², Tatsuya Katsumi¹, Tomoki Nishiguchi¹, Akito Hasegawa¹, Ken Natsuga², Toshifumi Nomura³, Riichiro Abe¹
¹Division of Dermatology, Niigata University School of Medical and Dental Science, Niigata, ²Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, ³Department of Dermatology, Faculty of Medicine, University of Tsukuba, Tsukuba
- P06-02 [C06-04] Autoinflammatory keratinization disease with hepatitis/autism reveals roles for JAK1 hyperactivity**
 ○ Takuya Takeichi¹, John Y. W. Lee², Yusuke Okuno^{3,4,5}, Yuki Miyasaka⁶, Yuya Murase¹, Takenori Yoshikawa¹, Kana Tanahashi¹, Emi Nishida⁷, Tatsuya Okamoto⁸, Komei Ito⁹, Yoshinao Muro¹, Kazumitsu Sugiura¹⁰, Tamio Ohno⁶, John A. McGrath², Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, ²St Johns Institute of Dermatology, Kings College London (Guys Campus), London, ³Medical Genomics Center, Nagoya University Hospital, Nagoya, ⁴Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, ⁵Department of Virology, Nagoya City University Graduate School of Medical Sciences, Nagoya, ⁶Division of Experimental Animals, Nagoya University Graduate School of Medicine, Nagoya, ⁷Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, ⁸Division of Pediatric Surgery, Department of Surgery, Graduate School of Medicine, Kyoto University, Kyoto, ⁹Department of Allergology, Aichi Childrens Health and Medical Center, Obu, ¹⁰Department of Dermatology, Fujita Health University School of Medicine, Toyoake
- P06-03 [C06-05] Rapid establishment of model mice for recessive dystrophic epidermolysis bullosa with patient-derived mutations**
 ○ Takashi Shimbo¹, Satoshi Takaki^{2,3}, Kentaro Ikegami³, Katsuto Tamai²
¹StemRIM Institute of Regeneration-Inducing Medicine, Osaka University, Osaka, ²Department of Stem Cell Therapy Science, Graduate School of Medicine, Osaka University, Osaka, ³StemRIM Inc, Osaka
- P06-04 [C06-06] Readthrough effect of gentamicin components on a nonsense mutation in *SERPINB7***
 ○ Masae Takeda¹, Toshinari Miyauchi¹, Shotaro Suzuki¹, Jin Teng Peh¹, Hideyuki Ujiie¹, Toshifumi Nomura^{1,2}
¹Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, ²Department of Dermatology, Faculty of Medicine, University of Tsukuba, Tsukuba
- P06-05 [C06-07] Usefulness of mRNA Obtained from Peripheral Blood Mononuclear Cells to Analyze Consequences of Mutations in Epidermolysis Bullosa**
 ○ Eijiro Akasaka, Hajime Nakano, Daisuke Sawamura
 Department of Dermatology, Hirosaki University Graduate School of Medicine, Hirosaki
- P06-06 [O11-07] The age-dependent change of transcribed enhancers in human skin**
 ○ Kosuke Katsuo¹, Satoshi Nakamizo¹, Yasuhiro Murakawa², Kenji Kabashima¹
¹The Department of Dermatology, Kyoto University, Kyoto, ²Institute for the advanced study of human biology, Kyoto University, Kyoto
- P06-07 [O11-08] Clinicopathological and genetic analysis of hybrid schwannoma/neurofibroma tumor**
 ○ Tatsuya Katsumi¹, Ryota Hayashi¹, Osamu Ansai¹, Shingo Takei¹, Rei Yokoyama¹, Akihiko Yuki¹, Sumiko Takatsuka², Tatsuya Takenouchi², Riichiro Abe²
¹Division of dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, ²Division of Dermatology, Niigata Cancer Center Hospital, Niigata

- P06-08 [O11-09] A homozygous loss-of-function variant in the MPO gene is associated with generalized pustular psoriasis**
○ Mami Onitsuka¹, Muhammad Farooq², Shuichiro Yasuno¹, Yutaka Shimomura¹
¹Department of Dermatology, Yamaguchi University Graduate School of Medicine, Ube, ²Department of Bioinformatics, Institute of Biochemistry, Biotechnology and Bioinformatics (IBBB), The Islamia University of Bahawalpur, Punjab
- P06-09 [O11-10] Intrafamilial/interfamilial heterogeneity in hereditary hemorrhagic telangiectasia phenotype due to ACVRL1 variants**
○ Chiaki Murase¹, Takuya Takeichi¹, Tomoki Taki¹, So Takeuchi¹, Aoi Ebata¹, Yukako Muramatsu², Tomoo Ogi³, Masashi Akiyama¹
¹The Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, ²Department of Pediatrics, Nagoya University Hospital, Nagoya, ³Department of Genetics, Research Institute of Environmental Medicine, Nagoya University, Nagoya
- P06-10 [O11-11] Cytologic impacts of two kratin 14 mutations, K14 R125C and K14G364Rfr*118 underlying epidermolysis bullosa simplex generalized severe**
○ Risa Matsuo¹, Mari Kishibe¹, Satomi Igawa¹, Akiharu Kubo², Akemi Ishida-Yamamoto¹
¹The Department of Dermatology, Asahikawa Medical University, Asahikawa, ²Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe
- P06-11 [O11-12] A combined ichthyosis vulgaris/X-linked recessive ichthyosis/atopic dermatitis patient controlled well with heparinoid-containing ointment**
○ Takenori Yoshikawa¹, Yoshimasa Nakane², Takuya Takeichi¹, Michihiro Kono³, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, ²Department of Dermatology, Toyohashi City Hospital, Toyohashi, ³Department of Dermatology and Plastic Surgery, Akita University Graduate School of Medicine, Akita
- P06-12 [O11-13] Elucidation of the role of IL-36 cascade in pustular skin disorders**
○ Akihiko Yamaguchi¹, Toshifumi Takahashi¹, Takashi Satoh², Noriki Fujimoto¹
¹The Department of Dermatology, Shiga University of Medical Science, Otsu, Shiga, ²The Department of Dermatology and Allergy, University Hospital, LMU Munich, Germany, Munich, Bavaria

Category 7 (P07): Innate Immunity, Microbiology, Microbiome

- P07-01 [II-5] JAK-inhibition rescues phenotype in a mouse model of cicatricial alopecia**
○ Keiko Sakamoto¹, Shubham Goel², John T Seykora³, Tetsuya Honda¹, Keisuke Nagao²
¹Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, ²Dermatology Branch, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Bethesda, ³Department of Dermatology, Perelman School of Medicine, University of Pennsylvania, Philadelphia
- P07-02 [C03-04] The number of carbon atoms in fatty acids determines different roles for comedogenesis and inflammatory changes in acne vulgaris**
○ Takashi Sugihira^{1,2,3}, Yumi Matsuoka-Nakamura^{2,4}, Rei Watanabe^{2,3}, Yasunari Sato¹, Tsuyoshi Ishii¹, Manabu Fujimoto^{2,4}
¹Basic Reserch Development Division, Rohto Pharmaceutical Co., LTD., Kyoto, ²Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka, ³Department of Integrative Medicine for Allergic and Immunological Diseases, Graduate School of Medicine, Osaka University, Osaka, ⁴Cutaneous Immunology, Immunology Frontier Research Center, Osaka University, Osaka
- P07-03 [C03-05] Activation of IKK β by linear ubiquitin chain assembly complex (LUBAC) specifically exacerbates a murine imiquimod-induced psoriasis model**
○ Ken I. Kosaka¹, Satoshi Nakamizo¹, Gyohei Egawa¹, Kazuhiro Iwai², Kenji Kabashima¹
¹Departments of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Department of Molecular and Cellular Physiology, Kyoto University Graduate School of Medicine, Kyoto
- P07-04 [C03-06] C10orf99 peptide enhances proinflammatory response in keratinocytes and reduces barrier formation of the epidermis**
○ Teruki Dainichi¹, Yuri Nakano², Hiromi Doi², Satoshi Nakamizo^{2,3}, Saeko Nakajima², Thomas Farkas⁴, Pui Mun Wong³, Vipin Narang³, Ricardo Moreno Traspas³, Eiryu Kawakami^{5,6}, Emma Guttman-Yassky⁷, Oliver Dreesen³, Thomas Litman⁴, Bruno Reversade³, Kenji Kabashima²
¹Kagawa University, Miki-cho, Kagawa, ²Kyoto University, Kyoto, ³A*STAR, Biopolis, ⁴University of Copenhagen, Copenhagen, ⁵RIKEN, Yokohama, ⁶Chiba University, Chiba, ⁷Icahn School of Medicine at Mount Sinai, New York, NY
- P07-05 [O09-01] Impact of systemic treatments on skin mycobiome of atopic dermatitis in comparison to anti-IL-4R α antibody and calcineurin inhibitor**
Hitomi Morisaki¹, ○ Yuta Koike¹, Daisuke Motooka², Mai Matsumoto¹, Motoi Takenaka¹, Hiroyuki Murota¹
¹Department of Dermatology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, ²Department of Infection Metagenomics, Research Institute for Microbial Diseases, Osaka University, Osaka
- P07-06 [C03-07] Changes in peripheral blood mononuclear cell subsets putatively predict response to i.v. steroid pulse therapy to severe alopecia areata**
○ Ryo Takahashi¹, Yohei Sato², Momoko Kimishima², Manabu Ohyama^{1,2}
¹Flow Cytometry Core Facility, Kyorin University Graduate School of Medicine, Mitaka, Tokyo, ²Department of Dermatology, Kyorin University Faculty of Medicine, Mitaka, Tokyo

- P07-07 [O09-02] Inhibition of STING alleviated the clinical symptoms of atopic dermatitis in mouse model**
 ○ Jae-Sang Ryu¹, Han Sai Lee², Young Su Jang³, Jinju Lee², Aram Kim¹, Bo Ram Mok³, Dong Hyun Kim¹, Young Shin Song⁴, Jung U Shin¹
¹Department of Dermatology, Bundang CHA Medical Center, CHA University School of Medicine, Seongnam, ²Department of Biomedical Science, Graduate School, CHA University, Seongnam, ³Department of Biochemistry, CHA University School of Medicine, Seongnam, ⁴Department of Internal Medicine, Bundang CHA Medical Center, CHA University School of Medicine, Seongnam
- P07-08 [O09-03] A microbiota-dependent subset of skin macrophages protects against cutaneous bacterial infection**
 ○ Young Joon Park¹, Byeong Hoon Kang², Hyun-Jin Kim², Ji Eun Oh², Heung Kyu Lee²
¹Department of Dermatology, Ajou University School of Medicine, Suwon, ²Korea Advanced Institute of Science and Technology (KAIST), Daejeon
- P07-09 [O09-04] Epidemiological study of ticks carrying *Aeromonas hydrophila* between endemic and non-endemic area of Japanese spotted fever**
 ○ Makoto Kondo, Yoshiaki Matushima, Shohei Iida, Koji Habe, Keiichi Yamanaka
 The Department of Dermatology, University of Mie, Mie, Tsu
- P07-10 [O09-05] The role of IL-33/γδT/IL-17 signal axis in the pathogenesis of skin inflammation**
 ○ Hongjin Li, Yasutomo Imai, Teruasa Murata, Nobuo Kanazawa
 Department of Dermatology, Hyogo Medical University, Nishinomiya
- P07-11 [O09-06] *S. epidermidis* enhance human β-defensin-3 production via EGFR by inducing TGF-α**
 ○ Rie Ommori, Yuki Nishimura, Fumi Miyagawa, Chinatsu Shobatake, Kohei Ogawa, Satoru Shinkuma, Hideo Asada
 The Department of Dermatology, Nara Medical University, Nara
- P07-12 [O09-07] Time Of Flight-Mass Spectrometry in cutaneous mycobacteriosis: a case of *Mycobacterium lentiflavum* infection**
 ○ Yasuaki Ikuno¹, Toshifumi Takahashi¹, Akihiko Yamaguchi¹, Takeshi Kato¹, Ai Kishita², Noriki Fujimoto¹
¹Department of Dermatology, Shiga University of Medical Science, Otsu, ²Department of Clinical Laboratory, Shiga University of Medical Science, Otsu

Category 8 (P08): Patient Population Research

- P08-01 [I-5] Prenatal exposure to nickel and atopic dermatitis at age 3 years: a birth cohort study with cytokine profiles**
 ○ Chih-Hung Lee^{1,3}, Ji-Chen Ho^{1,3}, Hui-Ju Wen², Shu-Li Wang²
¹Department of Dermatology, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, ²National Institute of Environmental Health Sciences, National Health Research Institutes, Miaoli, ³Department of Dermatology, Chang Gung University, Taoyuan
- P08-02 [C12-01] Risk factors for development of generalized pustular psoriasis (GPP) among patients with psoriasis vulgaris (PsV) in Japan**
 ○ Koremasa Hayama¹, Ryoko Iwasaki², Yuhui Tian³, Hideki Fujita¹
¹Nihon University School of Medicine, Tokyo, ²Nippon Boehringer Ingelheim Co., Ltd, Tokyo, ³Boehringer Ingelheim (China) Investment Co., Ltd, Shanghai
- P08-03 [C12-02] Hydrochlorothiazide augments incidence of squamous cell carcinoma in an elderly Japanese cohort with hypertension: The Shizuoka Study**
 ○ Hideo Hashizume^{1,2}, Eiji Nakatani¹, Yoko Sato¹, Yoshiki Miyachi¹
¹Shizuoka Graduate University of Public Health, Shizuoka, ²Department of Dermatology, Iwata City Hospital, Iwata
- P08-04 [C12-03] Attempts at Early Diagnosis of VEXAS Syndrome: A Single-Center Retrospective Analysis of Sweet Syndrome with Hematologic Abnormalities**
 ○ Mari Kishibe, Risa Matsuo, Satomi Igawa, Akemi Ishida-Yamamoto
 Department of Dermatology, Asahikawa Medical University, Asahikawa
- P08-05 [C12-04] Male predominance and predilection of gluteal involvement in hidradenitis suppurativa of Asians**
 ○ Chia-Bao Chu^{1,2}, Chao-Chun Yang^{1,3}, Shaw-Jenq Tsai^{2,4}
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, ³International Center for Wound Repair and Regeneration, National Cheng Kung University, Tainan, ⁴Department of Physiology, College of Medicine, National Cheng Kung University, Tainan
- P08-06 [C12-05] Clinical characteristics and treatments of pemphigus and bullous pemphigoid: analysis using a nationwide inpatient database in Japan**
 ○ Hideaki Miyachi¹, Takaaki Konishi², Yohei Hashimoto², Hiroki Matsui², Kiyohide Fushimi³, Takashi Inozume¹, Hideo Yasunaga²
¹Department of Dermatology, Graduate School of Medicine, Chiba University, Chiba, ²Department of Clinical Epidemiology and Health Economics, School of Public Health, The University of Tokyo, Tokyo, ³Department of Health Policy and Informatics, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Tokyo

- P08-07 [O09-08] Genome-wide association study for total IgE levels identified novel loci**
○ Kosuke Shido¹, Kaname Kojima², Kenshi Yamasaki¹, Kengo Kinoshita², Yoshihide Asano¹
¹The Department of Dermatology, University of Tohoku, Sendai, ²Tohoku Medical Megabank Organization, Tohoku University, Sendai
- P08-08 [O09-09] Novel idea of skin disease CAD consisting of 2-step CNN models for conventional and non-standardized picture images**
○ Yuta Yanagisawa¹, Kaname Kojima³, Kosuke Shido², Kenshi Yamasaki², Yoshihide Asano²
¹Tohoku University School of Medicine, Sendai, ²Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, ³Tohoku Medical Megabank Organization, Tohoku University, Sendai
- P08-09 [O09-10] Serum RANKL/OPG ratio correlates with severity and suggests fracture's risk in older women with atopic dermatitis**
○ Takashi Sakai^{1,2}, Nadine Herrmann², Laura Maintz², Tim Joachim Nümm², Thomas Welchowski^{2,3}, Thomas Bieber²
¹Department of Dermatology, Faculty of Medicine, Oita University, Yufu-shi, ²Department of Dermatology and Allergy, Christine Kühne-Center for Allergy Research and Education (CK-CARE), University Hospital Bonn, Bonn, ³Department of Medical Biometry, Informatics and Epidemiology, University Hospital Bonn, Bonn
- P08-10 [O09-11] A significant association of anti-OJ antibody-positive patients with cancer shown by a meta-analysis**
○ Yuta Yamashita¹, Kazuki Nishida², Yoshinao Muro¹, Haruka Koizumi¹, Mariko Ogawa-Momohara¹, Takuya Takeichi¹, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, ²Department of Biostatistics Section, Center for Advanced Medicine and Clinical Research, Nagoya
- P08-11 [O09-12] Varicella-zoster virus type E associated with varicella reinfection in the Japanese**
○ Gyohei Egawa, Kenji Kabashima
Department of Dermatology, Kyoto University, Kyoto
- P08-12 [O12-01] A large-scale retrospective analysis of a single center study of bath-psoralen plus ultraviolet A (PUVA) therapy for psoriasis**
○ Mai Sakurai, Kyoko Ikumi, Yuki Enomoto, Yoshifumi Kanayama, Kan Torii, Aya Yamamoto, Akimichi Morita
Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya
- P08-13 [O12-02] The clinical and histological characteristics of 'basophil-high' atopic dermatitis**
○ Natsumi Nagashima¹, Tsukasa Ugajin¹, Kensuke Miyake², Hajime Karasuyama², Takeshi Namiki¹, Naoko Okiyama¹
¹Department of Dermatology, Tokyo Medical and Dental University, Tokyo, ²Advanced Research Institute, Tokyo Medical and Dental University, Tokyo

Category 9 (P09): Patient-Targeted Research

- P09-01 [I-1] Decreased levels of ceramide and cholesterol in the stratum corneum may affect the development of infantile seborrheic dermatitis**
○ Risa Fukuda¹, Ryo Tanaka¹, Naoko Mochimaru¹, Kyongsun Pak², Megumi Kiuchi³, Naoko Hirata⁴, Mari Mitsui⁵, Yukihiko Ohya⁶, Kazue Yoshida^{1,6}
¹Division of Dermatology, National Center for Child Health and Development, Tokyo, ²Division of Biostatistics, Department of Data Management, Center of Clinical Research and Development, National Center for Child Health and Development, Tokyo, ³Department of Corporate Communications, Pigeon Corporation, Tokyo, ⁴Department of Product Development, Pigeon Corporation, Ibaraki, ⁵Center for Maternal-Fetal, Neonatal and Reproductive Medicine, National Center for Child Health and Development, Tokyo, ⁶Allergy Center, National Center for Child Health and Development, Tokyo
- P09-02 [C07-04] Identification and functional characterization of skin resident memory T cells in DIHS/DRESS**
○ Toshiharu Fujiyama¹, Hideo Hashizume², Kazuo Kurihara¹, Reiko Kageyama¹, Yoshiki Tokura³, Tetsuya Honda¹
¹Hamamatsu University School of Medicine, Hamamatsu, ²Iwata City Hospital, Iwata city, ³Chutoen General Medical Center, Kakegawa city
- P09-03 [C07-05] Artificial intelligence-assisted assessment system for identifying treatment-refractory atopic dermatitis lesions**
○ Kenta Nakamoto¹, Yuki Hayashida¹, Yumiko Asanuma¹, Tetsuko Sato¹, Yuma Miyaji², Daisuke Katayama², Tetsushi Koide², Yumi Aoyama¹
¹Dermatology, Kawasaki Medical School, Kurashiki, ²Research Institute for Nanodevices, Hiroshima University, Higashihiroshima
- P09-04 [C07-06] A serum N-linked glycan profile as a candidate biomarker for clinical management of psoriasis**
○ Kentaro Nishimura¹, Noritaka Oyama¹, Takumi Hasegawa¹, Hiroshi Kasamatsu¹, Takenao Chino¹, Takahiro Tokunaga², Kiyoshi Higashi³, Koichi Saito³, Keita Yamada⁴, Minoru Hasegawa¹
¹Department of Dermatology, Faculty of Medical Sciences, University of Fukui, Fukui, ²Medical Research Support Center, University of Fukui Hospital, Fukui, ³Advanced Materials Development Laboratory, Sumitomo Chemical Co., Ltd., Osaka, ⁴Laboratory of Toxicology, Osaka Ohtani University, Tondabayashi

- P09-05 [O07-07] Analysis of circuit clotting development during therapeutic plasmapheresis in bullous pemphigoid**
 ○ Tatsuro Sugai¹, Kentaro Izumi¹, Yosuke Mai¹, Norihiro Yoshimoto¹, Toshinari Miyauchi¹, Yuki Chiba², Keisuke Takesada², Daigo Nakazawa³, Tatsu Tanabe³, Kiyohiko Hotta⁴, Ikuko Iwata⁵, Ichiro Yabe⁵, Hideyuki Ujii¹
¹Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, ²Hokkaido University Hospital Medical Engineering Center, Sapporo, ³Department of Rheumatology, Endocrinology, and Nephrology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, ⁴Department of Renal and Genitourinary surgery, Graduate School of Medicine, Hokkaido University, Sapporo, ⁵Department of Neurology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo
- P09-06 [O07-05] Whole body irradiation is effective against refractory alopecia areata**
 ○ Aya Yamamoto¹, Takuya Furuhashi², Mai Sakurai¹, Yuki Enomoto¹, Kyoko Ikumi¹, Akimichi Morita¹
¹Department of Geriatric and Environmental Dermatology, Nagoya City University, Nagoya, ²Kasugai municipal hospital, Kasugai
- P09-07 [O07-06] Real-world effectiveness and safety of upadacitinib in Japanese patients with atopic dermatitis: Two-center retrospective study**
 ○ Keiji Kosaka, Akihiko Uchiyama, Yuta Inoue, Mai Ishikawa, Sei-ichiro Motegi
 The Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi
- P09-08 [O07-07] Axial involvement in palmoplantar pustulosis**
 ○ Kyoko Ikumi, Akimichi Morita
 Department of Geriatric and Environmental Dermatology, Nagoya City University, Graduate School of Medical Sciences, Nagoya
- P09-09 [O07-08] Combination of TARC and soluble OX40 in the diagnosis of DIHS/DRESS**
 ○ Yasuhiro Mitsui, Satoru Shinkuma, Yuki Nakamura-Nishimura, Rie Ommori, Kohei Ogawa, Fumi Miyagawa, Hideo Asada
 Department of Dermatology, Nara Medical University School of Medicine, Kashihara
- P09-10 [O07-09] Itch sensitization (punctate hyperknesis) in prurigo nodularis and postherpetic itch: implications of reduced intraepidermal nerve fibers**
 ○ Takashi Hashimoto, Satoshi Okuno, Manami Okuzawa, Takahiro Satoh
 Department of Dermatology, National Defense Medical College, Tokorozawa
- P09-11 [O07-10] The salt intake in psoriasis patients**
 ○ Ayaki Matsumoto, Kozo Nakai, Daisuke Tsuruta
 The Department of Dermatology, Metropolitan University of Osaka, Osaka
- P09-12 [O07-11] Patients' assessment of dupilumab self-injection for atopic dermatitis: a single-center questionnaire study**
 ○ Makoto Ito, Masahiro Kamata, Hideaki Uchida, Mayumi Nagata, Saki Fukaya, Kotaro Hayashi, Atsuko Fukuyasu, Takamitsu Tanaka, Takeko Ishikawa, Yayoi Tada
 The Department of Dermatology, Teikyo University School of Medicine, Tokyo
- P09-13 [O07-12] Comparison of the effects of a topical serum with Hydroxypinacolone retinoate to one treatment of a microablative laser treatment**
 ○ Kristine Schmalenberg¹, Lucas Kruger¹, Uma Santhanam¹, David Orentreich², Jodi Logerfo²
¹Global Clinical and Consumer Sciences, Estee Lauder Companies, Melville, New York, ²Orentreich Medical Group, New York

Category 10 (P10): Pharmacology and Drug Development

- P10-01 [I-3] Impact of anti-interleukin-4 receptor alpha antibodies on cutaneous T-cell lymphoma via regulatory T cell induction**
 ○ Teruyoshi Hisamoto, Ruriko Kawanabe, Yurika Osuji, Hirohito Kotani, Kazuki M. Matsuda, Ai Kuzumi, Takemichi Fukasawa, Satoshi Ebata, Asako Yoshizaki-Ogawa, Shinichi Sato, Ayumi Yoshizaki
 The Department of Dermatology, University of Tokyo, Tokyo
- P10-02 [C04-01] Benzimidazole antiparasitics induce semaphorin 3A expression via JNK/AP-1 signaling in normal human epidermal keratinocytes**
 ○ Yayoi Kamata^{1,2}, Mirei Fujita^{1,2}, Mitsutoshi Tominaga^{1,2}, Takahide Kaneko³, Yasushi Suga^{2,3}, Hideoki Ogawa¹, Kenji Takamori^{1,2,3}
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Urayasu, ²Anti-Aging Skin Research Laboratory, Juntendo University Graduate School of Medicine, Urayasu, ³Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu
- P10-03 [C04-02] Possible contribution of both central and peripheral PACAP-PAC1 receptor signaling to itch sensation in mice**
 ○ Takashi Kurihara¹, Kazuyasu Fujii², Youhei Uchida², Tomomi Terawaki¹, Hiroki Saito¹, Sho Kato³, Ryuta Ikeda³, Mayuko Murata³, Yuki Kambe¹, Atsuro Miyata¹, Ichiro Takasaki³, Takuro Kanekura²
¹Department of Pharmacology, Graduate School of Medical and Dental Sciences, Kagoshima University, Kagoshima-shi, ²Department of Dermatology, Graduate School of Medical and Dental Sciences, Kagoshima University, Kagoshima-shi, ³Department of Pharmacology, Graduate School of Science and Engineering for Research, University of Toyama, Toyama

- P10-04 [C04-03] Inhibition of pharyngeal blisters by imatinib on a murine model**
○ Corrine S. De Jesus¹, Satoru Yonekura², Mikako Murase³, Kana Takemoto³, Fumi Matsumoto³, Junpei Anan³, Takashi Nomura², Kenji Kabashima²
¹The Department of Dermatology, Quirino Memorial Medical Center, Quezon City, ²Kyoto University Graduate School of Medicine, Kyoto, ³Mitsubishi Tanabe Pharma Corporation, Osaka
- P10-05 [C04-04] Role of ERK pathway in the pathogenesis of atopic dermatitis and its potential as a therapeutic target**
○ Nahoko Zeze¹, Makiko Kido-Nakahara¹, Gaku Tsuji^{1,2}, Eriko Maehara¹, Yuki Sato¹, Takeshi Nakahara^{1,2}
¹The Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, ²The Research and Clinical Center for Yusho and Dioxin, Kyushu University, Fukuoka
- P10-06 [C04-05] Type 2 Cytokines Sensitize Human Sensory Neurons to Itch-associated Stimuli**
○ Madison Mack¹, Yannick Miron², Paul Miller², Zafer Ozturk¹, Danial Richman¹, Andrew Korotzer³, Paul Bryce¹
¹Sanofi, Cambridge, MA, ²AnaBios, San Diego, CA, ³Regeneron Pharmaceuticals, Tarrytown, NY
- P10-07 [O04-08] Progesterone receptor is a promising target of combination therapy with histone deacetylase inhibitors in cutaneous T-cell lymphoma**
○ Kazuyasu Fujii¹, Rei Noguchi², Yuki Yoshimatsu², Tadashi Kondo², Takuro Kanekura¹
¹The Department of Dermatology, Kagoshima University, Kagoshima, ²Division of Rare Cancer Research, National Cancer Center Research Institute, Tokyo
- P10-08 [C04-06] The protective role of Apocynin on ultraviolet B-induced cellular senescence in human keratinocytes**
○ Tuba Musarrat Ansary, Koji Kamiya, Md Razib Hossain, Mayumi Komine, Mamitaro Ohtsuki
Department of Dermatology, Jichi Medical University, Shimotsuke
- P10-09 [O04-09] Tomentosolic acid attenuates neutrophil-associated psoriasis-like inflammation**
○ Tsong-Long Hwang^{1,2}, Michal Korinek^{1,2}, Pei-Shan Hsieh¹, Pei-Wen Hsieh¹
¹Graduate Institute of Health Industry Technology, Chang Gung University of Science and Technology, Taoyuan, ²Graduate Institute of Natural Products, Chang Gung University, Taoyuan
- P10-10 [O04-10] Effect of the presence or absence of genetic mutations on spesolimab efficacy in patients with a generalized pustular psoriasis (GPP) flare**
○ Yukari Okubo¹, A. David Burden², Min Zheng³, Siew Eng Choon⁴, Diamant Thaci⁵, Ling Li⁶, Christian Thoma⁷, Slaheddine Marrakchi⁸
¹Department of Dermatology, Tokyo Medical University, Tokyo, ²Institute of Infection, Immunity and Inflammation, University of Glasgow, Glasgow, ³Department of Dermatology, Second Affiliated Hospital, Zhejiang University, School of Medicine, Hangzhou, Zhejiang, ⁴Department of Dermatology, Hospital Sultanah Aminah, Clinical School Johor Bahru, Monash University Malaysia, Subang Jaya, ⁵Universitat Zu Luebeck, Luebeck, ⁶Boehringer Ingelheim (China), Investment CO Ltd, Shanghai, ⁷Boehringer Ingelheim International GmbH, Biberach, ⁸Department of Dermatology, Hedi Chaker Hospital, University of Sfax, Sfax
- P10-11 [O04-11] The effect of concomitant plaque psoriasis (PsO) on the efficacy of spesolimab in patients with a generalized pustular psoriasis (GPP) flare**
○ Takeshi Okubo¹, Peter van der Kerkhof², Yukari Okubo³, Lluís Puig⁴, Jorg C. Prinz⁵, Anna J. Nichols⁶, Christian Thoma⁷, Ling Li⁸, Herve Bachelez^{9,10}
¹Nippon Boehringer Ingelheim Co., Ltd, Tokyo, ²Department of Dermatology, Radboud University, Nijmegen, ³Department of Dermatology, Tokyo Medical University, Tokyo, ⁴Department of Dermatology, Hospital de la Santa Creu i Sant Pau, Universitat Autònoma de Barcelona, Barcelona, ⁵Department of Dermatology and Allergy, Ludwig-Maximilian-University Munich, Munich, ⁶Dr. Phillip Frost Department of Dermatology and Cutaneous Surgery, University of Miami Miller School of Medicine, Miami, Florida, ⁷Boehringer Ingelheim International GmbH, Biberach, ⁸Boehringer Ingelheim (China), Investment Co. Ltd., Shanghai, ⁹Service de Dermatologie, Assistance Publique Hôpitaux de Paris Hôpital Saint-Louis, Paris, ¹⁰INSERM Unite 1163, Imagine Institute of Genetic Diseases, Université Paris Cite, Paris
- P10-12 [O04-12] The Cosmetic Functions of Inositol**
○ Yuki Inoue, Tomoki Oguro, Toshio Nakamura, Takuo Tsuno
Planning & Development Dept. TSUNO RICE FINE CHEMICALS CO., LTD, Wakayama
- P10-13 [O04-13] Anti-inflammatory effects of alpha-boswellic acid in DNCB-induced BALB/c mice**
○ Chi-Feng Hung¹, Yu-Jou Hsu²
¹School of Medicine, Fu Jen Catholic University, New Taipei City, ²PhD Program in Pharmaceutical Biotechnology, New Taipei City
- P10-14 [O07-01] Melanin suppressing effect of ferulic acid from rice bran**
○ Tomoki Oguro, Shiori Nakagawa, Toshio Nakamura, Takuo Tsuno
Planning & Development Dept., TSUNO RICE FINE CHEMICALS CO., LTD., Wakayama
- P10-15 [O07-02] Laser-mediated nanoparticle delivery to target siRNA for attenuating psoriasisiform lesion**
○ Jia-You Fang¹, Woan-Ruoh Lee², Zih-Chan Lin¹, Chien-Yu Lin¹
¹Pharmaceutics Laboratory, Chang Gung University, Taoyuan, ²Graduate Institute of Medical Sciences, Taipei Medical University, Taipei

- P10-16**
[O07-03] **Rice bran extract promotes hair growth and inhibits hair loss**
○ Yuho Yamauchi, Toshio Nakamura, Takuo Tsuno
Planning & Development Dept., TSUNO RICE FINE CHEMICALS CO., LTD., Wakayama
- P10-17**
[O07-04] **Indonesian Brown Algae Sargassum crassifolium ethanolic extract accelerated cutaneous wound healing in incision wound-mice model**
○ Anggit L. Sunarwidhi¹, Apriliana Wahyuni¹, Hafifah Djaese¹, Ari Hernawan², Eka S. Prasedya³, Haji Sunarpi³, Ni Wayan R. Martyasari³, Yogi Ambana³, Sri Widyastuti⁴
¹Department of Pharmacy, Faculty of Medicine, University of Mataram, Mataram, ²Department of Informatics Technology, Faculty of Engineering, University of Mataram, Mataram, ³Bioscience and Biotechnology Research Centre, Faculty of Mathematics and Natural Sciences, University of Mataram, Mataram, ⁴Faculty of Food Technology and Agroindustry, University of Mataram, Mataram

Category 11 (P11): Photobiology

- P11-01**
[C08-07] **The landscape of genetic alterations of UVB-induced skin tumors in DNA repair-deficient mice**
○ Ai Yoshioka¹, Hirofumi Nakaoka^{2,3}, Takeshi Fukumoto¹, Ituro Inoue³, Chikako Nishigori^{1,4}, Akiharu Kubo¹, Makoto Kunisada¹
¹Division of Dermatology, Department of Internal Related, Graduate School of Medicine, Kobe University, Kobe, ²Department of Cancer Genome Research, Sasaki Institute, Tokyo, ³Human Genetics Laboratory, National Institute of Genetics, Mishima, ⁴Japanese Red Cross Hyogo Blood Center, Kobe
- P11-02**
[C11-01] **Identification and quantification of senescent cell types in chronologically aged skin and UV-induced skin pathologies**
○ Oliver Dreesen¹, Peh Fern Ong¹, Xin Er Lee¹, Audrey S. Wang¹, Satoshi Nakamizo³, Yoshihiro Ishida³, Kenji Kabashima^{2,3}
¹Cell Aging Laboratory, A*STAR Skin Research Labs, Singapore, ²Skin Immunology Laboratory, A*STAR Skin Research Labs, Singapore, ³Kyoto University, Graduate School of Medicine, Kyoto
- P11-03**
[O03-01] **Bath-PUVA therapy modulates systemic inflammatory proteomic signatures to lower cardiovascular risk**
○ Yoshifumi Kanayama, Kyoko Ikumi, Mai Sakurai, Kan Torii, Yuki Enomoto, Aya Yamamoto, Akimichi Morita
Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya
- P11-04**
[O03-02] **Free radicals and fast action to counteract oxidative damage in skin cells**
○ Nadine Pernodet^{1,2}, Jacqueline Trivero¹, Dawn Layman¹, Antonella Rella¹, Earl Goyarts¹
¹Estée Lauder Companies Research & Development, New York, ²Estée Lauder Research Laboratories, Melville, New York
- P11-05**
[O03-03] **A novel extracorporeal photopheresis using a quartz capillary tube and UVC light-emitting diodes**
○ Hideyuki Masuda^{1,2}, Akimichi Morita¹
¹Department of Geriatric and Environmental Dermatology, Nagoya City University, Nagoya, ²Ushio Inc. Tokyo

Category 12 (P12): Pigmentation and Melanoma

- P12-01**
[III-1] **Blockade of glucose-6-phosphate dehydrogenase induces immunogenic cell death and accelerates immunotherapy in malignant melanoma**
○ Motoki Nakamura, Tetsuya Magara, Maki Yoshimitsu, Yuka Nojiri, Shinji Kano, Hiroshi Kato, Akimichi Morita
Departments of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya
- P12-02**
[III-5] **Immune cell therapy against melanoma by utilizing iPS cell-derived myeloid cell lines producing IFN-beta or IL-15/IL-15 receptor alpha**
○ Satoru Mizuhashi¹, Yosuke Kubo¹, Hisashi Kanemaru¹, Satoshi Nakahara¹, Azusa Miyasita¹, Takayuki Ishibashi¹, Haruka Kuriyama¹, Toshihiro Kimura¹, Shinichi Masuguchi¹, Rong Zhang², Tatsuaki Iwama², Tetsuya Nakatsura², Yasushi Uemura², Satoru Senju³, 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, Tokyo, ³Department of Immunogenetics, Graduate School of Medical Sciences, Kumamoto University, Kumamoto
- P12-03**
[C01-01] **Mixed response to cancer immunotherapy is driven by intratumor heterogeneity and differential inter-lesion immune infiltration**
○ Takashi Inozume^{1,2}, Takao Morinaga², Masahito Kawazu², Shusuke Kawashima^{1,2}, Takehiro Ohnuma⁶, Yukiko Kiniwa⁸, Yu Kawahara^{1,7}, Yoshiyasu Umeda⁷, Yasuhiro Nakamura⁷, Tatsuyoshi Kawamura³, Kazuo Yamashita⁵, Yutaka Suzuki⁹, Hiroyoshi Nishikawa¹⁰, Yosuke Togashi^{2,4}
¹Department of Dermatology, Chiba University, Chiba, ²Chiba Cancer Center, Research Institute, Chiba, ³Department of Dermatology, University of Yamanashi, Yamanashi, ⁴Department of Tumor Microenvironment, Okayama University, Okayama, ⁵KOTAI Biotechnologies Inc, Osaka, ⁶Department of Dermatology and Plastic Surgery, Kumamoto University, Kumamoto, ⁷Department of Skin Oncology/Dermatology, Saitama Medical University International Medical Center, Saitama, ⁸Department of Dermatology, Shinshu University, Matsumoto, ⁹Department of Computational Biology and Medical Sciences, Graduate School of Frontier Sciences, The University of Tokyo, Chiba, ¹⁰Department of Immunology, Nagoya University, Nagoya

- P12-04 [C01-02] MITF specifies melanocytes through repressing neural genes**
○ Akinori Kawakami¹, Miroslav Hejna², Jun Song², Hoang Mai³, Kenji Kabashima¹, David E. Fisher⁴
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Department of Physics, University of Illinois, Urbana, ³Department of Pathology, Massachusetts General Hospital, Harvard Medical School, Boston, ⁴Cutaneous Biology Research Center, Department of Dermatology, Massachusetts General Hospital, Harvard Medical School, Charlestown
- P12-05 [C01-03] LL37 might promote local invasion of melanoma by the stimulation of melanoma cells and tumor-associated macrophages**
○ Kentaro Ohuchi, Taku Fujimura, Ryo Amagai, Yuna Roh, Junko Endo, Yumi Kambayashi, Yoshihide Asano
Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai
- P12-06 [C01-04] The role of T-cadherin in the development of chemical-induced vitiligo; new insights from a genome-wide association study**
○ Ken Okamura¹, Yuko Abe¹, Izumi Naka², Jun Ohashi², Yutaka Hozumi¹, Tamio Suzuki¹
¹Department of Dermatology, Faculty of Medicine, Yamagata University, Yamagata, ²Department of Biological Sciences, Graduate School of Science, The University of Tokyo, Tokyo
- P12-07 [C01-05] Overcoming Immune Checkpoint Inhibitor Resistance to Improve Melanoma Therapy**
Sheena M. Daignault-Mill¹, ○ Davide Moi^{1,2,3}, Bijun Zeng^{1,2,3}, Rituparna Bhatt⁴, Robert J. Ju¹, Gency Gunasingh¹, Liam Griffiths¹, Melina Haritopoulou-Sinanidou¹, Brian Gabrielli⁴, Glen M. Boyle⁵, Roberta Mazzieri^{1,2,3}, Loredana Spoerri¹, Riccardo Dolcetti^{1,2,3}, Nikolas K. Haass¹
¹The University of Queensland Diamantina Institute, The University of Queensland, Brisbane, ²Peter MacCallum Cancer Centre, Melbourne, ³University of Melbourne, Melbourne, ⁴Mater Research Institute, The University of Queensland, Brisbane, ⁵QIMR Berghofer Medical Research Institute, Brisbane
- P12-08 [C01-06] SEMA4A may contribute to a melanocytes-nerve fibers paracrine cross-talk that enhances UVB-induced melanogenesis**
○ Moe Tsutsumi^{1,2}, Onur Egriboz², Ilaria Piccini², Kentaro Kajiya¹, Marta Bertolini²
¹Shiseido Co., Ltd., MIRAI Technology Institute, Yokohama, ²Monasterium Laboratory, Muenster
- P12-09 [C01-07] Proteomic Profiling of Cutaneous Melanoma Identifies Novel Molecular Signatures of Tumour Metastasis**
○ Ali Azimi^{1,2,3}, Ellis Patrick^{3,4}, Rachel Teh^{1,2,3}, Jennifer Kim⁵, Pablo Fernandez-Penas^{1,2,3}
¹Faculty of Medicine and Health, The University of Sydney, Westmead, ²Department of Dermatology, Westmead Hospital, Westmead, ³Centre for Cancer Research, The Westmead Institute for Medical Research, Westmead, ⁴School of Mathematics and Statistics, Faculty of Science, The University of Sydney, Camperdown, ⁵Department of Tissue Pathology and Diagnostic Oncology, Institute of Clinical Pathology and Medical Research, Westmead Hospital, Westmead
- P12-10 [C06-01] Identification of developmental dysfunction of basal keratinocytes in vitiligo lesions induced by anti-PD1 therapy using single-cell RNA-seq**
○ Toshihiro Masuda^{1,2}, Satoshi Nakamizo², Saeko Nakajima², Kenji Kabashima²
¹Research Department, Maruho Co., Ltd., Kyoto, ²Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto
- P12-11 [C06-02] EGF signaling regulates melanogenesis via elevating SCF and ET-1 expression in keratinocytes**
○ Ping Xu^{1,4}, Lingli Yang¹, Yasutaka Kuroda^{1,2}, Sylvia Lai¹, Huimin Zhang⁴, Daisuke Tsuruta³, Ichiro Katayama¹
¹Department of Pigmentation Research and Therapeutics, Graduate School of Medicine, Osaka Metropolitan University, Osaka, ²Biological Science Laboratories, Kao Corporation, Kanagawa, ³Department of dermatology, Graduate School of Medicine, Osaka Metropolitan University, Osaka, ⁴Department of Dermatology, Shuguang Hospital affiliated to Shanghai University of Traditional Chinese Medicine, Shanghai
- P12-12 [C06-03] Induction of tertiary lymphoid structures in a mouse melanoma model under a combination of chemokines and anti-PD-1 inhibitors**
○ Maki Yoshimitsu¹, Motoki Nakamura¹, Shinji Kano¹, Tetsuya Magara², Yuka Nojiri¹, Hiroshi Kato¹, Akimichi Morita¹
¹Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya city, ²Northern Mie Medical Center Inabe General Hospital, Inabe city
- P12-13 [O01-03] Phorbol ester TPA inhibits the proliferation of metastatic melanoma via tyrosine phosphatases, TC-PTP and SH-PTP2**
○ Yuki Akamatsu¹, Mami Onishi¹, Yuki Ichihara¹, Miwa Yamauchi², Taiki Nagano², Masahiro Oka³, Shinji Kamada^{1,2}, Tetsushi Iwasaki^{1,2}
¹Department of Biology, Graduate School of Science, Kobe University, Kobe, ²Biosignal Research Center, Kobe University, Kobe, ³Kita-Harima Medical Center, Ono
- P12-14 [O01-04] NGS-based targeted sequencing unveiled 20% of Japanese patients with albinism were Hermasky-Pudlak Syndrome**
○ Toru Saito, Ken Okamura, Yutaka Hozumi, Tamio Suzuki
Department of Dermatology, Faculty of Medicine, Yamagata University, Yamagata

- P12-15**
[O01-05] **Immune profiling of simultaneous multiple stages of melanoma using spatial transcriptomics**
○ Youngkyoung Lim¹, Beom Keun Cho², Seong-Jun Kang², Hyun Je Kim³, Soyoung Jeong², Chong Hyun Won⁴, Chung-Gyu Park^{2,5}
¹Department of Dermatology, Seoul National University Hospital, Seoul, ²Department of Biomedical Sciences, Seoul National University Gradual School, Seoul, ³Genome Medicine Institute, Seoul National University College of Medicine, Seoul, ⁴Department of Dermatology, Asan Medical Center, University of Ulsan College of Medicine, Seoul, ⁵Cancer Research Institute, Seoul National University College of Medicine, Seoul
- P12-16**
[O01-06] **Expression of Discoidin Domain Receptor 1 and E-cadherin in epidermis affects melanocyte behavior in rhododendrol-induced leukoderma mouse**
○ Yuko Abe, Yutaka Hozumi, Ken Okamura, Tamio Suzuki
Department of Dermatology, Yamagata University Faculty of Medicine, Yamagata
- P12-17**
[O01-07] **Single-cell transcriptomic profiling of melanocytic tumors reveals malignancy-specific cyclin-dependent kinase dynamics**
○ Nicholas Robert Love, Maija Kiuru
Department of Dermatology, University of California at Davis, Sacramento
- P12-18**
[O01-08] **Regulation of aging-associated pigmentation via improvement of senescent fibroblasts**
○ Cathleen Ysulat, Satoshi Yoshimoto, Masato Namekata, Kenji Shimizu
R&D Center, Nikko Chemicals Co., Ltd., Tokyo
- P12-19**
[O01-09] **The expression of dimeric immunoglobulin A (dIgA) in malignant melanoma has the potential for a good prognosis**
○ Akitaka Hata¹, Toshiaki Kogame¹, Takashi Nomura¹, Yosuke Yamamoto², Kenji Kabashima¹
¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, ²Department of Healthcare Epidemiology, Kyoto University Graduate School of Medicine, Kyoto
- P12-20**
[O01-10] **Targeting melanoma plasticity and tumour microenvironment architecture to improve immune cell infiltration**
○ Satoru Sugihara¹, Jacinta Simmons^{2,3}, Yimeng Guan¹, Gency Gunasingh¹, Jordan Kumar¹, Rituparna Bhatt¹, Riccardo Dolcetti^{1,4}, Glen M. Boyle⁵, Loredana Spoerri¹, Nikolas K. Haass¹
¹The University of Queensland, The University of Queensland Diamantina Institute, Brisbane, Queensland, ²School of Biomedical Science, Queensland University of Technology, Brisbane, Queensland, ³QIMR Berghofer Medical Research Institute, Brisbane, Qld, Australia, Brisbane, Queensland, ⁴Peter MacCallum Cancer Centre Department of Oncology, University of Melbourne, Australia, Melbourne, Victoria
- P12-21**
[O01-11] **Beta-blockers induce apoptosis via MEK inhibition in malignant melanoma**
○ Natsuko Saito-Sasaki, Yu Sawada, Etsuko Okada
The Department of Dermatology, University of Occupational and Environmental health, Japan, Kitakyushu
- P12-22**
[O01-12] **Overexpression of NUA2 and phospho-Akt(S473) has a significant impact on development and progression in acral melanomas**
○ Takeshi Namiki¹, Kohei Nojima¹, Masahiro Hayashi², Masakazu Kawaguchi², Tamio Suzuki², Masashi Ishikawa³, Atsushi Tanemura⁴, Ichiro Katayama⁵, Taisuke Mori⁶, Naoya Yamazaki⁷, Hiroki Mori⁸, Yoshiyuki Sasaki⁹, Hiroo Yokozeki¹, Naoko Okiyama¹
¹Department of Dermatology, Tokyo Medical and Dental University, Tokyo, ²Department of Dermatology, Yamagata University, Yamagata, ³Department of Dermatology, Saitama Cancer Center, Saitama, ⁴Department of Dermatology, Osaka University, Osaka, ⁵Department of Dermatology, Osaka City University, Osaka, ⁶Department of Pathology, National Cancer Center Hospital, Tokyo, ⁷Department of Dermatologic Oncology, National Cancer Center Hospital, Tokyo, ⁸Department of Plastic Surgery, Tokyo Medical and Dental University, Tokyo, ⁹Clinical Dental Research Promotion Unit, Tokyo Medical and Dental University, Tokyo
- P12-23**
[O01-13] **Establishment of a mouse model with the *SASH1* mutation**
○ Yuta Araki, Ken Okamura, Yutaka Hozumi, Tamio Suzuki
Department of Dermatology, Yamagata University Faculty of Medicine, Yamagata
- P12-24**
[O04-01] **Dynamic visualization of melanosome endo/phagocytosis during melanin transfer using melanosomes pre-stained with carbocyanine dyes**
○ Seiji Takeuchi^{1,5}, Takeshi Fukumoto¹, Chikako Nishigori¹, Lieve Declercq², Daniel B. Yarosh³, Thomas Mammone⁴, Naoaki Saito⁵
¹Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe, ²Biological Research Department Europe & Asia, Estee Lauder Companies, Oevel, ³Basic Science Research, Estee Lauder Companies, Melville, NY, ⁴Skin Physiology and Pharmacology, Research & Development, Estee Lauder Companies, Melville, NY, ⁵Kobe Skin Research Department, Biosignal Research Center, Kobe University, Kobe
- P12-25**
[O04-02] **Effect of air pollution and polycyclic aromatic hydrocarbons on skin pigmentation**
○ Rachel Phua^{1,2}, Nikolaos Pantelireis¹, Carlos Clavel^{1,2}
¹A*STAR Skin Research Lab (A*SRL), Agency for Science, Technology and Research (A*STAR), Singapore, ²Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore
- P12-26**
[O04-03] **Anti-glycation and anti-sallowness effects of certain materials in 3D skin equivalent models**
○ Tom Mammone^{1,2}, Jaimie Jerome¹, Bin Wei Deng³, Jian (Richard) Cao³, Ewa Markiewicz⁴, Olusola Idowu⁴
¹Estée Lauder Companies Research and Development, Melville, New York, ²Clinique Research Labs, Melville, New York, ³Estée Lauder Companies Research and Development Asia Innovation Center, Shanghai, ⁴HexisLab Limited, Newcastle

- P12-27**
[O04-04] **Performance of near-ultraviolet light dermoscopy for pigmented skin tumors**
○ Akane Minagawa, Maureen T Meling, Hiroshi Koga, Ryuhei Okuyama
The Department of Dermatology, Shinshu University School of Medicine, Matsumoto
- P12-28**
[O04-05] **Anti-glycation properties of phenolic compounds in 3D skin equivalent models and its implications in prevention of premature skin aging**
○ Jaimie Jerome¹, Ewa Markiewicz², Olusola Idowu², Tom Mammon¹
¹Estée Lauder Companies Research and Development, Melville, New York, ²HexisLab Limited, Newcastle
- P12-29**
[O04-06] **Anatomic Mapping of Acral Melanocytic Nevi and Acral Lentiginous Melanomas of Taiwanese Patients**
○ Yi-Shuan Sheen¹, Sheng-Ni Chen², Ming-Hsien Lin¹
¹National Taiwan University Hospital, Taipei, ²National Taiwan University Hospital Hsin-Chu Branch, Hsin-Chu
- P12-30**
[O04-07] **The detection of *BRAF V600E* mutation in malignant melanoma: the experience of a single institute**
○ Cheng-Lin Wu^{1,2}, Yi-Lin Chen^{1,3}, Shu-Ching Yang¹, Wan-Li Chen¹, Hui-Wen Wang², Wan-Ning Huang², Chung-Liang Ho^{1,4}
¹Department of Pathology, National Cheng Kung University Hospital, Tainan, ²Institute of Clinical Medicine, College of Medicine, National Cheng Kung University, Tainan, ³Department of Medical Laboratory Science and Biotechnology, College of Medicine, National Cheng Kung University, Tainan, ⁴Institute of Molecular Medicine, College of Medicine, National Cheng Kung University, Tainan

Category 13 (P13): Skin, Appendages, and Stem Cell Biology

- P13-01**
[II-1] **The extracellular matrix fibulin-7 maintains epidermal stem cell population balance during skin aging**
○ Aiko Sada^{1,2}, Erna Raja^{1,2}, Gopakumar Changarathil², Lalhaba Oinam², Yen X Ngo^{1,2}, Jun Tsunozumi³, Ryutaro Ishii², Takako Sasaki⁴, Kyoko Imanaka-Yoshida⁵, Hiromi Yanagisawa²
¹International Research Center for Medical Sciences (IRCMS), Kumamoto University, Kumamoto, ²Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, Tsukuba, ³Department of Pharmaceutical Sciences, Kyushu University of Health and Welfare, Miyazaki, ⁴Department of Biochemistry II, Oita University, Oita, ⁵Department of Pathology and Matrix Biology, Mie University Graduate School of Medicine, Mie
- P13-02**
[C11-02] **Sox2 in the Dermal Papilla regulates Hair Follicle Pigmentation**
○ Carlos Clavel
A*STAR Skin Research Labs (A*SRL), Singapore
- P13-03**
[C11-03] **Discover Melanocyte Heterogeneity in the Human Interfollicular Epidermis**
○ Ken Uda, Toshiyuki Homma, Tomoko Tashiro
FUJIFILM corporation, Kanagawa
- P13-04**
[C11-04] **Significance of thermal stimulation for assessment of inflammation and immune dysregulation in acquired idiopathic generalized anhidrosis**
○ Yurie Shimoda, Yoshiko Mizukawa, Yoshimi Yamazaki, Manabu Ohyama
Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo
- P13-05**
[C11-05] **CD147 antagonist peptide-9 ameliorates the imiquimod-induced psoriatic dermatitis in mice**
○ Aoi Okubo¹, Youhei Uchida¹, Yuko Higashi¹, Takuya Sato², Youichi Ogawa², Akihiro Ryuge^{3,4}, Kenji Kadomatsu¹, Takuro Kanekura¹
¹The Department of Dermatology, University of Kagoshima, Kagoshima, ²Department of Dermatology, Faculty of Medicine, University of Yamanashi, Yamanashi, ³Department of Nephrology, Nagoya University Graduate School of Medicine, Aichi, ⁴Department of Biochemistry, Nagoya University Graduate School of Medicine, Aichi
- P13-06**
[C11-06] **ITGA6+ dermal sheath cup cells promote cell migration in autologous cell-based therapy for patterned hair loss**
○ Yumiko Ishimatsu-Tsuji^{1,2}, Shiro Niyama², Ryokichi Irisawa³, Kazutoshi Harada³, Jiro Kishimoto¹, Ryoji Tsuboi³
¹Shiseido Co., Ltd MIRAI Technology Institute, Frontier Business R&D Center, Regenerative Medicine Research & Business Development Department, Yokohama, ²Toho University Ohashi Medical Center, Department of Dermatology, Tokyo, ³Tokyo Medical University Hospital, Department of Dermatology, Tokyo
- P13-07**
[C11-07] **Involvement of soluble MICA and NKG2D in the pathomechanisms of alopecia areata**
○ Reiko Kageyama, Taisuke Ito, Toshiharu Fujiyama, Tetsuya Honda
Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu
- P13-08**
[O03-04] **Mucopolysaccharide polysulfate promotes stabilization of dermal microvessels via the angiotensin-1/Tie2 pathway**
○ Yuhki Ueda, Shiori Fujiwara-Sumiyoshi, Mika Fujikawa, Miho Osaki, Koki Fujikawa, Naoki Yamanaka
Kyoto R&D Center, Maruho Co., Ltd., Kyoto
- P13-09**
[O03-05] **Dermal adipocytes activate hair follicle stem cells through metabolic communication**
○ Kang-Yu Tai¹, Chih-Lung Chen², Sabrina Mai-Yi Fan³, Tso-Yu Chang², Maksim V. Plikus⁴, Sung-Jan Lin^{2,3}
¹Genome and System Biology Degree Program, National Taiwan University and Academia Sinica, Taipei, ²Department of Biomedical Engineering, National Taiwan University, Taipei, ³Department of Dermatology, National Taiwan University Hospital, Taipei, ⁴University of California Irvine, Irvine, California, ⁵Department of Biomedical Research, National Taiwan University Hospital, Taipei

- P13-10 [O03-06] Protective effects of a moisturizer on eccrine sweating impairment in the murine footpad by restoring skin blood flow by NO production**
 ○ Hironobu Ishimaru¹, Takaaki Doi^{1,2}, Yoshiko Mizukawa², Tetsuo Shiohara²
¹Kyoto R&D Center, Maruho Co., Ltd., Kyoto, ²Department of Dermatology, Kyorin University School of Medicine, Mitaka
- P13-11 [O03-07] Heated cigarette aerosols cause skin aging via activation of aryl hydrocarbon receptors**
 ○ Shinji Kano, Motoki Nakamura, Maki Yoshimitsu, Yuka Nojiri, Tetsuya Magara, Akimichi Morita
 Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya
- P13-12 [O03-08] Tracing the origin of hair follicle stem cells**
 ○ Ritsuko Morita¹, Noriko Sanzen¹, Hiroko Sasaki¹, Tetsutaro Hayashi², Mana Umeda², Mika Yoshimura², Takaki Yamamoto^{3,4}, Tatsuo Shibata⁴, Takaya Abe⁵, Hiroshi Kiyonari⁵, Yasuhide Furuta^{5,6}, Itoshi Nikaido^{2,7,8}, Hironobu Fujiwara¹
¹Laboratory for Tissue Microenvironment, RIKEN Center for Biosystems Dynamics Research, Kobe, ²Laboratory for Bioinformatics Research, RIKEN Center for Biosystems Dynamics, Kobe, ³Nonequilibrium Physics of Living Matter RIKEN Hakubi Research Team, RIKEN Center for Biosystems Dynamics Research, Kobe, ⁴Laboratory for Physical Biology, RIKEN Center for Biosystems Dynamics Research, Kobe, ⁵Laboratory for Animal Resources and Genetic Engineering, RIKEN Center for Biosystems Dynamics Research, Kobe, ⁶Mouse Genetics Core Facility, Sloan Kettering Institute, Memorial Sloan Kettering Cancer Center, New York, ⁷Graduate School of Science and Technology, University of Tsukuba, Tsukuba, ⁸Functional Genome Informatics, Medical Research Institute, Tokyo Medical and Dental University, Tokyo
- P13-13 [O03-09] Estimation of severity of itch from success probability of itch-extinguishing 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
- P13-14 [O03-10] Spatial numerical difference of human dermal resident memory T cells**
 ○ Yoshinori Muto, Youichi Ogawa, Shinji Shimada, Tatsuyoshi Kawamura
 The Department of Dermatology, University of Yamanashi, Chuo, Yamanashi
- P13-15 [O03-11] Hair-follicle-associated pluripotent (HAP) stem cells can differentiate into cardiomyocyte subtypes**
 ○ Nanako Takaoka^{1,2}, Michiko Yamane^{1,2}, Ayami Hasegawa^{1,2}, Koya Obara², Kyoumi Shirai², Yuko Hamada², Nobuko Arakawa², Ryoichi Aki², Robert M. Hoffman^{3,4}, Yasuyuki Amoh²
¹Department of Dermatology, Kitasato University Graduate School of Medical Science, Sagamihara, ²Department of Dermatology, Kitasato University School of Medicine, Sagamihara, ³AntiCancer, Incorporated, San Diego, ⁴Department of Surgery, University of California San Diego, San Diego
- P13-16 [O03-12] A single administration of Neurotrophin reduces dry skin-mechanical allodysplasia in mice**
 ○ Eriko Komiya¹, Kotaro Honda¹, Yui Toyosawa^{1,2}, Sumika Toyama¹, Go Kojima^{1,2}, Yayoi Kamata¹, Mitsutoshi Tominaga¹, Kenji Takamori^{1,2}
¹Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Graduate School of Medicine, Juntendo University, Urayasu, ²Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu
- P13-17 [O03-13] Female Scalp Age-related Loss of Transcriptional and Proteomic Signature In Hair Follicle and Interfollicular Dermal Fibroblasts**
 ○ M. Julie Thornton¹, R. Williams¹, R. Baker¹, G.E. Westgate¹, A.D. Pawlus², J. Zguris²
¹Centre for Skin Sciences, Faculty of Life Sciences, University of Bradford, Bradford, ²Aveda, Hair Innovation & Technology, Minneapolis

Category 14 (P14): Tissue Regeneration and Wound Healing

- P14-01 [I-2] FLI1 deficiency-induced paradoxical Th2 polarization in response to IFN- γ possibly contributes to skin fibrosis in systemic sclerosis**
 ○ Tetsuya Ikawa^{1,2}, Takuya Miyagawa², Yuki Fukui², Satoshi Toyama², Jun Omatsu², Kentaro Awaji², Yuta Norimatsu², Yusuke Watanabe², Ayumi Yoshizaki², Shinichi Sato², Yoshihide Asano^{1,2}
¹Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, ²Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo
- P14-02 [C09-03] The cutaneous capillary loop maintains epidermal stem/progenitor cells by the control of pericytes behavior**
 ○ Mika Sawane, Ryota Kami, Makiko Komata, Taiki Tsutsui, Hirofumi Aoki, Kentaro Kajiyama
 MIRAI Technology Institute, Shiseido Co., Ltd, Yokohama
- P14-03 [C09-04] Epidermis-specific SOX2 overexpression suppressed pressure ulcer formation after cutaneous I/R injury via enhancement of AREG production**
 ○ Yuta Inoue, Akihiko Uchiyama, Mai Ishikawa, Keiji Kosaka, Yoko Yokoyama, Sachiko Ogino, Ryoko Torii, Mari Hosoi, Sei-ichiro Motegi
 The Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi

- P14-04 [C09-05] TRPV4 promotes cutaneous wound healing by enhancing keratinocyte migration and granulation tissue formation via activation of MAPK signaling**
○ Sahori Yamazaki, Bayarmaa Taivanbat, Akihiko Uchiyama, Syahla N. Amalia, Yuta Inoue, Mai Ishikawa, Keiji Kosaka, Yoko Yokoyama, Sachiko Ogino, Ryoko Torii, Mari Hosoi, Sei-ichiro Motegi
The Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi
- P14-05 [C09-06] Herpes simplex virus-induced murine dry skin model through sweating disturbance**
○ Yumiko Asanuma¹, Hironobu Ishimaru², Tetsuko Sato¹, Takenobu Yamamoto¹, Yumi Aoyama¹
¹The Department of Dermatology, Kawasaki Medical School, Kurashiki, ²Department of Pharmacology, Kawasaki Medical School, Kurashiki
- P14-06 [O12-03] Three-dimensional visualization of cutaneous lymphatic vasculature and their morphological changes in aging and disease**
○ Enkhtuul Gantumur¹, Nao Itai¹, Kyoko Tsujita¹, Shinsuke Akita², Kentaro Kajiya¹
¹MIRAI Technology Institute, Shiseido CO., LTD, Yokohama, ²Department of Plastic, Reconstructive, and Aesthetic Surgery, Graduate School of Medicine, Chiba University, Chiba
- P14-07 [C09-07] Endovascular progenitors express PDGFR α and contribute to fully differentiated endothelium in aorta and wounds**
○ Cassandra Styke¹, Simranpreet Kaur^{1,2}, Seen Ling Sim¹, Jilai Zhao¹, Abbas Shafiee^{1,3}, Chenhao Zhou¹, Ho Yi Wong¹, Kiarash Khosrotehrani¹
¹University of Queensland Diamantina Institute, Brisbane, ²Mater Research, Brisbane, ³Queensland University of Technology, Brisbane
- P14-08 [O12-04] Dimethyl fumarate ameliorates delayed wound healing due to IL-36Ra deficiency through suppression of NET formation and oxidative stress**
○ Hiroyuki Ito¹, Yohei Iwata¹, Yurie Hasegawa¹, Mizuki Sugiura¹, Masashi Akiyama², Kazumitsu Sugiura¹
¹Department of Dermatology, Fujita Health University School of Medicine, Aichi, ²Department of Dermatology, Nagoya University Graduate School of Medicine, Aichi
- P14-09 [O12-05] Wound occlusion inhibits wound-induced hair neogenesis by increasing tissue stiffness**
○ Allen S.W. Oak, Arben Nace, Ruiheng Yang, Ying Zheng, George Cotsarelis
Department of Dermatology, University of Pennsylvania School of Medicine, Philadelphia
- P14-10 [O12-06] TGF β 1 secretion via extracellular vesicles drives fibroblast induced tissue contraction**
○ Khek-Chian Tham¹, Thankiah Sudhaharan², Keng-Hwee Chiam³, Seong Soo Lim¹, Graham D. Wright², Carine Bonnard¹, John E.A. Common¹
¹A*STAR Skin Research Labs, Agency for Science, Technology and Research, Singapore, ²A*STAR Microscopy Platform, Research Support Centre, Agency for Science, Technology and Research, Singapore, ³Bioinformatics Institute, Agency for Science, Technology and Research, Singapore
- P14-11 [O12-07] ASC-J9 inhibits cell proliferation and extracellular matrix production of keloid fibroblasts through interrupting STAT3 signaling**
○ Yi-Kai Hong^{1,2}, Chen-Han Wu⁵, Yu-Chen Lin^{1,2}, Yu-Lun Huang^{1,2}, Kuo-Shu Hung⁴, Tsung-Pin Pai⁵, Yen-Ting Liu⁵, Tzu-Chi Chen⁵, Hardy Chan⁵, Chao-Kai Hsu^{1,2,3}
¹Department of Dermatology, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan City, ²International Center for Wound Repair and Regeneration (iWRR), National Cheng Kung University, Tainan City, ³Institute of Clinical Medicine, College of Medicine, National Cheng Kung University, Tainan City, ⁴Department of Surgery, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan City, ⁵Allianz Pharmascience Ltd. (now Annji Pharmaceutical Co. Ltd.), Taipei City
- P14-12 [O12-08] Regulation of endovascular progenitors by myeloid Wls activity in cutaneous wound healing**
○ Seen Ling Sim¹, Antje Blumenthal¹, Simranpreet Kaur^{1,2}, Kiarash Khosrotehrani¹
¹The University of Queensland Diamantina Institute, Brisbane, ²Mater Research-UQ, Brisbane
- P14-13 [O12-09] The active form of vitamin D, calcitriol, regulates the skin tight junction barrier *in vitro* and *in vivo* diabetic models**
○ Juan Valentin Trujillo-Paez¹, Hai Le Thanh Nguyen^{1,2}, Yoshie Umehara¹, Hainan Yue^{1,2}, Ge Peng^{1,2}, Shigaku Ikeda², Ko Okumura¹, Hideoki Ogawa¹, François Niyonsaba^{1,2,3}
¹Atopy (Allergy) Research Center, Juntendo University, Tokyo, ²Department of Dermatology and Allergology, Juntendo University, Tokyo, ³Faculty of International Liberal Arts, Juntendo University, Tokyo
- P14-14 [O12-10] Cell-to-cell interaction and the activation of JAK/STAT pathway via WNT5A in keloid scar development**
○ Young In Lee^{1,3}, Seoyoon Ham¹, Sooyeon Choi¹, Jihee Kim^{1,3}, Won Jai Lee^{2,3}, Ju Hee Lee^{1,3}
¹Department of Dermatology, Severance Hospital, Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, ²Department of Plastic and Reconstructive Surgery, Severance Hospital, Yonsei University College of Medicine, Seoul, ³Scar Laser and Plastic Surgery Center, Yonsei Cancer Hospital, Yonsei University College of Medicine, Seoul

- P14-15**
[O12-11] **Antimicrobial peptide human β -defensins induce the secretion of angiogenic factor angiogenin from human dermal fibroblasts**
 ○ Yoshie Umehara¹, Miho Takahashi², Hainan Yue¹, Juan Valentin Trujillo-Paez¹, Ge Peng¹, Hai Le Thanh Nguyen¹, Ko Okumura¹, Hideoki Ogawa², François Niyonsaba^{1,3}
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- P14-16**
[O12-12] **Augmentation of lymphangiogenic actions by cyclic phosphatidic acid through LPA1/3/6 pathways in human dermal lymphatic endothelial cells**
 ○ Katsuki Okuyama, Takashi Sato
 Department of Biochemistry, Tokyo University of Pharmacy and Life Sciences, Hachioji, Tokyo

Category 15 (P15): Translational Studies

- P15-01**
[O05-08] **Macrophage activation promotes hypohidrosis**
 ○ Tadatsune Iida¹, Takeshi Namiki¹, Daisuke Kobayashi², Hiroo Yokozeki¹, Naoko Okiyama¹
¹Department of dermatology, Tokyo Medical and Dental University, Tokyo, ²Department of human pathology, Tokyo Medical and Dental University, Tokyo
- P15-02**
[I-6] **Macrophage-derived CXCL10 mediates immune checkpoint inhibitor-induced severe skin toxicity**
 ○ Chun-Bing Chen
 Department of Dermatology, Drug Hypersensitivity Clinical and Research Center, Chang Gung Memorial Hospital, Linkou
- P15-03**
[C04-07] **Rapid thawing method intensifies tissue destruction during cryoablation by increasing inflammation and oxidative stress**
 ○ Mai Ishikawa, Akiko Sekiguchi, Keiji Kosaka, Yuta Inoue, Akihiko Uchiyama, Sei-ichiro Motegi
 The Department of Dermatology, University of Gunma, Maebashi
- P15-04**
[C12-06] **Utilizing Any Unlabeled Skin Disease Images for Improving Dermatological AI**
 ○ Ryu Tadokoro¹, Kosuke Shido², Kaname Kojima³, Kenshi Yamasaki², Yoshihide Asano²
¹Tohoku University School of Medicine, Sendai, ²Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, ³Tohoku Medical Megabank Organization, Tohoku University, Sendai
- P15-05**
[C12-07] **Keratinocyte-derived circulating exosomal miRNAs as a novel biomarker of disease severity in psoriasis**
 ○ Dong Chan Kim¹, Young Joon Park¹, Ji Young Park¹, Jae Youn Cheong², Eun-So Lee¹
¹The Department of Dermatology, Ajou University School of Medicine, Suwon, ²Ajou Translational Omics Center, Ajou University Medical Center, Suwon
- P15-06**
[O05-09] **A new SDS-inducible irritant CD model shows H1 antihistamine-refractory itch and upregulated gene expression of IL-4 and Th17/Th22 cytokines**
 ○ Toru Kimitsu^{1,2}, Toshiro Takai¹, Seiji Kamijo¹, Yurie Masutani^{1,2}, Tomoko Yoshimura^{1,2}, Saori Ichikawa³, Saya Shimizu¹, Takasuke Ogawa², Keiko Takada^{1,2}, Mitsutoshi Tominaga⁴, Hajime Suto¹, Kenji Takamori⁴, Hideoki Ogawa², Ko Okumura¹, Shigaku Ikeda^{1,2}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, ²Department of Allergology and Dermatology, Juntendo University Graduate School of Medicine, Tokyo, ³Department of Materials and Biological Sciences, Japan Women's University, Tokyo, ⁴Juntendo Itch Research Center (JIRC), Juntendo University Graduate School of Medicine, Chiba
- P15-07**
[O05-10] **Artificial intelligence for the automated single-shot assessment of psoriasis severity**
 ○ Takashi Okamoto¹, Masataka Kawai², Shinji Shimada¹, Tatsuyoshi Kawamura¹
¹The Department of Dermatology, University of Yamanashi, Yamanashi, ²The Department of Pathology, University of Yamanashi, Yamanashi
- P15-08**
[O05-11] **Characterizing the Immunopathogenesis of pathogen-induced Severe Cutaneous Adverse Reactions**
 ○ Reid Oldenburg¹, Bob Geng², Yanfang Zhu³, Caitlyn Kellogg¹, Ben Croker³
¹The Department of Dermatology, University of California San Diego, San Diego, ²Rady Children's Specialists of San Diego, Division of Immunology, San Diego, ³Department of Pediatrics, University of California San Diego, San Diego
- P15-09**
[O05-12] **Study on the efficacy and safety of post-biotics cosmetics on skin aging phenotype**
 ○ Sang Gyu Lee, Jihee Kim, Young In Lee, Ju Hee Lee
 Department of Dermatology, Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul

Late abstract submission

- L-01 An intrinsic MESOTRYPSIN inhibitor SERPINB12 is regulating corneocyte desquamation and denucleation**
○ Masashi Miyai¹, Junichiro Hiruma^{1,2}, Akira Motoyama¹, Haruyo Yamanishi¹, Mariko Egawa¹, Mami Yamamoto-Tanaka^{1,2}, Takuya Asai¹, Yasuyuki Ozeki¹, Ryoji Tsuboi¹, Toshihiko Hibino¹
¹Shiseido Co., Ltd. MIRAI Technology Institute, Yokohama, ²Department of Dermatology, Tokyo Medical University, Tokyo, ³Department of Electrical Engineering and Information Systems, Graduate School of Engineering, The University of Tokyo, Tokyo
- L-02 GENERALIZED VERRUCCOSIS ON A BACKGROUND OF 3C SYNDROME**
○ Ryo Fukaura¹, Chiaki Murase¹, Kana Tanahashi¹, Yoshitaka Sato², Masaaki Kawase³, Kohji Kato⁴, Satoko Miyatake^{5,6}, Naomichi Matsumoto⁵, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, ²Department of Virology, Nagoya University Graduate School of Medicine, Nagoya, ³Department of Dermatology, The Jikei University School of Medicine, Katsushika Medical Center, Tokyo, ⁴School of Biochemistry, Faculty of Life Sciences, Biomedical Sciences Building, University of Bristol, Bristol, ⁵Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Kanagawa, ⁶Department of Clinical Genetics, Yokohama City University Hospital, Yokohama, Kanagawa
- L-03 Unsupervised expression profiling of circulating immune cells in severe Korean atopic dermatitis patients by scRNA-seq**
○ Seon-Pil Jin^{1,2}, Kyungchun Lee³, Yoon Ji Bang⁴, Ji Su Lee¹, Chung-Gyu Park¹, Seunghee Hong³, Hyun Je Kim^{4,5}, Dong Hun Lee^{1,2}
¹Department of Dermatology, Seoul National University Hospital, Seoul, ²Department of Dermatology, Seoul National University College of Medicine, Seoul, ³Department of Biochemistry, College of Life Science and Biotechnology, Yonsei University, Seoul, ⁴Department of Biomedical Sciences, Seoul National University Graduate School, Seoul, ⁵Genome Medicine Institute, Seoul National University College of Medicine, Seoul
- L-04 Adiponectin-derived pentapeptide ameliorates psoriasiform skin inflammation by suppressing IL-17 production in $\gamma\delta$ T cells**
○ Joong Heon Suh^{1,2,3}, Yuri Lee^{1,2,3}, Jungyoon Ohn^{1,2}, Eun Ju Kim², Tae-Gyun Kim⁴, Jin Ho Chung^{1,2,3}
¹Department of Dermatology, Seoul National University College of Medicine, Seoul, ²Department of Dermatology, Seoul National University Hospital, Seoul, ³Department of Biomedical Sciences, Graduate School, Seoul National University Graduate School, Seoul, ⁴Department of Dermatology, Yonsei University College of Medicine, Seoul
- L-05 Diagnostic value of EMA immunohistochemistry in differentiating atopic dermatitis from psoriasis and lichen simplex chronicus**
○ Jang Hwan Jung, Sun Mun Jeong, Do Ik Kwon, Ji Yun Jang, Jong Bin Park, Kee Suck Suh, Min Soo Jang
Department of Dermatology, Kosin University College of Medicine, Busan
- L-06 Visualization and functional characterization of basement membrane dynamics in developing mouse hair follicle**
○ Duligengaowa Wuergelzen^{1,2}, Eleonore Gindroz¹, Ritsuko Morita¹, Kei Hashimoto¹, Takaya Abe³, Hiroshi Kiyonari³, Hironobu Fujiwara^{1,2}
¹Laboratory for Tissue Microenvironment, RIKEN Center for Biosystems Dynamics Research, Kobe, ²Graduate School of Medicine, Osaka University, Suita, ³Laboratory for Animal Resources and Genetic Engineering, RIKEN Center for Biosystems Dynamics Research, Kobe
- L-07 Topical Skullcapflavone II attenuates atopic dermatitis-like inflammation in mice**
○ Youngae Lee^{1,2,3}, Jang-Hee Oh^{1,2,3}, Na Li^{1,2,3,4}, Hyun-Jae Jang⁵, Kyung-Seop Ahn⁵, Sei-Ryang Oh⁵, Dong Hun Lee^{1,2,3}, Jin Ho Chung^{1,2,3,4}
¹Department of Dermatology, Seoul National University College of Medicine, Seoul, ²Institute of Human-Environment Interface Biology, Medical Research Center, Seoul National University, Seoul, ³Laboratory of Cutaneous Aging Research, Biomedical Research Institute, Seoul National University Hospital, ⁴Department of Biomedical Sciences, Seoul National University Graduate School, Seoul, ⁵Natural Medicine Research Center, Korea Research Institute of Bioscience and Biotechnology, Cheong-ju, Chungcheongbuk-do
- L-08 Histone deacetylase 4 reverses cellular senescence via DDIT4 in dermal fibroblasts**
Yuri Lee^{1,2,3}, Min Ji Song^{1,2,3}, Ji Hwan Park⁴, Mi Hee Shin^{1,3}, Min-Kyoung Kim^{1,3}, Daehee Hwang⁵, Dong Hun Lee^{1,3}, Jin Ho Chung^{1,2,3,6}
¹Department of Dermatology, Seoul National University College of Medicine, Seoul, ²Department of Biomedical Sciences, Seoul National University Graduate School, Seoul, ³Institute of Human-Environment Interface Biology, Medical Research Center, Seoul National University, Seoul, ⁴Department of New Biology, DGIST, Daegu, ⁵Department of Biological Sciences, Seoul National University, Seoul, ⁶Institute on Aging, Seoul National University, Seoul
- L-09 ATP dynamics in the aging process**
○ Masamichi Yamamoto, Daiki Watanabe, Choi Jungmi, Yuki Okamoto, Mari Matsumoto, Aki Ohmachi
National Cerebral and Cardiovascular Center, Research Institute, Suita
- L-10 Current physicians' recognition and treatment pattern of alopecia areata in Japan: a cross-sectional database study using Adelphi Japan DSP**
○ Masayo Sakaki-Yumoto¹, Kazumasa Kamei², Kouki Nakamura¹, Jenny Austin³, Simran Marwaha³, Peter Anderson³, Manabu Ohyama⁴
¹Medical Affairs, Pfizer Japan, Tokyo, ²Health & Value, Pfizer Japan, Tokyo, ³Adelphi Real World, Bollington, ⁴Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo

- L-11 Investigation of the keratinocyte transcriptome altered in diabetic wounds: An in-vitro model system for precision medicine**
 ○ Yang-Yi Chen^{1,2}, Shu-Mei Huang³, Meng-Chi Yen^{1,4}, Cheng-Che E. Lan^{2,3}
¹Graduate Institute of Clinical Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, ²Department of Dermatology, Kaohsiung Medical University Hospital, Kaohsiung, ³Department of Dermatology, College of Medicine, Kaohsiung Medical University, Kaohsiung, ⁴Department of Emergency Medicine, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung
- L-12 Darier disease successfully treated with a topical agent containing vitamin A (retinyl palmitate), vitamin E and urea**
 ○ Tomoki Taki¹, Akira Miyazaki^{1,2}, Takuya Takeichi¹, Michihiro Kono³, Hiroaki Yagi⁴, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Aichi, ²Dermatology, Toyohashi Municipal Hospital, Aichi, ³Department of Dermatology and Plastic Surgery, Akita University Graduate School of Medicine, Akita, ⁴Department of Dermatology, Shizuoka General Hospital, Shizuoka
- L-13 Zinc promotes cell proliferation thorough Akt activation in benign melanoma**
 ○ Yuki Ichihara¹, Yuki Akamatsu¹, Yuya Mihara², Taiki Nagano³, Norizo Saito⁴, Hayato Tokumoto⁴, Tetsushi Iwasaki^{1,2,3}, Shinji Kamada^{1,2,3}
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- L-14 Paraneoplastic subacute cutaneous lupus erythematosus in a patient with metastatic melanoma**
 ○ Georgina Heddle
 Royal Adelaide Hospital, Australia
- L-15 Transcriptomic differences between surgical and non-surgical keloids**
 ○ Seoyoon Ham¹, Nu Ree Cha², Jihee Kim^{1,2}, Kyung Bae Chung¹, Mi Yeon Cho², Ju Hee Lee¹
¹Department of Dermatology and Cutaneous Biology Research Institute, Severance Hospital, Yonsei University College of Medicine, Seoul, ²Department of Dermatology, Yongin Severance Hospital, Yongin
- L-16 Shockwave therapy alleviates imiquimod-induced psoriasis-like skin lesions in mice by increasing production of IL-10 from M2 macrophage**
 ○ Shang-Hung Lin, Chih-Hung Lee
 Department of Dermatology, Kaohsiung Chang Gung Memorial Hospital and Chang Gung University College of Medicine, Kaohsiung
- L-17 Scalp and gut microbiome in Female Pattern Hair Loss - a promising therapeutic target ?**
 ○ Monisha Madhumita^{1,2}, Boopathy John², Aftab Jameela¹
¹Department of Dermatology, Saveetha Medical College, Chennai, ²John Hair Growth Clinic, Chennai
- L-18 Interleukin-36 cytokines are overexpressed in the skin and sera of patients with bullous pemphigoid**
 ○ Roberto Maglie¹, Laura Mercurio², Martina Morelli², Stefania Madonna², Adele Salemme², Maria Efenesia Baffa¹, Lavinia Quintarelli¹, Giovanni Maria Di Zenzo³, Emiliano Antiga¹, Cristina Albanesi²
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- L-19 Clinical and immunological impact of booster immunization with recombinant mRNA vaccines for SARS-CoV-2 in patients with pemphigus and bullous pemphigoid**
 ○ Solimani F, A. Mesas, E. Bodner, M. Carevic-Neri, T. Jakovljevicova, A. Philipp, A. Nast, M. Worm, F. J. Hilke, K. Meier, K. Ghoreschi
 Department of Dermatology, Venereology and Allergology, Charité-Universitätsmedizin Berlin
- L-20 BERBERINE, THE ISOQUINOLINE ALKALOIDS OF COPTIS CHINENSIS ACT AGAINST MALIGNANT WOUND**
 ○ Ayu Dila Tasetiningrum¹, Moh Dany Eryanto^{1,2}
¹Faculty of Medicine, Islamic University of Indonesia, ²General Practitioner EMC Hospital, Tangerang
- L-21 Effects of Long-pulsed Alexandrite Laser treatment on Microbiome in Rosacea Patients**
 ○ Jihee Kim^{1,2}, Seo Yoon Ham¹, Sujin Park¹, Ji Young Kim¹, Yun Na Lee¹, Yu Jeong Bae¹, Sang Ho Oh¹
¹Department of Dermatology and Cutaneous Biology Research Institute, Severance Hospital, Yonsei University College of Medicine, Seoul, ²Department of Dermatology, Yongin Severance Hospital, Yongin