



Program

The 44th Annual Meeting of the Japanese Society for Investigative Dermatology

Dermatological researches in a new era "REIWA"





Timetable

| 1st Day, November 8, Friday, 2019 | | | | | |
|--|---|--|--|---|------------------|
| Room A | Room B | Room C | Room D | Poster Venue 1&2 | Exhibition Venue |
| 3F Kujaku (East&South) | 3F Hamanasu | 3F Asunaro | 4F Kinkei | 3F Kujaku (West) & Utou | 3F Lobby |
| 8:00 | | | | | |
| 8:20-8:30 | Opening | | | | |
| 8:30-10:00 | | | | 8:30-12:00 | |
| 9:00 | | | | Put up Posters | 9:00-18:00 |
| | | | | | |
| | | | | | |
| 10:00 | | | | | |
| 10:05-11:29 | 10:05-11:29 | 10:05-11:29 | 10:05-11:29 | | |
| Autoimmunity/Inflammation-I 【C01-1~C01-7】 (T. Kawamura, K. Sayama, H. Asada) | Carcinogenesis/Growth Factors/Signal Transduction/Cancer Genetics, Epidemiology/Health Service Research 【C02-1~C02-7】 (T. Kadono, H. Fujita, M. Hasegawa) | Immunology 1: Adaptive Immunity 【C03-1~C03-7】 (Y. Asano, M. Sugaya, M. Jinnin) | Tissue Regeneration/Stem Cell and Wound Healing 【C04-1~C04-7】 (M. Amano, S. Motegi, J. Meephansan) | | |
| 11:00 | | | | | |
| 11:40-12:40 | 11:40-12:40 | 11:40-12:40 | 11:40-12:40 | 12:00-18:40 | |
| Luncheon Seminar 1 (S. Sato, M. Fujimoto) M. Jinnin, A. Yoshizaki NOV division, TOKIWA Pharmaceutical Co.,Ltd. | Luncheon Seminar 2 (M. Ohtsuki, Y. Tokura) R. Watanabe, H. Nakajima Eli Lilly Japan K.K./ TORII PHARMACEUTICAL CO.,LTD | Luncheon Seminar 3 (H. Amano) T. Honda, Y. Yamaguchi AbbVie GK | Luncheon Seminar 4 (M. Akiyama) S. Ishii, S. Nakajima Mitsubishi Tanabe Pharma Corporation/ Teikoku Seiyaku Co., Ltd. | P.167 | P.169 |
| 12:00 | | | | | |
| 12:50-13:50 | | | | | |
| POLA PHARMA RISING STAR AWARD 2018 & 2019 (A. Morita, K. Kabashima, M. Fujimoto) R. Abe, Y. Asano POLA PHARMA INC. | | | | | |
| 13:00 | | | | | |
| 13:50-14:20 | 2018 JSID's Fellowship Shiseido Research Grant Presenter: R. Fujiwara 2019 JSID's Fellowship Shiseido Research Grant Presenter: R. Fujiwara Diploma of Dermatological Scientist Presenter: A. Morita JSID Honorary Membership Presenter: A. Morita | | | | |
| 14:00 | | | | | |
| 14:20-14:50 | | | | | |
| LEO Foundation Awards 2019 | | | | | |
| Award Ceremony | | | | | |
| 15:00 | | | | 14:50-15:20 | |
| | | | | Poster Viewing | |
| 15:30-17:30 | 15:30-17:30 | 15:30-16:30 | 15:30-16:30 | | |
| International Psoriasis Symposium (J. Barker, C. Griffiths) H. Bachelez, M. Murakami, K. Sugiura, J. Barker, C. Griffiths | JDS Symposium (R. Abe) A. Mauviel, J. A. McGrath, S. Motegi, C. C. E. Lan, O. Dreesen, O. Kwon, H. Habernickel, R. Abe | Afternoon Seminar 1 (L. Gildea) A. Morita, S. E. Lee, G. Egawa Mary Kay Inc. | Afternoon Seminar 2 (M. Amagai, K. Kabashima) F. O. Nestle, B. S. Kim Sanofi K.K. | P.99 | P.107 |
| 16:00 | | | | | |
| 17:00 | | | | | |
| 17:40-18:35 | 17:40-18:35 | 17:40-18:35 | | | |
| One-minute presentation 1 "Come to see my poster" 【O1-01~O1-52】 (S. Ikeda) | One-minute presentation 2 "Come to see my poster" 【O2-01~O2-53】 (T. Tanaka) | One-minute presentation 3 "Come to see my poster" 【O3-01~O3-53】 (H. Yokozeki) | | | |
| 18:00 | | | | | |
| | | | | | |
| 19:00 | | | | 18:40-20:30 | |
| JSID's Fellowship Shiseido Research Grant, Autoimmunity/Inflammation, Pigmentation and Melanoma | Carcinogenesis/Growth Factors/Signal Transduction/Cancer Genetics, Cell Adhesion/Matrix/Vascular Biology, Human Clinical Research and Therapeutics, Epidermal Structure and Function, Hair and Cutaneous Development | Epidemiology/Health Service Research, Genetic Disease/Gene Regulation and Gene Therapy, Tissue Regeneration/Stem Cell and Wound Healing, Immunology 1: Adaptive Immunity, Immunology 2: Innate Immunity and Microbiology, Photobiology | | Poster Discussion (odd Number) (18:40-19:30) & Welcome Reception | |
| 20:00 | | | | | |

取得可能単位数 2単位 1単位 「機構認定専門医制度の単位取得について」セッション開始までに必ず会場前の受付機にて来場チェックを行ってください。

2nd Day, November 9, Saturday, 2019

| | Room A | Room B | Room C | Room D | Poster Venue 1&2 | Exhibition Venue |
|-------|---|--|--|---|---|------------------|
| | 3F Kujaku (East&South) | 3F Hamanasu | 3F Asunaro | 4F Kinkei | 3F Kujaku (West) & Utou | 3F Lobby |
| 8:00 | 8:00-9:00 Morning Seminar 1 (K. Igawa, N. Katoh) G. Tsuji, A. Otsuka Sanofi K.K. P.161 | 8:00-9:00 Morning Seminar 2 (S. Sano) T. Yamamoto Janssen Pharmaceutical K.K./ TAIHO PHARMACEUTICAL CO., LTD. P.163 | | | | |
| 9:00 | 9:10-10:40 Plenary Session II [II-1~II-6] (A. Morita, M. Akiyama, K. Tamai) | | | | 8:30-18:35 P.195 | 9:00-18:00 |
| 11:00 | 10:50-11:20 Tanioku Kihei Memorial Lecture (D. Sawamura) P. Nghiem P.90 | | | | Poster Presentation | Exhibition |
| | 11:20-11:50 JSID Award Lecture (A. Morita) T. Honda P.94 | | | | | |
| 12:00 | 11:50-12:00 JSID Kisaragi Award (A. Morita) T. Hirano, H. Nomura P.95 | | | | | |
| 13:00 | 12:10-13:10 Luncheon Seminar 5 (T. Inozume) A. Otsuka, T. Fujimura ONO PHARMACEUTICAL CO., LTD./ Bristol-Myers Squibb K.K. P.175 | 12:10-13:10 Luncheon Seminar 6 (S. Aiba) K. Beebe, N. Pernodet The Estée Lauder Companies Inc. P.177 | 12:10-13:10 Luncheon Seminar 7 (Y. Tada, M. Seishima) E. Nishida, S. Morizane Novartis Pharma K.K. Medical Division/ Maruho Co.,Ltd Medical Affairs Dept. P.179 | 12:10-13:10 Luncheon Seminar 8 (K. Yamanaka) E. Toichi, M. Komine Janssen Pharmaceutical K.K./ TAIHO PHARMACEUTICAL CO., LTD. P.181 | | |
| 14:00 | 13:20-14:50 The 19th & 20th Galderma-Maruho Research Award Presentations by award winners and award ceremony Maruho Co.,Ltd./Galderma K.K. P.147 | (Y. Tokura, M. Amagai, S. Sato) K. Yamamura, S. Nakagawa, T. Takahashi, T. Takeichi, H. Kamijo, T. Nomura, N. Kusuda, Y. Kaku-Ito | | | | |
| 15:00 | 15:00-16:24 Autoimmunity/ Inflammation-II [C05-1~C05-7] (W. Nishie, Y. Aoyama, D. Tsuruta) | 15:00-16:24 Epidermal Structure and Function [C06-1~C06-7] (A. Kubo, M. Komine, C. C. E. Lan) | 15:00-16:24 Photobiology, Pigmentation and Melanoma [C07-1~C07-7] (T. Makino, T. Fujimura, J. Common) | 15:00-16:24 Human Clinical Research and Therapeutics [C08-1~C08-7] (Y. Yamaguchi, Y. Suga, D. L. Huu) | | |
| 17:00 | | 16:35-18:35 State-of-the-Art Symposium (M. Hide, H. Nakano) K. Tamai, J. A. McGrath, A. Mauviel, M. Kawasumi P.121 | 16:35-18:35 Symposium on Basic Medical Sciences (S. Yamazaki, H. Fujiwara) H. Fujiwara, J. W. Shin, S. Yamazaki, Y. Okada, E. K. Nishimura P.127 | 16:35-17:25 Afternoon Seminar 3 (T. Suzuki) H. Koguchi-Yoshioka, N. Kanazawa Celgene K.K. Medical Affairs P.188 | | |
| 18:00 | | | | 17:35-18:35 Evening Seminar (K. Yamasaki, T. Mabuchi) Y. Imai, K. Sugiura Kyowa Kirin Co.,Ltd. P.190 | | |
| 19:00 | | | | | 18:35-19:25 Poster Discussion (Even Number) | |
| 20:00 | 19:30-21:00 Social Gathering | [Award Ceremony] SID/JSID Young Fellow Collegiality Awards Presenter: R. Gallo ESDR/JSID Young Fellow Collegiality Awards Presenter: C. Griffiths ASDR/JSID Exchange Program Presenter: K. Khosrotehrani TSID/JSID Young Fellow Collegiality Awards Presenter: C. C. E. Lan KSID/JSID Young Fellow Collegiality Awards Presenter: M. G. Lee | | | | |

Chair: ()

3rd Day, November 10, Sunday, 2019

| 3rd Day, November 10, Sunday, 2019 | | | | | |
|--|---|--|---|---|-------------------|
| Room A | Room B | Room C | Room D | Poster Venue 1&2 | Exhibition Venue |
| 3F Kujaku (East&South) | 3F Hamanasu | 3F Asunaro | 4F Kinkei | 3F Kujaku (West) & Utou | 3F Lobby |
| 8:00 | 8:00-9:00 P.164 | 8:00-9:00 P.165 | | | |
| | Morning Seminar 3 (A. Morita) C. C. E. Lan USHIO INC. | Morning Seminar 4 (H. Torii) K. Hayama, M. Kamata Eisai Co., Ltd./AbbVie GK | | | |
| 9:00 | | | | 8:30-12:30 P.195 | 9:00-12:30 |
| 9:15-10:45 | | | | Poster Presentation | Exhibition |
| Plenary Session III [III-1~III-6] (M. Amagai, K. Kabashima, O. Kwon) | | | | | |
| 10:00 | | | | | |
| 11:00 | 11:00-12:24 | 11:00-12:24 | 11:00-12:24 | | |
| Autoimmunity/ Inflammation-III, Cell Adhesion/Matrix/ Vascular Biology [C09-1~C09-7] (H. Ujiie, H. Fujita, T. Matsushita) | Genetic Disease/ Gene Regulation and Gene Therapy, Tissue Regeneration/Stem Cell and Wound Healing [C10-1~C10-7] (A. Yamamoto, K. Takahashi, T. Kanekura) | Epidermal Structure and Function, Immunology 2: Innate Immunity and Microbiology [C11-1~C11-7] (N. Kanazawa, R. Watanabe, M. Kono) | Hair and Cutaneous Development [C12-1~C12-7] (S. Ikeda, T. Ito, M. Ohyama) | | |
| 12:00 | 12:35-14:35 P.135 | | | 12:30-14:00 | |
| 13:00 | JSID-Asia-Oceania- Forum (T. Honda, H. Takahashi) H. Wang, F. Zhong, H. Schaidler, C. C. Chen, M. R. Roh | | | Remove Posters | |
| 14:00 | 14:35-14:45 Closing Remarks | | | | |
| 15:00 | | | | | |
| 16:00 | | | | | |
| 17:00 | | | | | |
| 18:00 | | | | | |
| 19:00 | | | | | |
| 20:00 | | | | | |

November 8, 2019, Room A

Opening

8:20-8:30

Plenary Session I

8:30-10:00

Chairs: Setsuya Aiba, Manabu Fujimoto, Kiarash Khosrotehrani

I-1
[P02-01]
 8:30-8:45

Transcriptome analysis identified transcription factor SOX2 primes human oral mucosa for rapid wound healing

○ Akihiko Uchiyama^{1,5}, Subhashree Nayak¹, Rose Graf¹, Michael Cross¹, Kowser Hasneen¹, Ramiro Iglesias-Bartolome^{1,2}, J. Silvio Gutkind², Stephen R. Brooks⁴, Sei-ichiro Motegi⁵, Osamu Ishikawa⁵, Maria I. Morasso¹

¹Laboratory of Skin Biology, National Institutes of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Maryland, USA, ²Laboratory of Cellular and Molecular Biology, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Maryland, USA, ³Department of Pharmacology and Moores Cancer Center, University of California, San Diego, California, USA, ⁴Biodata Mining and Discovery Section, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Maryland, USA, ⁵Department of Dermatology, Gunma University Graduate School of Medicine, Gunma, Japan

I-2
[P04-02]
 8:45-9:00

Digital-immunohistologic dissection of immune privilege collapse in syringotropic autoimmune diseases: an implication for the pathogenesis

○ Yurie Shimoda, Yoshimi Yamazaki, Momoko Kimishima, Manabu Ohyama
 Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo, Japan

I-3
[P09-01]
 9:00-9:15

Plasmacytoid dendritic cells as a possible initiator of alopecia areata in the C3H/HeJ mouse

○ Taisuke Ito¹, Takahiro Suzuki², Jun-ichi Sakabe³, Atsuko Funakoshi¹, Toshiharu Fujiyama¹, Yoshiki Tokura¹

¹Department of Dermatology, Hamamatsu University School of Medicine, ²Department: Dermatology and Cutaneous Surgery, University of Miami Miller School of Medicine, ³Agency for Science, Technology and Research, Singapore

I-4
[P13-01]
 9:15-9:30

Immunotherapy against malignant melanoma with iPSC cell-derived myeloid lines expressing 4-1BBL

○ Haruka Kuriyama¹, Satoshi Fukushima¹, Toshihiro Kimura¹, Mina Kadohisa Tsuruta¹, Yosuke Kubo¹, Satoshi Nakahara¹, Aki T Tokuzumi¹, Azusa Miyashita¹, Hirotake Tsukamoto², Takashi Inozume⁵, Rong Zhang⁶, Yasushi Uemura⁶, Satoru Senju³, Yasuharu Nishimura^{3,4}, Hironobu Ihn¹

¹Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, ²Department of Immunology, Graduate School of Medical Sciences, Kumamoto University, ³Department of Immunogenetics, Graduate School of Medical Sciences, Kumamoto University, ⁴Nishimura Project Laboratory, Institute of Resource Development and Analysis, Kumamoto University, ⁵Department of Dermatology, University of Yamanashi, ⁶Division of Cancer Immunotherapy, Exploratory Oncology Research & Clinical Trial Center, National Cancer Center (NCC)

I-5
[P01-02]
 9:30-9:45

Plasma exosomal miR-375-3p regulates mitochondria-dependent apoptotic pathway in keratinocytes by targeting XIAP in SJS/TEN

○ Chen Zhang, Gang Wang, Meng Fu
 Xijing hospital, China

I-6
[P01-03]
 9:45-10:00

Novel proteasome-related autoinflammation and immunodeficiency disease caused by a distinct heterozygous missense mutation in the PSMB9 gene

○ Nobuo Kanazawa¹, Yumi Nakatani¹, Yutaka Inaba¹, Kayo Kunimoto¹, Noriko Kinjo², Satoru Hamada², Tsunehiro Mizushima³, Akira Kinoshita⁴, Koh-Ichiro Yoshiura⁴, Jun Hamazaki⁵, Shigeo Murata⁵, Hidenori Ohnishi⁶, Takashi Orimo⁷, Hiroaki Hemmi⁷, Tsuneyasu Kaisho⁷

¹Department of Dermatology, Wakayama Medical University, Wakayama, Japan, ²Department of Child Health and Welfare (Pediatrics), Graduate School of Medicine, University of the Ryukyus, Okinawa, Japan, ³Picobiology Institute, Graduate School of Life Science, University of Hyogo, Hyogo, Japan, ⁴Department of Human Genetics, Atomic Bomb Disease Institute, Nagasaki University, Nagasaki, Japan, ⁵Laboratory of Protein Metabolism, Graduate School of Pharmaceutical Sciences, University of Tokyo, Tokyo, Japan, ⁶Department of Pediatrics, Graduate School of Medicine, Gifu University, Gifu, Japan, ⁷Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, Wakayama, Japan

Concurrent Oral Session 1 (Autoimmunity/Inflammation-I)

10:05-11:29

Chairs: Tatsuyoshi Kawamura, Koji Sayama, Hideo Asada

C01-1
[P01-06]
 10:05-10:17

Single-cell profiling-based therapeutic guidance for chronic, atypical rashes

Raymond Cho¹, Paymann Harirchian^{1,2}, Yale Liu^{1,2}, Jaehyuk Choi^{3,4}, ○ Jeffrey B Cheng^{1,2}

¹The Department of Dermatology, University of California San Francisco, San Francisco, CA, ²Veterans Affairs Medical Center, San Francisco, CA, United States, ³Dermatology, Northwestern University, Chicago, IL, United States, ⁴Biochemistry and Molecular Genetics, Northwestern University, Chicago, IL, United States

- C01-2 [P01-08]** 10:17-10:29
ERK2 in the central nervous system controls itch and allodynia in chronic skin inflammation
○ Shinsuke Matsuo¹, Takashi Hashimoto¹, Aiko Furuya¹, Sayako Itakura², Shogo Endo³, Yasushi Satoh⁴, Takahiro Satoh¹
¹Department of Dermatology, National Defense Medical College, ²Department of Anesthesiology, National Defense Medical College, ³Tokyo Metropolitan Geriatric Hosp. and Inst. of Gerontology, ⁴Department of Biochemistry, National Defense Medical College
- C01-3 [P01-12]** 10:29-10:41
Induction of IL-10-producing plasmablasts with possible regulatory functions during contact hypersensitivity
○ Yutaka Matsumura¹, Rei Watanabe¹, Hanako Koguchi-Yoshioka^{1,2}, Sa Vo¹, Yasuhiro Fujisawa¹, Manabu Fujimoto^{1,2}
¹Department of Dermatology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan, ²Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka, Japan
- C01-4 [P01-15]** 10:41-10:53
Dupilumab decreases *Staphylococcus aureus* colonization and increases microbial diversity in patients with atopic dermatitis
Chris Callewaert^{1,2}, Frank O. Nestle³, Emma Guttman-Yassky⁴, Kazuhiko Arima⁵, Ana B. Rossi³, Jennifer Hamilton⁶, ○ Richard L. Gallo¹
¹University of California San Diego, La Jolla, CA, USA, ²Ghent University, Ghent, Belgium, ³Sanofi Genzyme, Cambridge, MA, USA, ⁴Icahn School of Medicine at Mount Sinai Medical Center, New York, NY, USA, ⁵Sanofi K.K., Tokyo, Japan, ⁶Regeneron Pharmaceuticals, Inc., Tarrytown, NY, USA
- C01-5 [P01-16]** 10:53-11:05
Leucine-rich α -2 glycoprotein initiates abrupt expression of systemic pro-inflammatory cytokines for development of psoriasiform lesion
○ Hideki Nakajima¹, Kimiko Nakajima¹, Satoshi Serada², Minoru Fujimoto², Tetsuji Naka², Shigetoshi Sano¹
¹Department of Dermatology, Kochi Medical School, ²Center for Intractable Immune Disease, Kochi Medical School
- C01-6 [P01-17]** 11:05-11:17
11 β -hydroxysteroid dehydrogenase type 1 can serve suppressive effect on atopic inflammation by modulating active glucocorticoid in the skin
Noo Ri Lee¹, Beom Jun Kim¹, Chung Hyeok Lee¹, ○ Young Bin Lee¹, Solam Lee¹, Hyun Jee Hwang¹, Eunjung Kim¹, Sang Eun Lee², Kyong-Oh Shin³, Kyungho Park³, Eung Ho Choi¹
¹Department of Dermatology, Yonsei University Wonju College of Medicine, Wonju, Korea, ²Department of Dermatology, Cutaneous Biology Research Institute, Yonsei University College of Medicine, Gangnam Severance Hospital, Seoul, Korea, ³Department of Food Science and Nutrition, and Convergence Program of Material Science for Medicine and Pharmaceutics, Hallym University, Chuncheon, Korea
- C01-7 [P01-21]** 11:17-11:29
Possible role of resident memory T cells expressing IL-23R and PD-1 in psoriasis exacerbation
○ Pawit Phadungsaksawasdi, Toshiharu Fujiyama, Kazuo Kurihara, Takatsune Umayahara, Taisuke Ito, Yoshiki Tokura
Department of Dermatology, Hamamatsu university school of medicine, Hamamatsu, Shizuoka, Japan

Luncheon Seminar 1 "Invitation to new dermatology"

11:40-12:40

Chairs: Shinichi Sato, Manabu Fujimoto

- LS1-1** **The role of fusion genes in the formation of cutaneous tumors**
○ Masatoshi Jinnin
Department of Dermatology, Wakayama Medical University, Wakayama, Japan
- LS1-2** **Functional elucidation of autoantigen-reactive B cells by single cell protein analysis**
○ Ayumi Yoshizaki
Department of Dermatology, The University of Tokyo Graduate School of Medicine, Tokyo, Japan

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

POLA PHARMA RISING STAR AWARD 2018 & 2019

12:50-13:50

Chairs: Akimichi Morita, Kenji Kabashima, Manabu Fujimoto

- PRA1** **Challenge for refractory skin diseases**
○ Riichiro Abe
Division of Dermatology, Niigata University Graduate School of Medical and Dental Science
- PRA2** **Skin research provides a window into new aspects of systemic disease pathogenesis**
○ Yoshihide Asano
Department of Dermatology, Graduate School of Medicine, The University of Tokyo

Co-sponsored by POLA PHARMA INC.

LEO Foundation Awards 2019

13:50-14:20

Award Ceremony and Presentation

Award Ceremony

14:20-14:50

Presenter: Rumiko Fujiwara

2018 JSID's Fellowship Shiseido Research Grant

SE-3 [O1-03] Exploration of novel lipid metabolism-related molecules in immune-mediated skin diseases

○ Hayakazu Sumida, Shinichi Sato
Department of Dermatology, Faculty of Medicine, The University of Tokyo, Tokyo, Japan

SE-4 [O1-04] Clarification of the mechanism of the breakdown of self-tolerance in bullous pemphigoid

○ Hideyuki Ujiie
Department of Dermatology, Hokkaido University Graduate School of Medicine

2019 JSID's Fellowship Shiseido Research Grant

The role of Schwann cell in the pathogenesis of skin allergic diseases

○ Atsushi Otsuka
Department of Dermatology, Kyoto University

To establish a new treatment to control autoinflammatory keratinization diseases

○ Takuya Takeichi
Department of Dermatology, Nagoya University Graduate School of Medicine

Diploma of Dermatological Scientist

Presenter: Akimichi Morita

Lai-San Wong, Department of Dermatology, Kyoto University Graduate School of Medicine
Nguyen Thi Hong Chuyen, Department of Dermatology, Kansai Medical University

JSID Honorary Membership

Presenter: Akimichi Morita

International Psoriasis Symposium

"Dissecting psoriasis: Mechanistic studies in pustular and plaque psoriasis"

15:30-17:30

Chairs: Jonathan Barker, Christopher Griffiths

Welcome and overview

IPS1 Generalized pustular psoriasis: lessons from immunogenetic studies of a rare orphan disease

○ Hervé Bachelez
Université de Paris, UMR INSERM 1163, Laboratory of Genetics of Skin Diseases, Institut Imagine, Paris, France

IPS2 Pathomechanism in palmoplantar pustulosis

○ Masamoto Murakami
Department of Dermatology, Ehime University Graduate School of Medicine, Ehime, Japan

IPS3 Autoinflammatory keratinization diseases

○ Kazumitsu Sugiura
Department of Dermatology, Fujita Health University, Toyoake, Japan

IPS4 Genetics of plaque psoriasis and implications for stratification

○ Jonathan Barker
St John's Institute of Dermatology, King's College London, London, UK

IPS5 Stratifying outcomes in psoriasis: a multi-omic approach

○ Christopher Griffiths
Dermatology Centre, University of Manchester, Manchester, UK

Closing remarks

**One-minute presentation "Come to see my poster" 1
(JSID's Fellowship Shiseido Research Grant, Autoimmunity/Inflammation,
Pigmentation and Melanoma)**

17:40-18:35

Chair: Shigaku Ikeda

- O1-01 [SE-1] Evaluation on cytokine and transcriptional factor impacts on cholesterol 25-hydroxylase induction in CD4⁺ T cells**
○ Hayato Takahashi, Koichi Isami, Masayuki Amagai
Department of Dermatology, Keio University, Tokyo, Japan
- O1-02 [SE-2] Aging alteration of human skin T cells**
○ Rei Watanabe
Department of Dermatology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan
- O1-03 [SE-3] Exploration of novel lipid metabolism-related molecules in immune-mediated skin diseases**
○ Hayakazu Sumida, Shinichi Sato
Department of Dermatology, Faculty of Medicine, The University of Tokyo, Tokyo, Japan
- O1-04 [SE-4] Clarification of the mechanism of the breakdown of self-tolerance in bullous pemphigoid**
○ Hideyuki Ujiie
Department of Dermatology, Hokkaido University Graduate School of Medicine
- O1-05 [P01-19] Roles of platelet-derived growth factor receptor (PDGFR) inhibitor for the fibrosis of systemic sclerosis**
○ Katsunari Makino¹, Maria Trojanowska², Hironobu Ihn¹
¹Department of Dermatology and Plastic Surgery, Kumamoto University, Kumamoto, Japan, ²Arthritis Center, Boston University School of Medicine, MA, USA
- O1-06 [P01-20] Superoxide dismutase 3 inhibits rosacea-like skin inflammation through modulation of EGFR and associated inflammatory cascades**
○ Gaurav Agrahari, Shyam Kishor Sah, Hae Yoon Kim, Tae Yoon Kim
Laboratory of Dermato-immunology, The Catholic University of Korea, Seoul, South Korea
- O1-07 [P01-25] Single Cell Transcriptome Analysis of Peripheral Blood Mononuclear Cells in Atopic Dermatitis**
○ Yoshihiro Ishida, Sho Hanakawa, Rintaro Shibuya, Atsushi Otsuka, Kenji Kabashima
Department of Dermatology, Kyoto University, Tokyo, Japan
- O1-08 [P01-26] Dual functions of dermokine in regulating skin barrier and innate immunity**
○ Akira Utsunomiya¹, Takenao Chino¹, Natsuko Utsunomiya¹, Vu Huy Luong¹, Kiyoshi Higashi², Koichi Sato², Manabu Sugai³, Koji Sugawara⁴, Daisuke Tsuruta⁴, Minoru Hasegawa¹
¹Dermatology, Fukui University, ²Sumitomo Chemical Co., Ltd., ³Molecular Genetics, Fukui University, ⁴Dermatology, Osaka City University
- O1-09 [P01-27] Analysis of transcription factors in regulatory T (Treg) cells in the skin of atopic dermatitis and psoriasis vulgaris**
○ Tomoya Takegami, Toshiaki Kogame, Takashi Nomura, Kenji Kabashima
Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan
- O1-10 [P01-28] Analysis of the onset mechanism of atopic disorders in mice with a loss-of-function CARD11 mutation**
○ Yusuke Nomoto¹, Shinsuke Yasukawa², Masutaka Furue², Hiromitsu Hara³, Takuro Kanekura¹
¹The Department of Dermatology, University of Kagoshima, Kagoshima, Japan, ²The Department of Dermatology, University of Kyusyu, Fukuoka, Japan, ³The Department of Immunology, University of Kagoshima, Kagoshima, Japan
- O1-11 [P01-29] IL-17A upregulates endothelin-1 in through p38 pathway in keratinocytes in the pathogenesis of prurigo nodularis**
○ Lai-San Wong, Chih Hung Lee
Chang Gung Memorial Hospital-Kaohsiung Medical Center, Kaohsiung Taiwan

- O1-12 [P01-30] Psoriatic inflammation by imiquimod can be attenuated with application of Liver X receptor agonist via production of pro-resolution molecule**
 ○ Masayuki Otsuka¹, Toshiaki Okuno², Takehiko Yokomizo², Teruki Dainichi¹, Gyohei Egawa¹, Kenji Kabashima¹
¹The Department of Dermatology, Graduate school of medicine, Kyoto University, Kyoto, Japan, ²Department of Biochemistry, Juntendo University School of Medicine, Tokyo, Japan
- O1-13 [P01-31] E3 ligase Trim21 ubiquitylates NF-κB p65 subunit and promotes inflammation in psoriatic keratinocytes**
 ○ Luting Yang, Tongmei Zhang, Chen Zhang, Chunying Xiao, Gang Wang
 Department of Dermatology, Xijing Hospital, Xi'an, China
- O1-14 [P01-32] Inflammatory M1 phenotype of circulating monocytes in patients with psoriasis**
 ○ Miho Asami, Yukie Yamaguchi, Naoko Takamura, Yasushi Ototake, Michiko Aihara
 Department of Environmental Immuno-Dermatology, Yokohama City University, Yokohama, Japan
- O1-15 [P01-33] Botulinum toxin B injection inhibits imiquimod-induced psoriasis-like dermatitis via the regulation of neuroimmune system**
 ○ Syahla N. Amalia, Hritu Baral, Yuta Inoue, Sahori Yamazaki, Chisako Fujiwara, Akiko Sekiguchi, Akihiko Uchiyama, Yoko Yokoyama, Osamu Ishikawa, Sei-ichiro Motegi
 Department of Dermatology, Gunma University, Maebashi
- O1-16 [P01-34] Negative regulation of dendritic cell activation in psoriasis mediated via CD100-Plexin-B2**
 ○ Chunying Xiao¹, Zhenlai Zhu¹, Chen Zhang¹, Gang Wang¹, Wei Li^{1,2}
¹Department of Dermatology, Xijing Hospital, Fourth Military Medical University, Xi An, China, ²Department of Dermatology, Huashan Hospital, Fudan University, Shanghai, China
- O1-17 [P01-35] Effect of cholecystokinin 2 receptor antagonist on alopecia in dry skin and aged mice**
 ○ Mitsutoshi Tominaga^{1,2}, Kotaro Honda¹, Eriko Komiya¹, Yasushi Suga^{2,3}, Hideoki Ogawa^{2,3}, Kenji Takamori^{1,2,3}
¹Institute for Environmental and Gender Specific Medicine, Juntendo Itch Research Center (IIRC), Juntendo University Graduate School of Medicine, Chiba, Japan, ²Anti-Aging Skin Research Laboratory, Juntendo University Graduate School of Medicine, Chiba, Japan, ³Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan
- O1-18 [P01-36] Eosinophil-derived galectin 10 induces matrix metalloproteases (MMPs) in bullous pemphigoid (BP)**
 ○ Takahito Chiba¹, Takeshi Nakahara², Shigeharu Ueki³, Shin-Ichi Osada¹, Masutaka Furue²
¹Department of Dermatology and Plastic Surgery, Akita University Graduate School of Medicine, Akita, Japan, ²Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan, ³Department of General Internal Medicine and Clinical Laboratory Medicine, Akita University Graduate School of Medicine, Akita, Japan
- O1-19 [P01-37] Epidermal loss of phospholipase C δ1 protects mice from irritant contact dermatitis**
 ○ Kaori Kanemaru^{1,2}, Kanako Shiratori², Takahiro Ogura², Takatsugu Fukuyama², Yoshikazu Nakamura^{1,2}, Kiyoko Fukami²
¹Department of Applied Biological Science, Faculty of Science and Technology, Tokyo University of Science, Tokyo, Japan, ²Laboratory of Genome and Biosignals, School of Life Sciences, Tokyo University of Pharmacy and Life Sciences, Tokyo, Japan
- O1-20 [P01-38] Analysis of autoantibody against Ro52/IgG/HLA-DR complex in patients with dermatomyositis**
 ○ Noriko Arase¹, Kaori Odomari¹, Yoriyoshi Kotobuki¹, Hideaki Tsuji², Ran Sasai², Toru Hirano³, Hideki Yorifuji³, Kyoko Tonomura¹, Ichiro Katayama^{1,4}, Hiroyuki Murota^{1,5}, Hui Jin^{6,7}, Koichiro Ohmura², Atsushi Kumanogoh³, Hisashi Arase^{6,7}, Manabu Fujimoto¹
¹The Department of Dermatology, Osaka University, Osaka, Japan, ²Department of Rheumatology and Clinical Immunology, Kyoto University, Kyoto, Japan, ³Department of Respiratory Medicine and Clinical Immunology, Osaka University, Osaka, Japan, ⁴Department of Pigmentation Research and Therapeutics, Osaka City University, Osaka, Japan, ⁵Department of Dermatology, Nagasaki University, Nagasaki, Japan, ⁶Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ⁷Laboratory of Immunochemistry, Immunology Frontier Research Center, Osaka University, Osaka, Japan
- O1-21 [P01-39] Immunological profile of different subtypes of rosacea**
 ○ Soyun Cho, Ji-Su Lee
 Department of Dermatology, Seoul National University Boramae Medical Center, Seoul, Korea
- O1-22 [P01-40] TAK-242 ameliorates contact dermatitis exacerbated by IL-36 receptor antagonist deficiency**
 ○ Hidehiko Fukushima¹, Yohei Iwata¹, Kenta Saito¹, Soichiro Watanabe¹, Masashi Akiyama², Kazumitsu Sugiyama¹
¹Department of Dermatology, Fujita Health University School of Medicine, Aichi, Japan, ²Department of Dermatology, Nagoya University Graduated School of Medicine, Aichi, Japan
- O1-23 [P01-41] Different levels of immunoglobulin G between the blister content and body fluids of bullous pemphigoid patients**
 ○ Toshiaki Kogame, Gyohei Egawa, Sachiko Ono, Atsushi Otsuka, Akihiko Kitoh, Yo Kaku, Yuichiro Endo, Tetsuya Honda, Teruki Dainichi, Kenji Kabashima, Takashi Nomura
 Department of Dermatology, Kyoto University, Kyoto, Japan
- O1-24 [P01-42] Dupilumab decreases blood biomarkers in adolescents with moderate-to-severe atopic dermatitis: Data from a phase 3 trial (LIBERTY AD ADOL)**
 ○ Eric L. Simpson¹, Hiroyuki Fujita², Kazuhiko Arima², Jennifer Hamilton³, Yufang Lu³, Ana B. Rossi⁴, Ashish Bansal³
¹Oregon Health and Science University, Portland, OR, USA, ²Sanofi K.K., Tokyo, Japan, ³Regeneron Pharmaceuticals, Inc., Tarrytown, NY, USA, ⁴Sanofi Genzyme, Cambridge, MA, USA

- O1-25 [P01-43] Inhibition of poly(I:C)-induced inflammation by salvianolic acid A in skin keratinocytes**
○ Jungwoo Ko, Chang Deok Kim, Jeung-Hoon Lee
Department of Dermatology, School of Medicine, Chungnam National University, Daejeon, Korea
- O1-26 [P01-44] Suppressive effect of topical thioredoxin in IMQ-induced psoriatic dermatitis in mice**
○ Alshimaa Mostafa¹, Kenji Sakurai¹, Teruki Dainichi¹, Reiko Matsumoto¹, Hai Tian², Junji Yodoi³, Yoshiaki Miyachi¹, Kenji Kabashima¹
¹Dermatology department, Kyoto university, kyoto, Japan, ²Redox Bioscience Inc, Kyoto, ³Laboratory of Infection and Prevention, Department of Biological Response, Institute for Virus Research, Kyoto University
- O1-27 [P01-45] The effect of matrix metalloproteinases-3 on the deposition of alpha-2AP in systemic sclerosis**
○ Hirofumi Niwa¹, Yosuke Kanno^{1,2}, En Shu¹, Mariko Seishima¹
¹Department of Dermatology, Gifu University Graduate School of Medicine, ²Department of Clinical Pathological Biochemistry, Faculty of Pharmaceutical Science, Doshisha Women's Collage of Liberal Arts
- O1-28 [P01-46] Anti-atopic dermatitis mechanisms of berberine in mice**
○ Yoko Yoshihisa¹, Tsugunobu Andoh², Mati Ur Rehman³, Yoshiaki Tabuchi⁴, Tadamichi Shimizu¹
¹Department of Dermatology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan, ²Department of Applied Pharmacology, Graduate School of Medicine and Pharmaceutical Sciences University of Toyama, ³Department of Radiology, Graduate School of Medicine and Pharmaceutical Sciences University of Toyama, ⁴Division of Molecular Genetics Research, Life Science Research Center, Graduate School of Medicine and Pharmaceutical Sciences University of Toyama
- O1-29 [P01-47] Melanoma patient with good response to immune checkpoint inhibitor treatment showed severe erythema circinatum with anti-SS-A antibodies**
○ Mariko Ogawa-Momohara¹, Yoshinao Muro¹, Katsunobu Goto¹, Chikashi Obuse², Minoru Satoh³, Michihiro Kono¹, Kenji Yokota¹, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, ²Graduate School of Science, Osaka University, Department of Biological Science, ³University of Occupational and Environmental Health, Japan, Department of Clinical Nursing, School of Health Sciences
- O1-30 [P01-48] Therapeutic effect of topical galectin-9 application in atopic dermatitis animal model**
○ Ji Young Pak¹, Ju Hee Han², Chul Hwan Bang², Ji Hyun Lee², Young Min Park²
¹Department of Biomedicine & Health Sciences, The Catholic University of Korea, Seoul, Republic of Korea, ²Department of Dermatology, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea
- O1-31 [P01-49] Consecutive imiquimod treatment for 3days induces psoriasis-like model lesions in *Il36rn*^{-/-} mice**
○ Soichiro Watanabe¹, Yohei Iwata¹, Hidehiko Fukushima¹, Kenta Saito¹, Masashi Akiyama², Kazumitsu Sugiura¹
¹The Department of Dermatology, Fujita Health University School of Medicine, Aichi, Japan, ²Department of Dermatology, Nagoya University Graduate School of Medicine, Aichi, Japan
- O1-32 [P01-50] PFN-1 regulates biomarkers of psoriasis**
○ Bo-Ram Mok¹, A-Ram Kim¹, In Jae Jung², Seung Hwa Baek¹, Tae Aug Kim¹, Dong Hyun Kim²
¹Department of Biomedical Science, CHA University, Seongnam, Republic of Korea, ²Department of Dermatology, Bundang CHA Medical Center, CHA University School of Medicine, Seongnam, Republic of Korea
- O1-33 [P01-51] A murine model of inflammatory fasciitis induced by local bleomycin administration: A possible model of human diffuse fasciitis?**
○ Takashi Ito, Toshiyuki Yamamoto
The Department of Dermatology, Fukushima Medical University School of medicine, Fukushima, Japan
- O1-34 [P01-52] The Factors that affect irritation of isododecane in Lip products**
○ Sodam Park, Seoyoung Kim, Mihyun Oh, Jieun Han, Goun Kim, Susun An
Amorepacific, Korea
- O1-35 [P01-53] The role of PDPN/CLEC-2 signaling in cutaneous allergic hypersensitivity**
○ Miho Tsutsumi, Jun Asai, Norito Katoh
Department of Dermatology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Kyoto, Japan
- O1-36 [P01-54] Gastrointestinal amyloidosis causes by SAA produced from long-lasting inflammatory skin**
○ Kento Mizutani, Yoshiaki Matsushima, Karin Okada, Keiichi Yamanaka
The Department of Dermatology, Mie University, Mie, Japan
- O1-37 [P01-55] Effect of decanoic acid on skin inflammation in a mouse model of contact sensitivity**
○ Shohei Igari¹, Toshiyuki Yamamoto¹, Youichi Akama²
¹Department of Dermatology, Fukushima Medical University, Fukushima, Japan, ²Department of Emergency, Minami Tohoku Hospital, Iwanuma, Miyagi
- O1-38 [P13-04] Metabolic reprogramming drives epigenetic remodeling in adaptive cancer drug resistance through OGT**
○ Helmut Schaidler
The University of Queensland Diamantina Institute, The University of Queensland, Brisbane, Australia

- O1-39 [P13-06] Analysis of the tumor immunity that fibroblasts are associated with through a localized renin-angiotensin system in the malignant melanoma**
 ○ Kenta Nakamura, Atsuko Ashida, Yukiko Kiniwa, Ryuhei Okuyama
 The Department of Dermatology, Shinshu University School of Medicine, Japan
- O1-40 [P13-07] Clinical mutation panel testing by next-generation sequencing in primary melanoma in Taiwan**
 ○ Yi-Shuan Sheen¹, Chia-Yu Chu¹, Yi-Hua Liao¹, Ming-Hsie Lin²
¹The Department of Dermatology, National Taiwan University, Taipei, Taiwan, ²Department of Surgery, National Taiwan University Hospital Hsin-Chu Branch, Hsin-chu, Taiwan
- O1-41 [P13-08] MEF2A controls melanin synthesis through regulating tyrosinase expression in human primary melanocytes**
 ○ Goeun Kim^{1,2,3,4}, Chi-Hyun Park^{1,3,4}, Min Ji Song^{1,2,3,4}, Haesoo Kim^{1,2,3,4}, Si-Hyung Lee^{1,3,4}, Dong Hun Lee^{1,2,3,4}, Jin Ho Chung^{1,2,3,4}
¹Department of Dermatology, Seoul National University College of Medicine, Republic of Korea, ²Department of Biomedical Sciences, Seoul National University College of Medicine, Republic of Korea, ³Institute of Human-Environment Interface Biology, Medical Research Center, Seoul National University, Republic of Korea, ⁴Institute on Aging, Seoul National University, Seoul, Republic of Korea
- O1-42 [P13-09] Novel peptide complex inhibits melanin accumulation in human keratinocytes through autophagy activation and PAR-2 antagonism**
 ○ Myungho Kor, Seokjeong Yoon, Juyeon Jung, Kayoung Shin, Sungwoo Kim, Heung Jae Kim, Hwa-Jee Chung, Sekyoo Jeong, Keedon Park
 Incospharm Corporation, South Korea
- O1-43 [P13-11] Excimer lamp up-regulates keratinocyte-derived glycoprotein nonmetastatic melanoma protein B to protect melanocytes from oxidative stress**
 ○ Qianqian Wang^{1,6}, Lingli Yang¹, Kazal Boron Biswas^{4,5}, Arunasiri Iddamalagoda^{4,5}, Jiao Guo¹, Asako Yamamoto¹, Yasutaka Kuroda^{1,3}, Masatoshi Kondo^{1,3}, Daiki Murase^{1,3}, Yoshito Takahashi^{1,3}, Leihong Xiang⁶, Shintaro Inoue⁴, Daisuke Tsuruta², Ichiro Katayama¹
¹Department of Pigmentation Research and Therapeutics, Graduate School of Medicine, Osaka City University, ²Department of Dermatology, Graduate School of Medicine, Osaka City University, ³Biological Science Research Laboratories, Kao Corporation, Kanagawa, Japan, ⁴Department of Cosmetic Health Science, Gifu Pharmaceutical University, Gifu, Japan, ⁵Department of Research and Development, Ichimaru Pharcos Co. Ltd., Motosu, Gifu, Japan, ⁶Department of Dermatology, Huashan Hospital, Fudan University, Shanghai, China
- O1-44 [P13-12] Induced pluripotent stem cells-derived melanocyte precursor cells undergoing differentiation into melanocytes**
 Chieko Hosaka¹, ○ Makoto Kunisada¹, Michiyo Koyanagi-Aoi², Taro Masaki¹, Chihiro Takemori¹, Mariko Taniguchi-Ikeda³, Takashi Aoi², Chikako Nishigori¹
¹Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, ²Department of iPS cell Applications, Graduate School of Medicine, Kobe University, ³Department of Clinical Genetics, Fujita Health University Hospital
- O1-45 [P13-13] Differential activity of human tyrosinase proteins with variation in the transmembrane domain**
 ○ Tokimasa Hida, Masae Okura, Yuji Kan, Hisashi Uhara
 Department of Dermatology, Sapporo Medical University School of Medicine, Sapporo, Japan
- O1-46 [P13-14] Identification and characterization of tumor-infiltrating lymphocytes that may mediate anti-tumor response by nivolumab**
 ○ Takashi Inozume¹, Yosuke Togashi², Ryo Ariyasu^{2,3}, Tomonori Yaguchi⁴, Yutaka Kawakami⁴, Hiroyoshi Nishikawa^{2,3}, Tatsuyoshi Kawamura¹
¹Department of Dermatology, University of Yamanashi, Yamanashi, Japan, ²Division of Cancer Immunology, Research Institute/EPOC, National Cancer Center, Tokyo/Chiba, Japan, ³Department of Immunology, Nagoya University Graduate school of Medicine, Nagoya, Japan, ⁴Division of Cellular Signaling, Institute for Advanced Medical Research, Keio University School of Medicine, Japan
- O1-47 [P13-15] Mechanical compression enhances tumor progression in melanoma cells**
 ○ Yi-Hua Liao¹, Jia-Fang Tsai¹, Po-Ling Kuo²
¹Department of Dermatology, National Taiwan University Hospital, College of Medicine, National Taiwan University, Taipei, Taiwan, ²Department of Electrical Engineering, National Taiwan University, Taipei, Taiwan
- O1-48 [P13-16] NecroX-5 can suppress melanoma metastasis through Rho-Family GTPases**
 ○ Gue Tae Moon^{1,2}, Sang Hyun Jeong³, Songwan Jin³, Young Min Park^{1,2}, Ji Hyun Lee^{1,2}
¹Department of Biomedicine & Health Sciences, Brain Korea 21 PLUS Project for Medical Science, College of Medicine, The Catholic University of Korea, Seoul, Korea, ²Department of Dermatology, Seoul St. Mary's Hospital, ³Department of Advanced Convergence Technology, Korea Polytechnic University, Siheung, Korea
- O1-49 [P13-17] Topical 3-bromopyruvate is a novel targeted therapy for melanoma in a preclinical model**
 ○ Masayuki Yamada, Masami Kagaya, Natsuko Noguchi, Shin-Ichi Osada, Motomu Manabe
 The Department of Dermatology and Plastic Surgery, Akita University Graduate School of Medicine, Akita, Japan
- O1-50 [P13-18] Alteration in hair eumelanin and pheomelanin in patients with Mowat-Wilson syndrome**
 ○ Mayuko Yamamoto¹, Yuka Shibata¹, Mika Teraishi¹, Kentaro Ohko¹, Kimiko Nakajima¹, Kazumasa Wakamatsu², Shosuke Ito², Shigetoshi Sano¹
¹The Department of Dermatology, Kochi Medical School, Kochi University, Nankoku, Japan, ²The Department of Chemistry, Fujita Health University School of Medical Sciences

O1-51 **MITF-mediated ECM changes control intratumour heterogeneity in melanoma**

[P13-19]

○ Loredana Spoerri¹, Crystal_A Tonnessen¹, Kimberley_A Beaumont², David_S Hill², Russell J Jurek³, Gency_P Gunasingh¹, Gilles_C Vanwallegem⁴, Ethan_K Scott⁴, Nikolas_K Haass¹

¹University of Queensland Diamantina Institute, Brisbane, Australia, ²The Centenary Institute, Newtown, NSW, Australia, ³CSIRO Astronomy & Space Sciences, Australia Telescope National Facility, Epping, NSW, Australia, ⁴School of Biomedical Sciences, UQ, Brisbane, Australia

O1-52 **A new technology for a better understanding of dermoscopic and pathological structure: the digitally reconstructed horizontal and 3D image**

[P13-20]

○ Akira Kasuya, Masahiro Aoshima, Kensuke Fukuchi, Takatoshi Shimauchi, Toshiharu Fujiyama, Yoshiki Tokura
Hamamatsu University School of Medicine

November 8, 2019, Room B

Concurrent Oral Session 2

(Carcinogenesis/Growth Factors/Signal Transduction/Cancer Genetics, Epidemiology/Health Service Research)

10:05-11:29

Chairs: Takafumi Kadono, Hideki Fujita, Minoru Hasegawa

C02-1
[P02-02]
10:05-10:17

Keratinocyte Reganase-1, a down-modulator of skin inflammation, contributes to protection from carcinogenesis

○ Hiroyuki Morisaka¹, Mikiro Takaishi¹, Shizuo Akira², Shigetoshi Sano¹

¹Department of Dermatology, Kochi Medical School, Kochi University, Kochi, Japan, ²Department of Host Defense, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan

C02-2
[P02-03]
10:17-10:29

Activation of hedgehog signaling suppresses psoriasis-like epidermal hyperplasia and skin inflammation

○ Si-Hyung Lee¹, Hankyu Lee^{2,3}, Kyeong Lee³, Joon Kim⁴, Hyuk Wan Ko²

¹Department of Dermatology, Seoul National University College of Medicine, Seoul, Korea, ²Department of Biochemistry, College of Life Science and Biotechnology, Yonsei University, Seoul, Korea, ³College of Pharmacy, Dongguk University, Goyangsi, Korea, ⁴Graduate School of Medical Science and Engineering, KAIST, Daejeon, Korea

C02-3
[P02-04]
10:29-10:41

Epidermal clonal expansion upon UV irradiation: consequences of the epidermal duality of proliferative behaviour on the skin carcinogenesis

○ Edwige Roy, Ho Yi Wong, Kiarash Khosrotehrani

University of Queensland, Diamantina Institute, Brisbane, Australia

C02-4
[P02-05]
10:41-10:53

Lysosome adaption compensated imiquimod-induced cell death in skin cancer cells

○ Shu-Hao Chang¹, Chun-Ying Wu^{1,5}, Jeng-Jer Shieh^{2,3,4}

¹Institute of Clinical Medicine, National Yang-Ming University, Taipei, Taiwan, ²Institute of Biomedical Sciences, National Chung Hsing University, Taichung, Taiwan, ³Department of Education and Research, Taichung Veterans General Hospital, Taichung, Taiwan, ⁴Rong Hsing Research Center for Translational Medicine, National Chung Hsing University, Taichung, Taiwan, ⁵Division of Gastroenterology and Hepatology, Taichung Veterans General Hospital, Taichung, Taiwan

C02-5
[P02-06]
10:53-11:05

Increased expression of dermal LL37 may trigger the lymph duct migration of Paget's cells in invasive extramammary Paget's disease

○ Chunbing Lyu¹, Taku Fujimura¹, Ryo Amagai¹, Yota Sato¹, Kayo Tanita¹, Shigeto Matsushita², Yasuhiro Fujisawa³, Atsushi Otsuka⁴, Yuki Yamamoto⁵, Toshiya Takahashi¹, Setsuya Aiba¹

¹Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan, ²Department of Dermato-Oncology/Dermatology, National Hospital Organization Kagoshima Medical Center, Kagoshima, Japan, ³Department of Dermatology, Faculty of University of Tsukuba, Tsukuba, Japan, ⁴Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, ⁵Department of Dermatology, Wakayama Medical University, Wakayama, Japan

C02-6
[P06-01]
11:05-11:17

Identification of herpes zoster high-risk group using Charlson comorbidity index: A nationwide retrospective cohort study

○ Soo Ick Cho¹, Dong Hun Lee¹, Young Min Park²

¹Department of Dermatology, Seoul National University College of Medicine, Seoul, Republic of Korea, ²Department of Dermatology, Seoul St Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea

C02-7
[P06-02]
11:17-11:29

Skin signs related to morbid obesity: Changes after bariatric surgery

○ Pawinee Rerknimitr, Yada Suphankong, Pravit Asawanonda

Division of Dermatology, Chulalongkorn University, Bangkok, Thailand

Luncheon Seminar 2

"Psoriasis Research Highlights 2019"

11:40-12:40

Chairs: Mamitaro Ohtsuki, Yoshiaki Tokura

LS2-1

Skin T cells in the pathogenesis of psoriasis

○ Rei Watanabe

Department of Dermatology, Faculty of Medicine, University of Tsukuba

LS2-2

Leucine-rich α -2 glycoprotein is involved in psoriasis development through acute systemic cytokine production

○ Hideki Nakajima

Department of Dermatology, Kochi Medical School

Co-sponsored by Eli Lilly Japan K.K./TORII PHARMACEUTICAL CO.,LTD

JDS Symposium

15:30-17:30

Chair: Riichiro Abe

- JDS1 Large-scale pan-cancer analysis reveals broad prognostic association between TGF- β ligands, not Hedgehog, and GLI1/2 expression in tumors**
Aurélien de Reyniès¹, Delphine Javelaud², Nabila Elarouci¹, Véronique Marsaud², Cristèle Gilbert², ○ Alain Mauviel²
¹Programme Cartes d'Identité des Tumeurs, Ligue Nationale Contre le Cancer, Paris, France, ²Institut Curie, PSL Research University, INSERM U1021, CNRS UMR3347, Team "TGF- β and Oncogenesis", Equipe Labellisée LIGUE 2016, F-91400, Orsay, France
- JDS2 Next generation gene hunting**
○ John A. McGrath
St John's Institute of Dermatology, King's College London, UK
- JDS3 Important points to check when writing scientific research articles in English**
○ Sei-ichiro Motegi
Department of Dermatology, Gunma University Graduate School of Medicine
- JDS4 Management of atopic dermatitis: Revisiting the old and reporting the new**
○ Cheng-Che-E. Lan
Department of Dermatology, Kaohsiung Medical University Hospital and Kaohsiung Medical University
- JDS5 The role of heterochromatin in the accelerated aging syndrome progeria**
○ Oliver Dreesen^{1,2}
¹Cell Aging Laboratory, Skin Research Institute of Singapore, A*STAR, Singapore, ²Nanyang Technological University, Singapore
- JDS6 Pathomechanism of permanent loss of hair regeneration after chemotherapy: Priming mobilization and depletion of hair follicle stem cells**
○ Ohsang Kwon^{1,2}
¹Department of Dermatology, Seoul National University College of Medicine, Institute of Human-Environment Interface Biology, Medical Research Center, Seoul National University, ²Laboratory of Cutaneous Aging and Hair Research, Biomedical Research Institute, Seoul National University Hospital, Seoul, Korea
- JDS7 Medical Publishing: Insights into what authors, editors and journals want**
○ Helen Habernickel
Executive Publisher, Health & Medical Sciences, Elsevier, Berlin, Germany
- JDS8 Introduction of Journal of Dermatological Sciences Seminar**
○ Riichiro Abe^{1,2}
¹Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, ²Editor-in-Chief, Journal of Dermatological Science

One-minute presentation "Come to see my poster" 2 (Carcinogenesis/Growth Factors/Signal Transduction/Cancer Genetics, Cell Adhesion/Matrix/Vascular Biology, Human Clinical Research and Therapeutics, Epidermal Structure and Function, Hair and Cutaneous Development)

17:40-18:35

Chair: Toshihiro Tanaka

- O2-01 [P02-07] Podoplanin expression in Bowen disease: positive cells can be tumor-initiating cells of Bowen disease**
○ Kazutoshi Murao, Chisato Kosugi, Yoshiaki Kubo
Department of Dermatology, Tokushima University Graduate School of Medical Science, Tokushima, Japan
- O2-02 [P02-08] Imiquimod-induced senescence was mediated by increasing K382 acetylation of p53 through Sirt1 downregulation in skin cancer cells**
○ Zheng-Yi Li¹, Jeng-Jer Shieh^{1,2,3}
¹Institute of Biomedical Sciences, National Chung Hsing University, Taichung City, Taiwan, ²Department of Education and Research, Taichung Veterans General Hospital, Taichung City, Taiwan, ³Rong Hsing Research Center for Translational Medicine, National Chung Hsing University, Taichung City, Taiwan
- O2-03 [P02-09] EGFR signaling synergistically augments the IL-17A-driven effect in keratinocytes through promoting the rapid induction of IkappaB-zeta**
○ Xiuju Dai, Koji Sayama, Masamoto Murakami, Ken Shiraishi, Jun Muto, Hideki Mori, Ryo Utsunomiya
Department of Dermatology, Ehime University Graduate School of Medicine

- O2-04 [P02-10] Differential expression of long interspersed nuclear elements-1 correlates with global DNA methylation level in skin tumors**
 ○ Yuko Kuriyama, Akira Shimizu, Saki Mizuno, Osamu Ishikawa
 The Department of Dermatology, Gunma University Graduate School of Medicine, Gunma, Japan
- O2-05 [P02-11] Laser dermabrasion: a potential treatment for non-melanoma skin cancer**
 ○ Ho Yi Wong¹, Edwige Roy¹, Stuti Kapadia¹, Valentine Murigneux², Sharene Chong¹, Kiarash Khosrotehrani¹
¹University of Queensland Diamantina Institute, ²University of Queensland Institute of Molecular Bioscience
- O2-06 [P02-12] Inhibition of endoglin exerts an antitumour effect in angiosarcoma through the regulation of non-Smad TGF-B signaling**
 ○ Ryoko Sakamoto¹, Ikko Kajihara¹, Saki Maeda-Otsuka¹, Saori Yamada-Kanazawa¹, Mamiko Masuzawa², Mikio Masuzawa³, Yasuyuki Amoh², Daichi Hoshina⁴, Riichiro Abe⁵, Hironobu Ihn¹
¹Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan, ²Department of Dermatology, Kitasato University School of Medicine, Kanagawa, Japan, ³Department of Molecular Diagnostics, School of Allied Health Sciences, Kitasato University, Kanagawa, Japan, ⁴Department of Dermatology, Hokkaido University Graduate School of Medicine, Hokkaido, Japan, ⁵Department of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan
- O2-07 [P02-13] TCR/CD3 complex-negative T-cell lymphoproliferative disease with hematodermic involvement**
 ○ Yuki Nakagawa¹, Toshihisa Hamada², Keiji Iwatsuki¹, Yoji Hirai¹, Shin Morizane¹, Takahide Takahashi³, Toshiyuki Watanabe³
¹Department of Dermatology, Okayama university Graduate School of Medicine, Dentistry, and Pharmaceutical Science, Okayama, Japan, ²Department of Dermatology, Takamatsu red cross Hospital, Kagawa, Japan, ³Division of Medical Support of Okayama University Hospital, Okayama, Japan
- O2-08 [P02-14] Heterogeneity of PD-L1 expression in pre and post treatment cutaneous angiosarcoma**
 ○ Tetsuya Magara, Motoki Nakamura, Takao Oda, Hiroshi Kato, Akimichi Morita
 The Department of Geriatric and Environmental Dermatology, Nagoya City University, Aichi, Japan
- O2-09 [P02-15] Imiquimod disrupts mitochondrial dynamic balance and leads to mitophagy**
 ○ Kai-Cheng Chuang¹, Jeng-Jer Shieh^{1,2,3}
¹Institute of Biomedical Sciences, National Chung Hsing University, Taichung City, Taiwan, ²Department of Education and Research, Taichung Veterans General Hospital, Taichung City, Taiwan, ³Rong Hsing Research Center for Translational Medicine, National Chung Hsing University, Taichung City, Taiwan
- O2-10 [P02-16] A low expression of cell adhesion molecule 1 (CADM1) is associated with poor clinical outcome in cutaneous squamous cell carcinoma**
 ○ Natsuko Sasaki, Yu Sawada, Etsuko Okada, Motonobu Nakamura
 The Department of Dermatology, University of Occupational and Environmental Health, Fukuoka, Japan
- O2-11 [P02-17] NUA2 localization in the normal skin and its contribution to skin carcinogenesis with Yes-associated protein**
 ○ Hind Al-Busani¹, Hiroo Yokozeki¹, Saber Al-Sobaihi², Takeshi Namiki¹
¹Department of Dermatology, Tokyo Medical and Dental University, Tokyo, Japan, ²Department of Global Health Entrepreneurship, Tokyo Medical and Dental University, Tokyo, Japan
- O2-12 [P02-18] The expression of EpCAM in extramammary Paget's disease**
 ○ Saori Yamada-Kanazawa, Ikko Kajihara, Yukino Tasaki, Ryoko Sakamoto, Saki Maeda-Otsuka, Hironobu Ihn
 Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University
- O2-13 [P03-05] The significance of tumor cell-derived MFG-E8 in tumor growth of angiosarcoma**
 ○ Chisako Fujiwara¹, Aoi Ohira², Sayaka Yamaguchi², Akiko Sekiguchi¹, Masahito Yasuda¹, Hideharu Nakamura³, Takaya Makiguchi³, Satoshi Yokoo³, Daichi Hoshina⁴, Riichiro Abe⁵, Kenzo Takahashi², Osamu Ishikawa¹, Sei-ichiro Motegi¹
¹The Department of Dermatology, University of Gunma, Gunma, Japan, ²Department of Dermatology, University of the Ryukyus Graduate School of Medicine, Okinawa, Japan, ³Department of Oral and Maxillofacial Surgery, and Plastic Surgery, Gunma University Graduate School of Medicine, Gunma, Japan, ⁴Department of Dermatology, Hokkaido University Graduate School of Medicine, Hokkaido, Japan, ⁵Niigata University Graduate School of Medicine and Dental Science, Division of Dermatology, Niigata, Japan
- O2-14 [P03-06] Pemphigus autoantibodies directly inhibit heterophilic desmoglein -desmocollin adhesion by steric hindrance**
 ○ Ken Ishii¹, Kenji Yoshida¹, Jun Yamagami², Masayuki Amagai², John_R. Stanley³, Akira Ishiko¹
¹Department of Dermatology, Toho University, Tokyo, Japan, ²Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, ³Department of Dermatology, University of Pennsylvania, Philadelphia, PA, USA
- O2-15 [P03-07] The carbonylation of scaffold proteins affects the cellular functions of dermal fibroblasts**
 ○ Yumiko Yamawaki^{1,2}, Taeko Mizutani¹, Yuri Okano¹, Hitoshi Masaki²
¹CIEL CO., LTD., ²Tokyo University of Technology
- O2-16 [P03-08] Therapeutic possibility of administration of dimethyl fumarate for preventing the development of pressure ulcers by cutaneous I/R injury**
 ○ Yuta Inoue, Akihiko Uchiyama, Akiko Sekiguchi, Sahori Yamazaki, Chisako Fujiwara, Osamu Ishikawa, Sei-ichiro Motegi
 Department of Dermatology, Gunma University Graduate School of Medicine

- O2-17 [P03-09] Signaling mechanisms underlying the increased secretion of hyaluronan elicited in human dermal fibroblasts by Mycosporine-like amino acids**
○ Genji Imokawa¹, Shuko Terazawa¹, Takao Niwano¹, Akihiko Nakano², Akio Yamamoto²
¹Center for Bioscience Research & Education, Utsunomiya University, ²Cosmetic Research Center, Doctors Choice Co. Ltd
- O2-18 [P03-10] Hydrogenated retinol abrogates the over-expression of neprilysin by inhibiting UVB up-regulated epithelial-mesenchymal cytokine interactions**
○ Mariko Yokota¹, Yoriko Sato², Shuko Terazawa², Genji Imokawa²
¹NIKKOL GROUP COSMOS TECHNICAL CENTER CO., LTD., Tokyo, Japan, ²Center for Bioscience Research & Education, Utsunomiya University
- O2-19 [P03-11] TF-expression and inter-cellular gap formation of HUVECs in response to TNF- α , LPS or IL-33 are enhanced by treatment with histamine or VEGF**
○ Akiko Kamegashira, Yuhki Yanase, Shunsuke Takahagi, Kazue Uchida, Tomoko Kawaguchi, Michihiro Hide
The Department of Dermatology, Graduate School of Biomedical Sciences, University of Hiroshima, Hiroshima, Japan
- O2-20 [P03-12] The distributions of claudin-1 and zonula occludens-1 in oral mucosa are different from those of skin**
○ Keisuke Imafuku, Hiroaki Iwata, Ken Natsuga, Hiroshi Shimizu
Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University
- O2-21 [P04-08] A novel humanized mouse model for atopic dermatitis**
○ Aviad Keren¹, Christoph Riethmüller², Yehuda Ullman¹, Yoshikazu Uchida³, Ralf Paus⁴, Amos Gilhar¹
¹Skin Research Laboratory, Technion-Israel Institute of Technology, Haifa, Israel, ²Centre for Nanotechnology, Serend-ip GmbH, Münster, Germany, ³Monasterium Laboratory GmbH, Münster, Germany, ⁴Department of Dermatology, University of Miami Miller School of Medicine, Miami, FL, USA
- O2-22 [P04-11] Increased interleukin-26 expression promotes Th17 and Th2-associated cytokine production by keratinocytes in atopic dermatitis**
○ Hiroaki Kamijo¹, Tomomitsu Miyagaki¹, Yoshio Hayashi¹, Taro Akatsuka¹, Sayaka Watanabe-Otobe¹, Tomonori Oka¹, Naomi Shishido-Takahashi^{1,2}, Hiraku Suga¹, Makoto Sugaya^{1,2}, Shinichi Sato¹
¹Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo, Japan, ²Department of Dermatology, International University of Health and Welfare, Chiba, Japan
- O2-23 [P04-12] Evaluation of a potent skin whitening agent**
○ Thomas Mamzone, Jaimie Jerome
Clinique Labs
- O2-24 [P04-13] Maintenance therapy with azathioprine prolonged duration of remission for pemphigus patients who received rituximab**
○ Po-Wei Huang¹, Yung-Tsu Cho², Yu-Ming Huang², Li-Fang Wang², Chia-Yu Chu²
¹Department of Dermatology, National Taiwan University Hospital, Taipei, Taiwan, ²Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, Taiwan
- O2-25 [P04-14] The characteristics of patients with persistent HHV-6 infection after DIHS/DRESS**
○ Yuki Nishimura, Fumi Miyagawa, Kazuya Miyashita, Rie Ommori, Chinatsu Shobatake, Hiroaki Azukizawa, Hideo Asada
The Department of Dermatology, Nara Medical University School of Medicine, Nara, Japan
- O2-26 [P04-15] Clinical significance of serum cell free DNA levels in extramammary Paget's disease**
○ Ikko Kajihara¹, Tselmeg Mijiddorj¹, Saki Otsuka-Maeda¹, Ryoko Sakamoto¹, Soichiro Sawamura¹, Saori Kanazawa-Yamada¹, Sho Egashira¹, Katsunari Makino¹, Azusa Miyashita¹, Jun Aoi¹, Takamitsu Makino¹, Satoshi Fukushima¹, Masatoshi Jinnin², Hironobu Ihn¹
¹Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan, ²Department of Dermatology, Wakayama Medical University, Wakayama, Japan
- O2-27 [P04-16] Clinical significance of serum Galectin-9, Soluble LAG-3, and CD155 levels in patients with systemic sclerosis**
○ Mami Chihara¹, Miki Kurita¹, Akihiko Asahina¹, Koichi Yanaba²
¹Department of Dermatology, The Jikei University School of Medicine, Tokyo, Japan, ²Department of Dermatology, The Jikei University Katsushika Medical Center
- O2-28 [P04-17] Demonstration of anti-aging and anti-cytotoxicity effects of theophylline in human skin *ex vivo***
○ Marta Bertolini¹, Yuval Ramot², Jennifer Gherardini¹, Gudrun Heinen³, Jèrèmy Chèret⁴, Thomas Wels³, Yoshikazu Uchida¹, Ralf Paus⁴
¹Monasterium Laboratory GmbH, Münster, Germany, ²Department of Dermatology, Hadassah Medical Center, Hebrew University of Jerusalem, Israel, ³Henkel AG & Co. KGaA, Düsseldorf, Germany, ⁴Dept. of Dermatology & Cutaneous Surgery, University of Miami Miller School of Medicine, Miami, FL, USA

- O2-29 [P04-18] Characteristic electron microscopy findings of vascular Ehlers-Danlos syndrome**
 ○ Satoko Ishikawa¹, Shujiro Hayashi¹, Eisuke Ishii¹, Tomoko Kaminaga¹, Masami Koike¹, Yoichiro Hamasaki¹, Toshimi Sairenchi², Gen Kobashi², Ken Igawa¹
¹Department of Dermatology, Dokkyo Medical University, School of Medicine, ²Department of Public Health, Dokkyo Medical University School of Medicine
- O2-30 [P04-19] Serum FABP-4 level is inversely correlated with serum TARC level in psoriasis patients achieving clear skin by biologics**
 ○ Masaru Honma, Takashi Shibuya, Shin Inuma, Akemi Ishida-Yamamoto
 Department of Dermatology, Asahikawa Medical University, Asahikawa, Japan
- O2-31 [P04-20] Identification of biomarkers for predicting the response to cyclosporine A therapy in patients with chronic spontaneous urticaria**
 ○ Takahiro Endo¹, Shota Toyoshima^{2,3}, Kazuko Kanegae^{2,3}, Satoshi Izaki^{1,2}, Nobuyuki Nishimori^{1,2}, Mana Ito^{1,2}, Kazuko Sugai^{4,5}, Koremasa Hayama^{1,2}, Yoshimichi Okayama^{2,3}, Tadashi Terui^{1,2}
¹Department of Dermatology, Nihon University School of Medicine, Tokyo, Japan, ²Allergy and Immunology Research Project Team, Research Institute of Medical Science, Nihon University School of Medicine, Tokyo, Japan, ³Center for Institutional Research and Medical Education, Nihon University School of Medicine, Tokyo, Japan, ⁴Sugai Children's Clinic, Hiroshima, Japan, ⁵Center for Public Health Informatics, National Institute of Public Health, Saitama, Japan
- O2-32 [P04-21] Withdrawn**
- O2-33 [P04-22] Different preferences between patients and physicians for the treatment of atopic dermatitis in Japan**
 ○ Yukari Okubo¹, Kerrie-Anne Ho², Simon Fifer², Hiroyuki Fujita³, Yasuyo Oki³, Yurie Taguchi³
¹Department of Dermatology, Tokyo Medical University, Tokyo, Japan, ²Community and Patient Preference Research Pty Ltd (CaPPRe), ³Sanofi K.K.
- O2-34 [P04-23] Immunohistochemical and clinicopathological study for Nardilysin on extramammary Paget's disease**
 ○ Akihiko Yamaguchi¹, Toshifumi Takahashi¹, Takeshi Kato¹, Noriki Fujimoto¹, Eiichiro Nishi², Toshihiro Tanaka¹
¹The Department of Dermatology, Shiga University of medical science, Shiga, Japan, ²Department of Pharmacology, Shiga University of medical science
- O2-35 [P05-11] Effects of calcium and magnesium ions on aquaporin 3 expression in keratinocytes**
 ○ Akane Tanaka, Ryo Muko, Yosuke Amagai, Hiroshi Matsuda
 Tokyo University of Agriculture and Technology
- O2-36 [P05-12] Loss of basal sweating responses at the folds in the finger as a potential mechanism for the development of hand eczema**
 ○ Tetsuko Sato, Chieko Katayama, Yuki Hayashida, Yumiko Asanuma, Yumi Aoyama
 Department of dermatology, Kawasaki Medical School, Okayama, Japan
- O2-37 [P05-13] High concentration of glucose induces filaggrin-1 expression through activating AP-1 in human skin keratinocyte cultures**
 ○ Kiyoko Yamada^{1,2}, Masae Yamada³, Seijyo Wan³, Kenji Matsushita^{2,3}, Takuro Kanekura¹
¹The Department of Dermatology, Kagoshima University, Kagoshima, Japan, ²Department of Longevity Oral Science, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan, ³Department of Oral Disease Research, National Center for Geriatrics and Gerontology, Obu, Japan
- O2-38 [P05-14] Strange behavior of transglutaminase in the stratum corneum in disrupted barrier function**
 ○ Misa Hirayama^{1,2}, Yukiko Izutsu¹, Yuki Yamashita¹, Nana Takayama², Hitoshi Masaki²
¹NIKKOL GROUP NIKODERM RESERCH INC., Osaka, Japan, ²Tokyo University of Technology, School of Bioscience and Biotechnology, Tokyo, Japan
- O2-39 [P05-15] Azidothymidine, thymidine analogue, suppresses IGF-1 induced lipogenesis in human immortalized sebocytes**
 ○ Jin Gwi Yoo¹, Chong Won Choi^{2,3}, Chang Deok Kim², Young Joon Seo^{2,3}, Young Lee^{2,3}, Kyung Eun Jung^{2,3}, Dong Kyun Hong^{2,3}
¹Department of Medical Science, Chungnam National University, Daejeon, Korea, ²Department of Dermatology, College of Medicine, Chungnam National University, Daejeon, Korea, ³Department of Dermatology, Chungnam National University Hospital, Daejeon, Korea
- O2-40 [P05-16] Effect of rapamycin on skin hydration in mouse model of tuberous sclerosis complex**
 ○ Weining Wang¹, Kiyoko Kato¹, Shinichiro Maeda², Makiko Koike-Kumagai¹, Kazuko Kitayama¹, Manabu Fujimoto¹, Mari Wataya-Kaneda¹
¹The Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka, Japan, ²Graduate School of Pharmaceutical Sciences Osaka University, Osaka, Japan
- O2-41 [P05-17] Effect of low-temperature argon plasma on wound healing**
 ○ Hae Young Kim, Gaurav Agrahari, Won Kook Ham, Lee Jung Tak, Tae Yoon Kim
 Laboratory of Dermato-immunology, The Catholic University of Korea, Seoul, South Korea

- O2-42 [P05-18] Phenotype/genotype correlations in two pedigrees with epidermolytic ichthyosis**
○ Yuya Murase¹, Kana Tanahashi¹, Takuya Takeichi¹, Michihiro Kono¹, Kazumitsu Sugiura², Akiteru Aiyama³, Keigo Nishida³, Teruyuki Mitsuma³, Katsuko Kikuchi⁴, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, ²Department of Dermatology, Fujita Health University Graduate School of Medicine, Nagoya, ³Department of Dermatology, Ichinomiya Municipal Hospital, ⁴Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai
- O2-43 [P05-19] The pH-dependent morphological changes in HaCaT keratinocytes**
○ Mao Muto, Yohei Hirai
The Department of Biomedical Chemistry, Science and Technology, Kwansai Gakuin University, Hyogo, Japan
- O2-44 [P05-20] Histopathological clues in distinguishing palmoplantar pustulosis from pompholyx**
○ Kana Kuroki¹, Masamoto Murakami², Mari Kishibe³, Noriko Umegaki⁷, Satomi Kobayashi⁴, Toshiyuki Yamamoto⁵, Tadashi Terui⁶, Yukari Okubo¹
¹Department of Dermatology, Tokyo Medical University, Tokyo, Japan, ²Department of Dermatology, Ehime University Graduate School of Medicine, ³Department of Dermatology, Asahikawa Medical University, ⁴Department of Dermatology, Seibo Hospital, ⁵Department of Dermatology, Fukushima Medical University, ⁶Department of Dermatology, Nihon University School of Medicine, ⁷Tokyo Women's Medical University Medical Center East
- O2-45 [P05-21] The effect of dermal microscopic parameters on the optical skin properties: the analysis using crossed polarized light imaging on cadavers**
○ Hyo Hyun Ahn¹, Ji Hyuck Hong¹, Dai Hyun Kim², Im Joo Rhyu², Young Chul Kye¹
¹Department of Dermatology, Korea University College of Medicine, Seoul, Korea, ²Department of Anatomy, Korea University College of Medicine
- O2-46 [P05-22] Alpha-tocopherol fatty acid ester prevents dysfunction of epidermal barrier induced in higher oxidation condition**
Yuto Miyaguchi¹, ○ Hajime Tamura¹, Hitoshi Masaki²
¹MITSUBISHI-CHEMICAL FOODS CORPORATION, ²Photoaging Research Laboratory, School of Bioscience and Biotechnology, Tokyo University of Technology
- O2-47 [P09-09] Roles of mature adipocytes in human hair growth**
○ Jotaro Nakanishi¹, Hideharu Kuratomi²
¹Shiseido Global Innovation Center, Yokohama, Japan, ²Medical Plaza Ichikawa Station, Ichikawa, Japan
- O2-48 [P09-10] Non-thermal atmospheric pressure plasma activates Wnt-b-Catenin signaling in dermal papilla cells**
○ Ji-Hye Hwang¹, Hyun-Young Lee^{2,3}, Hae June Lee², Jino Kim⁴, Kiwon Song⁵, Do-Young Kim¹
¹Department of Dermatology and Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, Korea, ²Department of Electrical Engineering, Pusan National University, Pusan, Korea, ³Research & Development Team, Feagle Co., Ltd, Yangsan, Korea, ⁴New Hair Institute, Seoul, Korea, ⁵Department of Biochemistry, College of Life Science and Biotechnology, Yonsei University, Seoul, Korea
- O2-49 [P09-11] Development of a novel humanized model for the investigation of sensory nervous system in scalp skin *ex vivo***
○ Jérémy Chèret¹, Ilaria Piccini², Leslie Ponce², Yoshikazu Uchida², Marta Bertolini², Ralf Paus¹
¹Dermatology, University of Miami Miller School of Medicine, Miami, FL, USA, ²Monasterium Laboratory GmbH, Muenster, Germany
- O2-50 [P09-12] An apple stem cell-derived extract expands the number of epithelial stem cells in the human hair follicle bulge**
○ Markus Fehrholz¹, Franziska Wandrey², Ilaria Piccini¹, Jennifer Gherardini¹, Majid Alam³, Ewan A. Langan⁴, Hanieh Erdmann⁵, Francisco Jimenez², Daniel Schmid², Yoshikazu Uchida¹, Marta Bertolini^{1,6}
¹Monasterium Laboratory GmbH, Münster, Germany, ²Mibelle Group Biochemistry, Buchs, Switzerland, ³Meditekna Skin & Hair Lab, Las Palmas de Gran Canaria, Spain, ⁴Department of Dermatology, University of Luebeck, Luebeck, Germany, ⁵Kosmed Klinik, Hamburg, Germany, ⁶University of Miami Miller School of Medicine, Miami, FL, USA
- O2-51 [P09-13] Expression of the Hippo signaling effectors LATS1/2, P-YAP, YAP and TAZ in Pilomatricoma**
○ Ga Hee Jeong¹, Gue Tae Moon¹, Hyo Jung Kim², Ji Hyun Lee²
¹Department of Biomedicine & Health Sciences, Brain Korea 21 PLUS Project for Medical Sciences, The Catholic University of Korea, Seoul, Republic of Korea, ²Department of Dermatology, Seoul St. Mary's Hospital, Brain Korea 21 PLUS Project for Medical Sciences, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea
- O2-52 [P09-14] Clinical relevance for serum Cold-inducible RNA-binding protein level in alopecia areata**
○ Jungwoo Ko
Department of Dermatology, School of Medicine, Chungnam National University, Daejeon, Korea
- O2-53 [P09-15] Analysis of sex steroid hormone receptors in acquired idiopathic generalized anhidrosis**
○ Takeshi Yanagishita, Yuichiro Ohshima, Hiroyuki Takama, Yasuhiko Tamada, Daisuke Watanabe
Department of Dermatology, Aichi Medical University School of Medicine, Aichi, Japan

November 8, 2019, Room C

Concurrent Oral Session 3 (Immunology 1: Adaptive Immunity)

10:05-11:29

Chairs: Yoshihide Asano, Makoto Sugaya, Masatoshi Jinnin

C03-1
[P10-03]
10:05-10:17

Remained diversity and function in older individuals in skin T cell

○ Hanako Koguchi-Yoshioka^{1,2}, Elena Hoffer³, Stanley Cheuk³, Yutaka Matsumura², Sa Vo², Yoshiyuki Nakamura², Yosuke Ishitsuka², Naoko Okiyama², Yasuhiro Fujisawa², Manabu Fujimoto^{1,2}, Liv Eidsmo³, Rachael A Clark⁴, Rei Watanabe²

¹The Department of Dermatology, Osaka University, Osaka, Japan, ²The Department of Dermatology, University of Tsukuba, Tsukuba, Japan, ³The Department of Medicine Solna, Karolinska Institutet, Solna, Sweden, ⁴The Department of Dermatology, Brigham and Women's Hospital, Boston, USA

C03-2
[P10-04]
10:17-10:29

Foxp3⁺ regulatory T cells inactivate peripheral tolerance against autoreactive CD4⁺ T cells and CD8⁺ T cells differently

○ Toshiya Miyake, Gyohei Egawa, Kenji Kabashima

Department of Dermatology, Kyoto University Graduate school of Medicine, Kyoto, Japan

C03-3
[P10-05]
10:29-10:41

Attenuation of murine sclerodermatous models by the selective S1P₁ receptor modulator cenerimod

○ Miyu Kano¹, Tadahiro Kobayashi¹, Mutsumi Date¹, Momoko Tennichi¹, Yasuhito Hamaguchi¹, Daniel S Strasser², Kazuhiko Takehara¹, Takashi Matsushita¹

¹The Department of Dermatology, University of Kanazawa, Kanazawa, Japan, ²Idorsia Pharmaceuticals Ltd., Drug Discovery, Allschwil, Switzerland

C03-4
[P10-06]
10:41-10:53

Identification of epidermal resident regulatory CD4⁺ T cells

○ Youichi Ogawa¹, Takuya Sato¹, Manao Kinoshita¹, Rei Watanabe², Shinji Shimada¹, Tatsuyoshi Kawamura¹

¹Department of Dermatology, Faculty of Medicine, University of Yamanashi, Yamanashi, Japan, ²Department of Dermatology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan

C03-5
[P10-07]
10:53-11:05

TBK1 signaling in bone marrow-derived cells negatively regulates contact hypersensitivity by suppressing antigen sensitization

○ Yuri Nakano, Teruki Dainichi, Sho Hanakawa, Kenji Sakurai, Reiko Matsumoto, Masayuki Otsuka, Mostafa Alshimaa, Kenji Kabashima

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

C03-6
[P10-08]
11:05-11:17

The Keap1/Nrf2 system is an initiator of atopic sensitization

○ Tatsuya Ogawa¹, Yosuke Ishitsuka¹, Yasushi Suga², Manabu Fujimoto³

¹Department of Dermatology, Faculty of Medicine, University of Tsukuba, Tsukuba, Japan, ²Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu, Japan, ³Department of Dermatology, Course of Molecular Medicine, Graduate School of Medicine, Osaka University, Osaka, Japan

C03-7
[P10-09]
11:17-11:29

Distinct roles of programmed cell death ligands 1 and 2 based on the type of immunity

○ Ryota Tanaka¹, Yuki Ichimura¹, Noriko Kubota¹, Manabu Fujimoto², Naoko Okiyama¹

¹Department of Dermatology, University of Tsukuba, ²Department of Dermatology, Course of Integrated Medicine, Graduate School of Medicine, Osaka University

Luncheon Seminar 3 "New era of biologics for psoriasis"

11:40-12:40

Chair: Hiroo Amano

LS3-1

Role of IL-23 in the pathogenesis of psoriasis

○ Tetsuya Honda

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

LS3-2

Psoriasis treatment in the new Reiya era

○ Yukie Yamaguchi

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

Co-sponsored by AbbVie GK

Afternoon Seminar 1 "skin barrier and skin redness"

15:30-16:30

Chair: Lucy Gildea

- AS1-1 Environmental protection strategies against skin aging in Asians**
○ Akimichi Morita, Motoki Nakamura
Departments of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences
- AS1-2 ER calcium and the unfolded protein response regulate epidermal tight junction barrier and skin inflammation**
○ Sang Eun Lee
Department of Dermatology, Gangnam Severance Hospital, Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, Korea
- AS1-3 What skin barrier defects in atopic dermatitis teach us about epidermal physiology**
○ Gyohei Egawa
Kyoto University Graduate School of Medicine, Dept. of Dermatology

Co-sponsored by Mary Kay Inc.

Mini Symposium "Recent advance of blistering skin disease"

16:35-17:35

Chairs: Tadamichi Shimizu, Wataru Nishie

- MSY1 Genetic skin blistering: cutaneous disorders or systemic diseases?**
○ Leena Bruckner-Tuderman
Medical Center-University of Freiburg, Freiburg, Germany
- MSY2 Understanding of systemic and dermal fibrosis-promoting mechanisms in dystrophic epidermolysis bullosa: Implications for treatment of fibrosis and cancer**
○ Alexander Nyström
Department of Dermatology, Medical Center-University of Freiburg, Germany

One-minute presentation "Come to see my poster" 3 (Epidemiology/Health Service Research, Genetic Disease/Gene Regulation and Gene Therapy, Tissue Regeneration/Stem Cell and Wound Healing, Immunology 1: Adaptive Immunity, Immunology 2: Innate Immunity and Microbiology, Photobiology)

17:40-18:35

Chair: Hiroo Yokozeki

- O3-01 [P06-03] The overall survival of anti-IL-17 antibodies and the cause of discontinuation in Japanese psoriatic patients**
○ Takuya Miyagi, Yu-ichi Yamamoto, Kenzo Takahashi
Department of Dermatology, University of the Ryukyus Graduate School of Medicine
- O3-02 [P06-04] Incidence and trends of skin tumors in South Korea from 2008 to 2016: A nation-wide population based study**
○ Kyungduck Park¹, Jung Min Bae², Kee Yang Chung³, Sook Jung Yun⁴, Joung Soo Kim⁵, Soo Hong Seo⁶, Hyo Hyun Ahn⁶, Dong-Youn Lee⁷, Heesu Kim⁸, Byung Cheol Park⁹
¹Department of Dermatology, Kyungpook National University School of Medicine, Daegu, Korea, ²St Vincent's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea, ³Yonsei University College of Medicine, Seoul, Korea, ⁴Chonnam National University School of Medicine, Gwangju, Korea, ⁵Hanyang University College of Medicine, Guri, Korea, ⁶Korea University College of Medicine, Seoul, Korea, ⁷Sungkyunkwan University School of Medicine, Seoul, Korea, ⁸Catholic Kwandong University College of Medicine, Incheon, Korea, ⁹Dankook University College of Medicine, Cheonan, Korea
- O3-03 [P06-05] Dermatologist and patient perceptions of treatment success in Alopecia Areata and evaluation of clinical outcome assessments in Japan**
Helen Kitchen¹, Jake Macey¹, Natalie V.J. Aldhouse¹, Sarah Knight¹, Kathleen W. Wyrwich², Russel T. Burge², Yves Dutronc², Hitoe Torisu-Itakura³, ○ Yoshitaka Isaka³
¹Clinical Outcomes Assessment, DRG Abacus, Manchester, United Kingdom, ²Eli Lilly and Company, Indianapolis, IN, United States, ³Medicine Development Unit, Eli Lilly Japan K.K., Kobe, Japan

- O3-04 [P06-06] Withdrawn**
- O3-05 [P06-07] Awareness & Measures to contain leishmaniasis in Pakistan**
 ○ Usma Iftikhar, Abdul Quddus Butt
 Dermatology Department, Rawalpindi Medical University, Pakistan
- O3-06 [P07-08] Clinical characterization of hereditary angioedema due to a plasminogen mutation**
 ○ Georg Dewald
 Institute for Molecular and Preventive Medicine, Koblenz, Germany
- O3-07 [P07-09] A novel frameshift mutation in KRT14 causes epidermolysis bullosa simplex: therapeutic experience with topical mTOR inhibitor**
 ○ Mari Kishibe¹, Risa Matsuo¹, Masako Minami-Hori¹, Masaru Honma¹, Akiharu Kubo², Akemi Ishida-Yamamoto¹
¹Department of Dermatology, Asahikawa Medical University, Asahikawa, Japan, ²Department of Dermatology, Keio University School of Medicine, Tokyo, Japan
- O3-08 [P07-10] A case of congenital generalized lipodystrophy with dyschromia caused by a heterozygous recurrent mutation of LMNA gene**
 ○ Takenao Chino¹, Noritaka Oyama¹, Akira Utsunomiya¹, Natsuko Utsunomiya¹, Minoru Hasegawa¹, Akiharu Kubo²
¹Departments of Dermatology, Faculty of Medical Sciences, University of Fukui, Fukui, ²Department of Dermatology, Keio University School of Medicine, Tokyo, Japan
- O3-09 [P07-11] Single nucleotide polymorphisms of aldo-keto reductase 1C3 in Japanese psoriasis patients**
 Yuka Nojiri¹, ○ Motoki Nakamura¹, Emi Nishida¹, Kyoko Ikumi¹, Kan Torii¹, Thomas Haarmann-Stemann², Akimichi Morita¹
¹Department of Geriatric and Environmental Dermatology, ²IUF-Leibniz Research Institute for Environmental Medicine
- O3-10 [P07-12] Lipid mediator profiles of pachydermoperiostosis**
 ○ Takashi Nomura¹, Tomohiro Oiwa¹, Takayoshi Komatsu-Fujii¹, Hironori Niizeki², Mai Ohba³, Toshiaki Okuno³, Takehiko Yokomizo³, Kenji Kabashima¹
¹Department of Dermatology, Kyoto University, Kyoto, Japan, ²Division of Dermatology, Department of Surgical Subspecialties, National Center for Child Health and Development, ³Department of Biochemistry, Juntendo University School of Medicine
- O3-11 [P07-13] Highly prevalent LIPH founder mutation causes pseudo-dominant inheritance pattern in autosomal recessive woolly hair/hypotrichosis in Japan**
 ○ Tomoki Taki, Kana Tanahashi, Takuya Takeichi, Masashi Akiyama
 The Department of Dermatology, University of Nagoya, Aichi, Japan
- O3-12 [P07-14] A heterozygous duplication variant in SERPINB7 might be a possible genetic modifying factor for epidermolytic palmoplantar keratoderma**
 ○ Takenori Yoshikawa¹, Takuya Takeichi¹, Tomoo Ogi², Yasushi Suga³, Masashi Akiyama¹
¹The Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, ²Department of Genetics, Research Institute of Environmental Medicine, Nagoya University, ³Department of Dermatology, Juntendo University Urayasu Hospital
- O3-13 [P07-15] Whole-exome sequencing facilitated genetic diagnosis of a patient with dystrophic epidermolysis bullosa**
 ○ Yasutoshi Ito¹, Takuya Takeichi¹, Ken Natsuga², Hideki Nakamura², Tomoo Ogi³, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, ²Department of Dermatology, Hokkaido University Faculty of Medicine and Graduate school of Medicine, Sapporo, Japan, ³Department of Genetics, Research Institute of Environmental Medicine, Nagoya University, Nagoya, Japan
- O3-14 [P07-16] Novel cathepsin C mutation p.G430V in a patient with Papillon-Lefèvre syndrome**
 ○ Akari Sakai¹, Satoru Shinkuma¹, Mahoko Oginazawa¹, Mami Nakajima¹, Akemi Nakamura², Riichiro Abe¹
¹Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, ²Shindori Akemi Dermatology Clinic, Niigata, Japan
- O3-15 [P08-09] RNAseq analysis of human skin model recapitulates systemic sclerosis identifies Collagen 22A1 as a TGFβ early response gene**
 ○ Tomoya Watanabe^{1,2}, DeAnna Baker Frost², Logan Mlakar², Jonathan Heywood², Willian A. da Silveira³, Gary Hardiman^{3,4}, Carol Feghali-Bostwick²
¹Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, Yokohama, Japan, ²Division of Rheumatology & Immunology, Department of Medicine, Medical University of South Carolina, Charleston, South Carolina, USA, ³Center for Genomic Medicine, Bioinformatics, Medical University of South Carolina, Charleston, South Carolina, USA, ⁴Departments of Medicine and Public Health Sciences, Medical University of South Carolina, Charleston, South Carolina, USA
- O3-16 [P08-10] In vivo selective removal of the epidermis unveils the dynamics of epithelial wound healing**
 ○ Yu Fujimura¹, Ken Natsuga¹, Mika Watanabe^{1,2}, Hiroaki Iwata¹, Wataru Nishie¹, Hideki Nakamura¹, Masaharu Nagayama^{3,4}, Giacomo Donati², Hiroshi Shimizu¹
¹Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, ²Department of Life Sciences and Systems Biology, Molecular Biotechnology Centre, University of Turin, Turin, Italy, ³Research Institute for Electronic Science, Hokkaido University, Sapporo, Japan, ⁴Japan Science and Technology Agency, CREST, Kawaguchi, Japan

- O3-17 [P08-12] Targeting the TSLP-induced signaling pathway to inhibit further inflammation and fibrosis**
○ Jung U Shin¹, A-Ram Kim¹, Suji Sohn¹, Juhee Lee², Seo Hyeong Kim², Hyeran Kim², Dong Hyun Kim¹, Moon Soo Yoon¹, Hee Jung Lee¹
¹Department of Dermatology, CHA Bundang Medical Center, CHA University, Seongnam, Korea., ²Department of Dermatology, Yonsei University College of Medicine, Seoul, Korea
- O3-18 [P08-13] Fibroblast growth factor 2 enhances epithelial mesenchymal transition on keratinocytes during wound healing process**
○ Yuta Koike, Mariko Yozaki, Hiroyuki Murota
Department of Dermatology, Nagasaki University Graduate School of Biomedical Sciences
- O3-19 [P08-14] Peroxiredoxin 4 (PRDX4) prevents age-related delayed wound healing**
○ Reimon Yamaguchi¹, Xin Guo², Jianbo Zheng², Ken-ichi Mizutani², Motona Kumagai², Akihiro Shioya², Nozomu Kurose², Akiko Nishibu¹, Takashi Mochizuki¹, Sohsuke Yamada²
¹The Department of Dermatology, Kanazawa Medical University, Ishikawa, Japan, ²Department of Pathology and Laboratory Medicine, Kanazawa Medical University
- O3-20 [P08-15] Regulation of tight junctions and differentiation markers in keratinocytes by calcitriol in diabetes**
○ Valentin Trujillo¹, Yoshie Umehara¹, Ko Okumura¹, Francois Niyonsaba^{1,2}
¹Atopy(Allergy) Research Center, Juntendo University, Tokyo, Japan, ²Faculty of International Liberal Arts, Juntendo University, Tokyo, Japan
- O3-21 [P08-16] Effects of antimicrobial peptide human β -defensin-3 on wound healing**
○ Yoshie Umehara¹, Nutda Sutthammikorn¹, Pu Song¹, Yue Hainan¹, Ko Okumura¹, Hideoki Ogawa¹, François Niyonsaba^{1,2}
¹Atopy (Allergy) Research Center, Juntendo University School of Medicine, Tokyo, Japan, ²Faculty of International Liberal Arts, Juntendo University, Tokyo, Japan
- O3-22 [P08-17] Adipose-derived stromal/stem cells improve epidermal homeostasis**
○ Hiroki Kiriya¹, Mariko Moriyama¹, Shunya Sahara², Kaori Zaiki², Ayumi Ueno², Koichi Nakaoji², Kazuhiko Hamada², Toshiyuki Ozawa³, Daisuke Tsuruta³, Takao Hayakawa¹, Hiroyuki Moriyama¹
¹Pharmaceutical Research and Technology Institute, Kindai University, Osaka, Japan, ²Research and Development Division, PIAS Corporation, Hyogo, Japan, ³Department of Dermatology, Graduate School of Medicine, Osaka City University, Osaka, Japan
- O3-23 [P08-18] Hair follicle-associated pluripotent (HAP) stem cells can differentiate to dopaminergic neurons**
○ Yuko Hamada¹, Koya Obara¹, Kyoumi Shirai¹, Sumiyuki Mii¹, Ryoichi Aki¹, Ayami Haruki¹, Nobuko Arakawa¹, Robert M. Hoffman^{2,3}, Yasuyuki Amoh¹
¹Department of Dermatology Kitasato University School of Medicine, ²Anti Cancer, Inc., San Diego, CA, ³Department of Surgery, University of California San Diego, CA
- O3-24 [P08-19] Effects of adipose-derived stem cells differentiated into keratinocyte-like cells on wound healing**
○ Jonghun Kim¹, Toshio Hasegawa¹, Akino Wada¹, Yuichiro Maeda¹, Shigaku Ikeda^{1,2}
¹Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, Japan, ²Atopy Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan
- O3-25 [P08-20] A novel angiogenic factor Ninjurin-1 is upregulated in pericytes during skin wound healing**
○ Risa Matsuo, Mari Kishibe, Shin Iinuma, Mizue Fujii, Masaru Honma, Akemi Ishida-Yamamoto
The Department of Dermatology, Asahikawa Medical University, Hokkaido, Japan
- O3-26 [P10-10] Treg cells suppress the psoriasis-like skin inflammation in imiquimod-induced psoriasis-like mousemodel**
Chong Won Choi^{1,2}, ○ Seoyun Yang^{1,2}, Seungkeol Yang^{1,2}, Bo Ri Kim^{1,2}, Sang Woong Youn^{1,2}
¹Department of Dermatology, Seoul National University College of Medicine, Seoul, Korea, ²Department of Dermatology, Seoul National University Bundang Hospital, Seoul National University College of Medicine, Seongnam, Korea
- O3-27 [P10-11] Intravital imaging of keratinocyte apoptosis mediated by antigen-specific CD8+ T cells in a GVHD-like murine model**
○ Hui Mei Cheng^{1,2}, Tetsuya Honda², Jun-ichi Sakabe³, Yoshiki Tokura³, Kenji Kabashima²
¹National Skin Centre, Singapore, ²Department of Dermatology, Kyoto University, Japan, ³Department of Dermatology, Hamamatsu University School of Medicine, Japan
- O3-28 [P10-12] Comparison of susceptibility to sensitization between skin and vaginal mucosa in contact allergy**
○ Kanako Nakayama, Taku Nishijo, Masaaki Miyazawa, Hitoshi Sakaguchi
Safety Science Research, Kao Corporation, Tochigi, Japan
- O3-29 [P10-13] IL-17 prevents regulatory T cells-mediated suppression of CD4⁺ T cells in psoriasis**
○ Luting Yang, Yanghe Liu, Chen Zhang, Gang Wang
Department of Dermatology, Xijing Hospital, Xi'an, China
- O3-30 [P10-14] Diagnosis of *Dioscorea Japonica* (Japanese yam) allergy by immunoblot analysis**
○ Usho Go, Kazunori Miyata, Masaru Fujita, Tsuyoshi Mitsuishi
The Department of Dermatology, Tokyo Women's Medical University Yachiyo Medical Center, Chiba, Japan

- O3-31 [P10-15] Contribution of Notch signaling to the sustained unresponsiveness to food allergens achieved by oral immunotherapy**
 ○ Nobuhiro Nakano¹, Toshiyuki Yoneyama², Jiro Kitaura¹, Toshiaki Shimizu^{1,2}, Ko Okumura¹, Hideoki Ogawa^{1,3}, Shigaku Ikeda^{1,3}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan, ²Department of Pediatrics and Adolescent Medicine, Juntendo University Graduate School of Medicine, Tokyo, Japan, ³Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, Japan
- O3-32 [P10-16] Epicutaneous allergen vaccination prevents protease- and IL-33-mediated airway allergen sensitization**
 ○ Shinya Kunimine¹, Toshiro Takai², Seiji Kamijo², Natsuko Maruyama^{1,2}, Punyada Suchiva^{1,2}, Hideoki Ogawa¹, Ko Okumura², Shigaku Ikeda^{1,2}
¹The Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, Japan, ²Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan
- O3-33 [P10-17] Topical corticosteroid decreases CD103⁺ resident memory T cells, but partly allows them to remain in the suprabasal epidermis of psoriasis**
 ○ Kazuo Kurihara, Toshiharu Fujiyama, Pawit Phadungsaksawasdi, Taisuke Ito, Yoshiki Tokura
 The Department of Dermatology, Hamamatsu University School of Medicine
- O3-34 [P10-18] Withdrawn**
- O3-35 [P10-19] Skin-homing Th2/Th22/Th31 cells in papuloerythroderma**
 ○ Saori Takamura, Tomoo Fukuda, Yuichi Teraki
 Department of Dermatology, Saitama Medical Center, Saitama Medical University, Saitama, Japan
- O3-36 [P10-20] Correlation of serum inflammatory cytokine levels with clinical characteristics including severity in Korean patients with psoriasis**
 Soo Yeon Cho, Mi Jin Park, ○ Eun-So Lee
 Department of Dermatology, Ajou University School of Medicine, Suwon, Korea
- O3-37 [P11-08] Restricted and unusual usage of TCR gamma/delta chains in systemic hydroa vacciniforme**
 ○ Yoji Hirai¹, Tomoko Miyake¹, Yuki Nakagawa¹, Takahide Takahashi², Shogo Tanimoto¹, Keiji Iwatsuki¹, Shin Morizane¹
¹Department of Dermatology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, ²Medical Support, Okayama University Hospital
- O3-38 [P11-09] Hairless skin in mice defines microbiome and changes mast cell reactivity**
 Chia-Chi Wu¹, Ji-Nu Kim², Zhenping Wang¹, Yu-Ling Chang¹, Karsten Zengler², ○ Anna Di_Nardo¹
¹Department of Dermatology, University of California San Diego, ²Department of Pediatrics, University of California San Diego
- O3-39 [P11-10] Cyclooxygenase inhibitor promotes epicutaneous sensitization to protease allergen and subsequent airway inflammation**
 ○ Punyada Suchiva^{1,2}, Toshiro Takai¹, Natsuko Maruyama¹, Seiji Kamijo¹, Ko Okumura¹, Shigaku Ikeda^{1,2}, Hideoki Ogawa²
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, ²Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine
- O3-40 [P11-11] A novel regulator of mast cells under psychological stress~a neuroendocrine interaction between HPA axis and endocannabinoid system~**
 ○ Mika Takaichi¹, Koji Sugawara¹, Ralf Paus², Daisuke Tsuruta¹
¹Department of Dermatology, Osaka City University Graduate School of Medicine, Osaka, Japan, ²Department of Dermatology & Cutaneous Surgery, University of Miami Miller School of Medicine, Miami, USA
- O3-41 [P11-12] Multinucleated giant cell or acantholytic cell with herpes virus infections is determined under differentiated condition of keratinocyte**
 ○ Takenobu Yamamoto^{1,2}, Yumi Aoyama¹
¹Department of Dermatology, Kawasaki Medical School, Kurashiki, Japan, ²Department of Dermatology, Kawasaki Medical School General Medical Center, Okayama, Japan
- O3-42 [P11-13] Gastro-intestinal *Staphylococcus aureus* colonization worsens skin inflammation in oxazolone induced dermatitis**
 ○ Karin Okada, Yoshiaki Matsushima, Kento Mizutani, Ai Umaoka, Keiichi Yamanaka
 Department of Dermatology, Mie University, Graduate School of Medicine, Tsu, Mie, Japan
- O3-43 [P11-14] Human cathelicidin LL-37 induces inflammation in multiple skin diseases by increasing uptake of DAMPs via scavenger receptors**
 ○ Ryo Amagai, Toshiya Takahashi, Taku Fujimura, Kenshi Yamasaki, Setsuya Aiba
 Department of dermatology Tohoku University Graduate School of medicine

- O3-44 [P11-15] Human β -defensins are involved with pathological mechanism of cutaneous adverse effects caused by EGFR inhibitors**
○ Rie Ommori, Fumi Miyagawa, Hiroaki Azukizawa, Hideo Asada
Department of Dermatology, Nara Medical University, Nara, Japan
- O3-45 [P11-16] ICP-5249 reduces dermal inflammatory signaling through autophagy activation**
○ Ju Yeon Jung, Sekyoo Jeong, Heung Jae Kim, Hwa-Jee Chung, Keedon Park
Incospharm Corporation, South Korea
- O3-46 [P11-17] Epigallocatechin-3-gallate can restore the expression of type I interferon stimulated genes suppressed by type 2 human papillomavirus E7**
○ Ji Young Song¹, Ju Hee Han¹, Yu Mee Song¹, Ji Hyun Lee^{1,2}, Young Min Park^{1,2}
¹The Department of Dermatology, Seoul St. Mary's Hospital, The Catholic University of Korea, Seoul, Korea, ²The Department of Biomedicine & Health Sciences, College of Medicine, The Catholic University of Korea, Seoul, Korea
- O3-47 [P11-18] New trend of diagnostic strategy for Buruli ulcer in Japan**
○ Chiaki Murase¹, Rie R. Yotsu^{2,3}, Mariko Sugawara Mikami^{4,5}, Yuji Miyamoto⁶, Koichi Suzuki⁷, Masashi Akiyama¹, Norihisa Ishii⁸
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Aichi, Japan, ²Department of Dermatology, National Center for Global Health and Medicine, Tokyo, Japan, ³School of Tropical Medicine and Global Health, Nagasaki University, Nagasaki, Japan, ⁴West Yokohama Sugawara Dermatology Clinic, Yokohama, Japan, ⁵Department of Environmental Immunology, Yokohama City University Graduate School of Medicine, Yokohama, Japan, ⁶Leprosy Research Center, National Institute of Infectious Diseases, Tokyo, Japan, ⁷Department of Clinical Laboratory Science, Teikyo University, Tokyo, Japan, ⁸National Sanatorium Tamazenshoen, Tokyo, Japan
- O3-48 [P11-19] Cutibacterium acnes-stimulated splenocytes suppress the growth of malignant melanoma cells**
○ Yoshiaki Matsushima, Kento Mizutani, Karin Okada, Ai Umaoka, Makoto Kondo, Koji Habe, Keiichi Yamanaka
Department of Dermatology, Mie University, Graduate School of Medicine, Mie, Japan
- O3-49 [P12-05] The human skin bacteria *Staphylococcus epidermidis* fermentation end product ameliorates UVB-induced ROS generation**
Arun Balasubramaniam¹, ○ Arun AB¹, Chun Ming Huang^{1,2}
¹Department of Biomedical Sciences and Engineering, National Central University, Taoyuan, Taiwan, ²Department of Dermatology, School of Medicine, University of California, San Diego, CA, USA
- O3-50 [P12-06] The effect of 308-nm excimer laser on mast cells in organ cultured human skin**
○ Ayaka Okazaki, Koji Sugawara, Daisuke Tsuruta
The Department of Dermatology, Osaka City University Graduate School of Medicine, Osaka, Japan
- O3-51 [P12-07] Identification of effective senolytics in human primary dermal fibroblasts**
○ Haesoo Kim^{1,2,3}, Si-Hyung Lee^{1,3}, Goeun Kim^{1,2,3}, Min Ji Song^{1,2,3}, Chi-Hyun Park^{1,3}, Dong Hun Lee^{1,3}, Jin Ho Chung^{1,2,3,4}
¹Department of Dermatology, Seoul National University College of Medicine, Seoul, Korea, ²Department of Biomedical Sciences, Seoul National University Graduate School, Seoul, Korea, ³Institute of Human-Environmental Interface Biology, Medical Research Center, Seoul National University, Seoul, Korea, ⁴Institute on Aging, Seoul National University, Seoul, Korea
- O3-52 [P12-08] Usefulness of UVA lump and fluorescence microscope for the observation of dermatophyte**
○ Tomotaka Sato, Yasuhiko Asahina, Susumu Toshima
The Department of Dermatology, Teikyo University Chiba Medical Center, Chiba, Japan
- O3-53 [P12-09] UVA1 phototherapy with suppressed immediate pigment darkening by selective wavelength irradiation**
○ Hideyuki Masuda^{1,2}, Akimichi Morita¹
¹Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan, ²USHIO Inc.

November 8, 2019, Room D

Concurrent Oral Session 4 (Tissue Regeneration/Stem Cell and Wound Healing)

10:05-11:29

Chairs: Masahiro Amano, Sei-ichiro Motegi, Jitlada Meephanan

- C04-1**
[P08-02]
10:05-10:17
Mechanistic insight into the development of pressure ulcers in zinc deficiency mice
○ Akiko Sekiguchi¹, Hideharu Nakamura³, Youichi Ogawa², Tatsuyoshi Kawamura², Takaya Makiguchi³, Satoshi Yokoo³, Osamu Ishikawa¹, Sei-ichiro Motegi¹
¹Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi, Japan, ²Department of Dermatology, Faculty of Medicine, University of Yamanashi, Chuo, Japan, ³Department of Oral and Maxillofacial Surgery, and Plastic Surgery, Gunma University Graduate School of Medicine
- C04-2**
[P08-04]
10:17-10:29
Effects of AMP-IBP5, an antimicrobial peptide derived from insulin-like growth factor-binding protein 5 on diabetic wound healing
○ Hai N Yue^{1,2}, Francois Niyonsaba^{2,3}, Yoshie Umehara², Valentin Trujillo², Ko Okumura², Shigaku Ikeda¹, Hideoki Ogawa²
¹Department of Dermatology and Allergology, Juntendo University, Tokyo, Japan, ²Atopy (Allergy) Research Center, Juntendo University, Tokyo, Japan, ³Faculty of International Liberal Arts, Juntendo University, Tokyo, Japan
- C04-3**
[P08-05]
10:29-10:41
Hair follicle stem cell niche fate during growth, pigmentation and ageing
○ Carlos Clavwl
A*Star Skin Research Institute Singapore (SRIS), Singapore
- C04-4**
[P08-06]
10:41-10:53
Preventive regulation for the development of pressure ulcers by apelin/APJ signaling
○ Sahori Yamazaki, Akiko Sekiguchi, Akihiko Uchiyama, Yuta Inoue, Chisako Fujiwara, Osamu Ishikawa, Sei-ichiro Motegi
The Department of Dermatology, University of Gunma, Gunma, Japan
- C04-5**
[P08-07]
10:53-11:05
Differential therapeutic effects between mesoderm-like and neuroepithelium-like cells of mesenchymal stem cells derived from human iPS cells
○ Mizuki Goto¹, Takumi Era², Yutaka Hatano¹
¹The Department of Dermatology, Faculty of Medicine, Oita University, Yufu, Japan, ²The Department of Cell Modulation, Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan
- C04-6**
[P08-08]
11:05-11:17
Cutaneous nerves are involved in human skin elasticity
○ Moe Tsutsumi, Kazuki Takagaki, Sanae Nomiyama, Kentaro Kajiya
Shiseido Global Innovation Center
- C04-7**
[P08-11]
11:17-11:29
Skin regeneration using "off the shelf" dermal matrices: A comparative study in mice
Iliia Banakh¹, Perdita Cheshire¹, Md. Mostafizur Rahman¹, Irena Carmichael², Heather Cleland¹, ○ Shiva Akbarzadeh¹
¹The Alfred, ²Monash University, Commercial Road, Melbourne, Victoria, Australia

Luncheon Seminar 4

"Key Points in the treatment of Allergic Disorders~PAF and Antihistamines~"

11:40-12:40

Chair: Masashi Akiyama

- LS4-1**
Pathophysiological significance of platelet-activating factor (PAF) in allergic diseases
○ Satoshi Ishii
Department of Immunology, Akita University Graduate School of Medicine
- LS4-2**
Chronic urticaria: diagnosis and treatment based on the Japanese guidelines 2018
○ Saeko Nakajima
Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan

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

Afternoon Seminar 2

"Type 2 inflammation in AD pathophysiology"

15:30-16:30

Chairs: Masayuki Amagai, Kenji Kabashima

AS2-1 Atopic dermatitis: A window into type 2 allergic inflammation

○ Frank O. Nestle

Immunology and Inflammation Therapeutic Research Area, Chief Scientific Officer North America, Sanofi US

AS2-2 Type 2 immune responses in chronic itch

○ Brian S. Kim

Division of Dermatology, Washington University School of Medicine, St. Louis, MO

Co-sponsored by Sanofi K.K.

November 9, 2019, Room A

Morning Seminar 1

"The latest research for atopic dermatitis"

8:00-9:00

Chairs: Ken Igawa, Norito Katoh

MS1-1 The roles of the AHR-OVOL1 axis in the development of atopic dermatitis

○ Gaku Tsuji
Research and Clinical Center for Yusho and Dioxin

MS1-2 The role of sensory nerve in the pathogenesis of atopic dermatitis

○ Atsushi Otsuka
The Department of Dermatology, Kyoto University, Kyoto, Japan

Co-sponsored by Sanofi K.K.

Plenary Session II

9:10-10:40

Chairs: Akimichi Morita, Masashi Akiyama, Katsuto Tamai

II-1 Pellino-1 facilitates psoriatic inflammation by activating IL-17-producing T cells

[P10-01]
9:10-9:25

○ Tae-Gyun Kim¹, Sung Hee Kim², Jeyun Park^{2,3}, Jungeun Shim⁴, Jong Hoon Kim⁵, Jongwook Oh², Soo Min Kim⁶, Seung Yong Song⁷, Heung Kyu Lee⁸, Ho Lee⁹, Min-Geol Lee^{2,3}

¹Department of Microbiology and Immunology, Department of Dermatology, Severance Hospital, Yonsei University College of Medicine, Seoul, South Korea, ²Department of Dermatology, Severance Hospital, Yonsei University College of Medicine, Seoul, Korea, ³Brain Korea 21 PLUS Project for Medical Science, Yonsei University College of Medicine, Seoul, Korea, ⁴Yonsei Genomics Center, Yonsei Biomedical Research Institute, Yonsei University College of Medicine, Seoul, Korea, ⁵Department of Dermatology, Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, Korea, ⁶Department of Dermatology, National Health Insurance Service Ilsan Hospital, Goyang, Korea, ⁷Department of Plastic Surgery, Severance Hospital, Yonsei University College of Medicine, Seoul, Korea, ⁸Graduate School of Medical Science and Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea, ⁹Graduate School of Cancer Science and Policy, National Cancer Center, Gyeonggi, Korea

II-2 Single-cell RNA-seq reveals the transcriptional landscape and heterogeneity of autoreactive B cells in pemphigus patients

[P01-01]
9:25-9:40

○ Shohei Egami^{1,2}, Takashi Watanabe³, Hisashi Nomura¹, Hayato Takahashi¹, Jun Yamagami¹, Osamu Ohara², Masayuki Amagai^{1,2}

¹The Department of Dermatology, Keio University school of Medicine, Tokyo, Japan, ²Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, Kanagawa, Japan, ³Laboratory for integrative genomics, RIKEN Center for Integrative Medical Sciences, Kanagawa, Japan

II-3 Neutrophil extracellular traps initiate and exacerbate Stevens-Johnson syndrome and toxic epidermal necrolysis

[P04-01]
9:40-9:55

○ Manao Kinoshita¹, Youichi Ogawa¹, Natsumi Hama², Inkin Ujiie³, Jun Adachi^{4,5}, Shinji Shimada¹, Yasuyuki Fujita³, Hayato Takahashi⁶, Takeshi Tomonaga^{4,5}, Riichiro Abe², Tatsuyoshi Kawamura¹

¹Department of Dermatology, Faculty of Medicine, University of Yamanashi, Japan, ²Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, ³Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, ⁴Laboratory of Proteome Research, National Institute of Biomedical Innovation, Health and Nutrition, Osaka, Japan, ⁵Laboratory of Proteomics for Drug Discovery, Center for Drug Design Research, National Institute of Biomedical Innovation, Health and Nutrition, Osaka, Japan, ⁶Department of Dermatology, Keio University School of Medicine, Tokyo, Japan

II-4 Retention of CD4⁺ resident memory T cells through colocalization with CD301b⁺ dendritic cells in a murine DTH model

[P10-02]
9:55-10:10

○ Ryota Asahina, Gyohei Egawa, Kenji Kabashima

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

II-5 Single cell RNA- and ATAC-seq analyses in a murine model of dystrophic epidermolysis bullosa

[P07-01]
10:10-10:25

○ Takashi Shimbo¹, Sho Yamazaki^{1,2}, Tomomi Kitayama^{1,2}, Yuya Ouchi^{1,2}, Ryoma Yamamoto^{1,2}, Eiichi Takaki^{1,2}, Leena Bruckner-Tuderman³, Jouni Uitto⁴, Yasufumi Kaneda⁵, Katsuto Tamai¹

¹Department of Stem Cell Therapy Science, Graduate School of Medicine, Osaka University, Osaka, Japan, ²StemRIM Co., Ltd., ³Department of Dermatology, Faculty of Medicine, University of Freiburg, ⁴Department of Dermatology and Cutaneous Biology, Sidney Kimmel Medical College, Thomas Jefferson University, ⁵Division of Gene Therapy Science, Graduate School of Medicine, Osaka University

II-6 Sphingosine 1-phosphate (S1P) and its receptor 2 (S1PR2) are regulators of the epidermal barrier

[P05-01]
10:25-10:40

○ Satomi Igawa^{1,2}, Zhenping Wang², Yu-Ling Chang², Chia-Chi Wu², Akemi Ishida-Yamamoto¹, Anna Di_Nardo¹

¹The Department of Dermatology, Asahikawa Medical University, Asahikawa, Japan, ²The Department of Dermatology, School of Medicine, University of California, San Diego, La Jolla, USA

Tanioku Kihei Memorial Lecture

10:50-11:20

Chair: Daisuke Sawamura

TML **Using immunobiology to track and treat Merkel cell carcinoma:
A polyomavirus-driven, often-lethal skin cancer**

○ Paul Nghiem^{1,2,3}

¹University of Washington Dermatology, ²Fred Hutchinson Cancer Research Center, ³Pathology and Oral Health Sciences, Skin Oncology, Seattle Cancer Care Alliance

JSID Award Lecture

11:20-11:50

Chair and Presenter: Akimichi Morita

JAL **Lipids, cell subsets, and cell dynamics in the skin**

○ Tetsuya Honda

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

JSID Kisaragi Award

11:50-12:00

Chair and Presenter: Akimichi Morita

JKA **2019**
PD-L1 on mast cells negatively regulates effector CD8+ T-cell activation in the skin

○ Tomoko Hirano^{1,2}

¹Department of Dermatology, Graduate School of Medicine, Kyoto University, ²Department of Immunology and Genomic Medicine, Graduate School of Medicine, Kyoto University

2018

○ Hisashi Nomura

Department of Dermatology, Keio University School of Medicine

Luncheon Seminar 5

"Developing in Cancer Immunotherapy for Melanoma"

12:10-13:10

Chair: Takashi Inozume

LS5-1 **New insights of cancer immunotherapy**

○ Atsushi Otsuka

Department of Dermatology, Kyoto University, Japan

LS5-2 **Immunotherapy for melanoma: how to predict its efficacy and immune-related adverse events**

○ Taku Fujimura

Department of Dermatology, Tohoku University, Graduate School of Medicine

Co-sponsored by ONO PHARMACEUTICAL CO., LTD./Bristol-Myers Squibb K.K.

The 19th & 20th Galderma-Maruho Research Award Presentations by award winners and award ceremony

13:20-14:50

Chairs: Yoshiki Tokura, Masayuki Amagai, Shinichi Sato

GMA1 **The transcription factor EPAS1 links DOCK8 deficiency to atopic skin inflammation via IL-31 induction**

○ Kazuhiko Yamamura^{1,2}, Takehito Uruno^{1,3}, Akira Shiraishi¹, Yoshihiko Tanaka⁴, Miho Ushijima¹, Takeshi Nakahara², Mayuki Watanabe¹, Makiko Kido-Nakahara², Masataka Furue², Yoshinori Fukui^{1,3}

¹Division of Immunogenetics, Department of Immunobiology and Neuroscience, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan, ²Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan,

³Research Centre for Advanced Immunology, Kyushu University, Fukuoka, Japan, ⁴Department of Functional Bioscience, Section of Infection Biology, Fukuoka Dental College, Fukuoka, Japan

- GMA2** ***Staphylococcus aureus* virulent PSM α peptides induce keratinocytes alarmin release to orchestrate IL-17-dependent skin inflammation**
 ○ Seitaro Nakagawa^{1,2}, Yuumi Matsuoka¹, Masanori Matsumoto², Yuki Katayama¹, Rena Oguma¹, Seiichiro Wakabayashi¹, Gabriel Nunez², Hiroyuki Matsue¹
¹Department of Dermatology, Chiba University Graduate School of Medicine, Japan, ²Department of Pathology, University of Michigan Medical School, USA
- GMA3** **Epithelial Fli1 deficiency drives systemic autoimmunity and fibrosis: Possible roles in scleroderma**
 ○ Takehiro Takahashi, Yoshihide Asano, Shinichi Sato
 Department of Dermatology, The University of Tokyo Graduate School of Medicine, Japan
- GMA4** **Pityriasis rubra pilaris type V as an autoinflammatory keratinization disease by *CARD14* mutations**
 ○ Takuya Takeichi¹, Kazumitsu Sugiura², Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, ²Department of Dermatology, Fujita Health University, Toyoake, Japan
- GMA5** **Aberrant CD137 ligand expression induced by GATA6 overexpression promotes tumor progression and migration in cutaneous T-cell lymphoma**
 ○ Hiroaki Kamijo¹, Tomomitsu Miyagaki¹, Naomi Takahashi^{1,2}, Rina Nakajima¹, Tomonori Oka¹, Hiraku Suga¹, Makoto Sugaya^{1,2}, Shinichi Sato¹
¹Department of Dermatology, The University of Tokyo Graduate School of Medicine, Tokyo, Japan, ²Department of Dermatology, International University of Health and Welfare, Chiba, Japan
- GMA6** **Chromosomal inversions as a hidden disease-modifying factor for somatic recombination phenotypes.**
 ○ Toshifumi Nomura¹, Shotaro Suzuki¹, Toshinari Miyauchi¹, Masae Takeda¹, Satoru Shinkuma¹, Yasuyuki Fujita¹, Wataru Nishie¹, Masashi Akiyama², Hiroshi Shimizu¹
¹Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, ²Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan
- GMA7** **Inhibition of IL-17-committed T cells in a murine psoriasis model by a vitamin D analogue**
 ○ Nobuhiro Kusuba¹, Akihiko Kitoh¹, Teruki Dainichi¹, Tetsuya Honda¹, Atsushi Otsuka¹, Gyohei Egawa¹, Saeko Nakajima¹, Yoshiki Miyachi², Kenji Kabashima¹
¹Department of Dermatology, Kyoto University Graduate School of Medicine, ²Shiga Medical Center for Adults
- GMA8** **Evaluation of mapping biopsies for extramammary Paget disease: A retrospective study**
 ○ Yumiko Kaku-Ito¹, Takamichi Ito¹, Gaku Tsuji¹, Takeshi Nakahara¹, Akihito Hagihara², Masataka Furue¹, Hiroshi Uchi¹
¹Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan, ²Department of Health Services Management and Policy, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan

Co-sponsored by Maruho Co.,Ltd./Galderma K.K.

Concurrent Oral Session 5 (Autoimmunity/Inflammation-II)

15:00-16:24

Chairs: Wataru Nishie, Yumi Aoyama, Daisuke Tsuruta

- C05-1** **A novel BP180 (LABD97) ELISA as a valuable tool for monitoring of mucous membrane pemphigoid**
[P01-09]
 15:00-15:12
 ○ Norito Ishii^{1,2}, Kwesi Teye^{1,2}, Hiroshi Koga^{1,2}, Toshiro Abe^{1,2}, Chika Ohata^{1,2}, Takekuni Nakama^{1,2}
¹Department of Dermatology, Kurume University School of Medicine, Kurume, Fukuoka, Japan, ²Kurume University Institute of Cutaneous Cell Biology, Kurume, Fukuoka, Japan
- C05-2** **Autoimmune reaction targeted for the C-terminal domain of BP230 induces experimental bullous pemphigoid in mice**
[P01-10]
 15:12-15:24
 ○ Yasushi Matsuzaki, Eiko Makita, Tomohisa Fukui, Hajime Nakano, Daisuke Sawamura
 Department of Dermatology, Hirosaki University School of Medicine, Aomori, Japan
- C05-3** **Ectopic lymphoid structures harbor desmoglein-specific B cells in the chronic skin lesions of patients with pemphigus**
[P01-11]
 15:24-15:36
 ○ Jong Hoon Kim, Ji Young Choi, Dawoon Han, Mi Yeon Cho, Sang Eun Lee, Soo-Chan Kim
 The Department of Dermatology, Yonsei University College of Medicine, Seoul, Korea
- C05-4** **Analysis of the novel hygiene hypothesis model using spontaneous atopic dermatitis mice**
[P01-13]
 15:36-15:48
 ○ Yukihiko Kato¹, Yosuke Amagai², Ryo Muko², Yoshihiro Umehayashi¹, Akane Tanaka², Hiroshi Matsuda²
¹The Department of Dermatology, Tokyo Medical University Hachioji Medical Center, Tokyo, Japan, ²Division of Animal life science, Institute of agriculture, Tokyo University of agriculture and technology

- C05-5**
[P01-18]
15:48-16:00
- Isolation of native keratinocyte-derived bullous pemphigoid autoantigen by CRISPR/Cas9-mediated tagging of BP180**
- Wataru Nishie, Shoko Mai, Yosuke Mai, Hiroshi Shimizu
Department of Dermatology, Faculty of Medicine and Graduate School Hokkaido University, Sapporo, Japan
- C05-6**
[P01-22]
16:00-16:12
- Efficacy and safety of topical diacerein for treatment of bullous pemphigoid in an open-label randomized phase 2 trial**
- Jing-Yi Lee¹, Yu-Hsiang Liao¹, Fong-Ling Chen¹, Yi-Shuan Sheen², Yung-Tsu Cho², Shang-Hong Lin³, Ji-Chen Ho³, Sheau-Chiou Chao⁴, Chao-Chun Yang⁴, Chao-Kai Hsu⁴, I-Yin Lin¹, Chih-Kuang Chen¹, Chih-Hung Lee⁵, Chia-Yu Chu²
- ¹Twi Biotechnology, Inc., ²Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, Taiwan, ³Department of Dermatology, Chang Gung Memorial Hospital Kaohsiung, Taiwan, ⁴Department of Dermatology, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, Taiwan
- C05-7**
[P01-24]
16:12-16:24
- Histone acetylation regulates SREBP1 transcription and sebocyte differentiation**
- Hye Sun Shin^{1,2,3}, Dong Hun Lee^{1,2,3}, Zouboulis CC⁴, Hyun Sun Park⁵, Min-Kyoung Kim^{1,2,3}, Jin Ho Chung^{1,2,3,6}
- ¹Department of Dermatology, Seoul National University College of Medicine, Seoul, Republic of Korea, ²Laboratory of Cutaneous Aging Research, Biomedical Research Institute, Seoul National University Hospital, Seoul, Republic of Korea, ³Institute of Human-Environment Interface Biology, Seoul National University, Seoul, Republic of Korea, ⁴Departments of Dermatology, Venereology, Allergology and Immunology, Dessau Medical Center, Brandenburg Medical School Theodor Fontane, Dessau, Germany, ⁵Department of Dermatology, Seoul Metropolitan Government-Seoul National University, Boramae Medical Center, Seoul, Republic of Korea, ⁶Institute on Aging, Seoul National University, Seoul, Republic of Korea

November 9, 2019, Room A (Social Gathering)

Award Ceremony

19:30-21:00

Chair: Akimichi Morita

SID/JSID Young Fellow Collegiality Awards

Presenter: Richard Gallo

Tatsuya Dokoshi, University of California

ESDR/JSID Young Fellow Collegiality Awards

Presenter: Christopher Griffiths

Zsolt Dajnoki, University of Debrecen

ASDR/JSID Exchange Program

Presenter: Kiarash Khosrotehrani

Sheena M Daignault, University of Queensland

TSID/JSID Young Fellow Collegiality Awards

Presenter: Cheng-Che E. Lan

Hsien-Yi Chiu, National Taiwan University

Wei-Tai Yu, Kaohsiung Medical University

KSID/JSID Young Fellow Collegiality Awards

Presenter: Min-Geol Lee

Jong Hoon Kim, Gangnam Severance Hospital

Si-Hyung Lee, Seoul National University Hospital

November 9, 2019, Room B

Morning Seminar 2

"How to Use Biologics in PPP"

8:00-9:00

Chair: Shigetoshi Sano

MS2 Biologics use for refractory cases of palmoplantar pustulosis and pustulotic arthro-osteitis

○ Toshiyuki Yamamoto
Department of Dermatology, Fukushima Medical University

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

Luncheon Seminar 6

"Skin circadian rhythm and phenotype assessed through metabolomics analysis of Asian skin"

12:10-13:10

Chair: Setsuya Aiba

LS6-1 Metabolomics: unlocking the blueprint for personalized treatment

○ Kirk Beebe, Geoffrey K. Feld
Discovery & Translational Sciences, Metabolon, Inc. Morrisville, NC, USA

LS6-2 Temporal Metabolomics analysis in Asian women comparing young to mature skin

K Corallo¹, E Pelle¹, GK Feld², K Beebe², F Teng², A Evans², ○ Nadine Pernodet¹
¹The Estée Lauder Companies, ²Metabolon, Inc., Morrisville, NC

Co-sponsored by The Estée Lauder Companies Inc.

Concurrent Oral Session 6

(Epidermal Structure and Function)

15:00-16:24

Chairs: Akiharu Kubo, Mayumi Komine, Cheng-Che E. Lan

C06-1 The *Sbsn*^{-/-} mouse is a possible model of intrinsic atopic dermatitis

[P05-03]
15:00-15:12
○ Shinsuke Nakazawa¹, Takatoshi Shimauchi¹, Atsuko Funakoshi¹, Masahiro Aoshima¹, Pawit Phadungsaksawasdi¹, Jun-ichi Sakabe¹, Sanki Asakawa², Noriyasu Hirasawa², Taisuke Ito¹, Yoshiki Tokura¹

¹The Department of Dermatology, Hamamatsu University School of Medicine, Shizuoka, Japan, ²Laboratory of Pharmacotherapy of Life-style Related Diseases, Graduate School of Pharmaceutical Sciences, Tohoku University, Sendai, Japan

C06-2 Ceramide reduction in stratum corneum of Neu-Laxova syndrome caused by phosphoglycerate dehydrogenase deficiency

[P05-04]
15:12-15:24
○ Takuya Takeichi¹, Akane Kawamoto², Eiko Nagamoto³, Chiaki Murase¹, Eri Shimizu⁴, Yuichi Kageshita³, Satoshi Fukushima³, Michihiro Kono¹, Junko Ishikawa², Hironobu Ihn¹, Masashi Akiyama¹

¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, ²Biological Science Research Laboratories, Kao Corporation, Haga, Tochigi, Japan, ³Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan, ⁴Analytical Science Research Laboratories, Kao Corporation, Haga, Tochigi, Japan

C06-3 Three-dimensional electron microscopy imaging revealed extended tight junction structures across multiple layers of the stratum granulosum

[P05-06]
15:24-15:36
○ Yusuke Nagasawa¹, Satomi Igawa¹, Haruyo Yamanishi², Satoshi Kusumi³, Tsuyoshi Watanabe⁴, Daisuke Koga⁴, Akemi Ishida-Yamamoto¹

¹The Department of Dermatology, Asahikawa Medical University, Hokkaido, Japan, ²Shiseido Global Innovation Center, Yokohama, Japan, ³Division of Morphological Sciences, Kagoshima University Graduate School of Medicine and Dental Sciences, Kagoshima, Japan, ⁴Department of Microscopic Anatomy and Cell Biology, Asahikawa Medical University, Asahikawa, Japan

C06-4 Enhanced lamellar granule biogenesis in the absence of loricin: a crosstalk between the brick and mortar

[P05-07]
15:36-15:48
○ Yosuke Ishitsuka¹, Tatsuya Ogawa¹, Dennis Roop², Akemi Ishida-Yamamoto³, Manabu Fujimoto⁴

¹Department of Dermatology, Faculty of Medicine, University of Tsukuba, ²Department of Dermatology and Charles C. Gates Center for Regenerative Medicine and Stem Cell Biology, ³Department of Dermatology, Asahikawa Medical College, ⁴Department of Dermatology, Osaka University

C06-5
[P05-08]
15:48-16:00

Interferon- γ downregulated the tight junction formation in a human skin equivalent model

○ Yukiko Mizutani, Nao Takagi, Shintarou Inoue
Cosmetic Health Science, Gifu Pharmaceutical University

C06-6
[P05-09]
16:00-16:12

Hydrogen sulfide may modulate the itch of human atopic dermatitis through altered expression of nerve elongation factors

○ Catharina Sagita Moniaga¹, Mitsutoshi Tominaga^{1,2}, Yayoi Kamata^{1,2}, Hideoki Ogawa¹, Kenji Takamori^{1,2,3}

¹Institute for Environmental and Gender-Specific Medicine, Graduate School of Medicine, Juntendo University, ²Anti-aging skin research laboratory, Juntendo University Graduate School of Medicine, ³Department of Dermatology, Juntendo University Urayasu Hospital

C06-7
[P05-10]
16:12-16:24

Scratching counteracts IL-13 signaling by upregulating the decoy receptor IL-13R α 2 in keratinocytes

○ Dugarmaa Ulzii, Makiko Kido-Nakahara, Takeshi Nakahara, Gaku Tsuji, Kazuhisa Furue, Akiko Hashimo-Hachiya, Masutaka Furue
Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan

State-of-the-Art Symposium

16:35-18:35

Chairs: Michihiro Hide, Hajime Nakano

SoA1

Development of HMGB1 peptide as a stem cell regeneration-inducing medicine for recessive dystrophic epidermolysis bullosa

○ Katsuto Tamai
Department of Stem Cell Therapy Science, Osaka University Graduate School of Medicine, Suita, Japan

SoA2

Frontal fibrosing alopecia: new genetic discoveries

○ John A. McGrath, Christos Tziotziou
St John's Institute of Dermatology, King's College London, UK

SoA3

Inhibition of melanoma cell migratory potential using cell-penetrating peptides mimicking YAP/TAZ domains

Laurence Mery¹, Joséphine Carpentier¹, Cristèle Gilbert¹, Véronique Marsaud¹, Christophe Piesse², ○ Alain Mauviel¹
¹Team "TGF- β and Oncogenesis". Institut Curie, Orsay, France, ²Institut de Biologie Paris-Seine (IBPS), Sorbonne Université, Paris, France

SoA4

Dissecting UV-induced DNA damage responses to inhibit skin cancers

○ Masaoki Kawasumi
Division of Dermatology, Department of Medicine, University of Washington, Seattle, WA

November 9, 2019, Room C

Luncheon Seminar 7

"Psoriasis and psoriatic arthritis: Advance in Immunology and Therapy"

12:10-13:10

Chairs: Yayoi Tada, Mariko Seishima

LS7-1 The impact of IL-17 on Psoriatic arthritis and systemic inflammation

○ Emi Nishida

Department of Geriatric and Environmental Dermatology, Nagoya City University

LS7-2 The importance of IL-17A in the pathogenesis of psoriasis and the cardiovascular risk of the patients

○ Shin Morizane

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

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

Concurrent Oral Session 7

(Photobiology, Pigmentation and Melanoma)

15:00-16:24

Chairs: Teruhiko Makino, Taku Fujimura, John Common

C07-1 A diagnostic toolkit to detect and quantify senescent cells in age-related UV-induced skin pathologies

[P12-01]
15:00-15:12

○ Audrey Wang¹, Satoshi Nakamizo^{2,3}, Yoshihiro Ishida², Genevieve Klassen⁴, Priscilla Chong⁴, John Lim⁵, Graham Wright⁶, Kenji Kabashima^{2,3}, Oliver Dreesen¹

¹Skin Research Institute Singapore, ²A*STAR, ³Kyoto University Graduate School of Medicine, Japan, ⁴Singapore Immunology Network (SIgN), ⁵School of Biological Sciences, Nanyang Technological University, ⁶A*STAR Microscopy Platform

C07-2 Effect of 308 nm excimer light on skin microbiota in patients with atopic dermatitis

[P12-03]
15:12-15:24

○ Yuko Kurosaki^{1,2}, Munehiro Tsurumachi^{1,2}, Yayoi Kamata¹, Mitsutoshi Tominaga¹, Yasushi Suga², Kenji Takamori^{1,2}

¹Institute for Environmental and Gender Specific Medicine, Chiba, Japan, ²Department of Dermatology, Juntendo University Urayasu Hospital

C07-3 Proteomic analysis reveals anti-fibrotic effects of blue light photobiomodulation on fibroblasts

[P12-04]
15:24-15:36

○ Lo-Yu Chang¹, Sabrina Mai-Yi Fan², Yen-Chen Liao³, Yu-Ju Chen³, Sung-Jan Lin^{2,4}

¹School of Medicine, College of Medicine, National Taiwan University, Taipei, Taiwan, ²Department of Biomedical Engineering, College of Medicine and College of Engineering, National Taiwan University, Taipei, Taiwan, ³Institute of Chemistry, Academia Sinica, Taipei, Taiwan, ⁴Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, Taiwan

C07-4 Bortezomib induces immunogenic cell death in melanoma and enhances immune response in vivo

[P13-02]
15:36-15:48

○ Sheena_M Daignault¹, Robert_J Ju¹, Loredana Spoerri¹, Samantha_J Stehens¹, David_S Hill^{2,3}, Riccardo Dolcetti¹, Nikolas_K Haass^{2,4}

¹The University of Queensland Diamantina Institute, University of Queensland, Woolloongabba, Australia, ²The Centenary Institute, Newtown, New South Wales, Australia, ³Dermatological Sciences, Newcastle University, Newcastle upon Tyne, UK, ⁴Discipline of Dermatology, University of Sydney, Camperdown, New South Wales, Australia

C07-5 Sensory nerves are involved in the development of focal alopecia and poliosis in mice

[P13-03]
15:48-16:00

○ Zachary Chow, Gyohei Egawa, Kenji Kabashima

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

C07-6 Establishment of a mouse model for post-inflammatory pigmentation (PIH)

[P13-05]
16:00-16:12

○ Shoko Nakano¹, Yuko Abe¹, Yutaka Hozumi¹, Tamio Suzuki¹, Kimiko Nakajima², Shigetoshi Sano², Osamu Yamamoto³

¹Department of Dermatology, Yamagata University Faculty of Medicine, Yamagata, Japan, ²Department of Dermatology, Kochi Medical School, Kochi University, Nankoku, Japan, ³Division of Dermatology, Department of Medicine of Sensory and Motor Organs, Faculty of Medicine, Tottori University, Yonago, Japan

C07-7 Restoration of cell surface PD-1 expression in intracellular PD-1 positive T cell subset in nivolumab-treated advanced melanoma patients

[P13-10]
16:12-16:24

○ Ryo Takahashi¹, Yohei Sato², Momoko Kimishima², Manabu Ohyama^{1,2}

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

Symposium on Basic Medical Sciences

16:35-18:35

Chairs: Sayuri Yamazaki, Hironobu Fujiwara

- BMS1** **A new model for coordinated hair follicle morphogenesis and stem cell induction**
○ Hironobu Fujiwara
RIKEN Center for Biosystems Dynamics Research, Kobe, Japan
- BMS2** **Single cell genomics to elucidate Non-coding regulatory elements**
○ Jay W. Shin
Laboratory for Advanced Genomics Circuit, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan
- BMS3** **Immune homeostasis and regulation mediated by regulatory T cells with a special feature**
○ Sayuri Yamazaki
Department of Dermatology, Nagoya City University Graduate School of Medical Sciences
- BMS4** **Statistical genetics and genomics of skin diseases**
○ Yukinori Okada
Department of Statistical Genetics, Osaka University Graduate School of Medicine
- BMS5** **Stem cell competition underlies skin homeostasis and aging**
Nan Liu¹, Hiroyuki Matsumura¹, Tomoki Kato¹, Shizuko Ichinose², Aki Takada¹, Takeshi Namiki³, Kyosuke Asakawa¹,
Hironobu Morinaga¹, Yasuaki Mohri¹, Daisuke Nanba¹, ○ Emi K. Nishimura¹
¹Department of Stem Cell Biology, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan,
²Research Center for Medical and Dental Sciences, Tokyo Medical and Dental University, Tokyo, Japan,
³Department of Dermatology, Tokyo Medical and Dental University Graduate School and Faculty of Medicine, Tokyo, Japan

November 9, 2019, Room D

Luncheon Seminar 8 "The Front Line of Psoriasis treatment"

12:10-13:10

Chair: Keiichi Yamanaka

- LS8-1 Targeting IL-23 for treatment of psoriasis**
○ Eiko Toichi
Dermatology, National Hospital Organization Kyoto Medical Center, Kyoto, Japan
- LS8-2 New insights into psoriasis pathogenesis and the effect of biologics**
○ Mayumi Komine
Jichi Medical University

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

Concurrent Oral Session 8 (Human Clinical Research and Therapeutics)

15:00-16:24

Chairs: Yukie Yamaguchi, Yasushi Suga, Doanh Le Huu

- C08-1 [P04-03] CD8+CD103+ TRM cells are decreased in lesional skin, but not substantially in non-lesional skin of psoriasis after Secukinumab treatment**
15:00-15:12
○ Toshiharu Fujiyama¹, Kazuo Kurihara¹, Takatsune Umayahara¹, Hiroaki Yagi², Hideo Hashizume³, Taisuke Ito¹, Yoshiki Tokura¹
¹Department of Dermatology, Hamamatsu University School of Medicine, ²Department of Dermatology, Shizuoka General Hospital, ³Department of Dermatology, Iwata City Hospital
- C08-2 [P04-04] The automated pre-processing imaging system to realize large-scale skin image analysis with machine learning**
15:12-15:24
○ Koichi Ashizaki^{1,2}, Hiroshi Kawasaki^{1,2}, Takaho Endo¹, Ayano Fukushima^{1,2}, Emi Numazaki², Takeshi Ouchi², Masataka Saito², Tatsuhiko Tsunoda¹, Masayuki Amagai²
¹Medical Sciences Innovation Hub Program, RIKEN, Yokohama, Japan, ²Department of Dermatology, Keio University School of Medicine, Tokyo, Japan
- C08-3 [P04-05] Bexarotene reduces production of tumor-associated macrophages related chemokines in cutaneous T-cell lymphoma**
15:24-15:36
○ Kayo Tanita, Taku Fujimura, Yota Sato, Chunbing Lyu, Yumi Kambayashi, Setsuya Aiba
Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan
- C08-4 [P04-06] The Merkel virus antibody test to detect Merkel cell carcinoma recurrence: a validation study in 774 patients**
15:36-15:48
○ Tomoko Akaike¹, Kristina Lachance¹, Aubriana_M McEvoy¹, Kelly Paulson², Paul Nghiem¹
¹Department of Medicine, Division of Dermatology, University of Washington, Seattle, WA, USA, ²Fred Hutchinson Cancer Research Center, Seattle, WA, USA
- C08-5 [P04-07] Population pharmacokinetics and exposure-response analysis of BMS-986165, an oral, selective TYK2 inhibitor, in Japanese patients**
15:48-16:00
○ Tomomi Shiozaki¹, Yoshimasa Ishida¹, Kuretake Soejima¹, Anjaneya Chimalakonda², John Throup², Subhashis Banerjee², Ihab Girgis²
¹Bristol-Myers Squibb Japan, ²Bristol-Myers Squibb, Princeton, New Jersey, USA
- C08-6 [P04-09] The relationship between the basophil reactivity via FcεRI and clinical disease activity or features in chronic spontaneous urticaria**
16:00-16:12
○ Yoshiko Oda, Atsushi Fukunaga, Ken Washio, Shinya Imamura, Mayumi Hatakeyama, Kanako Ogura, Chikako Nishigori
Department of Dermatology, Kobe University Graduate School of Medicine, Japan
- C08-7 [P04-10] The efficacy and safety of the low-dose spironolactone in adult female acne: a randomized, double-blind, placebo-controlled trial**
16:12-16:24
○ Chanat Kumtornrut^{1,2}, Mattana Patiyasikunt², Bussabong Chancheewa²
¹The Division of Dermatology, Department of Medicine, King Chulalongkorn Memorial Hospital, The Thai Red Cross Society, ²The Division of Dermatology, Department of Medicine, Faculty of Medicine, Chulalongkorn University

Afternoon Seminar 3

"Novel disease mechanisms elucidated by basic/translational research in skin diseases"

16:35-17:25

Chair: Tamio Suzuki

AS3-1 Mitochondrial metabolism in psoriatic T cells

○ Hanako Koguchi-Yoshioka^{1,2}

¹Department of Dermatology, Course of Integrated Medicine, Graduate School of Medicine, Osaka University, Osaka, Japan,

²Department of Dermatology, University of Tsukuba, Ibaraki, Japan

AS3-2 Proteasomopathies with autoinflammation

○ Nobuo Kanazawa

Department of Dermatology, Wakayama Medical University

Co-sponsored by Celgene K.K. Medical Affairs

Evening Seminar

"Skin Immune System from Keratinocytes: Focusing on Psoriasis and Atopic Dermatitis"

17:35-18:35

Chairs: Kenshi Yamasaki, Tomotaka Mabuchi

ES-1 Alarmins: Keratinocyte-derived IL-33, IL-17C, and CCL20

○ Yasutomo Imai

Department of Dermatology, Hyogo College of Medicine, Hyogo, Japan

ES-2 The role of Interleukin-36 in psoriasis

○ Kazumitsu Sugiura

Department of Dermatology, Fujita Health University School of Medicine, Toyoake, Japan

Co-sponsored by Kyowa Kirin Co.,Ltd.

November 10, 2019, Room A

Plenary Session III

9:15-10:45

Chairs: Masayuki Amagai, Kenji Kabashima, Ohsang Kwon

- III-1**
[P01-04]
9:15-9:30
Innate lymphoid cells type 1 in the pathogenesis of Alopecia Areata
Rima Laufer¹, Aviad Keren¹, Ralf Paus^{2,3}, ◯ Amos Gilhar¹
¹Skin Research Laboratory, Faculty of Medicine, Technion, Haifa, Israel, ²Dermatology, University of Miami, Miami, FL, USA, ³Dermatology, University of Manchester, Manchester, UK
- III-2**
[P05-02]
9:30-9:45
Stepwise maturation of tight junctions on keratinocytes during cell translocation across the epidermal tight junction barrier
◯ Mariko Yokouchi^{1,2}, Masayuki Amagai^{1,3}, Akiharu Kubo¹
¹Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, ²Department of Dermatology, Nerima general hospital, Tokyo, Japan, ³Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan
- III-3**
[P08-01]
9:45-10:00
FoxO3a plays roles in the wound healing by regulating mitochondrial dynamics
◯ Mariko Moriyama, Hiroki Kiriyama, Takao Hayakawa, Hiroyuki Moriyama
Pharmaceutical Research and Technology Institute, Kindai University, Osaka, Japan
- III-4**
[P11-01]
10:00-10:15
Epidermal IκBζ controls the induction of psoriasiform dermatitis and susceptibility against bacterial infection
◯ Hitoshi Terui, Naokazu Hatchome, Mayuko Onodera, Kenshi Yamasaki, Setsuya Aiba
Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan
- III-5**
[P03-01]
10:15-10:30
A novel dermal hyaluronidase (Cemip) controls reactive adipogenesis and innate immune defense against S. aureus infection
◯ Tatsuya Dokoshi, Richard Gallo
The Department of Dermatology, University of California San Diego, California, USA
- III-6**
[P12-02]
10:30-10:45
Caffeine reduces UV-induced mutations of cancer-relevant genes as revealed by Duplex Sequencing
◯ Daiki Rokunohe^{1,2}, Kajan Ratnakumar¹, Brendan F. Kohn³, Kaitlyn Loubet-Senear³, Jiang-Cheng Shen³, Lawrence A. Loeb³, Paul Nghiem¹, Masaaki Kawasumi¹
¹Dermatology, University of Washington, ²Dermatology, Hirosaki University Graduate School of Medicine, ³Pathology, University of Washington

Concurrent Oral Session 9

(Autoimmunity/Inflammation-III, Cell Adhesion/Matrix/Vascular Biology)

11:00-12:24

Chairs: Hideyuki Ujiie, Hideki Fujita, Takashi Matsushita

- C09-1**
[P01-05]
11:00-11:12
Monocytes/macrophages may contribute to the pathogenic process of systemic sclerosis via downregulation of Interferon regulatory factor 8
◯ Yasushi Ototake¹, Yukie Yamaguchi¹, Miho Asami¹, Noriko Komitsu¹, Tomoya Watanabe¹, Daisuke Kurotaki², Tomohiko Tamura², Michiko Aihara¹
¹The Department of Environmental Immuno-Dermatology, Yokohama City University, Yokohama, Japan, ²The Department of Immunology, Yokohama City University, Yokohama, Japan
- C09-2**
[P01-07]
11:12-11:24
IL-17 plays an important role in fibrosis through IL-17 receptor expressed on fibroblasts by IL-21 stimulation in systemic sclerosis
◯ Maiko Fukayama¹, Ayumi Yoshizaki¹, Ai Kuzumi¹, Satoshi Ebata¹, Takemichi Fukasawa¹, Masashi Fukayama², Shinichi Sato¹
¹The Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo, Japan, ²The Department of Human Pathology, University of Tokyo Graduate School of Medicine, Tokyo, Japan
- C09-3**
[P01-14]
11:24-11:36
Monocyte-derived dendritic cells mediate autoimmunity in murine model of systemic lupus erythematosus
◯ Fumi Miyagawa, Hideo Asada
Department of Dermatology, Nara Medical University, Nara, Japan
- C09-4**
[P01-23]
11:36-11:48
Dectin-2-induced CCL2 production in cardiac macrophages ignites vascular inflammation
◯ Chie Miyabe^{1,2}, Yoshishige Miyabe², Laura Moreno², Jeffrey Lian², Rod Rahimi², Noriko Miura³, Naohito Ohno³, Yoichiro Iwakura⁴, Tamihiko Kawakami¹, Andrew Luster²
¹Division of Dermatology, Tohoku Medical and Pharmaceutical University, Sendai, Japan, ²Center for Immunology and Inflammatory Diseases, Division of Rheumatology, Allergy and Immunology, Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts, USA, ³Tokyo University of Pharmacy and Life Science, Tokyo, Japan, ⁴Center for Animal Disease Models, Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, Japan

- C09-5**
[P03-02]
11:48-12:00
- COA-CI prevented TGF- β 1-induced CTGF expression in dermal fibroblasts, and it attenuated skin fibrosis in murine systemic sclerosis**
- Sakiko Karita², Kozo Nakai¹, Junsuke Igarashi³, Ikuko Tsukamoto⁴, Katsuya Hirano⁵, Yasuo Kubota¹
- ¹Department of Dermatology, Kagawa University, Kagawa, Japan, ²School of Medicine, Kagawa University, Kagawa, Japan, ³Department of Clinical Engineering, Morinomiya University of Medical Sciences, Osaka, Japan, ⁴Department of Pharmaco-Bio-Informatics, Kagawa University, Kagawa, Japan, ⁵Department of Cardiovascular Physiology, Kagawa University, Kagawa
-
- C09-6**
[P03-03]
12:00-12:12
- Inhibitory effect of botulinum toxin B on bleomycin-induced skin fibrosis in mice: Possible regulation of oxidative stress**
- Hritu Baral, Akiko Sekiguchi, Yuta Inoue, Syahla N. Amalia, Sahori Yamazaki, Chisako Fujiwara, Akihiko Uchiyama, Sachiko Ogino, Yoko Yokoyama, Ryoko Torii, Mari Hosoi, Osamu Ishikawa, Sei-ichiro Motegi
- Department of Dermatology, Gunma University, Maebashi, Japan
-
- C09-7**
[P03-04]
12:12-12:24
- Keratinocyte-fibroblast interactions mediated by transforming growth factor-beta signaling in recessive dystrophic epidermolysis bullosa**
- Eijiro Akasaka, Leena Bruckner-Tuderman, Alexander Nyström
- Department of Dermatology, Medical Center - University of Freiburg, Germany

November 10, 2019, Room B

Morning Seminar 3

"Effect of photon density on UV-induced skin carcinogenesis and aging: Lessons learned from Vitiligo phototherapy"

8:00-9:00

Chair: Akimichi Morita

MS3

Effect of photon density on UV-induced skin carcinogenesis and aging: Lessons learned from Vitiligo phototherapy

○ Cheng-Che E. Lan

Department of Dermatology, Kaohsiung Medical University Hospital and College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan

Co-sponsored by USHIO INC.

Concurrent Oral Session 10

(Genetic Disease/Gene Regulation and Gene Therapy, Tissue Regeneration/Stem Cell and Wound Healing)

11:00-12:24

Chairs: Akemi Yamamoto, Kenzo Takahashi, Takuro Kanekura

C10-1
[P07-02]
11:00-11:12

Clonal expansion of second-hit cells in *MVD* c.746C>T mutant heterozygotes are the major cause of porokeratosis in Japan

○ Akiharu Kubo¹, Takashi Sasaki², Hisato Suzuki³, Aiko Shiohama¹, Satomi Aoki¹, Tomoko Kawai⁴, Kazuhiko Nakabayashi⁴, Kenichiro Hata⁴, Kenjiro Kosaki³, Masayuki Amagai¹

¹Department of Dermatology, Keio University, Tokyo, ²Center for Supercentenarian Medical Research, Keio University, Tokyo, ³Center for Medical Genetics, Keio University, Tokyo, ⁴National Center for Child Health and Development, Tokyo

C10-2
[P07-03]
11:12-11:24

Somatic recombination underlies frequent revertant mosaicism in lorincrin keratoderma

○ Toshifumi Nomura¹, Shotaro Suzuki¹, Toshinari Miyauchi¹, Masae Takeda¹, Yasuyuki Fujita¹, Wataru Nishie¹, Masashi Akiyama², Akemi Ishida-Yamamoto³, Hiroshi Shimizu¹

¹Department of Dermatology, Faculty of Medicine and Graduate School of Medicine Hokkaido University, Sapporo, Japan, ²Department of Dermatology, Nagoya University Graduate School of Medicine, ³Department of Dermatology, Asahikawa Medical University

C10-3
[P07-04]
11:24-11:36

Permanent alteration of *Abcc6* with in vivo CRISPR-Cas9 genome editing

○ Dalong Zhi, Erle Dang, Gang Wang

Department of Dermatology, Xijing Hospital, Xi'an, Shaanxi, China

C10-4
[P07-05]
11:36-11:48

Frameshift mutations in different exons of *Col17a1* lead to distinctive phenotype of junctional epidermolysis bullosa model mice

○ Hong Ha Nguyen¹, Satoru Shikuma¹, Osamu Ansai¹, Yudai Kabata¹, Shota Takashima², Masashi Mori³, Masahito Ikawa³, Hiroshi Shimizu², Riichiro Abe¹

¹Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, ²Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, ³Department of Experimental Genome Research, Genome Information Research Center, Osaka University, Osaka, Japan

C10-5
[P07-06]
11:48-12:00

Identification and characterization of a novel large duplication spanning exons 8-16 of *ATP2C1* in a family with Hailey-Hailey disease

○ Kwesi Teye¹, Hiroshi Koga², Mikio Ichiki², Mitsuhiro Matsuda², Chika Ohata², Norito Ishii², Takahiro Hamada², Takekuni Nakama²

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

C10-6
[P07-07]
12:00-12:12

The role of heterochromatin in the accelerated ageing syndrome progeria

○ Oliver Dreesen¹, Peh Fern Ong¹, Alexandre Chojnowski³, Mattheus XR Foo^{1,2}, Louis Peter Hor¹

¹Skin Research Institute of Singapore, ²Nanyang Technological University, Singapore, ³Institute of Medical Biology, Singapore

C10-7
[P08-03]
12:12-12:24

IL-36 receptor antagonist (IL36Ra) deficiency resulted in delayed wound healing due to excessive neutrophil infiltration

○ Kenta Saito¹, Yohei Iwata¹, Hidehiko Fukushima¹, Soichiro Watanabe¹, Masashi Akiyama², Kazumitsu Sugiura¹

¹Department of Dermatology, Fujita Health University School of Medicine, Aichi, Japan, ²Department of Dermatology, Nagoya University Graduate School of Medicine, Aichi, Japan

JSID-Asia-Oceania-Forum

"Crosstalk between cancer and immunity"

12:35-14:35

Chairs: Tetsuya Honda, Hayato Takahashi

- JAOF1 RIG-I is a critical factor of inflammation and tumor**
Danhong Peng, Libo Sun, Yang Sun, Qianqian Yin, Fangzhou Lou, Liman Niu, Linjiao Chen, Siyu Deng, Zhenyao Xu, Xiaojie Cai, Zhikai Wang, Jing Bai, Hong Wang, ○ Honglin Wang
Shanghai General Hospital/Shanghai Institute of Immunology, Shanghai Jiao Tong University School of Medicine (SJTU-SM), Shanghai, China
- JAOF2 Inflammasome sensors coordinate innate defence at barrier tissues: lessons from Mendelian inflammatory skin diseases**
○ Franklin Zhong^{1,2,3}
¹National Research Foundation, Singapore, ²Lee Kong Chian School of Medicine, Nanyang Technological University, ³Skin Research Institute of Singapore, Agency for Science, Technology and Research (A*STAR)
- JAOF3 Metabolic reprogramming drives H3K4me3 remodeling through O-GlcNAc transferase in adaptive cancer drug resistance**
○ Helmut Schaidler
The University of Queensland Diamantina Institute, The University of Queensland, Brisbane, Australia
- JAOF4 The mystery beyond stem cell mechanobiology**
○ Chih-Chiang Chen^{1,2}
¹Division of Dermatologic diagnosis, Department of Dermatology, Taipei Veterans General Hospital, ²Department of Dermatology, National Yang-Ming University, Taipei, Taiwan
- JAOF5 Melanoma in Korea: Risk factors for recurrence in localized melanomas and Treatment outcomes in advanced melanoma**
○ Mi Ryung Roh
Department of Dermatology, Gangnam Severance Hospital, Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, Korea

Closing Remarks

14:35-14:45

November 10, 2019, Room C

Morning Seminar 4

"The latest topics of Adalimumab for Inflammatory skin diseases"

8:00-9:00

Chair: Hideshi Torii

MS4-1 Pathophysiology and treatment of hidradenitis suppurativa

○ Koremasa Hayama, Tadashi Terui
Department of Dermatology, Nihon University School of Medicine, Tokyo, Japan

MS4-2 What kind of psoriatic patients benefit most from adalimumab based on evidence?

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

Co-sponsored by Eisai Co., Ltd./AbbVie GK

Concurrent Oral Session 11

(Epidermal Structure and Function, Immunology 2: Innate Immunity and Microbiology)

11:00-12:24

Chairs: Nobuo Kanazawa, Rei Watanabe, Michihiro Kono

C11-1 [P05-05] Increases in CAMP production during epidermal differentiation are regulated by changes in expression of sphingosine kinase 1 and 2

11:00-11:12

○ Kyong-Oh Shin¹, Kun Pyo Kim², Yunhi Cho², Hiroko Ikushiro³, Takato Yano³, Walter M. Holleran⁴, Kyungho Park⁴, Yoshikazu Uchida⁴

¹Department of Food Science and Nutrition, Hallym University, Chuncheon, Korea, ²Department of Med. Nutrition, Kyung Hee University, Yongin, Korea, ³Department of Biochemistry, Osaka Medical College, ⁴Department of Dermatology, University of California, San Francisco, USA; Northern California Institute for Research and Education, Veterans Affairs Medical Center, San Francisco, USA

C11-2 [P11-02] Skin colonized Staphylococcus aureus increases the susceptibility to inflammation via innate immune pathways

11:12-11:24

○ Masashi Iwata, Saeko Nakajima, Tie Duerna, Kenji Kabashima
Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan

C11-3 [P11-03] Caspase-1/11 regulates IL-33 secretion and partly mediates the development of atopic dermatitis-like inflammation in mice

11:24-11:36

○ Minoru Kusakabe¹, Yasutomo Imai¹, Koubun Yasuda², Kenji Nakanishi², Etsushi Kuroda², Kiyofumi Yamanishi¹
¹The Department of Dermatology, Hyogo College of Medicine, ²Department of Immunology, Hyogo College of Medicine

C11-4 [P11-04] Myd88 in keratinocytes is essential for the Malassezia-induced IL-17-dependent skin inflammation

11:36-11:48

○ Hideaki Miyachi¹, Yuumi Nakamura¹, Shinobu Saijo², Gabriel Núñez³, Hiroyuki Matsue¹
¹Department of Dermatology, Graduate School of Medicine, Chiba University, Chiba, Japan, ²Division of Molecular Immunology, Medical Mycology Research Center, Chiba University, Chiba, Japan, ³Department of Pathology and Rogel Cancer Center, University of Michigan Medical School, Ann Arbor, Michigan, U. S. A.

C11-5 [P11-05] Candidalysin mediates human mast cell activation through dectin-1 and MAPK pathways

11:48-12:00

○ Francois Niyonsaba^{1,2}, Pu Song^{1,3}, Yoshie Umehara¹, Takasuke Ogawa⁴, Shigaku Ikeda⁴, Ko Okumura¹, Hideoki Ogawa¹
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan, ²Faculty of International Liberal Arts, Juntendo University, Tokyo, Japan, ³Department of Dermatology, Xijing Hospital, Fourth Military Medical University, Xi'an, Shannxi, China, ⁴Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, Japan

C11-6 [P11-06] Candidalysin, a virulence factor of Candida albicans, is involved in exacerbation of the imiquimod-induced psoriasis

12:00-12:12

○ Pu Song^{1,2}, Francois Niyonsaba^{1,3}, Takasuke Umehara¹, Takasuke Ogawa⁴, Shigaku Ikeda⁴, Ko Okumura¹, Hideoki Ogawa¹
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan, ²Department of Dermatology, Xijing Hospital, Fourth Military Medical University, Xi'an, Shannxi, China, ³Faculty of International Liberal Arts, Juntendo University, Tokyo, Japan, ⁴Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, Japan

C11-7 [P11-07] The loss-of-function mutations in Staphylococcus agr by gene replication-transcription conflicts result in the defect of skin colonization

12:12-12:24

○ Rena Oguma¹, Yuumi Nakamura¹, Hiroki Takahashi², Akiko Takaya³, Yuki Katayama¹, Yoko Kusuya², Hiroyuki Matsue¹
¹Department of Dermatology, Chiba University Graduate School of Medicine, Japan, ²Division of Bio-resources, Medical Mycology Research Center, Chiba University, Japan, ³Department of Microbiology and Immunology, Graduate School of Pharmaceutical Sciences, Chiba University, Chiba, Japan

November 10, 2019, Room D

Concurrent Oral Session 12 (Hair and Cutaneous Development)

11:00-12:24

Chairs: Shigaku Ikeda, Taisuke Ito, Manabu Ohyama

C12-7
[P09-08]
12:12-12:24

PPAR γ signaling protects from hair follicle bulge stem cell damage and cyclophosphamide-induced hair follicle cytotoxicity

Ilaria Piccini¹, Jèrèmy Chèret², Sushmita Ghatak¹, Majid Alam³, Jonathan Hardman⁴, Hanieh Erdmann⁵, Francisco Jimenez³, Chris Ward¹, ○Yoshikazu Uchida¹, Ralf Paus^{2,4}, Marta Bertolini¹

¹Monasterium Laboratory GmbH, Münster, Germany, ²University of Miami Miller School of Medicine, Miami, FL, USA, ³Mediteknia Skin & Hair Lab, Las Palmas de Gran Canaria, Spain, ⁴University of Manchester, Manchester, United Kingdom, ⁵Clinica Joelle, Dubai, United Arab Emirates

C12-1
[P09-02]
11:00-11:12

Ahed is involved in proliferation and differentiation of epidermal keratinocytes

○Mikiro Takaishi¹, Tatsushi Ishimoto¹, Masahiro Tokunaga², Chikara Kokubu², Junji Takeda², Shigetoshi Sano¹

¹Department of Dermatology, Kochi Medical School, Kochi University, ²Department of Genome Biology, Graduate School of Medicine, Osaka University

C12-2
[P09-03]
11:12-11:24

Microsatellite GWAS, risk haplotype sequencing and allele-specific genome editing reveal cchcr1 as a susceptibility gene for alopecia areata

○Shigaku Ikeda^{1,2}, Atsushi Takagi¹, Etsuko Komiyama¹, Nagisa Yoshihara¹, Tomotaka Mabuchi³, Asako Otomo⁴, Masato Ohtsuka⁴, Akira Oka⁵

¹Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, ²Atopy Research Center, Juntendo University Graduate School of Medicine, Tokyo, ³Department of Dermatology, Tokai University School of Medicine, Kanagawa, ⁴Department of Molecular Life Sciences, Division of Basic Medical Science and Molecular Medicine, Tokai University School of Medicine, Kanagawa, ⁵The Institute of Medical Sciences, Tokai University, Kanagawa

C12-5
[P09-06]
11:24-11:36

Water avoidance stress test on Cchcr1 knockout mice induces alopecia areata phenotype

○Nagisa Yoshihara¹, QiaoFeng Zao¹, Atsushi Takagi¹, Etsuko Komiyama¹, Tomotaka Mabuchi³, Akira Oka³, Shigaku Ikeda¹

¹Department of Dermatology and Allergology, and Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan, ²Department of Dermatology, Tokai University School of Medicine, Isehara, Kanagawa, Japan, ³The Institute of Medical Sciences, Tokai University, Isehara, Kanagawa, Japan

C12-3
[P09-04]
11:36-11:48

Attempts to regenerate human hair follicle structure in vitro by three-dimensionally assembling tissue- and iPSC cell-derived cell composites

○Masahiro Fukuyama, Aki Tsukashima, Momoko Kimishima, Yoshimi Yamazaki, Manabu Ohyama

The Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo, Japan

C12-4
[P09-05]
11:48-12:00

Topological transformation reveals a simplified 2-dimensional healing strategy to repair 3-dimensional injury in hair follicles

○Yueh-Feng Wu¹, Yao-Wen Hsu¹, Suet Yee Tee¹, Wen-Hen Huang¹, Chin-Lin Guo², Sung-Jan Lin^{1,3}

¹Department of Biomedical Engineering, National Taiwan University, Taipei, Taiwan, ²Institute of Physics, Academia Sinica, Taipei, Taiwan, ³Department of Dermatology, National Taiwan University Hospital and College of Medicine, Taipei, Taiwan

C12-6
[P09-07]
12:00-12:12

Identification of genes which determine site-specific skin feature through anatomical profiling of homeobox transcription factors expression

○Daisuke Utsumi¹, Aoi Ohira¹, Takuya Omine¹, Masahito Yasuda², Kenzo Takahashi¹

¹Department of Dermatology, University of the Ryukyus Graduate School of Medicine, ²Department of Dermatology, Gunma University Graduate School of Medicine

November 8-10, 2019, Poster Venue 1 & 2

Poster Presentation

2017 JSID's Fellowship Shiseido Research Grant

- SE-1 [O1-01] Evaluation on cytokine and transcriptional factor impacts on cholesterol 25-hydroxylase induction in CD4⁺ T cells**
○ Hayato Takahashi, Koichi Isami, Masayuki Amagai
Department of Dermatology, Keio University, Tokyo, Japan
- SE-2 [O1-02] Aging alteration of human skin T cells**
○ Rei Watanabe
Department of Dermatology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan

2018 JSID's Fellowship Shiseido Research Grant

- SE-3 [O1-03] Exploration of novel lipid metabolism-related molecules in immune-mediated skin diseases**
○ Hayakazu Sumida, Shinichi Sato
Department of Dermatology, Faculty of Medicine, The University of Tokyo, Tokyo, Japan
- SE-4 [O1-04] Clarification of the mechanism of the breakdown of self-tolerance in bullous pemphigoid**
○ Hideyuki Ujiie
Department of Dermatology, Hokkaido University Graduate School of Medicine

Category 1 (P01): Autoimmunity/Inflammation

- P01-01 [II-2] Single-cell RNA-seq reveals the transcriptional landscape and heterogeneity of autoreactive B cells in pemphigus patients**
○ Shohei Egami^{1,2}, Takashi Watanabe³, Hisashi Nomura¹, Hayato Takahashi¹, Jun Yamagami¹, Osamu Ohara², Masayuki Amagai^{1,2}
¹The Department of Dermatology, Keio University school of Medicine, Tokyo, Japan, ²Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, Kanagawa, Japan, ³Laboratory for integrative genomics, RIKEN Center for Integrative Medical Sciences, Kanagawa, Japan
- P01-02 [I-5] Plasma exosomal miR-375-3p regulates mitochondria-dependent apoptotic pathway in keratinocytes by targeting XIAP in SJS/TEN**
○ Chen Zhang, Gang Wang, Meng Fu
Xijing hospital, China
- P01-03 [I-6] Novel proteasome-related autoinflammation and immunodeficiency disease caused by a distinct heterozygous missense mutation in the PSMB9 gene**
○ Nobuo Kanazawa¹, Yumi Nakatani¹, Yutaka Inaba¹, Kayo Kunimoto¹, Noriko Kinjo², Satoru Hamada², Tsunehiro Mizushima³, Akira Kinoshita⁴, Koh-Ichiro Yoshiura⁴, Jun Hamazaki⁵, Shigeo Murata⁵, Hidenori Ohnishi⁶, Takashi Orimo⁷, Hiroaki Hemmi⁷, Tsuneyasu Kaisho⁷
¹Department of Dermatology, Wakayama Medical University, Wakayama, Japan, ²Department of Child Health and Welfare (Pediatrics), Graduate School of Medicine, University of the Ryukyus, Okinawa, Japan, ³Picobiology Institute, Graduate School of Life Science, University of Hyogo, Hyogo, Japan, ⁴Department of Human Genetics, Atomic Bomb Disease Institute, Nagasaki University, Nagasaki, Japan, ⁵Laboratory of Protein Metabolism, Graduate School of Pharmaceutical Sciences, University of Tokyo, Tokyo, Japan, ⁶Department of Pediatrics, Graduate School of Medicine, Gifu University, Gifu, Japan, ⁷Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, Wakayama, Japan
- P01-04 [III-1] Innate lymphoid cells type 1 in the pathogenesis of Alopecia Areata**
Rima Laufer¹, Aviad Keren¹, Ralf Paus^{2,3}, ○ Amos Gilhar¹
¹Skin Research Laboratory, Faculty of Medicine, Technion, Haifa, Israel, ²Dermatology, University of Miami, Miami, FL, USA, ³Dermatology, University of Manchester, Manchester, UK
- P01-05 [C09-1] Monocytes/macrophages may contribute to the pathogenic process of systemic sclerosis via downregulation of Interferon regulatory factor 8**
○ Yasushi Ototake¹, Yukie Yamaguchi¹, Miho Asami¹, Noriko Komitsu¹, Tomoya Watanabe¹, Daisuke Kurotaki², Tomohiko Tamura², Michiko Aihara¹
¹The Department of Environmental Immuno-Dermatology, Yokohama City University, Yokohama, Japan, ²The Department of Immunology, Yokohama City University, Yokohama, Japan

- P01-06 [C01-1] Single-cell profiling-based therapeutic guidance for chronic, atypical rashes**
Raymond Cho¹, Paymann Harirchian^{1,2}, Yale Liu^{1,2}, Jaehyuk Choi^{3,4}, ○ Jeffrey B Cheng^{1,2}
¹The Department of Dermatology, University of California San Francisco, San Francisco, CA, ²Veterans Affairs Medical Center, San Francisco, CA, United States, ³Dermatology, Northwestern University, Chicago, IL, United States, ⁴Biochemistry and Molecular Genetics, Northwestern University, Chicago, IL, United States
- P01-07 [C09-2] IL-17 plays an important role in fibrosis through IL-17 receptor expressed on fibroblasts by IL-21 stimulation in systemic sclerosis**
○ Maiko Fukayama¹, Ayumi Yoshizaki¹, Ai Kuzumi¹, Satoshi Ebata¹, Takemichi Fukasawa¹, Masashi Fukayama², Shinichi Sato¹
¹The Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo, Japan, ²The Department of Human Pathology, University of Tokyo Graduate School of Medicine, Tokyo, Japan
- P01-08 [C01-2] ERK2 in the central nervous system controls itch and alopecia in chronic skin inflammation**
○ Shinsuke Matsuo¹, Takashi Hashimoto¹, Aiko Furuya¹, Sayako Itakura², Shogo Endo³, Yasushi Satoh⁴, Takahiro Satoh¹
¹Department of Dermatology, National Defense Medical College, ²Department of Anesthesiology, National Defense Medical College, ³Tokyo Metropolitan Geriatric Hosp. and Inst. of Gerontology, ⁴Department of Biochemistry, National Defense Medical College
- P01-09 [C05-1] A novel BP180 (LABD97) ELISA as a valuable tool for monitoring of mucous membrane pemphigoid**
○ Norito Ishii^{1,2}, Kwesi Teye^{1,2}, Hiroshi Koga^{1,2}, Toshiro Abe^{1,2}, Chika Ohata^{1,2}, Takekuni Nakama^{1,2}
¹Department of Dermatology, Kurume University School of Medicine, Kurume, Fukuoka, Japan, ²Kurume University Institute of Cutaneous Cell Biology, Kurume, Fukuoka, Japan
- P01-10 [C05-2] Autoimmune reaction targeted for the C-terminal domain of BP230 induces experimental bullous pemphigoid in mice**
○ Yasushi Matsuzaki, Eiko Makita, Tomohisa Fukui, Hajime Nakano, Daisuke Sawamura
Department of Dermatology, Hirosaki University School of Medicine, Aomori, Japan
- P01-11 [C05-3] Ectopic lymphoid structures harbor desmoglein-specific B cells in the chronic skin lesions of patients with pemphigus**
○ Jong Hoon Kim, Ji Young Choi, Dawoon Han, Mi Yeon Cho, Sang Eun Lee, Soo-Chan Kim
The Department of Dermatology, Yonsei University College of Medicine, Seoul, Korea
- P01-12 [C01-3] Induction of IL-10-producing plasmablasts with possible regulatory functions during contact hypersensitivity**
○ Yutaka Matsumura¹, Rei Watanabe¹, Hanako Koguchi-Yoshioka^{1,2}, Sa Vo¹, Yasuhiro Fujisawa¹, Manabu Fujimoto^{1,2}
¹Department of Dermatology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan, ²Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka, Japan
- P01-13 [C05-4] Analysis of the novel hygiene hypothesis model using spontaneous atopic dermatitis mice**
○ Yukihiko Kato¹, Yosuke Amagai², Ryo Muko², Yoshihiro Umebayashi¹, Akane Tanaka², Hiroshi Matsuda²
¹The Department of Dermatology, Tokyo Medical University Hachioji Medical Center, Tokyo, Japan, ²Division of Animal life science, Institute of agriculture, Tokyo University of agriculture and technology
- P01-14 [C09-3] Monocyte-derived dendritic cells mediate autoimmunity in murine model of systemic lupus erythematosus**
○ Fumi Miyagawa, Hideo Asada
Department of Dermatology, Nara Medical University, Nara, Japan
- P01-15 [C01-4] Dupilumab decreases *Staphylococcus aureus* colonization and increases microbial diversity in patients with atopic dermatitis**
Chris Callewaert^{1,2}, Frank O. Nestle³, Emma Guttman-Yassky⁴, Kazuhiko Arima⁵, Ana B. Rossi³, Jennifer Hamilton⁶, ○ Richard L. Gallo¹
¹University of California San Diego, La Jolla, CA, USA, ²Ghent University, Ghent, Belgium, ³Sanofi Genzyme, Cambridge, MA, USA, ⁴Icahn School of Medicine at Mount Sinai Medical Center, New York, NY, USA, ⁵Sanofi K.K., Tokyo, Japan, ⁶Regeneron Pharmaceuticals, Inc., Tarrytown, NY, USA
- P01-16 [C01-5] Leucine-rich α -2 glycoprotein initiates abrupt expression of systemic pro-inflammatory cytokines for development of psoriasiform lesion**
○ Hideki Nakajima¹, Kimiko Nakajima¹, Satoshi Serada², Minoru Fujimoto², Tetsuji Naka², Shigetoshi Sano¹
¹Department of Dermatology, Kochi Medical School, ²Center for Intractable Immune Disease, Kochi Medical School
- P01-17 [C01-6] 11 β -hydroxysteroid dehydrogenase type 1 can serve suppressive effect on atopic inflammation by modulating active glucocorticoid in the skin**
Noo Ri Lee¹, Beom Jun Kim¹, Chung Hyeok Lee³, ○ Young Bin Lee¹, Solam Lee¹, Hyun Jee Hwang¹, Eunjung Kim¹, Sang Eun Lee², Kyong-Oh Shin³, Kyungho Park³, Eung Ho Choi¹
¹Department of Dermatology, Yonsei University Wonju College of Medicine, Wonju, Korea, ²Department of Dermatology, Cutaneous Biology Research Institute, Yonsei University College of Medicine, Gangnam Severance Hospital, Seoul, Korea, ³Department of Food Science and Nutrition, and Convergence Program of Material Science for Medicine and Pharmaceuticals, Hallym University, Chuncheon, Korea

- P01-18 [C05-5] Isolation of native keratinocyte-derived bullous pemphigoid autoantigen by CRISPR/Cas9-mediated tagging of BP180**
○ Wataru Nishie, Shoko Mai, Yosuke Mai, Hiroshi Shimizu
Department of Dermatology, Faculty of Medicine and Graduate School Hokkaido University, Sapporo, Japan
- P01-19 [O1-05] Roles of platelet-derived growth factor receptor (PDGFR) inhibitor for the fibrosis of systemic sclerosis**
○ Katsunari Makino¹, Maria Trojanowska², Hironobu Ihn¹
¹Department of Dermatology and Plastic Surgery, Kumamoto University, Kumamoto, Japan, ²Arthritis Center, Boston University School of Medicine, MA, USA
- P01-20 [O1-06] Superoxide dismutase 3 inhibits rosacea-like skin inflammation through modulation of EGFR and associated inflammatory cascades**
○ Gaurav Agrahari, Shyam Kishor Sah, Hae Yoon Kim, Tae Yoon Kim
Laboratory of Dermato-immunology, The Catholic University of Korea, Seoul, South Korea
- P01-21 [C01-7] Possible role of resident memory T cells expressing IL-23R and PD-1 in psoriasis exacerbation**
○ Pawit Phadungsaksawasdi, Toshiharu Fujiyama, Kazuo Kurihara, Takatsune Umayahara, Taisuke Ito, Yoshiki Tokura
Department of Dermatology, Hamamatsu university school of medicine, Hamamatsu, Shizuoka, Japan
- P01-22 [C05-6] Efficacy and safety of topical diacerein for treatment of bullous pemphigoid in an open-label randomized phase 2 trial**
○ Jing-Yi Lee¹, Yu-Hsiang Liao¹, Fong-Ling Chen¹, Yi-Shuan Sheen², Yung-Tsu Cho², Shang-Hong Lin³, Ji-Chen Ho³, Sheau-Chiou Chao⁴, Chao-Chun Yang⁴, Chao-Kai Hsu⁴, I-Yin Lin¹, Chih-Kuang Chen¹, Chih-Hung Lee³, Chia-Yu Chu²
¹Twi Biotechnology, Inc., ²Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, Taiwan, ³Department of Dermatology, Chang Gung Memorial Hospital Kaohsiung, Taiwan, ⁴Department of Dermatology, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, Taiwan
- P01-23 [C09-4] Dectin-2-induced CCL2 production in cardiac macrophages ignites vascular inflammation**
○ Chie Miyabe^{1,2}, Yoshishige Miyabe², Laura Moreno², Jeffrey Lian², Rod Rahimi², Noriko Miura³, Naohito Ohno³, Yoichiro Iwakura⁴, Tamihiko Kawakami¹, Andrew Luster²
¹Division of Dermatology, Tohoku Medical and Pharmaceutical University, Sendai, Japan, ²Center for Immunology and Inflammatory Diseases, Division of Rheumatology, Allergy and Immunology, Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts, USA, ³Tokyo University of Pharmacy and Life Science, Tokyo, Japan, ⁴Center for Animal Disease Models, Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, Japan
- P01-24 [C05-7] Histone acetylation regulates SREBP1 transcription and sebocyte differentiation**
○ Hye Sun Shin^{1,2,3}, Dong Hun Lee^{1,2,3}, Zouboulis CC¹, Hyun Sun Park⁵, Min-Kyoung Kim^{1,2,3}, Jin Ho Chung^{1,2,3,6}
¹Department of Dermatology, Seoul National University College of Medicine, Seoul, Republic of Korea, ²Laboratory of Cutaneous Aging Research, Biomedical Research Institute, Seoul National University Hospital, Seoul, Republic of Korea, ³Institute of Human-Environment Interface Biology, Seoul National University, Seoul, Republic of Korea, ⁴Departments of Dermatology, Venereology, Allergology and Immunology, Dessau Medical Center, Brandenburg Medical School Theodor Fontane, Dessau, Germany, ⁵Department of Dermatology, Seoul Metropolitan Government-Seoul National University, Boramae Medical Center, Seoul, Republic of Korea, ⁶Institute on Aging, Seoul National University, Seoul, Republic of Korea
- P01-25 [O1-07] Single Cell Transcriptome Analysis of Peripheral Blood Mononuclear Cells in Atopic Dermatitis**
○ Yoshihiro Ishida, Sho Hanakawa, Rintaro Shibuya, Atsushi Otsuka, Kenji Kabashima
Department of Dermatology, Kyoto University, Tokyo, Japan
- P01-26 [O1-08] Dual functions of dermokine in regulating skin barrier and innate immunity**
○ Akira Utsunomiya¹, Takenao Chino¹, Natsuko Utsunomiya¹, Vu Huy Luong¹, Kiyoshi Higashi², Koichi Sato², Manabu Sugai³, Koji Sugawara⁴, Daisuke Tsuruta⁴, Minoru Hasegawa¹
¹Dermatology, Fukui University, ²Sumitomo Chemical Co., Ltd., ³Molecular Genetics, Fukui University, ⁴Dermatology, Osaka City University
- P01-27 [O1-09] Analysis of transcription factors in regulatory T (Treg) cells in the skin of atopic dermatitis and psoriasis vulgaris**
○ Tomoya Takegami, Toshiaki Kogame, Takashi Nomura, Kenji Kabashima
Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan
- P01-28 [O1-10] Analysis of the onset mechanism of atopic disorders in mice with a loss-of-function CARD11 mutation**
○ Yusuke Nomoto¹, Shinsuke Yasukawa², Masutaka Furu², Hiromitsu Hara³, Takuro Kanekura¹
¹The Department of Dermatology, University of Kagoshima, Kagoshima, Japan, ²The Department of Dermatology, University of Kyusyu, Fukuoka, Japan, ³The Department of Immunology, University of Kagoshima, Kagoshima, Japan
- P01-29 [O1-11] IL-17A upregulates endothelin-1 in through p38 pathway in keratinocytes in the pathogenesis of prurigo nodularis**
○ Lai-San Wong, Chih Hung Lee
Chang Gung Memorial Hospital-Kaohsiung Medical Center, Kaohsiung Taiwan

- P01-30 [O1-12] Psoriatic inflammation by imiquimod can be attenuated with application of Liver X receptor agonist via production of pro-resolution molecule**
 ○ Masayuki Otsuka¹, Toshiaki Okuno², Takehiko Yokomizo², Teruki Dainichi¹, Gyohei Egawa¹, Kenji Kabashima¹
¹The Department of Dermatology, Graduate school of medicine, Kyoto University, Kyoto, Japan, ²Department of Biochemistry, Juntendo University School of Medicine, Tokyo, Japan
- P01-31 [O1-13] E3 ligase Trim21 ubiquitylates NF-κB p65 subunit and promotes inflammation in psoriatic keratinocytes**
 ○ Luting Yang, Tongmei Zhang, Chen Zhang, Chunying Xiao, Gang Wang
 Department of Dermatology, Xijing Hospital, Xi'an, China
- P01-32 [O1-14] Inflammatory M1 phenotype of circulating monocytes in patients with psoriasis**
 ○ Miho Asami, Yukie Yamaguchi, Naoko Takamura, Yasushi Ototake, Michiko Aihara
 Department of Environmental Immuno-Dermatology, Yokohama City University, Yokohama, Japan
- P01-33 [O1-15] Botulinum toxin B injection inhibits imiquimod-induced psoriasis-like dermatitis via the regulation of neuroimmune system**
 ○ Syahla N. Amalia, Hritu Baral, Yuta Inoue, Sahori Yamazaki, Chisako Fujiwara, Akiko Sekiguchi, Akihiko Uchiyama, Yoko Yokoyama, Osamu Ishikawa, Sei-ichiro Motegi
 Department of Dermatology, Gunma University, Maebashi
- P01-34 [O1-16] Negative regulation of dendritic cell activation in psoriasis mediated via CD100-Plexin-B2**
 ○ Chunying Xiao¹, Zhenlai Zhu¹, Chen Zhang¹, Gang Wang¹, Wei Li^{1,2}
¹Department of Dermatology, Xijing Hospital, Fourth Military Medical University, Xi An, China, ²Department of Dermatology, Huashan Hospital, Fudan University, Shanghai, China
- P01-35 [O1-17] Effect of cholecystokinin 2 receptor antagonist on alopecia in dry skin and aged mice**
 ○ Mitsutoshi Tominaga^{1,2}, Kotaro Honda¹, Eriko Komiya¹, Yasushi Suga^{2,3}, Hideoki Ogawa^{2,3}, Kenji Takamori^{1,2,3}
¹Institute for Environmental and Gender Specific Medicine, Juntendo Itch Research Center (IIRC), Juntendo University Graduate School of Medicine, Chiba, Japan, ²Anti-Aging Skin Research Laboratory, Juntendo University Graduate School of Medicine, Chiba, Japan, ³Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan
- P01-36 [O1-18] Eosinophil-derived galectin 10 induces matrix metalloproteases (MMPs) in bullous pemphigoid (BP)**
 ○ Takahito Chiba¹, Takeshi Nakahara², Shigeharu Ueki³, Shin-Ichi Osada¹, Masutaka Furue²
¹Department of Dermatology and Plastic Surgery, Akita University Graduate School of Medicine, Akita, Japan, ²Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan, ³Department of General Internal Medicine and Clinical Laboratory Medicine, Akita University Graduate School of Medicine, Akita, Japan
- P01-37 [O1-19] Epidermal loss of phospholipase C δ1 protects mice from irritant contact dermatitis**
 ○ Kaori Kanemaru^{1,2}, Kanako Shiratori², Takahiro Ogura², Takatsugu Fukuyama², Yoshikazu Nakamura^{1,2}, Kiyoko Fukami²
¹Department of Applied Biological Science, Faculty of Science and Technology, Tokyo University of Science, Tokyo, Japan, ²Laboratory of Genome and Biosignals, School of Life Sciences, Tokyo University of Pharmacy and Life Sciences, Tokyo, Japan
- P01-38 [O1-20] Analysis of autoantibody against Ro52/IgG/HLA-DR complex in patients with dermatomyositis**
 ○ Noriko Arase¹, Kaori Odomari¹, Yori-hisa Kotobuki¹, Hideaki Tsuji², Ran Sasai², Toru Hirano³, Hideki Yorifuji³, Kyoko Tonomura¹, Ichiro Katayama^{1,4}, Hiroyuki Murota^{1,5}, Hui Jin^{6,7}, Koichiro Ohmura², Atsushi Kumanogoh³, Hisashi Arase^{6,7}, Manabu Fujimoto¹
¹The Department of Dermatology, Osaka University, Osaka, Japan, ²Department of Rheumatology and Clinical Immunology, Kyoto University, Kyoto, Japan, ³Department of Respiratory Medicine and Clinical Immunology, Osaka University, Osaka, Japan, ⁴Department of Pigmentation Research and Therapeutics, Osaka City University, Osaka, Japan, ⁵Department of Dermatology, Nagasaki University, Nagasaki, Japan, ⁶Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ⁷Laboratory of Immunochemistry, Immunology Frontier Research Center, Osaka University, Osaka, Japan
- P01-39 [O1-21] Immunological profile of different subtypes of rosacea**
 ○ Soyun Cho, Ji-Su Lee
 Department of Dermatology, Seoul National University Boramae Medical Center, Seoul, Korea
- P01-40 [O1-22] TAK-242 ameliorates contact dermatitis exacerbated by IL-36 receptor antagonist deficiency**
 ○ Hidehiko Fukushima¹, Yohei Iwata¹, Kenta Saito¹, Soichiro Watanabe¹, Masashi Akiyama², Kazumitsu Sugiyama¹
¹Department of Dermatology, Fujita Health University School of Medicine, Aichi, Japan, ²Department of Dermatology, Nagoya University Graduated School of Medicine, Aichi, Japan
- P01-41 [O1-23] Different levels of immunoglobulin G between the blister content and body fluids of bullous pemphigoid patients**
 ○ Toshiaki Kogame, Gyohei Egawa, Sachiko Ono, Atsushi Otsuka, Akihiko Kitoh, Yo Kaku, Yuichiro Endo, Tetsuya Honda, Teruki Dainichi, Kenji Kabashima, Takashi Nomura
 Department of Dermatology, Kyoto University, Kyoto, Japan
- P01-42 [O1-24] Dupilumab decreases blood biomarkers in adolescents with moderate-to-severe atopic dermatitis: Data from a phase 3 trial (LIBERTY AD ADOL)**
 ○ Eric L. Simpson¹, Hiroyuki Fujita², Kazuhiko Arima², Jennifer Hamilton³, Yufang Lu³, Ana B. Rossi⁴, Ashish Bansal³
¹Oregon Health and Science University, Portland, OR, USA, ²Sanofi K.K., Tokyo, Japan, ³Regeneron Pharmaceuticals, Inc., Tarrytown, NY, USA, ⁴Sanofi Genzyme, Cambridge, MA, USA

- P01-43 [O1-25] Inhibition of poly(I:C)-induced inflammation by salvianolic acid A in skin keratinocytes**
○ Jungwoo Ko, Chang Deok Kim, Jeung-Hoon Lee
Department of Dermatology, School of Medicine, Chungnam National University, Daejeon, Korea
- P01-44 [O1-26] Suppressive effect of topical thioredoxin in IMQ-induced psoriatic dermatitis in mice**
○ Alshimaa Mostafa¹, Kenji Sakurai¹, Teruki Dainichi¹, Reiko Matsumoto¹, Hai Tian², Junji Yodoi³, Yoshiaki Miyachi¹, Kenji Kabashima¹
¹Dermatology department, Kyoto university, kyoto, Japan, ²Redox Bioscience Inc, Kyoto, ³Laboratory of Infection and Prevention, Department of Biological Response, Institute for Virus Research, Kyoto University
- P01-45 [O1-27] The effect of matrix metalloproteinases-3 on the deposition of alpha-2AP in systemic sclerosis**
○ Hirofumi Niwa¹, Yosuke Kanno^{1,2}, En Shu¹, Mariko Seishima¹
¹Department of Dermatology, Gifu University Graduate School of Medicine, ²Department of Clinical Pathological Biochemistry, Faculty of Pharmaceutical Science, Doshisha Women's Collage of Liberal Arts
- P01-46 [O1-28] Anti-atopic dermatitis mechanisms of berberine in mice**
○ Yoko Yoshihisa¹, Tsugunobu Andoh², Mati Ur Rehman³, Yoshiaki Tabuchi⁴, Tadamichi Shimizu¹
¹Department of Dermatology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan, ²Department of Applied Pharmacology, Graduate School of Medicine and Pharmaceutical Sciences University of Toyama, ³Department of Radiology, Graduate School of Medicine and Pharmaceutical Sciences University of Toyama, ⁴Division of Molecular Genetics Research, Life Science Research Center, Graduate School of Medicine and Pharmaceutical Sciences University of Toyama
- P01-47 [O1-29] Melanoma patient with good response to immune checkpoint inhibitor treatment showed severe erythema circinatum with anti-SS-A antibodies**
○ Mariko Ogawa-Momohara¹, Yoshinao Muro¹, Katsunobu Goto¹, Chikashi Obuse², Minoru Satoh³, Michihiro Kono¹, Kenji Yokota¹, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, ²Graduate School of Science, Osaka University, Department of Biological Science, ³University of Occupational and Environmental Health, Japan, Department of Clinical Nursing, School of Health Sciences
- P01-48 [O1-30] Therapeutic effect of topical galectin-9 application in atopic dermatitis animal model**
○ Ji Young Pak¹, Ju Hee Han², Chul Hwan Bang², Ji Hyun Lee², Young Min Park²
¹Department of Biomedicine & Health Sciences, The Catholic University of Korea, Seoul, Republic of Korea, ²Department of Dermatology, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea
- P01-49 [O1-31] Consecutive imiquimod treatment for 3days induces psoriasis-like model lesions in *Il36rn*^{-/-} mice**
○ Soichiro Watanabe¹, Yohei Iwata¹, Hidehiko Fukushima¹, Kenta Saito¹, Masashi Akiyama², Kazumitsu Sugiura¹
¹The Department of Dermatology, Fujita Health University School of Medicine, Aichi, Japan, ²Department of Dermatology, Nagoya University Graduate School of Medicine, Aichi, Japan
- P01-50 [O1-32] PFN-1 regulates biomarkers of psoriasis**
○ Bo-Ram Mok¹, A-Ram Kim¹, In Jae Jung², Seung Hwa Baek¹, Tae Aug Kim¹, Dong Hyun Kim²
¹Department of Biomedical Science, CHA University, Seongnam, Republic of Korea, ²Department of Dermatology, Bundang CHA Medical Center, CHA University School of Medicine, Seongnam, Republic of Korea
- P01-51 [O1-33] A murine model of inflammatory fasciitis induced by local bleomycin administration: A possible model of human diffuse fasciitis?**
○ Takashi Ito, Toshiyuki Yamamoto
The Department of Dermatology, Fukushima Medical University School of medicine, Fukushima, Japan
- P01-52 [O1-34] The Factors that affect irritation of isododecane in Lip products**
○ Sodam Park, Seoyoung Kim, Mihyun Oh, Jieun Han, Goun Kim, Susun An
Amorepacific, Korea
- P01-53 [O1-35] The role of PDPN/CLEC-2 signaling in cutaneous allergic hypersensitivity**
○ Miho Tsutsumi, Jun Asai, Norito Katoh
Department of Dermatology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Kyoto, Japan
- P01-54 [O1-36] Gastrointestinal amyloidosis causes by SAA produced from long-lasting inflammatory skin**
○ Kento Mizutani, Yoshiaki Matsushima, Karin Okada, Keiichi Yamanaka
The Department of Dermatology, Mie University, Mie, Japan
- P01-55 [O1-37] Effect of decanoic acid on skin inflammation in a mouse model of contact sensitivity**
○ Shohei Igari¹, Toshiyuki Yamamoto¹, Youichi Akama²
¹Department of Dermatology, Fukushima Medical University, Fukushima, Japan, ²Department of Emergency, Minami Tohoku Hospital, Iwanuma, Miyagi

Category 2 (P02): Carcinogenesis/Growth Factors/Signal Transduction/Cancer Genetics

- P02-01 [I-1]** **Transcriptome analysis identified transcription factor SOX2 primes human oral mucosa for rapid wound healing**
 ○ Akihiko Uchiyama^{1,5}, Subhashree Nayak¹, Rose Graf¹, Michael Cross¹, Kowser Hasneen¹, Ramiro Iglesias-Bartolome^{1,2}, J. Silvio Gutkind³, Stephen R. Brooks¹, Sei-ichiro Motegi⁵, Osamu Ishikawa³, Maria I. Morasso¹
¹Laboratory of Skin Biology, National Institutes of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Maryland, USA, ²Laboratory of Cellular and Molecular Biology, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Maryland, USA, ³Department of Pharmacology and Moores Cancer Center, University of California, San Diego, California, USA, ⁴Biodata Mining and Discovery Section, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Maryland, USA, ⁵Department of Dermatology, Gunma University Graduate School of Medicine, Gunma, Japan
- P02-02 [C02-1]** **Keratinocyte Reganase-1, a down-modulator of skin inflammation, contributes to protection from carcinogenesis**
 ○ Hiroyuki Morisaka¹, Mikiro Takaishi¹, Shizuo Akira², Shigetoshi Sano¹
¹Department of Dermatology, Kochi Medical School, Kochi University, Kochi, Japan, ²Department of Host Defense, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan
- P02-03 [C02-2]** **Activation of hedgehog signaling suppresses psoriasis-like epidermal hyperplasia and skin inflammation**
 ○ Si-Hyung Lee¹, Hankyu Lee^{2,3}, Kyeong Lee³, Joon Kim⁴, Hyuk Wan Ko²
¹Department of Dermatology, Seoul National University College of Medicine, Seoul, Korea, ²Department of Biochemistry, College of Life Science and Biotechnology, Yonsei University, Seoul, Korea, ³College of Pharmacy, Dongguk University, Goyangsi, Korea, ⁴Graduate School of Medical Science and Engineering, KAIST, Daejeon, Korea
- P02-04 [C02-3]** **Epidermal clonal expansion upon UV irradiation: consequences of the epidermal duality of proliferative behaviour on the skin carcinogenesis**
 ○ Edwige Roy, Ho Yi Wong, Kiarash Khosrotehrani
 University of Queensland, Diamantina Institute, Brisbane, Australia
- P02-05 [C02-4]** **Lysosome adaption compensated imiquimod-induced cell death in skin cancer cells**
 ○ Shu-Hao Chang¹, Chun-Ying Wu^{1,5}, Jeng-Jer Shieh^{2,3,4}
¹Institute of Clinical Medicine, National Yang-Ming University, Taipei, Taiwan, ²Institute of Biomedical Sciences, National Chung Hsing University, Taichung, Taiwan, ³Department of Education and Research, Taichung Veterans General Hospital, Taichung, Taiwan, ⁴Rong Hsing Research Center for Translational Medicine, National Chung Hsing University, Taichung, Taiwan, ⁵Division of Gastroenterology and Hepatology, Taichung Veterans General Hospital, Taichung, Taiwan
- P02-06 [C02-5]** **Increased expression of dermal LL37 may trigger the lymph duct migration of Paget's cells in invasive extramammary Paget's disease**
 ○ Chunbing Lyu¹, Taku Fujimura¹, Ryo Amagai¹, Yota Sato¹, Kayo Tanita¹, Shigeto Matsushita², Yasuhiro Fujisawa³, Atsushi Otsuka⁴, Yuki Yamamoto⁵, Toshiya Takahashi¹, Setsuya Aiba¹
¹Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan, ²Department of Dermato-Oncology/ Dermatology, National Hospital Organization Kagoshima Medical Center, Kagoshima, Japan, ³Department of Dermatology, Faculty of University of Tsukuba, Tsukuba, Japan, ⁴Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, ⁵Department of Dermatology, Wakayama Medical University, Wakayama, Japan
- P02-07 [O2-01]** **Podoplanin expression in Bowen disease: positive cells can be tumor-initiating cells of Bowen disease**
 ○ Kazutoshi Muraio, Chisato Kosugi, Yoshiaki Kubo
 Department of Dermatology, Tokushima University Graduate School of Medical Science, Tokushima, Japan
- P02-08 [O2-02]** **Imiquimod-induced senescence was mediated by increasing K382 acetylation of p53 through Sirt1 downregulation in skin cancer cells**
 ○ Zheng-Yi Li¹, Jeng-Jer Shieh^{1,2,3}
¹Institute of Biomedical Sciences, National Chung Hsing University, Taichung City, Taiwan, ²Department of Education and Research, Taichung Veterans General Hospital, Taichung City, Taiwan, ³Rong Hsing Research Center for Translational Medicine, National Chung Hsing University, Taichung City, Taiwan
- P02-09 [O2-03]** **EGFR signaling synergistically augments the IL-17A-driven effect in keratinocytes through promoting the rapid induction of IkappaB-zeta**
 ○ Xiuju Dai, Koji Sayama, Masamoto Murakami, Ken Shiraishi, Jun Muto, Hideki Mori, Ryo Utsunomiya
 Department of Dermatology, Ehime University Graduate School of Medicine
- P02-10 [O2-04]** **Differential expression of long interspersed nuclear elements-1 correlates with global DNA methylation level in skin tumors**
 ○ Yuko Kuriyama, Akira Shimizu, Saki Mizuno, Osamu Ishikawa
 The Department of Dermatology, Gunma University Graduate School of Medicine, Gunma, Japan

- P02-11 [O2-05] Laser dermabrasion: a potential treatment for non-melanoma skin cancer**
○ Ho Yi Wong¹, Edwige Roy¹, Stuti Kapadia¹, Valentine Murigneux², Sharene Chong¹, Kiarash Khosrotehrani¹
¹University of Queensland Diamantina Institute, ²University of Queensland Institute of Molecular Bioscience
- P02-12 [O2-06] Inhibition of endoglin exerts an antitumour effect in angiosarcoma through the regulation of non-Smad TGF- β signaling**
○ Ryoko Sakamoto¹, Ikko Kajihara¹, Saki Maeda-Otsuka¹, Saori Yamada-Kanazawa¹, Mamiko Masuzawa², Mikio Masuzawa³, Yasuyuki Amoh², Daichi Hoshina⁴, Riichiro Abe⁵, Hironobu Ihn¹
¹Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan, ²Department of Dermatology, Kitasato University School of Medicine, Kanagawa, Japan, ³Department of Molecular Diagnostics, School of Allied Health Sciences, Kitasato University, Kanagawa, Japan, ⁴Department of Dermatology, Hokkaido University Graduate School of Medicine, Hokkaido, Japan, ⁵Department of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan
- P02-13 [O2-07] TCR/CD3 complex-negative T-cell lymphoproliferative disease with hematodermic involvement**
○ Yuki Nakagawa¹, Toshihisa Hamada², Keiji Iwatsuki¹, Yoji Hirai¹, Shin Morizane¹, Takahide Takahashi³, Toshiyuki Watanabe³
¹Department of Dermatology, Okayama university Graduate School of Medicine, Dentistry, and Pharmaceutical Science, Okayama, Japan, ²Department of Dermatology, Takamatsu red cross Hospital, Kagawa, Japan, ³Division of Medical Support of Okayama University Hospital, Okayama, Japan
- P02-14 [O2-08] Heterogeneity of PD-L1 expression in pre and post treatment cutaneous angiosarcoma**
○ Tetsuya Magara, Motoki Nakamura, Takao Oda, Hiroshi Kato, Akimichi Morita
The Department of Geriatric and Environmental Dermatology, Nagoya City University, Aichi, Japan
- P02-15 [O2-09] Imiquimod disrupts mitochondrial dynamic balance and leads to mitophagy**
○ Kai-Cheng Chuang¹, Jeng-Jer Shieh^{1,2,3}
¹Institute of Biomedical Sciences, National Chung Hsing University, Taichung City, Taiwan, ²Department of Education and Research, Taichung Veterans General Hospital, Taichung City, Taiwan, ³Rong Hsing Research Center for Translational Medicine, National Chung Hsing University, Taichung City, Taiwan
- P02-16 [O2-10] A low expression of cell adhesion molecule 1 (CADM1) is associated with poor clinical outcome in cutaneous squamous cell carcinoma**
○ Natsuko Sasaki, Yu Sawada, Etsuko Okada, Motonobu Nakamura
The Department of Dermatology, University of Occupational and Environmental Health, Fukuoka, Japan
- P02-17 [O2-11] NUAQ2 localization in the normal skin and its contribution to skin carcinogenesis with Yes-associated protein**
○ Hind Al-Busani¹, Hiroo Yokozeki¹, Saber Al-Sobaihi², Takeshi Namiki¹
¹Department of Dermatology, Tokyo Medical and Dental University, Tokyo, Japan, ²Department of Global Health Entrepreneurship, Tokyo Medical and Dental University, Tokyo, Japan
- P02-18 [O2-12] The expression of EpCAM in extramammary Paget's disease**
○ Saori Yamada-Kanazawa, Ikko Kajihara, Yukino Tasaki, Ryoko Sakamoto, Saki Maeda-Otsuka, Hironobu Ihn
Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University

Category 3 (P03): Cell Adhesion/Matrix/Vascular Biology

- P03-01 [III-5] A novel dermal hyaluronidase (Cemip) controls reactive adipogenesis and innate immune defense against S. aureus infection**
○ Tatsuya Dokoshi, Richard Gallo
The Department of Dermatology, University of California San Diego, California, USA
- P03-02 [C09-5] COA-Cl prevented TGF- β 1-induced CTGF expression in dermal fibroblasts, and it attenuated skin fibrosis in murine systemic sclerosis**
○ Sakiko Karita², Kozo Nakai¹, Junsuke Igarashi³, Ikuko Tsukamoto⁴, Katsuya Hirano⁵, Yasuo Kubota¹
¹Department of Dermatology, Kagawa University, Kagawa, Japan, ²School of Medicine, Kagawa University, Kagawa, Japan, ³Department of Clinical Engineering, Morinomiya University of Medical Sciences, Osaka, Japan, ⁴Department of Pharmaco-Bio-Informatics, Kagawa University, Kagawa, Japan, ⁵Department of Cardiovascular Physiology, Kagawa University, Kagawa
- P03-03 [C09-6] Inhibitory effect of botulinum toxin B on bleomycin-induced skin fibrosis in mice: Possible regulation of oxidative stress**
○ Hritu Baral, Akiko Sekiguchi, Yuta Inoue, Syahla N. Amalia, Sahori Yamazaki, Chisako Fujiwara, Akihiko Uchiyama, Sachiko Ogino, Yoko Yokoyama, Ryoko Torii, Mari Hosoi, Osamu Ishikawa, Sei-ichiro Motegi
Department of Dermatology, Gunma University, Maebashi, Japan
- P03-04 [C09-7] Keratinocyte-fibroblast interactions mediated by transforming growth factor-beta signaling in recessive dystrophic epidermolysis bullosa**
○ Eijiro Akasaka, Leena Bruckner-Tuderman, Alexander Nyström
Department of Dermatology, Medical Center - University of Freiburg, Germany

- P03-05 [O2-13] The significance of tumor cell-derived MFG-E8 in tumor growth of angiosarcoma**
 ○ Chisako Fujiwara¹, Aoi Ohira², Sayaka Yamaguchi², Akiko Sekiguchi¹, Masahito Yasuda¹, Hideharu Nakamura³, Takaya Makiguchi³, Satoshi Yokoo³, Daichi Hoshina⁴, Riichiro Abe⁵, Kenzo Takahashi², Osamu Ishikawa¹, Sei-ichiro Motegi¹
¹The Department of Dermatology, University of Gunma, Gunma, Japan, ²Department of Dermatology, University of the Ryukyus Graduate School of Medicine, Okinawa, Japan, ³Department of Oral and Maxillofacial Surgery, and Plastic Surgery, Gunma University Graduate School of Medicine, Gunma, Japan, ⁴Department of Dermatology, Hokkaido University Graduate School of Medicine, Hokkaido, Japan, ⁵Niigata University Graduate School of Medicine and Dental Science, Division of Dermatology, Niigata, Japan
- P03-06 [O2-14] Pemphigus autoantibodies directly inhibit heterophilic desmoglein -desmocollin adhesion by steric hindrance**
 ○ Ken Ishii¹, Kenji Yoshida¹, Jun Yamagami², Masayuki Amagai², John_R. Stanley³, Akira Ishiko¹
¹Department of Dermatology, Toho University, Tokyo, Japan, ²Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, ³Department of Dermatology, University of Pennsylvania, Philadelphia, PA, USA
- P03-07 [O2-15] The carbonylation of scaffold proteins affects the cellular functions of dermal fibroblasts**
 ○ Yumiko Yamawaki^{1,2}, Taeko Mizutani¹, Yuri Okano¹, Hitoshi Masaki²
¹CIEL CO., LTD., ²Tokyo University of Technology
- P03-08 [O2-16] Therapeutic possibility of administration of dimethyl fumarate for preventing the development of pressure ulcers by cutaneous I/R injury**
 ○ Yuta Inoue, Akihiko Uchiyama, Akiko Sekiguchi, Sahori Yamazaki, Chisako Fujiwara, Osamu Ishikawa, Sei-ichiro Motegi
 Department of Dermatology, Gunma University Graduate School of Medicine
- P03-09 [O2-17] Signaling mechanisms underlying the increased secretion of hyaluronan elicited in human dermal fibroblasts by Mycosporine-like amino acids**
 ○ Genji Imokawa¹, Shuko Terazawa¹, Takao Niwano¹, Akihiko Nakano², Akio Yamamoto²
¹Center for Bioscience Research & Education, Utsunomiya University, ²Cosmetic Research Center, Doctors Choice Co. Ltd
- P03-10 [O2-18] Hydrogenated retinol abrogates the over-expression of neprilysin by inhibiting UVB up-regulated epithelial-mesenchymal cytokine interactions**
 ○ Mariko Yokota¹, Yoriko Sato², Shuko Terazawa², Genji Imokawa²
¹NIKKOL GROUP COSMOS TECHNICAL CENTER CO., LTD., Tokyo, Japan, ²Center for Bioscience Research & Education, Utsunomiya University
- P03-11 [O2-19] TF-expression and inter-cellular gap formation of HUVECs in response to TNF- α , LPS or IL-33 are enhanced by treatment with histamine or VEGF**
 ○ Akiko Kamegashira, Yuhki Yanase, Shunsuke Takahagi, Kazuo Uchida, Tomoko Kawaguchi, Michihiro Hide
 The Department of Dermatology, Graduate School of Biomedical Sciences, University of Hiroshima, Hiroshima, Japan
- P03-12 [O2-20] The distributions of claudin-1 and zonula occludens-1 in oral mucosa are different from those of skin**
 ○ Keisuke Imafuku, Hiroaki Iwata, Ken Natsuga, Hiroshi Shimizu
 Department of Dermatology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University

Category 4 (P04): Human Clinical Research and Therapeutics

- P04-01 [I1-3] Neutrophil extracellular traps initiate and exacerbate Stevens-Johnson syndrome and toxic epidermal necrolysis**
 ○ Manao Kinoshita¹, Youichi Ogawa¹, Natsumi Hama², Inkin Ujiie³, Jun Adachi^{4,5}, Shinji Shimada¹, Yasuyuki Fujita³, Hayato Takahashi⁶, Takeshi Tomonaga^{4,5}, Riichiro Abe², Tatsuyoshi Kawamura¹
¹Department of Dermatology, Faculty of Medicine, University of Yamanashi, Japan, ²Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, ³Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, ⁴Laboratory of Proteome Research, National Institute of Biomedical Innovation, Health and Nutrition, Osaka, Japan, ⁵Laboratory of Proteomics for Drug Discovery, Center for Drug Design Research, National Institute of Biomedical Innovation, Health and Nutrition, Osaka, Japan, ⁶Department of Dermatology, Keio University School of Medicine, Tokyo, Japan
- P04-02 [I-2] Digital-immunohistologic dissection of immune privilege collapse in syringotropic autoimmune diseases: an implication for the pathogenesis**
 ○ Yurie Shimoda, Yoshimi Yamazaki, Momoko Kimishima, Manabu Ohyama
 Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo, Japan
- P04-03 [C08-1] CD8+CD103+ TRM cells are decreased in lesional skin, but not substantially in non-lesional skin of psoriasis after Secukinumab treatment**
 ○ Toshiharu Fujiyama¹, Kazuo Kurihara¹, Takatsune Umayahara¹, Hiroaki Yagi², Hideo Hashizume³, Taisuke Ito¹, Yoshiki Tokura¹
¹Department of Dermatology, Hamamatsu University School of Medicine, ²Department of Dermatology, Shizuoka General Hospital, ³Department of Dermatology, Iwata City Hospital
- P04-04 [C08-2] The automated pre-processing imaging system to realize large-scale skin image analysis with machine learning**
 ○ Koichi Ashizaki^{1,2}, Hiroshi Kawasaki^{1,2}, Takaho Endo¹, Ayano Fukushima^{1,2}, Emi Numazaki², Takeshi Ouchi², Masataka Saito², Tatsuhiko Tsunoda¹, Masayuki Amagai²
¹Medical Sciences Innovation Hub Program, RIKEN, Yokohama, Japan, ²Department of Dermatology, Keio University School of Medicine, Tokyo, Japan

- P04-05 [C08-3] Bexarotene reduces production of tumor-associated macrophages related chemokines in cutaneous T-cell lymphoma**
○ Kayo Tanita, Taku Fujimura, Yota Sato, Chunbing Lyu, Yumi Kambayashi, Setsuya Aiba
Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan
- P04-06 [C08-4] The Merkel virus antibody test to detect Merkel cell carcinoma recurrence: a validation study in 774 patients**
○ Tomoko Akaike¹, Kristina Lachance¹, Aubriana_M McEvoy¹, Kelly Paulson², Paul Nghiem¹
¹Department of Medicine, Division of Dermatology, University of Washington, Seattle, WA, USA, ²Fred Hutchinson Cancer Research Center, Seattle, WA, USA
- P04-07 [C08-5] Population pharmacokinetics and exposure-response analysis of BMS-986165, an oral, selective TYK2 inhibitor, in Japanese patients**
○ Tomomi Shiozaki¹, Yoshimasa Ishida¹, Kuretake Soejima¹, Anjaneya Chimalakonda², John Throup², Subhashis Banerjee², Ihab Girgis²
¹Bristol-Myers Squibb Japan, ²Bristol-Myers Squibb, Princeton, New Jersey, USA
- P04-08 [O2-21] A novel humanized mouse model for atopic dermatitis**
○ Aviad Keren¹, Christoph Riethmüller², Yehuda Ullman¹, Yoshikazu Uchida³, Ralf Paus⁴, Amos Gilhar¹
¹Skin Research Laboratory, Technion-Israel Institute of Technology, Haifa, Israel, ²Centre for Nanotechnology, Serendip GmbH, Münster, Germany, ³Monasterium Laboratory GmbH, Münster, Germany, ⁴Department of Dermatology, University of Miami Miller School of Medicine, Miami, FL, USA
- P04-09 [C08-6] The relationship between the basophil reactivity via FcεRI and clinical disease activity or features in chronic spontaneous urticaria**
○ Yoshiko Oda, Atsushi Fukunaga, Ken Washio, Shinya Imamura, Mayumi Hatakeyama, Kanako Ogura, Chikako Nishigori
Department of Dermatology, Kobe University Graduate School of Medicine, Japan
- P04-10 [C08-7] The efficacy and safety of the low-dose spironolactone in adult female acne: a randomized, double-blind, placebo-controlled trial**
○ Chanut Kumtornrut^{1,2}, Mattana Patiyasikunt², Bussabong Chancheewa²
¹The Division of Dermatology, Department of Medicine, King Chulalongkorn Memorial Hospital, The Thai Red Cross Society, ²The Division of Dermatology, Department of Medicine, Faculty of Medicine, Chulalongkorn University
- P04-11 [O2-22] Increased interleukin-26 expression promotes Th17 and Th2-associated cytokine production by keratinocytes in atopic dermatitis**
○ Hiroaki Kamijo¹, Tomomitsu Miyagaki¹, Yoshio Hayashi¹, Taro Akatsuka¹, Sayaka Watanabe-Otobe¹, Tomonori Oka¹, Naomi Shishido-Takahashi^{1,2}, Hiraku Suga¹, Makoto Sugaya^{1,2}, Shinichi Sato¹
¹Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo, Japan, ²Department of Dermatology, International University of Health and Welfare, Chiba, Japan
- P04-12 [O2-23] Evaluation of a potent skin whitening agent**
○ Thomas Mammone, Jaimie Jerome
Clinique Labs
- P04-13 [O2-24] Maintenance therapy with azathioprine prolonged duration of remission for pemphigus patients who received rituximab**
○ Po-Wei Huang¹, Yung-Tsu Cho², Yu-Ming Huang², Li-Fang Wang², Chia-Yu Chu²
¹Department of Dermatology, National Taiwan University Hospital, Taipei, Taiwan, ²Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, Taiwan
- P04-14 [O2-25] The characteristics of patients with persistent HHV-6 infection after DIHS/DRESS**
○ Yuki Nishimura, Fumi Miyagawa, Kazuya Miyashita, Rie Ommori, Chinatsu Shobatake, Hiroaki Azukizawa, Hideo Asada
The Department of Dermatology, Nara Medical University School of Medicine, Nara, Japan
- P04-15 [O2-26] Clinical significance of serum cell free DNA levels in extramammary Paget's disease**
○ Ikko Kajihara¹, Tselmeg Mijiddorj¹, Saki Otsuka-Maeda¹, Ryoko Sakamoto¹, Soichiro Sawamura¹, Saori Kanazawa-Yamada¹, Sho Egashira¹, Katsunari Makino¹, Azusa Miyashita¹, Jun Aoi¹, Takamitsu Makino¹, Satoshi Fukushima¹, Masatoshi Jinnin², Hironobu Ihn¹
¹Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan, ²Department of Dermatology, Wakayama Medical University, Wakayama, Japan
- P04-16 [O2-27] Clinical significance of serum Galectin-9, Soluble LAG-3, and CD155 levels in patients with systemic sclerosis**
○ Mami Chihara¹, Miki Kurita¹, Akihiko Asahina¹, Koichi Yanaba²
¹Department of Dermatology, The Jikei University School of Medicine, Tokyo, Japan, ²Department of Dermatology, The Jikei University Katsushika Medical Center

- P04-17 [O2-28] Demonstration of anti-aging and anti-cytotoxicity effects of theophylline in human skin *ex vivo***
 ○ Marta Bertolini¹, Yuval Ramot², Jennifer Gherardini¹, Gudrun Heinen³, Jèrèmy Chèret⁴, Thomas Wels³, Yoshikazu Uchida¹, Ralf Paus⁴
¹Monasterium Laboratory GmbH, Münster, Germany, ²Department of Dermatology, Hadassah Medical Center, Hebrew University of Jerusalem, Israel, ³Henkel AG & Co. KGaA, Düsseldorf, Germany, ⁴Dept. of Dermatology & Cutaneous Surgery, University of Miami Miller School of Medicine, Miami, FL, USA
- P04-18 [O2-29] Characteristic electron microscopy findings of vascular Ehlers-Danlos syndrome**
 ○ Satoko Ishikawa¹, Shujiro Hayashi¹, Eisuke Ishii¹, Tomoko Kaminaga¹, Masami Koike¹, Yoichiro Hamasaki¹, Toshimi Sairenchi², Gen Kobashi², Ken Igawa¹
¹Department of Dermatology, Dokkyo Medical University, School of Medicine, ²Department of Public Health, Dokkyo Medical University School of Medicine
- P04-19 [O2-30] Serum FABP-4 level is inversely correlated with serum TARC level in psoriasis patients achieving clear skin by biologics**
 ○ Masaru Honma, Takashi Shibuya, Shin Inuma, Akemi Ishida-Yamamoto
 Department of Dermatology, Asahikawa Medical University, Asahikawa, Japan
- P04-20 [O2-31] Identification of biomarkers for predicting the response to cyclosporine A therapy in patients with chronic spontaneous urticaria**
 ○ Takahiro Endo¹, Shota Toyoshima^{2,3}, Kazuko Kanegae^{2,3}, Satoshi Izaki^{1,2}, Nobuyuki Nishimori^{1,2}, Mana Ito^{1,2}, Kazuko Sugai^{4,5}, Koremasa Hayama^{1,2}, Yoshimichi Okayama^{2,3}, Tadashi Terui^{1,2}
¹Department of Dermatology, Nihon University School of Medicine, Tokyo, Japan, ²Allergy and Immunology Research Project Team, Research Institute of Medical Science, Nihon University School of Medicine, Tokyo, Japan, ³Center for Institutional Research and Medical Education, Nihon University School of Medicine, Tokyo, Japan, ⁴Sugai Children's Clinic, Hiroshima, Japan, ⁵Center for Public Health Informatics, National Institute of Public Health, Saitama, Japan
- P04-21 [O2-32] Withdrawn**
- P04-22 [O2-33] Different preferences between patients and physicians for the treatment of atopic dermatitis in Japan**
 ○ Yukari Okubo¹, Kerrie-Anne Ho², Simon Fifer², Hiroyuki Fujita³, Yasuyo Oki³, Yurie Taguchi³
¹Department of Dermatology, Tokyo Medical University, Tokyo, Japan, ²Community and Patient Preference Research Pty Ltd (CaPPRe), ³Sanofi K.K.
- P04-23 [O2-34] Immunohistochemical and clinicopathological study for Nardilysin on extramammary Paget's disease**
 ○ Akihiko Yamaguchi¹, Toshifumi Takahashi¹, Takeshi Kato¹, Noriki Fujimoto¹, Eiichiro Nishi², Toshihiro Tanaka¹
¹The Department of Dermatology, Shiga University of medical science, Shiga, Japan, ²Department of Pharmacology, Shiga University of medical science

Category 5 (P05): Epidermal Structure and Function

- P05-01 [II-6] Sphingosine 1-phosphate (S1P) and its receptor 2 (S1PR2) are regulators of the epidermal barrier**
 ○ Satomi Igawa^{1,2}, Zhenping Wang², Yu-Ling Chang², Chia-Chi Wu², Akemi Ishida-Yamamoto¹, Anna Di Nardo¹
¹The Department of Dermatology, Asahikawa Medical University, Asahikawa, Japan, ²The Department of Dermatology, School of Medicine, University of California, San Diego, La Jolla, USA
- P05-02 [III-2] Stepwise maturation of tight junctions on keratinocytes during cell translocation across the epidermal tight junction barrier**
 ○ Mariko Yokouchi^{1,2}, Masayuki Amagai^{1,3}, Akiharu Kubo¹
¹Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, ²Department of Dermatology, Nerima general hospital, Tokyo, Japan, ³Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan
- P05-03 [C06-1] The *Sbsn*^{-/-} mouse is a possible model of intrinsic atopic dermatitis**
 ○ Shinsuke Nakazawa¹, Takatoshi Shimauchi¹, Atsuko Funakoshi¹, Masahiro Aoshima¹, Pawit Phadungsaksawasdi¹, Jun-ichi Sakabe¹, Sanki Asakawa², Noriyasu Hirasawa², Taisuke Ito¹, Yoshiki Tokura¹
¹The Department of Dermatology, Hamamatsu University School of Medicine, Shizuoka, Japan, ²Laboratory of Pharmacotherapy of Life-style Related Diseases, Graduate School of Pharmaceutical Sciences, Tohoku University, Sendai, Japan
- P05-04 [C06-2] Ceramide reduction in stratum corneum of Neu-Laxova syndrome caused by phosphoglycerate dehydrogenase deficiency**
 ○ Takuya Takeichi¹, Akane Kawamoto², Eiko Nagamoto³, Chiaki Murase¹, Eri Shimizu⁴, Yuichi Kageshita³, Satoshi Fukushima³, Michihiro Kono¹, Junko Ishikawa², Hironobu Ihn³, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, ²Biological Science Research Laboratories, Kao Corporation, Haga, Tochigi, Japan, ³Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan, ⁴Analytical Science Research Laboratories, Kao Corporation, Haga, Tochigi, Japan

- P05-05 [C11-1] Increases in CAMP production during epidermal differentiation are regulated by changes in expression of sphingosine kinase 1 and 2**
○ Kyong-Oh Shin¹, Kun Pyo Kim², Yunhi Cho², Hiroko Ikushiro³, Takato Yano³, Walter M. Holleran⁴, Kyungho Park⁴, Yoshikazu Uchida⁴
¹Department of Food Science and Nutrition, Hallym University, Chuncheon, Korea, ²Department of Med. Nutrition, Kyung Hee University, Yongin, Korea, ³Department of Biochemistry, Osaka Medical College, ⁴Department of Dermatology, University of California, San Francisco, USA; Northern California Institute for Research and Education, Veterans Affairs Medical Center, San Francisco, USA
- P05-06 [C06-3] Three-dimensional electron microscopy imaging revealed extended tight junction structures across multiple layers of the stratum granulosum**
○ Yusuke Nagasawa¹, Satomi Igawa¹, Haruyo Yamanishi², Satoshi Kusumi³, Tsuyoshi Watanabe⁴, Daisuke Koga⁴, Akemi Ishida-Yamamoto¹
¹The Department of Dermatology, Asahikawa Medical University, Hokkaido, Japan, ²Shiseido Global Innovation Center, Yokohama, Japan, ³Division of Morphological Sciences, Kagoshima University Graduate School of Medicine and Dental Sciences, Kagoshima, Japan, ⁴Department of Microscopic Anatomy and Cell Biology, Asahikawa Medical University, Asahikawa, Japan
- P05-07 [C06-4] Enhanced lamellar granule biogenesis in the absence of loricin: a crosstalk between the brick and mortar**
○ Yosuke Ishitsuka¹, Tatsuya Ogawa¹, Dennis Roop², Akemi Ishida-Yamamoto³, Manabu Fujimoto⁴
¹Department of Dermatology, Faculty of Medicine, University of Tsukuba, ²Department of Dermatology and Charles C. Gates Center for Regenerative Medicine and Stem Cell Biology, ³Department of Dermatology, Asahikawa Medical College, ⁴Department of Dermatology, Osaka University
- P05-08 [C06-5] Interferon- γ downregulated the tight junction formation in a human skin equivalent model**
○ Yukiko Mizutani, Nao Takagi, Shintarou Inoue
Cosmetic Health Science, Gifu Pharmaceutical University
- P05-09 [C06-6] Hydrogen sulfide may modulate the itch of human atopic dermatitis through altered expression of nerve elongation factors**
○ Catharina Sagita Moniaga¹, Mitsutoshi Tominaga^{1,2}, Yayoi Kamata^{1,2}, Hideoki Ogawa¹, Kenji Takamori^{1,2,3}
¹Institute for Environmental and Gender-Specific Medicine, Graduate School of Medicine, Juntendo University, ²Anti-aging skin research laboratory, Juntendo University Graduate School of Medicine, ³Department of Dermatology, Juntendo University Urayasu Hospital
- P05-10 [C06-7] Scratching counteracts IL-13 signaling by upregulating the decoy receptor IL-13R α 2 in keratinocytes**
○ Dugarmaa Ulzii, Makiko Kido-Nakahara, Takeshi Nakahara, Gaku Tsuji, Kazuhisa Furue, Akiko Hashimo-Hachiya, Masutaka Furue
Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan
- P05-11 [O2-35] Effects of calcium and magnesium ions on aquaporin 3 expression in keratinocytes**
○ Akane Tanaka, Ryo Muko, Yosuke Amagai, Hiroshi Matsuda
Tokyo University of Agriculture and Technology
- P05-12 [O2-36] Loss of basal sweating responses at the folds in the finger as a potential mechanism for the development of hand eczema**
○ Tetsuko Sato, Chieko Katayama, Yuki Hayashida, Yumiko Asanuma, Yumi Aoyama
Department of dermatology, Kawasaki Medical School, Okayama, Japan
- P05-13 [O2-37] High concentration of glucose induces filaggrin-1 expression through activating AP-1 in human skin keratinocyte cultures**
○ Kiyoko Yamada^{1,2}, Masae Yamada³, Seijyo Wan³, Kenji Matsushita^{2,3}, Takuro Kanekura¹
¹The Department of Dermatology, Kagoshima University, Kagoshima, Japan, ²Department of Longevity Oral Science, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan, ³Department of Oral Disease Research, National Center for Geriatrics and Gerontology, Obu, Japan
- P05-14 [O2-38] Strange behavior of transglutaminase in the stratum corneum in disrupted barrier function**
○ Misaki Hirayama^{1,2}, Yukiko Izutsu¹, Yuki Yamashita¹, Nana Takayama², Hitoshi Masaki²
¹NIKKOL GROUP NIKODERM RESERCH INC., Osaka, Japan, ²Tokyo University of Technology, School of Bioscience and Biotechnology, Tokyo, Japan
- P05-15 [O2-39] Azidothymidine, thymidine analogue, suppresses IGF-1 induced lipogenesis in human immortalized sebocytes**
○ Jin Gwi Yoo¹, Chong Won Choi^{2,3}, Chang Deok Kim², Young Joon Seo^{2,3}, Young Lee^{2,3}, Kyung Eun Jung^{2,3}, Dong Kyun Hong^{2,3}
¹Department of Medical Science, Chungnam National University, Daejeon, Korea, ²Department of Dermatology, College of Medicine, Chungnam National University, Daejeon, Korea, ³Department of Dermatology, Chungnam National University Hospital, Daejeon, Korea
- P05-16 [O2-40] Effect of rapamycin on skin hydration in mouse model of tuberous sclerosis complex**
○ Weining Wang¹, Kiyoko Kato¹, Shinichiro Maeda², Makiko Koike-Kumagai¹, Kazuko Kitayama¹, Manabu Fujimoto¹, Mari Wataya-Kaneda¹
¹The Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka, Japan, ²Graduate School of Pharmaceutical Sciences Osaka University, Osaka, Japan

- P05-17 [O2-41] Effect of low-temperature argon plasma on wound healing**
 ○ Hae Young Kim, Gaurav Agrahari, Won Kook Ham, Lee Jung Tak, Tae Yoon Kim
 Laboratory of Dermato-immunology, The Catholic University of Korea, Seoul, South Korea
- P05-18 [O2-42] Phenotype/genotype correlations in two pedigrees with epidermolytic ichthyosis**
 ○ Yuya Murase¹, Kana Tanahashi¹, Takuya Takeichi¹, Michihiro Kono¹, Kazumitsu Sugiura², Akiteru Aiyama³, Keigo Nishida³, Teruyuki Mitsuma³, Katsuko Kikuchi⁴, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, ²Department of Dermatology, Fujita Health University Graduate School of Medicine, Nagoya, ³Department of Dermatology, Ichinomiya Municipal Hospital, ⁴Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai
- P05-19 [O2-43] The pH-dependent morphological changes in HaCaT keratinocytes**
 ○ Mao Muto, Yohei Hirai
 The Department of Biomedical Chemistry, Science and Technology, Kwansai Gakuin University, Hyogo, Japan
- P05-20 [O2-44] Histopathological clues in distinguishing palmoplantar pustulosis from pompholyx**
 ○ Kana Kuroki¹, Masamoto Murakami², Mari Kishibe³, Noriko Umegaki⁷, Satomi Kobayashi⁴, Toshiyuki Yamamoto⁵, Tadashi Terui⁶, Yukari Okubo¹
¹Department of Dermatology, Tokyo Medical University, Tokyo, Japan, ²Department of Dermatology, Ehime University Graduate School of Medicine, ³Department of Dermatology, Asahikawa Medical University, ⁴Department of Dermatology, Seibo Hospital, ⁵Department of Dermatology, Fukushima Medical University, ⁶Department of Dermatology, Nihon University School of Medicine, ⁷Tokyo Women's Medical University Medical Center East
- P05-21 [O2-45] The effect of dermal microscopic parameters on the optical skin properties: the analysis using crossed polarized light imaging on cadavers**
 ○ Hyo Hyun Ahn¹, Ji Hyuck Hong¹, Dai Hyun Kim², Im Joo Rhyu², Young Chul Kye¹
¹Department of Dermatology, Korea University College of Medicine, Seoul, Korea, ²Department of Anatomy, Korea University College of Medicine
- P05-22 [O2-46] Alpha-tocopherol fatty acid ester prevents dysfunction of epidermal barrier induced in higher oxidation condition**
 Yuto Miyaguchi¹, ○ Hajime Tamura¹, Hitoshi Masaki²
¹MITSUBISHI-CHEMICAL FOODS CORPORATION, ²Photoaging Research Laboratory, School of Bioscience and Biotechnology, Tokyo University of Technology

Category 6 (P06): Epidemiology/Health Service Research

- P06-01 [C02-6] Identification of herpes zoster high-risk group using Charlson comorbidity index: A nationwide retrospective cohort study**
 ○ Soo Ick Cho¹, Dong Hun Lee¹, Young Min Park²
¹Department of Dermatology, Seoul National University College of Medicine, Seoul, Republic of Korea, ²Department of Dermatology, Seoul St Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea
- P06-02 [C02-7] Skin signs related to morbid obesity: Changes after bariatric surgery**
 ○ Pawinee Rerknimitr, Yada Suphankong, Pravit Asawanonda
 Division of Dermatology, Chulalongkorn University, Bangkok, Thailand
- P06-03 [O3-01] The overall survival of anti-IL-17 antibodies and the cause of discontinuation in Japanese psoriatic patients**
 ○ Takuya Miyagi, Yu-ichi Yamamoto, Kenzo Takahashi
 Department of Dermatology, University of the Ryukyus Graduate School of Medicine
- P06-04 [O3-02] Incidence and trends of skin tumors in South Korea from 2008 to 2016: A nation-wide population based study**
 ○ Kyungduck Park¹, Jung Min Bae², Kee Yang Chung³, Sook Jung Yun⁴, Joung Soo Kim⁵, Soo Hong Seo⁶, Hyo Hyun Ahn⁶, Dong-Youn Lee⁷, Heesu Kim⁸, Byung Cheol Park⁹
¹Department of Dermatology, Kyungpook National University School of Medicine, Daegu, Korea, ²St Vincent's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea, ³Yonsei University College of Medicine, Seoul, Korea, ⁴Chonnam National University School of Medicine, Gwangju, Korea, ⁵Hanyang University College of Medicine, Guri, Korea, ⁶Korea University College of Medicine, Seoul, Korea, ⁷Sungkyunkwan University School of Medicine, Seoul, Korea, ⁸Catholic Kwandong University College of Medicine, Incheon, Korea, ⁹Dankook University College of Medicine, Cheonan, Korea
- P06-05 [O3-03] Dermatologist and patient perceptions of treatment success in Alopecia Areata and evaluation of clinical outcome assessments in Japan**
 Helen Kitchen¹, Jake Macey¹, Natalie V.J, Aldhouse¹, Sarah Knight¹, Kathleen W. Wyrwich², Russel T. Burge², Yves Dutronc², Hitoe Torisu-Itakura³, ○ Yoshitaka Isaka³
¹Clinical Outcomes Assessment, DRG Abacus, Manchester, United Kingdom, ²Eli Lilly and Company, Indianapolis, IN, United States, ³Medicine Development Unit, Eli Lilly Japan K.K., Kobe, Japan
- P06-06 [O3-04] Withdrawn**

P06-07 Awareness & Measures to contain leishmaniasis in Pakistan

[O3-05]

○ Usma Iftikhar, Abdul Quddus Butt
Dermatology Department, Rawalpindi Medical University, Pakistan

Category 7 (P07): Genetic Disease/Gene Regulation and Gene Therapy

P07-01 Single cell RNA- and ATAC-seq analyses in a murine model of dystrophic epidermolysis bullosa

[II-5]

○ Takashi Shimbo¹, Sho Yamazaki^{1,2}, Tomomi Kitayama^{1,2}, Yuya Ouchi^{1,2}, Ryoma Yamamoto^{1,2}, Eiichi Takaki^{1,2}, Leena Bruckner-Tuderman³, Jouni Uitto⁴, Yasufumi Kaneda⁵, Katsuto Tamai¹
¹Department of Stem Cell Therapy Science, Graduate School of Medicine, Osaka University, Osaka, Japan, ²StemRIM Co., Ltd., ³Department of Dermatology, Faculty of Medicine, University of Freiburg, ⁴Department of Dermatology and Cutaneous Biology, Sidney Kimmel Medical College, Thomas Jefferson University, ⁵Division of Gene Therapy Science, Graduate School of Medicine, Osaka University

P07-02 Clonal expansion of second-hit cells in MVD c.746C>T mutant heterozygotes are the major cause of porokeratosis in Japan

[C10-1]

○ Akiharu Kubo¹, Takashi Sasaki², Hisato Suzuki³, Aiko Shiohama¹, Satomi Aoki¹, Tomoko Kawai⁴, Kazuhiko Nakabayashi¹, Kenichiro Hata⁴, Kenjiro Kosaki⁵, Masayuki Amagai¹
¹Department of Dermatology, Keio University, Tokyo, ²Center for Supercentenarian Medical Research, Keio University, Tokyo, ³Center for Medical Genetics, Keio University, Tokyo, ⁴National Center for Child Health and Development, Tokyo

P07-03 Somatic recombination underlies frequent revertant mosaicism in lorincrin keratoderma

[C10-2]

○ Toshifumi Nomura¹, Shotaro Suzuki¹, Toshihiko Miyauchi¹, Masae Takeda¹, Yasuyuki Fujita¹, Wataru Nishie¹, Masashi Akiyama², Akemi Ishida-Yamamoto³, Hiroshi Shimizu¹
¹Department of Dermatology, Faculty of Medicine and Graduate School of Medicine Hokkaido University, Sapporo, Japan, ²Department of Dermatology, Nagoya University Graduate School of Medicine, ³Department of Dermatology, Asahikawa Medical University

P07-04 Permanent alteration of Abcc6 with in vivo CRISPR-Cas9 genome editing

[C10-3]

○ Dalong Zhi, Erle Dang, Gang Wang
Department of Dermatology, Xijing Hospital, Xi'an, Shaanxi, China

P07-05 Frameshift mutations in different exons of Col17a1 lead to distinctive phenotype of junctional epidermolysis bullosa model mice

[C10-4]

○ Hong Ha Nguyen¹, Satoru Shikuma¹, Osamu Ansai¹, Yudai Kabata¹, Shota Takashima², Masashi Mori³, Masahito Ikawa³, Hiroshi Shimizu², Riichiro Abe¹
¹Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, ²Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, ³Department of Experimental Genome Research, Genome Information Research Center, Osaka University, Osaka, Japan

P07-06 Identification and characterization of a novel large duplication spanning exons 8-16 of ATP2C1 in a family with Hailey-Hailey disease

[C10-5]

○ Kwesi Teye¹, Hiroshi Koga², Mikio Ichiki², Mitsuhiro Matsuda², Chika Ohata², Norito Ishii², Takahiro Hamada², Takekuni Nakama²
¹Kurume University Institute of Cutaneous Cell Biology, ²Department of Dermatology, Kurume University School of Medicine

P07-07 The role of heterochromatin in the accelerated ageing syndrome progeria

[C10-6]

○ Oliver Dreesen¹, Peh Fern Ong¹, Alexandre Chojnowski², Mattheus XR Foo^{1,2}, Louis Peter Hor¹
¹Skin Research Institute of Singapore, ²Nanyang Technological University, Singapore, ³Institute of Medical Biology, Singapore

P07-08 Clinical characterization of hereditary angioedema due to a plasminogen mutation

[O3-06]

○ Georg Dewald
Institute for Molecular and Preventive Medicine, Koblenz, Germany

P07-09 A novel frameshift mutation in KRT14 causes epidermolysis bullosa simplex: therapeutic experience with topical mTOR inhibitor

[O3-07]

○ Mari Kishibe¹, Risa Matsuo¹, Masako Minami-Hori¹, Masaru Honma¹, Akiharu Kubo², Akemi Ishida-Yamamoto¹
¹Department of Dermatology, Asahikawa Medical University, Asahikawa, Japan, ²Department of Dermatology, Keio University School of Medicine, Tokyo, Japan

P07-10 A case of congenital generalized lipodystrophy with dyschromia caused by a heterozygous recurrent mutation of LMNA gene

[O3-08]

○ Takenao Chino¹, Noritaka Oyama¹, Akira Utsunomiya¹, Natsuko Utsunomiya¹, Minoru Hasegawa¹, Akiharu Kubo²
¹Departments of Dermatology, Faculty of Medical Sciences, University of Fukui, Fukui, ²Department of Dermatology, Keio University School of Medicine, Tokyo, Japan

P07-11 Single nucleotide polymorphisms of aldo-keto reductase 1C3 in Japanese psoriasis patients

[O3-09]

Yuka Nojiri¹, ○ Motoki Nakamura¹, Emi Nishida¹, Kyoko Ikumi¹, Kan Torii¹, Thomas Haarmann-Stemann², Akimichi Morita¹
¹Department of Geriatric and Environmental Dermatology, ²IUF-Leibniz Research Institute for Environmental Medicine

- P07-12 [O3-10] Lipid mediator profiles of pachydermoperiostosis**
 ○ Takashi Nomura¹, Tomohiro Oiwa¹, Takayoshi Komatsu-Fujii¹, Hironori Niizeki², Mai Ohba³, Toshiaki Okuno³, Takehiko Yokomizo³, Kenji Kabashima¹
¹Department of Dermatology, Kyoto University, Kyoto, Japan, ²Division of Dermatology, Department of Surgical Subspecialties, National Center for Child Health and Development, ³Department of Biochemistry, Juntendo University School of Medicine
- P07-13 [O3-11] Highly prevalent *LIPH* founder mutation causes pseudo-dominant inheritance pattern in autosomal recessive woolly hair/hypotrichosis in Japan**
 ○ Tomoki Taki, Kana Tanahashi, Takuya Takeichi, Masashi Akiyama
 The Department of Dermatology, University of Nagoya, Aichi, Japan
- P07-14 [O3-12] A heterozygous duplication variant in *SERPINB7* might be a possible genetic modifying factor for epidermolytic palmoplantar keratoderma**
 ○ Takenori Yoshikawa¹, Takuya Takeichi¹, Tomoo Ogi², Yasushi Suga³, Masashi Akiyama¹
¹The Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, ²Department of Genetics, Research Institute of Environmental Medicine, Nagoya University, ³Department of Dermatology, Juntendo University Urayasu Hospital
- P07-15 [O3-13] Whole-exome sequencing facilitated genetic diagnosis of a patient with dystrophic epidermolysis bullosa**
 ○ Yasutoshi Ito¹, Takuya Takeichi¹, Ken Natsuga², Hideki Nakamura², Tomoo Ogi³, Masashi Akiyama¹
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, ²Department of Dermatology, Hokkaido University Faculty of Medicine and Graduate school of Medicine, Sapporo, Japan, ³Department of Genetics, Research Institute of Environmental Medicine, Nagoya University, Nagoya, Japan
- P07-16 [O3-14] Novel cathepsin C mutation p.G430V in a patient with Papillon-Lefèvre syndrome**
 ○ Akari Sakai¹, Satoru Shinkuma¹, Mahoko Oginezawa¹, Mami Nakajima¹, Akemi Nakamura², Riichiro Abe¹
¹Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, ²Shindori Akemi Dermatology Clinic, Niigata, Japan

Category 8 (P08): Tissue Regeneration/Stem Cell and Wound Healing

- P08-01 [III-3] FoxO3a plays roles in the wound healing by regulating mitochondrial dynamics**
 ○ Mariko Moriyama, Hiroki Kiriya, Takao Hayakawa, Hiroyuki Moriyama
 Pharmaceutical Research and Technology Institute, Kindai University, Osaka, Japan
- P08-02 [C04-1] Mechanistic insight into the development of pressure ulcers in zinc deficiency mice**
 ○ Akiko Sekiguchi¹, Hideharu Nakamura³, Youichi Ogawa², Tatsuyoshi Kawamura², Takaya Makiguchi³, Satoshi Yokoo³, Osamu Ishikawa¹, Sei-ichiro Motegi¹
¹Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi, Japan, ²Department of Dermatology, Faculty of Medicine, University of Yamanashi, Chuo, Japan, ³Department of Oral and Maxillofacial Surgery, and Plastic Surgery, Gunma University Graduate School of Medicine
- P08-03 [C10-7] IL-36 receptor antagonist (IL36Ra) deficiency resulted in delayed wound healing due to excessive neutrophil infiltration**
 ○ Kenta Saito¹, Yohei Iwata¹, Hidehiko Fukushima¹, Soichiro Watanabe¹, Masashi Akiyama², Kazumitsu Sugiura¹
¹Department of Dermatology, Fujita Health University School of Medicine, Aichi, Japan, ²Department of Dermatology, Nagoya University Graduate School of Medicine, Aichi, Japan
- P08-04 [C04-2] Effects of AMP-IBP5, an antimicrobial peptide derived from insulin-like growth factor-binding protein 5 on diabetic wound healing**
 ○ Hai N Yue^{1,2}, Francois Niyonsaba^{2,3}, Yoshie Umehara², Valentin Trujillo², Ko Okumura², Shigaku Ikeda¹, Hideoki Ogawa²
¹Department of Dermatology and Allergology, Juntendo University, Tokyo, Japan, ²Atopy (Allergy) Research Center, Juntendo University, Tokyo, Japan, ³Faculty of International Liberal Arts, Juntendo University, Tokyo, Japan
- P08-05 [C04-3] Hair follicle stem cell niche fate during growth, pigmentation and ageing**
 ○ Carlos Clavwl
 A*Star Skin Research Institute Singapore (SRIS), Singapore
- P08-06 [C04-4] Preventive regulation for the development of pressure ulcers by apelin/APJ signaling**
 ○ Sahori Yamazaki, Akiko Sekiguchi, Akihiko Uchiyama, Yuta Inoue, Chisako Fujiwara, Osamu Ishikawa, Sei-ichiro Motegi
 The Department of Dermatology, University of Gunma, Gunma, Japan
- P08-07 [C04-5] Differential therapeutic effects between mesoderm-like and neuroepithelium-like cells of mesenchymal stem cells derived from human iPS cells**
 ○ Mizuki Goto¹, Takumi Era², Yutaka Hatano¹
¹The Department of Dermatology, Faculty of Medicine, Oita University, Yufu, Japan, ²The Department of Cell Modulation, Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan

- P08-08 [C04-6] Cutaneous nerves are involved in human skin elasticity**
○ Moe Tsutsumi, Kazuki Takagaki, Sanae Nomiyama, Kentaro Kajiya
Shiseido Global Innovation Center
- P08-09 [O3-15] RNAseq analysis of human skin model recapitulates systemic sclerosis identifies Collagen 22A1 as a TGFβ early response gene**
○ Tomoya Watanabe^{1,2}, DeAnna Baker Frost², Logan Mlakar², Jonathan Heywood², Willian A. da Silveira³, Gary Hardiman^{3,4}, Carol Feghali-Bostwick²
¹Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, Yokohama, Japan, ²Division of Rheumatology & Immunology, Department of Medicine, Medical University of South Carolina, Charleston, South Carolina, USA, ³Center for Genomic Medicine, Bioinformatics, Medical University of South Carolina, Charleston, South Carolina, USA, ⁴Departments of Medicine and Public Health Sciences, Medical University of South Carolina, Charleston, South Carolina, USA
- P08-10 [O3-16] In vivo selective removal of the epidermis unveils the dynamics of epithelial wound healing**
○ Yu Fujimura¹, Ken Natsuga¹, Mika Watanabe^{1,2}, Hiroaki Iwata¹, Wataru Nishie¹, Hideki Nakamura¹, Masaharu Nagayama^{3,4}, Giacomo Donati², Hiroshi Shimizu¹
¹Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, ²Department of Life Sciences and Systems Biology, Molecular Biotechnology Centre, University of Turin, Turin, Italy, ³Research Institute for Electronic Science, Hokkaido University, Sapporo, Japan, ⁴Japan Science and Technology Agency, CREST, Kawaguchi, Japan
- P08-11 [C04-7] Skin regeneration using “off the shelf” dermal matrices: A comparative study in mice**
Ilia Banakh¹, Perdita Cheshire¹, Md. Mostafizur Rahman¹, Irena Carmichael², Heather Cleland¹, ○ Shiva Akbarzadeh¹
¹The Alfred, ²Monash University, Commercial Road, Melbourne, Victoria, Australia
- P08-12 [O3-17] Targeting the TSLP-induced signaling pathway to inhibit further inflammation and fibrosis**
○ Jung U Shin¹, A-Ram Kim¹, Suji Sohn¹, Juhee Lee², Seo Hyeong Kim², Hyeran Kim², Dong Hyun Kim¹, Moon Soo Yoon¹, Hee Jung Lee¹
¹Department of Dermatology, CHA Bundang Medical Center, CHA University, Seongnam, Korea., ²Department of Dermatology, Yonsei University College of Medicine, Seoul, Korea
- P08-13 [O3-18] Fibroblast growth factor 2 enhances epithelial mesenchymal transition on keratinocytes during wound healing process**
○ Yuta Koike, Mariko Yozaki, Hiroyuki Murota
Department of Dermatology, Nagasaki University Graduate School of Biomedical Sciences
- P08-14 [O3-19] Peroxiredoxin 4 (PRDX4) prevents age-related delayed wound healing**
○ Reimon Yamaguchi¹, Xin Guo², Jianbo Zheng², Ken-ichi Mizutani², Motona Kumagai², Akihiro Shioya², Nozomu Kurose², Akiko Nishibu¹, Takashi Mochizuki¹, Sohsuke Yamada²
¹The Department of Dermatology, Kanazawa Medical University, Ishikawa, Japan, ²Department of Pathology and Laboratory Medicine, Kanazawa Medical University
- P08-15 [O3-20] Regulation of tight junctions and differentiation markers in keratinocytes by calcitriol in diabetes**
○ Valentin Trujillo¹, Yoshie Umehara¹, Ko Okumura¹, Francois Niyonsaba^{1,2}
¹Atopy(Allergy) Research Center, Juntendo University, Tokyo, Japan, ²Faculty of International Liberal Arts, Juntendo University, Tokyo, Japan
- P08-16 [O3-21] Effects of antimicrobial peptide human β-defensin-3 on wound healing**
○ Yoshie Umehara¹, Nutda Sutthammikorn¹, Pu Song¹, Yue Hainan¹, Ko Okumura¹, Hideoki Ogawa¹, François Niyonsaba^{1,2}
¹Atopy (Allergy) Research Center, Juntendo University School of Medicine, Tokyo, Japan, ²Faculty of International Liberal Arts, Juntendo University, Tokyo, Japan
- P08-17 [O3-22] Adipose-derived stromal/stem cells improve epidermal homeostasis**
○ Hiroki Kiriya¹, Mariko Moriyama¹, Shunya Sahara², Kaori Zaiki², Ayumi Ueno², Koichi Nakaoji², Kazuhiko Hamada², Toshiyuki Ozawa³, Daisuke Tsuruta³, Takao Hayakawa¹, Hiroyuki Moriyama¹
¹Pharmaceutical Research and Technology Institute, Kindai University, Osaka, Japan, ²Research and Development Division, PIAS Corporation, Hyogo, Japan, ³Department of Dermatology, Graduate School of Medicine, Osaka City University, Osaka, Japan
- P08-18 [O3-23] Hair follicle-associated pluripotent (HAP) stem cells can differentiate to dopaminergic neurons**
○ Yuko Hamada¹, Koya Obara¹, Kyoumi Shirai¹, Sumiyuki Mii¹, Ryoichi Aki¹, Ayami Haruki¹, Nobuko Arakawa¹, Robert M. Hoffman^{2,3}, Yasuyuki Amoh¹
¹Department of Dermatology Kitasato University School of Medicine, ²Anti Cancer, Inc., San Diego, CA, ³Department of Surgery, University of California San Diego, CA
- P08-19 [O3-24] Effects of adipose-derived stem cells differentiated into keratinocyte-like cells on wound healing**
○ Jonghun Kim¹, Toshio Hasegawa¹, Akino Wada¹, Yuichiro Maeda¹, Shigaku Ikeda^{1,2}
¹Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, Japan, ²Atopy Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan

P08-20 **A novel angiogenic factor Ninjurin-1 is upregulated in pericytes during skin wound healing**

[O3-25]

○ Risa Matsuo, Mari Kishibe, Shin Iinuma, Mizue Fujii, Masaru Honma, Akemi Ishida-Yamamoto
The Department of Dermatology, Asahikawa Medical University, Hokkaido, Japan

Category 9 (P09): Hair and Cutaneous Development**P09-01** **Plasmacytoid dendritic cells as a possible initiator of alopecia areata in the C3H/HeJ mouse**

[I-3]

○ Taisuke Ito¹, Takahiro Suzuki², Jun-ichi Sakabe³, Atsuko Funakoshi¹, Toshiharu Fujiyama¹, Yoshiki Tokura¹
¹Department of Dermatology, Hamamatsu University School of Medicine, ²Department: Dermatology and Cutaneous Surgery, University of Miami Miller School of Medicine, ³Agency for Science, Technology and Research, Singapore

P09-02 **Ahed is involved in proliferation and differentiation of epidermal keratinocytes**

[C12-1]

○ Mikiro Takaishi¹, Tatsushi Ishimoto¹, Masahiro Tokunaga², Chikara Kokubu², Junji Takeda², Shigetoshi Sano¹
¹Department of Dermatology, Kochi Medical School, Kochi University, ²Department of Genome Biology, Graduate School of Medicine, Osaka University

P09-03 **Microsatellite GWAS, risk haplotype sequencing and allele-specific genome editing reveal cchcr1 as a susceptibility gene for alopecia areata**

[C12-2]

○ Shigaku Ikeda^{1,2}, Atsushi Takagi¹, Etsuko Komiyama¹, Nagisa Yoshihara¹, Tomotaka Mabuchi³, Asako Otomo⁴, Masato Ohtsuka⁴, Akira Oka⁵
¹Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, ²Atopy Research Center, Juntendo University Graduate School of Medicine, Tokyo, ³Department of Dermatology, Tokai University School of Medicine, Kanagawa, ⁴Department of Molecular Life Sciences, Division of Basic Medical Science and Molecular Medicine, Tokai University School of Medicine, Kanagawa, ⁵The Institute of Medical Sciences, Tokai University, Kanagawa

P09-04 **Attempts to regenerate human hair follicle structure in vitro by three-dimensionally assembling tissue- and iPSC cell-derived cell composites**

[C12-3]

○ Masahiro Fukuyama, Aki Tsukashima, Momoko Kimishima, Yoshimi Yamazaki, Manabu Ohyama
The Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo, Japan

P09-05 **Topological transformation reveals a simplified 2-dimensional healing strategy to repair 3-dimensional injury in hair follicles**

[C12-4]

○ Yueh-Feng Wu¹, Yao-Wen Hsu¹, Suet Yee Tee¹, Wen-Hen Huang¹, Chin-Lin Guo², Sung-Jan Lin^{1,3}
¹Department of Biomedical Engineering, National Taiwan University, Taipei, Taiwan, ²Institute of Physics, Academia Sinica, Taipei, Taiwan, ³Department of Dermatology, National Taiwan University Hospital and College of Medicine, Taipei, Taiwan

P09-06 **Water avoidance stress test on Cchcr1 knockout mice induces alopecia areata phenotype**

[C12-5]

○ Nagisa Yoshihara¹, QiaoFeng Zao¹, Atsushi Takagi¹, Etsuko Komiyama¹, Tomotaka Mabuchi¹, Akira Oka¹, Shigaku Ikeda¹
¹Department of Dermatology and Allergology, and Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan, ²Department of Dermatology, Tokai University School of Medicine, Isehara, Kanagawa, Japan, ³The Institute of Medical Sciences, Tokai University, Isehara, Kanagawa, Japan

P09-07 **Identification of genes which determine site-specific skin feature through anatomical profiling of homeobox transcription factors expression**

[C12-6]

○ Daisuke Utsumi¹, Aoi Ohira¹, Takuya Omine¹, Masahito Yasuda², Kenzo Takahashi¹
¹Department of Dermatology, University of the Ryukyus Graduate School of Medicine, ²Department of Dermatology, Gunma University Graduate School of Medicine

P09-08 **PPAR γ signaling protects from hair follicle bulge stem cell damage and cyclophosphamide-induced hair follicle cytotoxicity**

[C12-7]

Ilaria Piccini¹, Jèrèmy Chèret², Sushmita Ghatak¹, Majid Alam³, Jonathan Hardman⁴, Hanieh Erdmann⁵, Francisco Jimenez², Chris Ward¹, ○ Yoshikazu Uchida¹, Ralf Paus^{2,4}, Marta Bertolini¹
¹Monasterium Laboratory GmbH, Münster, Germany, ²University of Miami Miller School of Medicine, Miami, FL, USA, ³Mediteknia Skin & Hair Lab, Las Palmas de Gran Canaria, Spain, ⁴University of Manchester, Manchester, United Kingdom, ⁵Clinica Joelle, Dubai, United Arab Emirates

P09-09 **Roles of mature adipocytes in human hair growth**

[O2-47]

○ Jotaro Nakanishi¹, Hideharu Kuratomi²
¹Shiseido Global Innovation Center, Yokohama, Japan, ²Medical Plaza Ichikawa Station, Ichikawa, Japan

P09-10 **Non-thermal atmospheric pressure plasma activates Wnt-b-Catenin signaling in dermal papilla cells**

[O2-48]

○ Ji-Hye Hwang¹, Hyun-Young Lee^{2,3}, Hae June Lee², Jino Kim⁴, Kiwon Song⁵, Do-Young Kim¹
¹Department of Dermatology and Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, Korea, ²Department of Electrical Engineering, Pusan National University, Pusan, Korea, ³Research & Development Team, Feagle Co., Ltd, Yangsan, Korea, ⁴New Hair Institute, Seoul, Korea, ⁵Department of Biochemistry, College of Life Science and Biotechnology, Yonsei University, Seoul, Korea

- P09-11 [O2-49]** **Development of a novel humanized model for the investigation of sensory nervous system in scalp skin *ex vivo***
○ Jèrèmy Chèret¹, Ilaria Piccini², Leslie Ponce², Yoshikazu Uchida², Marta Bertolini², Ralf Paus¹
¹Dermatology, University of Miami Miller School of Medicine, Miami, FL, USA, ²Monasterium Laboratory GmbH, Muenster, Germany
- P09-12 [O2-50]** **An apple stem cell-derived extract expands the number of epithelial stem cells in the human hair follicle bulge**
○ Markus Fehrholz¹, Franziska Wandrey², Ilaria Piccini¹, Jennifer Gherardini¹, Majid Alam³, Ewan A. Langan⁴, Hanieh Erdmann⁵, Francisco Jimenez³, Daniel Schmid², Yoshikazu Uchida¹, Marta Bertolini^{1,6}
¹Monasterium Laboratory GmbH, Münster, Germany, ²Mibelle Group Biochemistry, Buchs, Switzerland, ³Meditekna Skin & Hair Lab, Las Palmas de Gran Canaria, Spain, ⁴Department of Dermatology, University of Luebeck, Luebeck, Germany, ⁵Kosmed Klinik, Hamburg, Germany, ⁶University of Miami Miller School of Medicine, Miami, FL, USA
- P09-13 [O2-51]** **Expression of the Hippo signaling effectors LATS1/2, P-YAP, YAP and TAZ in Pilomatricoma**
○ Ga Hee Jeong¹, Gue Tae Moon¹, Hyo Jung Kim², Ji Hyun Lee²
¹Department of Biomedicine & Health Sciences, Brain Korea 21 PLUS Project for Medical Sciences, The Catholic University of Korea, Seoul, Republic of Korea, ²Department of Dermatology, Seoul St. Mary's Hospital, Brain Korea 21 PLUS Project for Medical Sciences, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea
- P09-14 [O2-52]** **Clinical relevance for serum Cold-inducible RNA-binding protein level in alopecia areata**
○ Jungwoo Ko
Department of Dermatology, School of Medicine, Chungnam National University, Daejeon, Korea
- P09-15 [O2-53]** **Analysis of sex steroid hormone receptors in acquired idiopathic generalized anhidrosis**
○ Takeshi Yanagishita, Yuichiro Ohshima, Hiroyuki Takama, Yasuhiko Tamada, Daisuke Watanabe
Department of Dermatology, Aichi Medical University School of Medicine, Aichi, Japan

Category 10 (P10): Immunology 1: Adaptive Immunity

- P10-01 [II-1]** **Pellino-1 facilitates psoriatic inflammation by activating IL-17-producing T cells**
○ Tae-Gyun Kim¹, Sung Hee Kim², Jeyun Park^{2,3}, Jungeun Shim⁴, Jong Hoon Kim⁵, Jongwook Oh², Soo Min Kim⁶, Seung Yong Song⁷, Heung Kyu Lee⁸, Ho Lee⁹, Min-Geol Lee^{3,3}
¹Department of Microbiology and Immunology, Department of Dermatology, Severance Hospital, Yonsei University College of Medicine, Seoul, South Korea, ²Department of Dermatology, Severance Hospital, Yonsei University College of Medicine, Seoul, Korea, ³Brain Korea 21 PLUS Project for Medical Science, Yonsei University College of Medicine, Seoul, Korea, ⁴Yonsei Genomics Center, Yonsei Biomedical Research Institute, Yonsei University College of Medicine, Seoul, Korea, ⁵Department of Dermatology, Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, Korea, ⁶Department of Dermatology, National Health Insurance Service Ilsan Hospital, Goyang, Korea, ⁷Department of Plastic Surgery, Severance Hospital, Yonsei University College of Medicine, Seoul, Korea, ⁸Graduate School of Medical Science and Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea, ⁹Graduate School of Cancer Science and Policy, National Cancer Center, Gyeonggi, Korea
- P10-02 [II-4]** **Retention of CD4⁺ resident memory T cells through colocalization with CD301b⁺ dendritic cells in a murine DTH model**
○ Ryota Asahina, Gyohei Egawa, Kenji Kabashima
The Department of Dermatology, Graduate School of Medicine, Kyoto University, Kyoto, Japan
- P10-03 [C03-1]** **Remained diversity and function in older individuals in skin T cell**
○ Hanako Koguchi-Yoshioka^{1,2}, Elena Hoffer³, Stanley Cheuk³, Yutaka Matsumura², Sa Vo², Yoshiyuki Nakamura², Yosuke Ishitsuka², Naoko Okiyama², Yasuhiro Fujisawa², Manabu Fujimoto^{1,2}, Liv Eidsmo³, Rachael A Clark⁴, Rei Watanabe²
¹The Department of Dermatology, Osaka University, Osaka, Japan, ²The Department of Dermatology, University of Tsukuba, Tsukuba, Japan, ³The Department of Medicine Solna, Karolinska Institutet, Solna, Sweden, ⁴The Department of Dermatology, Brigham and Women's Hospital, Boston, USA
- P10-04 [C03-2]** **Foxp3⁺ regulatory T cells inactivate peripheral tolerance against autoreactive CD4⁺ T cells and CD8⁺ T cells differently**
○ Toshiya Miyake, Gyohei Egawa, Kenji Kabashima
Department of Dermatology, Kyoto University Graduate school of Medicine, Kyoto, Japan
- P10-05 [C03-3]** **Attenuation of murine sclerodermatous models by the selective S1P₁ receptor modulator cenerimod**
○ Miyu Kano¹, Tadahihiro Kobayashi¹, Mutsumi Date¹, Momoko Tennichi¹, Yasuhito Hamaguchi¹, Daniel S Strasser², Kazuhiko Takehara¹, Takashi Matsushita¹
¹The Department of Dermatology, University of Kanazawa, Kanazawa, Japan, ²Idorsia Pharmaceuticals Ltd., Drug Discovery, Allschwil, Switzerland
- P10-06 [C03-4]** **Identification of epidermal resident regulatory CD4⁺ T cells**
○ Youichi Ogawa¹, Takuya Sato¹, Manao Kinoshita¹, Rei Watanabe², Shinji Shimada¹, Tatsuyoshi Kawamura¹
¹Department of Dermatology, Faculty of Medicine, University of Yamanashi, Yamanashi, Japan, ²Department of Dermatology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan

- P10-07 [C03-5] TBK1 signaling in bone marrow-derived cells negatively regulates contact hypersensitivity by suppressing antigen sensitization**
 ○ Yuri Nakano, Teruki Dainichi, Sho Hanakawa, Kenji Sakurai, Reiko Matsumoto, Masayuki Otsuka, Mostafa Alshimaa, Kenji Kabashima
 Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan
- P10-08 [C03-6] The Keap1/Nrf2 system is an initiator of atopic sensitization**
 ○ Tatsuya Ogawa¹, Yosuke Ishitsuka¹, Yasushi Suga², Manabu Fujimoto³
¹Department of Dermatology, Faculty of Medicine, University of Tsukuba, Tsukuba, Japan, ²Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu, Japan, ³Department of Dermatology, Course of Molecular Medicine, Graduate School of Medicine, Osaka University, Osaka, Japan
- P10-09 [C03-7] Distinct roles of programmed cell death ligands 1 and 2 based on the type of immunity**
 ○ Ryota Tanaka¹, Yuki Ichimura¹, Noriko Kubota¹, Manabu Fujimoto², Naoko Okiyama¹
¹Department of Dermatology, University of Tsukuba, ²Department of Dermatology, Course of Integrated Medicine, Graduate School of Medicine, Osaka University
- P10-10 [O3-26] Treg cells suppress the psoriasis-like skin inflammation in imiquimod-induced psoriasis-like mousemodel**
 Chong Won Choi^{1,2}, ○ Seoyun Yang^{1,2}, Seungkeol Yang^{1,2}, Bo Ri Kim^{1,2}, Sang Woong Youn^{1,2}
¹Department of Dermatology, Seoul National University College of Medicine, Seoul, Korea, ²Department of Dermatology, Seoul National University Bundang Hospital, Seoul National University College of Medicine, Seongnam, Korea
- P10-11 [O3-27] Intravital imaging of keratinocyte apoptosis mediated by antigen-specific CD8+ T cells in a GVHD-like murine model**
 ○ Hui Mei Cheng^{1,2}, Tetsuya Honda², Jun-ichi Sakabe³, Yoshiki Tokura³, Kenji Kabashima²
¹National Skin Centre, Singapore, ²Department of Dermatology, Kyoto University, Japan, ³Department of Dermatology, Hamamatsu University School of Medicine, Japan
- P10-12 [O3-28] Comparison of susceptibility to sensitization between skin and vaginal mucosa in contact allergy**
 ○ Kanako Nakayama, Taku Nishijo, Masaaki Miyazawa, Hitoshi Sakaguchi
 Safety Science Research, Kao Corporation, Tochigi, Japan
- P10-13 [O3-29] IL-17 prevents regulatory T cells-mediated suppression of CD4⁺ T cells in psoriasis**
 ○ Luting Yang, Yanghe Liu, Chen Zhang, Gang Wang
 Department of Dermatology, Xijing Hospital, Xi'an, China
- P10-14 [O3-30] Diagnosis of Dioscorea Japonica (Japanese yam) allergy by immunoblot analysis**
 ○ Usho Go, Kazunori Miyata, Masaru Fujita, Tsuyoshi Mitsuishi
 The Department of Dermatology, Tokyo Women's Medical University Yachiyo Medical Center, Chiba, Japan
- P10-15 [O3-31] Contribution of Notch signaling to the sustained unresponsiveness to food allergens achieved by oral immunotherapy**
 ○ Nobuhiro Nakano¹, Toshiyuki Yoneyama², Jiro Kitaura¹, Toshiaki Shimizu^{1,2}, Ko Okumura¹, Hideoki Ogawa^{1,3}, Shigaku Ikeda^{1,3}
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan, ²Department of Pediatrics and Adolescent Medicine, Juntendo University Graduate School of Medicine, Tokyo, Japan, ³Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, Japan
- P10-16 [O3-32] Epicutaneous allergen vaccination prevents protease- and IL-33-mediated airway allergen sensitization**
 ○ Shinya Kunimine¹, Toshiro Takai², Seiji Kamijo², Natsuko Maruyama^{1,2}, Punyada Suchiva^{1,2}, Hideoki Ogawa¹, Ko Okumura², Shigaku Ikeda^{1,2}
¹The Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, Japan, ²Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan
- P10-17 [O3-33] Topical corticosteroid decreases CD103⁺ resident memory T cells, but partly allows them to remain in the suprabasal epidermis of psoriasis**
 ○ Kazuo Kurihara, Toshiharu Fujiyama, Pawit Phadungsaksawasdi, Taisuke Ito, Yoshiki Tokura
 The Department of Dermatology, Hamamatsu University School of Medicine
- P10-18 [O3-34] Withdrawn**
- P10-19 [O3-35] Skin-homing Th2/Th22/Th31 cells in papuloerythroderma**
 ○ Saori Takamura, Tomoo Fukuda, Yuichi Teraki
 Department of Dermatology, Saitama Medical Center, Saitama Medical University, Saitama, Japan
- P10-20 [O3-36] Correlation of serum inflammatory cytokine levels with clinical characteristics including severity in Korean patients with psoriasis**
 Soo Yeon Cho, Mi Jin Park, ○ Eun-So Lee
 Department of Dermatology, Ajou University School of Medicine, Suwon, Korea

Category 11 (P11): Immunology 2: Innate Immunity and Microbiology

- P11-01 [III-4]** **Epidermal I κ B ζ controls the induction of psoriasiform dermatitis and susceptibility against bacterial infection**
○ Hitoshi Terui, Naokazu Hatchome, Mayuko Onodera, Kenshi Yamasaki, Setsuya Aiba
Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan
- P11-02 [C11-2]** **Skin colonized *Staphylococcus aureus* increases the susceptibility to inflammation via innate immune pathways**
○ Masashi Iwata, Saeko Nakajima, Tie Duerna, Kenji Kabashima
Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan
- P11-03 [C11-3]** **Caspase-1/11 regulates IL-33 secretion and partly mediates the development of atopic dermatitis-like inflammation in mice**
○ Minoru Kusakabe¹, Yasutomo Imai¹, Koubun Yasuda², Kenji Nakanishi², Etsushi Kuroda², Kiyofumi Yamanishi¹
¹The Department of Dermatology, Hyogo College of Medicine, ²Department of Immunology, Hyogo College of Medicine
- P11-04 [C11-4]** **Myd88 in keratinocytes is essential for the *Malassezia*-induced IL-17-dependent skin inflammation**
○ Hideaki Miyachi¹, Yuumi Nakamura¹, Shinobu Saijo², Gabriel Núñez³, Hiroyuki Matsue¹
¹Department of Dermatology, Graduate School of Medicine, Chiba University, Chiba, Japan, ²Division of Molecular Immunology, Medical Mycology Research Center, Chiba University, Chiba, Japan, ³Department of Pathology and Rogel Cancer Center, University of Michigan Medical School, Ann Arbor, Michigan, U. S. A.
- P11-05 [C11-5]** **Candidalysin mediates human mast cell activation through dectin-1 and MAPK pathways**
○ Francois Niyonsaba^{1,2}, Pu Song^{1,3}, Yoshie Umehara¹, Takasuke Ogawa⁴, Shigaku Ikeda⁴, Ko Okumura¹, Hideoki Ogawa¹
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan, ²Faculty of International Liberal Arts, Juntendo University, Tokyo, Japan, ³Department of Dermatology, Xijing Hospital, Fourth Military Medical University, Xi'an, Shannxi, China, ⁴Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, Japan
- P11-06 [C11-6]** **Candidalysin, a virulence factor of *Candida albicans*, is involved in exacerbation of the imiquimod-induced psoriasis**
○ Pu Song^{1,2}, Francois Niyonsaba^{1,3}, Takasuki Umehara¹, Takasuke Ogawa⁴, Shigaku Ikeda⁴, Ko Okumura¹, Hideoki Ogawa¹
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan, ²Department of Dermatology, Xijing Hospital, Fourth Military Medical University, Xi'an, Shannxi, China, ³Faculty of International Liberal Arts, Juntendo University, Tokyo, Japan, ⁴Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, Japan
- P11-07 [C11-7]** **The loss-of-function mutations in *Staphylococcus agr* by gene replication-transcription conflicts result in the defect of skin colonization**
○ Rena Oguma¹, Yuumi Nakamura¹, Hiroki Takahashi², Akiko Takaya³, Yuki Katayama¹, Yoko Kusuya², Hiroyuki Matsue¹
¹Department of Dermatology, Chiba University Graduate School of Medicine, Japan, ²Division of Bio-resources, Medical Mycology Research Center, Chiba University, Japan, ³Department of Microbiology and Immunology, Graduate School of Pharmaceutical Sciences, Chiba University, Chiba, Japan
- P11-08 [O3-37]** **Restricted and unusual usage of TCR gamma/delta chains in systemic hydroa vacciniforme**
○ Yoji Hirai¹, Tomoko Miyake¹, Yuki Nakagawa¹, Takahide Takahashi², Shogo Tanimoto¹, Keiji Iwatsuki¹, Shin Morizane¹
¹Department of Dermatology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, ²Medical Support, Okayama University Hospital
- P11-09 [O3-38]** **Hairless skin in mice defines microbiome and changes mast cell reactivity**
Chia-Chi Wu¹, Ji-Nu Kim², Zhenping Wang¹, Yu-Ling Chang¹, Karsten Zengler², ○ Anna Di_Nardo¹
¹Department of Dermatology, University of California San Diego, ²Department of Pediatrics, University of California San Diego
- P11-10 [O3-39]** **Cyclooxygenase inhibitor promotes epicutaneous sensitization to protease allergen and subsequent airway inflammation**
○ Punyada Suchiva^{1,2}, Toshiro Takai¹, Natsuko Maruyama¹, Seiji Kamijo¹, Ko Okumura¹, Shigaku Ikeda^{1,2}, Hideoki Ogawa²
¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, ²Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine
- P11-11 [O3-40]** **A novel regulator of mast cells under psychological stress~a neuroendocrine interaction between HPA axis and endocannabinoid system~**
○ Mika Takaichi¹, Koji Sugawara¹, Ralf Paus², Daisuke Tsuruta¹
¹Department of Dermatology, Osaka City University Graduate School of Medicine, Osaka, Japan, ²Department of Dermatology & Cutaneous Surgery, University of Miami Miller School of Medicine, Miami, USA
- P11-12 [O3-41]** **Multinucleated giant cell or acantholytic cell with herpes virus infections is determined under differentiated condition of keratinocyte**
○ Takenobu Yamamoto^{1,2}, Yumi Aoyama¹
¹Department of Dermatology, Kawasaki Medical School, Kurashiki, Japan, ²Department of Dermatology, Kawasaki Medical School General Medical Center, Okayama, Japan

- P11-13 [O3-42] Gastro-intestinal *Staphylococcus aureus* colonization worsens skin inflammation in oxazolone induced dermatitis**
 ○ Karin Okada, Yoshiaki Matsushima, Kento Mizutani, Ai Umaoka, Keiichi Yamanaka
 Department of Dermatology, Mie University, Graduate School of Medicine, Tsu, Mie, Japan
- P11-14 [O3-43] Human cathelicidin LL-37 induces inflammation in multiple skin diseases by increasing uptake of DAMPs via scavenger receptors**
 ○ Ryo Amagai, Toshiya Takahashi, Taku Fujimura, Kenshi Yamasaki, Setsuya Aiba
 Department of dermatology Tohoku University Graduate School of medicine
- P11-15 [O3-44] Human β -defensins are involved with pathological mechanism of cutaneous adverse effects caused by EGFR inhibitors**
 ○ Rie Ommori, Fumi Miyagawa, Hiroaki Azukizawa, Hideo Asada
 Department of Dermatology, Nara Medical University, Nara, Japan
- P11-16 [O3-45] ICP-5249 reduces dermal inflammatory signaling through autophagy activation**
 ○ Ju Yeon Jung, Sekyoo Jeong, Heung Jae Kim, Hwa-Jee Chung, Keedon Park
 Incospharm Corporation, South Korea
- P11-17 [O3-46] Epigallocatechin-3-gallate can restore the expression of type I interferon stimulated genes suppressed by type 2 human papillomavirus E7**
 ○ Ji Young Song¹, Ju Hee Han¹, Yu Mee Song¹, Ji Hyun Lee^{1,2}, Young Min Park^{1,2}
¹The Department of Dermatology, Seoul St. Mary's Hospital, The Catholic University of Korea, Seoul, Korea, ²The Department of Biomedicine & Health Sciences, College of Medicine, The Catholic University of Korea, Seoul, Korea
- P11-18 [O3-47] New trend of diagnostic strategy for Buruli ulcer in Japan**
 ○ Chiaki Murase¹, Rie R. Yotsu^{2,3}, Mariko Sugawara Mikami^{4,5}, Yuji Miyamoto⁶, Koichi Suzuki⁷, Masashi Akiyama¹, Norihisa Ishii⁸
¹Department of Dermatology, Nagoya University Graduate School of Medicine, Aichi, Japan, ²Department of Dermatology, National Center for Global Health and Medicine, Tokyo, Japan, ³School of Tropical Medicine and Global Health, Nagasaki University, Nagasaki, Japan, ⁴West Yokohama Sugawara Dermatology Clinic, Yokohama, Japan, ⁵Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, Yokohama, Japan, ⁶Leprosy Research Center, National Institute of Infectious Diseases, Tokyo, Japan, ⁷Department of Clinical Laboratory Science, Teikyo University, Tokyo, Japan, ⁸National Sanatorium Tamazenshoen, Tokyo, Japan
- P11-19 [O3-48] Cutibacterium acnes-stimulated splenocytes suppress the growth of malignant melanoma cells**
 ○ Yoshiaki Matsushima, Kento Mizutani, Karin Okada, Ai Umaoka, Makoto Kondo, Koji Habe, Keiichi Yamanaka
 Department of Dermatology, Mie University, Graduate School of Medicine, Mie, Japan

Category 12 (P12): Photobiology

- P12-01 [C07-1] A diagnostic toolkit to detect and quantify senescent cells in age-related UV-induced skin pathologies**
 ○ Audrey Wang¹, Satoshi Nakamizo^{2,3}, Yoshihiro Ishida², Genevieve Klassen⁴, Priscilla Chong⁴, John Lim⁵, Graham Wright⁵, Kenji Kabashima^{2,3}, Oliver Dreesen¹
¹Skin Research Institute Singapore, A*STAR, ²Kyoto University Graduate School of Medicine, Japan, ³Singapore Immunology Network (SIgN), ⁴School of Biological Sciences, Nanyang Technological University, ⁵A*STAR Microscopy Platform
- P12-02 [III-6] Caffeine reduces UV-induced mutations of cancer-relevant genes as revealed by Duplex Sequencing**
 ○ Daiki Rokunohe^{1,2}, Kajan Ratnakumar¹, Brendan F. Kohn³, Kaitlyn Loubet-Seneac³, Jiang-Cheng Shen³, Lawrence A. Loeb³, Paul Nghiem¹, Masaoki Kawasumi¹
¹Dermatology, University of Washington, ²Dermatology, Hirotsuki University Graduate School of Medicine, ³Pathology, University of Washington
- P12-03 [C07-2] Effect of 308 nm excimer light on skin microbiota in patients with atopic dermatitis**
 ○ Yuko Kurosaki^{1,2}, Munehiro Tsurumachi^{1,2}, Yayoi Kamata¹, Mitsutoshi Tominaga¹, Yasushi Suga², Kenji Takamori^{1,2}
¹Institute for Environmental and Gender Specific Medicine, Chiba, Japan, ²Department of Dermatology, Juntendo University Urayasu Hospital
- P12-04 [C07-3] Proteomic analysis reveals anti-fibrotic effects of blue light photobiomodulation on fibroblasts**
 ○ Lo-Yu Chang¹, Sabrina Mai-Yi Fan², Yen-Chen Liao³, Yu-Ju Chen³, Sung-Jan Lin^{2,4}
¹School of Medicine, College of Medicine, National Taiwan University, Taipei, Taiwan, ²Department of Biomedical Engineering, College of Medicine and College of Engineering, National Taiwan University, Taipei, Taiwan, ³Institute of Chemistry, Academia Sinica, Taipei, Taiwan, ⁴Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, Taiwan
- P12-05 [O3-49] The human skin bacteria *Staphylococcus epidermidis* fermentation end product ameliorates UVB-induced ROS generation**
 Arun Balasubramaniam¹, ○ Arun AB¹, Chun Ming Huang^{1,2}
¹Department of Biomedical Sciences and Engineering, National Central University, Taoyuan, Taiwan, ²Department of Dermatology, School of Medicine, University of California, San Diego, CA, USA

- P12-06 [O3-50] The effect of 308-nm excimer laser on mast cells in organ cultured human skin**
○ Ayaka Okazaki, Koji Sugawara, Daisuke Tsuruta
The Department of Dermatology, Osaka City University Graduate School of Medicine, Osaka, Japan
- P12-07 [O3-51] Identification of effective senolytics in human primary dermal fibroblasts**
○ Haesoo Kim^{1,2,3}, Si-Hyung Lee^{1,3}, Go Eun Kim^{1,2,3}, Min Ji Song^{1,2,3}, Chi-Hyun Park^{1,3}, Dong Hun Lee^{1,3}, Jin Ho Chung^{1,2,3,4}
¹Department of Dermatology, Seoul National University College of Medicine, Seoul, Korea, ²Department of Biomedical Sciences, Seoul National University Graduate School, Seoul, Korea, ³Institute of Human-Environmental Interface Biology, Medical Research Center, Seoul National University, Seoul, Korea, ⁴Institute on Aging, Seoul National University, Seoul, Korea
- P12-08 [O3-52] Usefulness of UVA lamp and fluorescence microscope for the observation of dermatophyte**
○ Tomotaka Sato, Yasuhiko Asahina, Susumu Toshima
The Department of Dermatology, Teikyo University Chiba Medical Center, Chiba, Japan
- P12-09 [O3-53] UVA1 phototherapy with suppressed immediate pigment darkening by selective wavelength irradiation**
○ Hideyuki Masuda^{1,2}, Akimichi Morita¹
¹Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan, ²USHIO Inc.

Category 13 (P13): Pigmentation and Melanoma

- P13-01 [I-4] Immunotherapy against malignant melanoma with iPS cell-derived myeloid lines expressing 4-1BBL**
○ Haruka Kuriyama¹, Satoshi Fukushima¹, Toshihiro Kimura¹, Mina Kadohisa Tsuruta¹, Yosuke Kubo¹, Satoshi Nakahara¹, Aki T Tokuzumi¹, Azusa Miyashita¹, Hirotake Tsukamoto², Takashi Inozume⁵, Rong Zhang⁶, Yasushi Uemura⁶, Satoru Senju³, Yasuharu Nishimura^{3,4}, Hironobu Ihn¹
¹Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, ²Department of Immunology, Graduate School of Medical Sciences, Kumamoto University, ³Department of Immunogenetics, Graduate School of Medical Sciences, Kumamoto University, ⁴Nishimura Project Laboratory, Institute of Resource Development and Analysis, Kumamoto University, ⁵Department of Dermatology, University of Yamanashi, ⁶Division of Cancer Immunotherapy, Exploratory Oncology Research & Clinical Trial Center, National Cancer Center (NCC)
- P13-02 [C07-4] Bortezomib induces immunogenic cell death in melanoma and enhances immune response in vivo**
○ Sheena_M Daignault¹, Robert_J Ju¹, Loredana Spoerri¹, Samantha_J Stehbins¹, David_S Hill^{2,3}, Riccardo Dolcetti¹, Nikolas_K Haass^{2,4}
¹The University of Queensland Diamantina Institute, University of Queensland, Woolloongabba, Australia, ²The Centenary Institute, Newtown, New South Wales, Australia, ³Dermatological Sciences, Newcastle University, Newcastle upon Tyne, UK, ⁴Discipline of Dermatology, University of Sydney, Camperdown, New South Wales, Australia
- P13-03 [C07-5] Sensory nerves are involved in the development of focal alopecia and poliosis in mice**
○ Zachary Chow, Gyohei Egawa, Kenji Kabashima
Department of Dermatology, Graduate School of Medicine, Kyoto University, Kyoto, Japan
- P13-04 [O1-38] Metabolic reprogramming drives epigenetic remodeling in adaptive cancer drug resistance through OGT**
○ Helmut Schaidler
The University of Queensland Diamantina Institute, The University of Queensland, Brisbane, Australia
- P13-05 [C07-6] Establishment of a mouse model for post-inflammatory pigmentation (PIH)**
○ Shoko Nakano¹, Yuko Abe¹, Yutaka Hozumi¹, Tamio Suzuki¹, Kimiko Nakajima², Shigetoshi Sano², Osamu Yamamoto³
¹Department of Dermatology, Yamagata University Faculty of Medicine, Yamagata, Japan, ²Department of Dermatology, Kochi Medical School, Kochi University, Nankoku, Japan, ³Division of Dermatology, Department of Medicine of Sensory and Motor Organs, Faculty of Medicine, Tottori University, Yonago, Japan
- P13-06 [O1-39] Analysis of the tumor immunity that fibroblasts are associated with through a localized renin-angiotensin system in the malignant melanoma**
○ Kenta Nakamura, Atsuko Ashida, Yukiko Kiniwa, Ryuhei Okuyama
The Department of Dermatology, Shinshu University School of Medicine, Japan
- P13-07 [O1-40] Clinical mutation panel testing by next-generation sequencing in primary melanoma in Taiwan**
○ Yi-Shuan Sheen¹, Chia-Yu Chu¹, Yi-Hua Liao¹, Ming-Hsie Lin²
¹The Department of Dermatology, National Taiwan University, Taipei, Taiwan, ²Department of Surgery, National Taiwan University Hospital Hsin-Chu Branch, Hsin-chu, Taiwan
- P13-08 [O1-41] MEF2A controls melanin synthesis through regulating tyrosinase expression in human primary melanocytes**
○ Go Eun Kim^{1,2,3,4}, Chi-Hyun Park^{1,3,4}, Min Ji Song^{1,2,3,4}, Haesoo Kim^{1,2,3,4}, Si-Hyung Lee^{1,3,4}, Dong Hun Lee^{1,2,3,4}, Jin Ho Chung^{1,2,3,4}
¹Department of Dermatology, Seoul National University College of Medicine, Republic of Korea, ²Department of Biomedical Sciences, Seoul National University College of Medicine, Republic of Korea, ³Institute of Human-Environment Interface Biology, Medical Research Center, Seoul National University, Republic of Korea, ⁴Institute on Aging, Seoul National University, Seoul, Republic of Korea

- P13-09 [O1-42] Novel peptide complex inhibits melanin accumulation in human keratinocytes through autophagy activation and PAR-2 antagonism**
 ○ Myungho Kor, Seokjeong Yoon, Juyeon Jung, Kayoung Shin, Sungwoo Kim, Heung Jae Kim, Hwa-Jee Chung, Sekyoo Jeong, Keedon Park
 Incospharm Corporation, South Korea
- P13-10 [C07-7] Restoration of cell surface PD-1 expression in intracellular PD-1 positive T cell subset in nivolumab-treated advanced melanoma patients**
 ○ Ryo Takahashi¹, Yohei Sato², Momoko Kimishima², Manabu Ohyama^{1,2}
¹Flow Cytometry Core Facility, Kyorin University Graduate School of Medicine, Tokyo, Japan, ²Department of Dermatology, Kyorin University Faculty of Medicine, Tokyo, Japan
- P13-11 [O1-43] Excimer lamp up-regulates keratinocyte-derived glycoprotein nonmetastatic melanoma protein B to protect melanocytes from oxidative stress**
 ○ Qianqian Wang^{1,6}, Lingli Yang¹, Kazal Boron Biswas^{4,5}, Arunasiri IddamalGod^{4,5}, Jiao Guo¹, Asako Yamamoto¹, Yasutaka Kuroda^{1,3}, Masatoshi Kondo^{1,3}, Daiki Murase^{1,3}, Yoshito Takahashi^{1,3}, Leihong Xiang⁶, Shintaro Inoue⁴, Daisuke Tsuruta², Ichiro Katayama¹
¹Department of Pigmentation Research and Therapeutics, Graduate School of Medicine, Osaka City University, ²Department of Dermatology, Graduate School of Medicine, Osaka City University, ³Biological Science Research Laboratories, Kao Corporation, Kanagawa, Japan, ⁴Department of Cosmetic Health Science, Gifu Pharmaceutical University, Gifu, Japan, ⁵Department of Research and Development, Ichimaru Pharcos Co. Ltd., Motosu, Gifu, Japan, ⁶Department of Dermatology, Huashan Hospital, Fudan University, Shanghai, China
- P13-12 [O1-44] Induced pluripotent stem cells-derived melanocyte precursor cells undergoing differentiation into melanocytes**
 Chieko Hosaka¹, ○ Makoto Kunisada¹, Michiyo Koyanagi-Aoi², Taro Masaki¹, Chihiro Takemori¹, Mariko Taniguchi-Ikeda³, Takashi Aoi², Chikako Nishigori¹
¹Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, ²Department of iPS cell Applications, Graduate School of Medicine, Kobe University, ³Department of Clinical Genetics, Fujita Health University Hospital
- P13-13 [O1-45] Differential activity of human tyrosinase proteins with variation in the transmembrane domain**
 ○ Tokimasa Hida, Masae Okura, Yuji Kan, Hisashi Uhara
 Department of Dermatology, Sapporo Medical University School of Medicine, Sapporo, Japan
- P13-14 [O1-46] Identification and characterization of tumor-infiltrating lymphocytes that may mediate anti-tumor response by nivolumab**
 ○ Takashi Inozume¹, Yosuke Togashi², Ryo Ariyasu^{2,3}, Tomonori Yaguchi⁴, Yutaka Kawakami⁴, Hiroyoshi Nishikawa^{2,3}, Tatsuyoshi Kawamura¹
¹Department of Dermatology, University of Yamanashi, Yamanashi, Japan, ²Division of Cancer Immunology, Research Institute/EPOC, National Cancer Center, Tokyo/Chiba, Japan, ³Department of Immunology, Nagoya University Graduate school of Medicine, Nagoya, Japan, ⁴Division of Cellular Signaling, Institute for Advanced Medical Research, Keio University School of Medicine, Japan
- P13-15 [O1-47] Mechanical compression enhances tumor progression in melanoma cells**
 ○ Yi-Hua Liao¹, Jia-Fang Tsai¹, Po-Ling Kuo²
¹Department of Dermatology, National Taiwan University Hospital, College of Medicine, National Taiwan University, Taipei, Taiwan, ²Department of Electrical Engineering, National Taiwan University, Taipei, Taiwan
- P13-16 [O1-48] NecroX-5 can suppress melanoma metastasis through Rho-Family GTPases**
 ○ Gue Tae Moon^{1,2}, Sang Hyun Jeong³, Songwan Jin³, Young Min Park^{1,2}, Ji Hyun Lee^{1,2}
¹Department of Biomedicine & Health Sciences, Brain Korea 21 PLUS Project for Medical Science, College of Medicine, The Catholic University of Korea, Seoul, Korea, ²Department of Dermatology, Seoul St. Mary's Hospital, ³Department of Advanced Convergence Technology, Korea Polytechnic University, Siheung, Korea
- P13-17 [O1-49] Topical 3-bromopyruvate is a novel targeted therapy for melanoma in a preclinical model**
 ○ Masayuki Yamada, Masami Kagaya, Natsuko Noguchi, Shin-Ichi Osada, Motomu Manabe
 The Department of Dermatology and Plastic Surgery, Akita University Graduate School of Medicine, Akita, Japan
- P13-18 [O1-50] Alteration in hair eumelanin and pheomelanin in patients with Mowat-Wilson syndrome**
 ○ Mayuko Yamamoto¹, Yuka Shibata¹, Mika Teraishi¹, Kentaro Ohko¹, Kimiko Nakajima¹, Kazumasa Wakamatsu², Shosuke Ito², Shigetoshi Sano¹
¹The Department of Dermatology, Kochi Medical School, Kochi University, Nankoku, Japan, ²The Department of Chemistry, Fujita Health University School of Medical Sciences
- P13-19 [O1-51] MITF-mediated ECM changes control intratumour heterogeneity in melanoma**
 ○ Loredana Spuerri¹, Crystal_A Tonnessen¹, Kimberley_A Beaumont², David_S Hill², Russell J Jurek³, Gency_P Gunasingh¹, Gilles_C Vanwallegghem⁴, Ethan_K Scott⁴, Nikolas_K Haass¹
¹University of Queensland Diamantina Institute, Brisbane, Australia, ²The Centenary Institute, Newtown, NSW, Australia, ³CSIRO Astronomy & Space Sciences, Australia Telescope National Facility, Epping, NSW, Australia, ⁴School of Biomedical Sciences, UQ, Brisbane, Australia

- P13-20 [O1-52] A new technology for a better understanding of dermoscopic and pathological structure: the digitally reconstructed horizontal and 3D image**
○ Akira Kasuya, Masahiro Aoshima, Kensuke Fukuchi, Takatoshi Shimauchi, Toshiharu Fujiyama, Yoshiki Tokura
Hamamatsu University School of Medicine

Late abstract submission

- L-01 Verification of sphingolipid interaction in intercellular lipid lamellar structure formation**
○ Yasuko Obata¹, Momo Omote¹, Kazuma Hayasaka¹, Yuki Ohfuchi¹, Haruna Setoyama¹, Kenya Ishida²
¹Hoshi University, ²Takasago International Corporation
- L-02 An Asteatotic Eczema-like Drug Rash Secondary to Methotrexate**
Margaret Coates¹, ○ Adam K. Brys², Mary R. Ramirez², Caroline Underwood³, Maria A. Selim³, Adela R. Cardones²
¹Duke University School of Medicine, ²Department of Dermatology, Duke University Medical Center, ³Department of Pathology, Duke University Medical Center
- L-03 Topographical permeability and immune barrier differences of healthy human skin**
○ Zsolt Dajnoki, Barbara Medgyesi, Orsolya Somogyi, Adrienn Jenei, Krisztian Gaspar, Aniko Kapitany, Andrea Szegedi
Division of Dermatological Allergology, Department of Dermatology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary
- L-04 Homeostatic pruning and activity of epidermal nerves are dysregulated in barrier-impaired skin during chronic itch development**
○ Sonoko Takahashi¹, Azusa Ishida¹, Akiharu Kubo^{1,2}, Hiroshi Kawasaki^{1,2}, Sotaro Ochiai¹, Takashi Watanabe¹, Manabu Nakayama³, Haruhiko Koseki¹, Masayuki Amagai^{1,2}, Takaharu Okada¹
¹RIKEN, ²Keio University, ³Kazusa DNA Research Institute
- L-05 Abnormalities in cutaneous microcirculation as an indicator for brain disease: implications for brain-skin interaction**
○ Wei-Tai Yu^{1,2}, Chung-Yao Hsu³, Chiou-Lian Lai³, Hung-Yi Chuang⁴, Hsin-Su Yu¹
¹Graduate Institute of Clinical Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan, ²Department of Dermatology, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung, Taiwan, ³Department of Neurology, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung, Taiwan, ⁴Department of Environmental and Occupational Medicine, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung, Taiwan
- L-06 Kaempferol improves imiquimod-induced psoriasis-like mouse lesions by inhibiting inflammatory factor secretion**
Tingting Di¹, Xiaoyao Guo², Yan Wang¹, Zhaoxia Chen¹, ○ Ping Li¹
¹Beijing Hospital of Traditional Chinese Medicine, Capital Medical University, Beijing Institute of Traditional Chinese Medicine, Beijing, China, ²Capital Medical University, Beijing, China
- L-07 Fire needle acupuncture or moxibustion for chronic plaque psoriasis: study protocol for a randomized controlled trial**
○ Zhaoxia Chen^{1,2}, Dongmei Zhou¹, Haibing Lan³, Xingwu Duan⁴, Shuo Feng^{1,2}, Ping Li^{1,2}
¹Beijing Hospital of Traditional Chinese Medicine, Capital Medical University, Beijing, China, ²Beijing Institute of Traditional Chinese Medicine, Beijing, China, ³Gulou Hospital of Traditional Chinese Medicine of Beijing, Beijing, China, ⁴Dongzhimen Hospital of Beijing University of Chinese Medicine, Beijing, China
- L-08 Apremilast is effective on psoriasis, not by working on epidermal keratinocytes**
○ Meijuan Jin
Department of Dermatology, Jichi Medical University, Japan
- L-09 The tendency of the progression of the severity of atopic dermatitis from birth to 19-year-old varies depending on the generation in Japan**
○ Akio Tanaka¹, Satoshi Morioke¹, Yukihiko Ohya², Naoki Shimojyo³, Akira Akasawa⁴, Michihiro Hide¹
¹Department of Dermatology, Graduate School of Biomedical and Health Sciences Hiroshima University, Hiroshima, Japan, ²Division of Allergy, National Center for Child Health and Development, Tokyo, Japan, ³Department of Pediatrics, Graduate School of Medicine, Chiba University, Chiba, Japan, ⁴Division of Allergy, Tokyo Metropolitan Children's Hospital, Tokyo, Japan
- L-10 Nanotomography of lesional skin in psoriasis demonstrates the presence of nuclear DNA released into the cytosol**
Eric Lindberg¹, Yvonne Baumer^{2,3}, Tiffany M. Powell-Wiley³, Amit K. Dey², Saeko Nakajima⁴, ○ Christopher K. E. Bleck¹, Nehal N. Mehta²
¹Electron Microscopy Core Facility, National Heart, Lung and Blood Institute, National Institutes of Health, Bethesda, MD, USA, ²Section of Inflammation and Cardiometabolic Diseases, National Heart, Lung and Blood Institute, National Institutes of Health, Bethesda, MD, USA, ³Social Determinants of Obesity and Cardiovascular Risk Laboratory, National Heart, Lung and Blood Institute, National Institutes of Health, Bethesda, MD, USA, ⁴Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan

- L-11 Clinical characteristics of long-term treatment population with bexarotene in mycosis fungoides: A post-hoc analysis using the results of two clinical (B-1101 and B-1201) trials**
 ○ Toshihisa Hamada^{1,2}, Himino Ashida², Keiji Iwatsuki¹, the Japanese Bexarotene Study Group
¹Department of Dermatology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, ²Department of Dermatology, Takamatsu Red Cross Hospital, Takamatsu, Japan
- L-12 Exploring the imbalance of circulating follicular helper CD4⁺ T cells in sarcoidosis patients**
 ○ Nhung Thi My LY¹, Ikuko Ueda-Hayakawa¹, Chuyen Thi Hong Nguyen^{1,2}, Hiroyuki Okamoto¹
¹Department of Dermatology, Kansai Medical University, Hirakata, Osaka, Japan, ²Department of Dermatology and Venereology, University of Medicine and Pharmacy, Ho Chi Minh City, Vietnam
- L-13 Genomic characterization of the progression from actinic keratosis to cutaneous squamous cell carcinoma**
 ○ Yoon Seob Kim^{1,2,3}, Seung-Hyun Jung^{2,4}, Hei Sung Kim⁵, Young Min Park³, Lee So Maeng⁶, Yeun-Jun Chung^{1,2,3,7}
¹Department of Microbiology, ²IRCGP, ³Precision Medicine Research Center, ⁴Cancer Evolution Research Center, ⁵Department of Dermatology, ⁶Department of Pathology, ⁷Biomedicine & Health Sciences, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea
- L-14 A case of idiopathic acute localised exanthematous pustulosis and a review of the literature**
 ○ Liew Yasmin Chia Chia
 Department of Dermatology, Singapore General Hospital, Singapore
- L-15 A systems biology approach for high-performance skin brightening, including autophagy as a critical mechanism to control pigmentation**
 ○ Kelly Dong¹, Nadine Pernodet²
¹Skin Biology, ²Skin Biology & BioActives Research & Development, The ESTEE LAUDER COMPANIES
- L-16 Temporal Metabolomics analysis in Asian women comparing young to mature skin**
 ○ N Pernodet¹, K Corallo¹, E Pelle¹, GK Feld², K Beebe², F Teng², A Evans²
¹The Estee Lauder Companies, ²Metabolon, Inc., Morrisville, NC
- L-17 The importance of Sirtuins in skin and new findings about Sirt-2 and its link to Mechanobiology**
 ○ E Goyarts, K Dong, E Pelle, J Trivero, D Collins, K Corallo, N Pernodet
 Estee Lauder Research Laboratories, Melville, NY, USA
- L-18 New finding on a direct link between the resolution phase of inflammation and autophagy in skin cells**
 ○ J. Trivero, K. Dong, D. Collins, N. Pernodet
 Estee Lauder Research Laboratories, Melville, NY, USA
- L-19 Macrocytis Pyrifera Kelp Ferment is a potent activator of resolution phase helping against inflammation and mature skin cell survival**
 ○ Donald Collins¹, Nadine Pernodet², Dawn Layman², Krystle Corallo², Jacqueline Trivero²
¹Max Huber Research Laboratories, Melville, New York, ²The Estee Lauder Companies, Skin Biology, R&D, Melville, NY, USA
- L-20 Studies on epidermal differentiation by air-liquid interface stimulation in three-dimensional culture**
 ○ Hirofumi Teshima
 Grad. Sch. of Pharmaceutical Science, Nagoya U.
- L-21 Effects of chronic proinflammatory cytokines on hyaluronan metabolism in human skin fibroblasts**
 ○ Shinya Sato, Masakazu Goto, Yukiko Mizutani, Shintaro Inoue
 Gifu Pharmaceutical University, Cosmetic Health Science laboratory
- L-22 Atopic dermatitis disease biomarkers highly correlate with IL-13 levels, and are normalised by an anti-IL-13 monoclonal antibody *in vitro***
 Stephan Weidinger¹, Maxim A.X. Tollenaere², Katharina Drerup¹, Thomas Litman², ○ Hanne Norsgaard²
¹University Hospital Schleswig-Holstein, Dermatology Department, Kiel, Germany, ²LEO Pharma A/S, Skin Research, Ballerup, Denmark
- L-23 Spleen tyrosine kinase mediates UVB-triggered inflammasome activation in epidermal keratinocytes**
 ○ Nan-Lin Wu^{1,2}, Po-Hsuan Lu^{1,2}, Yu-Xuan Wei³, Ling-Ya Chiu^{3,4}, Chi-Feng Hung⁵
¹Department of Dermatology, MacKay Memorial Hospital, Taipei, Taiwan, ²Department of Medicine, MacKay Medical College, New Taipei City, Taiwan, ³Department of Medical Research, Mackay Memorial Hospital, Taipei, Taiwan, ⁴Department of Pharmacology, College of Medicine, National Taiwan University, Taipei, Taiwan, ⁵School of Medicine, Fu Jen Catholic University, New Taipei City, Taiwan