Program

The 42nd Annual Meeting of the Japanese Society for Investigative Dermatology

42nd JSID

Timetable

1st Day, December 15, Friday, 2017

	Room A 1F Main Hall	Room B 2F Small Hall	Room C 11F Main Lecture Room	Room D 7F Exhibition Room 4	Poster Venue 7F Exhibition Room 1, 2	Exhibition Venue 7F Exhibition Room 3
8:00						
	8:20-8:30 **Opening**					
	8:30-10:00 **Plenary Session I** 【I-1～I-6】 (N. Reynolds, R. Hall, K. Kabashima)				8:30-12:00	9:00-18:00
9:00						
10:00	10:00-12:00 P.109 **Psoriasis Symposium** (M. Gilliet, S. Sano) J. C. Prinz, K. Nakajima, J. T. Elder, C. E. Griffiths, A. Blauvelt				**Put up Posters**	
11:00						
12:00			with Lunch		12:00-18:40 P.183	
	12:10-13:10 P.156 **Luncheon Seminar 1** (S. Sato, M. Jinnin) M. Sugaya, Y. Tada *NOV division, Tokiwa Pharmaceutical Co., Ltd.*	12:10-13:10 P.158 **Luncheon Seminar 2** (M. Furue, S. Shimada) G. Tsuji, C. Zhang *P&G Innovation Godo Kaisha*	12:10-12:40 P.103 **Invited Lecture 1** (M. Fujimoto) K. Miyake 12:40-13:10 P.104 **Invited Lecture 2** (A. Kubo) Y. Takahama	12:10-13:10 P.160 **Luncheon Seminar 3** (H. Iizuka, A. Asahina) T. Honda, T. Yamamoto *Mitsubishi Tanabe Pharma Corporation.*		
13:00						
	13:20-14:44 **Autoimmunity/ Inflammation-I** 【C01-1～C01-7】 (H. Ihn, M. Fujimoto, K. Yamasaki)	13:20-14:44 **Pigmentation and Melanoma, Photobiology** 【C02-1～C02-7】 (N. Haass, J. H. Chung, T. Yamamoto)	13:20-14:44 **Epidermal Structure and Function** 【C03-1～C03-7】 (M. Komine, K. Takahashi)	13:20-14:44 **Tissue Regeneration/ Stem Cell and Wound Healing, Hair and Cutaneous Development** 【C04-1～C04-7】 (K. Tamai, S. Ikeda)		**Exhibition**
14:00						
	Sweets are prepared in front of each meeting room.					
15:00	14:55-16:25 P.116 **International Eczema Council (IEC) Symposium** (K. Kabashima, M. Amagai) A. S. Paller, E. Guttman-Y	14:55-15:55 P.168 **Afternoon Seminar 1** (A. Morita) A. Yoshizaki, G. Egawa *Mitsubishi Tanabe Pharma Corporation./ Teikoku Seiyaku Co., Ltd*	14:55-16:25 P.121 **EB Symposium** (D. Sawamura, S. Sano) J. Uitto, J. A. McGrath, J. Jacków, K. Tamai	14:55-15:55 P.170 **Afternoon Seminar 2** (R. Okuyama, T. Mabuchi) R. Watanabe, H. Fujita *Kyowa Hakko Kirin Co., Ltd.*	**Poster Presentation**	
16:00	with sweet			with sweet		
	16:30-17:40 **Award Ceremony**	**JSID's Fellowship Shiseido Research Grant** Presenter: R. Fujiwara **Diploma of Dermatological Scientist** Presenter: S. Sato **JSID Honorary Membership** Presenter: S. Sato **SID/JSID Young Fellow Collegiality Awards** Presenter: R. Hall **ESDR/JSID Young Fellow Collegiality Awards** Presenter: M. Gilliet **ASDR/JSID Exchange Program** Presenter: N. Haass				
17:00						
18:00	17:45-18:40 **One-minute presentation 1** Autoimmunity/Inflammation, Tissue Regeneration/Stem Cell and Wound Healing 【O1-01～O1-54】(D. Watanabe)	17:45-18:40 **One-minute presentation 2** Carcinogenesis/Growth Factors/ Signal Transduction/Cancer Genetics, Human Clinical Research and Therapeutics, Epidemiology/Health Service Research 【O2-01～O2-53】(S. Imafuku)	17:45-18:40 **One-minute presentation 3** Cell Adhesion/Matrix/Vascular Biology, Epidermal Structure and Function, Immunology 1: Adaptive Immunity, Immunology 2: Innate Immunity and Microbiology 【O3-01～O3-52】(H. Ujiie)	17:45-18:40 **One-minute presentation 4** Genetic Disease/Gene Regulation and Gene Therapy, Hair and Cutaneous Development, Photobiology, Pigmentation and Melanoma 【O4-01～O4-50】(E. Akasaka)		
19:00		18:40-19:00 **Please ride on a shuttle bus to the Crown Palais New Hankyu Kochi.** 19:00-21:00 **Social Gathering** **The Crown Palais New Hankyu Kochi**				
20:00						

Chair: ( )

2nd Day, December 16, Saturday, 2017

	Room A 1F Main Hall	Room B 2F Small Hall	Room C 11F Main Lecture Room	Room D 7F Exhibition Room 4	Poster Venue 7F Exhibition Room 1, 2	Exhibition Venue 7F Exhibition Room 3
8:00						
	8:20-9:10 P.149 **Morning Seminar 1** (M. Fujimoto) Y. Tokura *Janssen Pharmaceutical K.K.*	8:20-9:10 P.150 **Morning Seminar 2** (K. Kabashima, M. Otsuki) H. Tanizaki, H. Nakajima *Novartis Pharma K.K.*			8:30-17:55 P.183	
9:00	9:15-11:00 **Plenary Session II** 【II-1～II-7】 (A.H. Enk, A. Pentland, S. Sato)					9:00-18:00
10:00						
11:00	11:00-11:30 P.94 **Tanioku Kihei Memorial Lecture** (S. Sano) M. Gilliet					
	11:30-12:00 P.98 **JSID Award** (Chair and Presenter: S. Sato) S. Motegi	12:00-12:05 P.99 **JSID Kisaragi Award** (Presenter: S. Sato) S. Nakagawa	with Lunch			
12:00	12:15-13:15 P.162 **Luncheon Seminar 4** (S. Aiba) N. Mizushima, N. Pernodet *The Estée Lauder Companies Inc.*	12:15-13:15 P.164 **Luncheon Seminar 5** (Y. Tokura) K. Yamasaki, D. McGonagle *Novartis Pharma K.K./ Maruho Co., Ltd.*	12:15-12:45 P.105 **Invited Lecture 3** (S. Yamazaki) H. Arase 12:45-13:15 P.106 **Invited Lecture 4** (K. Sayama) J. Takeda	12:15-13:15 P.166 **Luncheon Seminar 6** (M. Hide, E. Morita) Y. Chinuki, K. Nakajima *TAIHO PHARMACEUTICAL CO., LTD.*		
13:00					**Poster Presentation**	
	13:25-14:25 P.143 **The 18th Galderma-Maruho Research Award Presentations by award winners and award ceremony**	(M. Amagai, S. Sato, Y. Tokura) T. Matsushita, N. Takahashi, K. Izumi, A. Minagawa *Maruho Co., Ltd. /Galderma K.K.*				**Exhibition**
14:00						
	14:30-15:54 **Human Clinical Research and Therapeutics-I** 【C05-1～C05-7】 (T. Kanekura, M. Hide, J. McGrath)	14:30-15:54 **Immunology 1: Adaptive Immunity** 【C06-1～C06-7】 (R. Abe, T. Kawamura, N. Kanazawa)	14:30-15:54 **Autoimmunity/ Inflammation-II** 【C07-1～C07-7】 (I. Katayama, H. Takahashi)	14:30-15:54 **Genetic Disease/Gene Regulation and Gene Therapy, Epidemiology/ Health Service Research** 【C08-1～C08-7】 (A. Yamamoto, M. Akiyama)		
15:00						
	Sweets are prepared in front of each meeting room.					
16:00	16:00-18:00 P.127 **Frontiers Symposium** (M. Ohyama, E. Nishimura) Y. Takahashi, M. Takeo, H. Fujiwara, E. K. Nishimura, T. Tsuji	16:00-17:00 P.172 **Afternoon Seminar 3** (O. Yamasaki) A. Otsuka, T. Inozume *ONO PHARMACEUTICAL CO., LTD. /Bristol-Myers Squibb K.K.*	16:00-17:00 P.174 **Afternoon Seminar 4** (S. Aiba) A. Blauvelt *Janssen Pharmaceutical K.K.*	16:00-17:00 P.175 **Afternoon Seminar 5** (S. Morizane) T. Matsutani, M. Itoh *Repertoire Genesis, Inc./ Wako Pure Chemical Industries, Ltd.*		
17:00		17:10-18:00 P.177 **Evening Seminar 1** (D. Tsuruta) A. Yoshimura *Celgene K.K.*		17:10-18:00 P.178 **Evening Seminar 2** (M. Amano) A. Yoshizaki, T. Yamamoto *AbbVie GK/Eisai Co., Ltd.*		
18:00	with sweet				18:05-19:35 **Poster Discussion** (Odd Number) *(18:05-18:50)* (Even Number) *(18:50-19:35)*	
19:00	19:00-21:00 **Welcome Reception** 1F Restaurant "Tender Table"					
20:00						

3rd Day, December 17, Sunday, 2017

	Room A 1F Main Hall	Room B 2F Small Hall	Room C 11F Main Lecture Room	Room D 7F Exhibition Room 4	Poster Venue 7F Exhibition Room 1, 2	Exhibition Venue 7F Exhibition Room 3
8:00						
8:30-9:20 P.152	**Morning Seminar 3** (I. Katayama) C. C. E. Lan, T. Suzuki *USHIO INC.*	8:30-9:20 P.154 **Morning Seminar 4** (M. Amagai) T. C. Scharschmidt, K. Kabashima *Sanofi K.K./* *Regeneron Pharmaceuticals, Inc.*			8:30-12:30 P.183	
9:00						9:00-12:30
9:30-11:00	**Plenary Session III** 【III-1～III-6】 (C. Griffiths, A. Morita, M. Amagai)				**Poster Presentation**	**Exhibition**
10:00						
11:00						
11:05-12:29	**Immunology 2: Innate Immunity and Microbiology** 【C09-1～C09-7】 (K. Sayama, H. Asada)	11:05-12:29 **Autoimmunity/ Inflammation-III, Cell Adhesion/Matrix/ Vascular Biology** 【C10-1～C10-7】 (M. Hasegawa, M. Jinnin)	11:05-12:29 **Carcinogenesis/ Growth Factors/Signal Transduction/Cancer Genetics** 【C11-1～C11-7】 (A. Kubo, D. Tsuruta)	11:05-12:29 **Human Clinical Research and Therapeutics-II** 【C12-1～C12-7】 (Y. Tada, M. Sugaya)		
12:00					12:30-14:00	
12:35-14:35 P.135		**JSID-Asia-Oceania-Forum** (K. Iwatsuki, Y. Tokura) R. Dolcetti, T. Hamada, T. Shimauchi, D. Y. Lee, Y. Wang, C. H. A. Lee *MINOPHAGEN PHARMACEUTICAL CO., LTD*	with Lunch		**Remove Posters**	
13:00						
14:00						
14:35-14:40		**Closing Remarks**				
14:45-15:45			**Tea & Wine Farewell Party** 1F Restaurant “Tender Table”			
15:00						
16:00						
17:00						
18:00						
19:00						
20:00						

December 15, 2017, Room A

Plenary Session I

8:30-10:00 Chairs: Nick Reynolds, Russell Hall, Kenji Kabashima

I-1 [P04-03] 8:30-8:45

Severe thiopurine-induced pancytopenia and hair loss in Japanese patients with a *NUDT15* variant: Importance of susceptibility gene screening

○ Mari Kishibe[1], Risa Matsuo[1], Mizue Fujii[1], Shin Iinuma[1], Sawa Ohtsubo[1], Kyoko Kanno[1], Kan Kishibe[2], Kensaku Okamoto[3], Masaru Honma[1], Akemi Ishida-Yamamoto[1]

[1]Department of Dermatology, Asahikawa Medical University, Asahikawa, Japan, [2]Department of Otorhinolaryngology, Asahikawa Medical University, Asahikawa, Japan, [3]Division of Metabolism and Biosystemic Science, Department of Medicine, Asahikawa Medical University, Asahikawa, Japan

I-2 [P11-02] 8:45-9:00

Mast cells control CD11b$^+$ tissue-resident macrophage progenitor cells and regulate the number of macrophages in local tissues

○ Seiichiro Wakabayashi[1], Yuumi Nakamura[1], Hiroyuki Matsue[1], Gabriel Nunez[2]

[1]Dermatology, Chiba University, Chiba, Japan, [2]Department of Pathology, University of Michigan, Ann Arbor, USA

I-3 [P12-01] 9:00-9:15

CXCL1 inhibition regulates UVB-induced skin inflammation and tumorigenesis in *Xpa*-deficient mice

○ Makoto Kunisada, Chieko Hosaka, Chihiro Takemori, Eiji Nakano, Chikako Nishigori

Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe

I-4 [P07-01] 9:15-9:30

Familial keratosis lichenoides chronica caused by *NLRP1* mutation associated with enhanced inflammasome activation

○ Takuya Takeichi[1,2], Franklin L. Zhong[3,4], Salma S. Omar[5], Masashi Akiyama[1], Bruno Reversade[3,4], John A. McGrath[2]

[1]Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, [2]St Johns Institute of Dermatology, Kings College London, Guys Hospital, London, UK, [3]Institute of Medical Biology, A*STAR, Singapore, [4]Institute of Molecular and Cellular Biology, A*STAR, Singapore, [5]Department of Dermatology, Venereology & Andrology, Faculty of Medicine, Alexandria University, Alexandria, Egypt

I-5 [P13-03] 9:30-9:45

Microphthalmia-associated transcription factor regulates dynamic melanoma heterogeneity

○ Loredana Spoerri[1], Crystal A. Tonnessen[1], Kimberley A. Beaumont[2], David S. Hill[2], Russell J. Jurek[3], Sheena M. Daignault[1], Farzana Ahmed[1], Aaron G. Smith[1], Wolfgang Weninger[2], Nikolas K. Haass[1,2]

[1]The University of Queensland, The University of Queensland Diamantina Institute, Translational Research Institute, Brisbane, Qld, Australia, [2]The Centenary Institute, Newtown, NSW, Australia, [3]CSIRO Astronomy & Space Sciences, Australia Telescope National Facility, Epping, NSW, Australia

I-6 [P07-02] 9:45-10:00

Mutations in KDSR disrupt ceramide synthesis and result in a spectrum of keratinization disorders associated with thrombocytopenia

○ John A. McGrath[1], Takuya Takeichi[1,2], Antonio Torrelo[3], John Lee[1], Yusuke Ohno[4], Maria-Luisa Lozano[5], Akio Kihara[4], Junko Ishikawa[6], Yoichiro Toi[7], Yasushi Ogawa[2], Kazumitsu Sugiura[8], Masashi Akiyama[2]

[1]St John's Institute of Dermatology, King's College London, London, U.K, [2]Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, [3]Department of Dermatology, Hospital Infantil del Nino Jesus, Madrid, Spain, [4]Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo, Japan, [5]Centro Regional de Hemodonacion, Servicio de Hematologia y Oncologia Medica, Hospital Universitario Morales Meseguer, IMIB-Arrixaca, Universidad de Murcia, Spain, [6]Biological Science Research Laboratories, Kao Corporation, Haga, Tochigi, Japan, [7]Department of Dermatology, Hiroshima City Hiroshima Citizens Hospital, Hiroshima, Japan, [8]Department of Dermatology, Fujita Health University School of Medicine, Toyoake, Japan

Psoriasis Symposium

10:00-12:00 Chairs: Michel Gilliet, Shigetoshi Sano

PSY-1

Specific antigens and autoimmunity in psoriasis

○ Jörg Christoph Prinz

Department of Dermatology, Ludwig-Maximilian-University of Munich, Munich, Germany

PSY-2

Mouse models of psoriasis and their relevance

○ Kimiko Nakajima

The Department of Dermatology, Kochi Medical School, Kochi University

PSY-3

What is Epigenetics and why is it important in psoriasis?

○ James T. Elder

Department of Dermatology, University of Michigan and Ann Arbor VA Hospital

PSY-4

Personalising Treatment pathways for Psoriasis

○ Christopher EM Griffiths

CEM Griffiths Dermatology Centre, University of Manchester, Manchester, UK

PSY-5 **What is the Best Target for Psoriasis: IL-23 versus IL-17A?**

○ Andrew Blauvelt
Oregon Medical Research Center, Portland, Oregon

Luncheon Seminar 1
"Skin barrier and cutaneous immunology"

12:10-13:10 Chairs: Shinichi Sato, Masatoshi Jinnin

LS1-1 **Barrier dysfunction and skin resident T cells in skin diseases**

○ Makoto Sugaya
Department of Dermatology, Faculty of Medicine, International University of Health & Welfare, Chiba, Japan

LS1-2 **Skin barrier abnormalities in psoriasis: the role of keratolytics and emollients for psoriasis management**

○ Yayoi Tada
Department of Dermatology, Teikyo University School of Medicine, Tokyo, Japan

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

Concurrent Oral Session 1
(Autoimmunity/Inflammation-I)

13:20-14:44 Chairs: Hironobu Ihn, Manabu Fujimoto, Kenshi Yamasaki

C01-1 [P01-05] 13:20-13:32 **Fli1 deficiency potentially regulates M2 macrophage/B cell axis in systemic sclerosis**

○ Yoshihide Asano[1], Takashi Taniguchi[1,2], Takashi Yamashita[1], Kouki Nakamura[1], Ryosuke Saigusa[1], Yohei Ichimura[1], Takehiro Takahashi[1], Tetsuo Toyama[1], Ayumi Yoshizaki[1], Shinichi Sato[1]
[1]Department of Dermatology, University of Tokyo Graduate School of Medicine, [2]Department of Dermatology, Graduate School of Medical Science, International University of Health and Welfare

C01-2 [P01-06] 13:32-13:44 **Immunization of dermatomyositis-specific autoantigen transcriptional intermediary factor (TIF1)-γ induces myositis in mice**

○ Naoko Okiyama, Manabu Fujimoto
The Department of Dermatology, University of Tsukuba, Ibaraki, Japan

C01-3 [P01-07] 13:44-13:56 **Platelet-specific Fli1-knockout mice show accelerated wound closure and enhanced angiogenesis.**

○ Megumi Hirabayashi, Yoshihide Asano, Takashi Yamashita, Ryosuke Saigusa, Shunsuke Miura, Kouki Nakamura, Takuya Miyagawa, Takashi Taniguchi, Ayumi Yoshizaki, Shinichi Sato
The Department of Dermatology, University of Tokyo, Tokyo, Japan

C01-4 [P01-08] 13:56-14:08 **B cell depletion increases regulatory T cells and thereby ameliorates tissue fibrosis in a bleomycin-induced systemic sclerosis model mice.**

○ Hiroko Numajiri, Ayumi Yoshizaki, Takemichi Fukasawa, Satoshi Ebata, Yoshihide Asano, Shinichi Sato
Department of Dermatology, The University of Tokyo Graduate School of Medicine, Tokyo, Japan

C01-5 [P01-09] 14:08-14:20 **Single cell analysis revealed that responses to therapy is regulated by B cells in systemic sclerosis-associated interstitial lung disease**

○ Satoshi Ebata[1], Ayumi Yoshizaki[1], Takemichi Fukasawa[1], Kouki Nakamura[1], Takashi Yamashita[1], Shunsuke Miura[1], Ryosuke Saigusa[1], Megumi Hirabayashi[1], Asako Yoshizaki[1], Kaname Akamata[1], Yoshihide Asano[1], Yutaka Kazoe[2], Kazuma Mawatari[2], Takehiko Kitamori[2], Shinichi Sato[1]
[1]The Department of Dermatology, University of Tokyo, Tokyo, Japan, [2]The Department of Applied Chemistry, University of Tokyo, Tokyo, Japan

C01-6 [P01-10] 14:20-14:32 **CD26/DPPIV regulates mechanical itch in a mechanistically distinct manner from chemical itch.**

○ Eriko Komiya[1,2], Ryo Hatano[1], Haruna Otsuka[1], Takumi Itoh[1], Hiroto Yamazaki[1], Mitsutoshi Tominaga[2], Kenji Takamori[2], Kei Ohnuma[1], Chikao Morimoto[1]
[1]Department of Therapy Development and Innovation for Immune Disorders and Cancers, Graduate School of Medicine, Juntendo University, Tokyo, Japan, [2]Institute for Environmental and Gender Specific Medicine, Graduate School of Medicine, Juntendo University, Chiba, Japan

C01-7 [P01-11] 14:32-14:44 **A novel animal model of psoriatic dermatitis induced by p38 MAPK activator proposing a potential therapeutic target for psoriasis**

○ Kenji Sakurai, Teruki Dainichi, Reiko Matsumoto, Yuri Nakano, Masayuki Otsuka, Kenji Kabashima
Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan

International Eczema Council (IEC) Symposium

14:55-16:25 Chairs: Kenji Kabashima, Masayuki Amagai

IECSY-1 **Not just small adults: Lessons towards personalized medicine from children with atopic dermatitis.**

○ Amy S. Paller

Departments of Dermatology and Pediatrics, Northwestern University Feinberg School of Medicine

IECSY-2 **Towards a personalized Medicine in Atopic Dermatitis**

○ Emma Guttman-Yassky

Department of Dermatology, Icahn School of Medicine at the Mount Sinai Medical Center, NY

Award Ceremony

16:30-17:40

JSID's Fellowship Shiseido Research Grant

Chair: Shinichi Sato
Presenter: Rumiko Fujiwara

Analysis on expression mechanism and in vivo function of cholesterol 25-hydroxylase in helper T cells

○ Hayato Takahashi

Department of Dermatology, Keio University School of Medicine

Alteration of human skin T cells according to aging

○ Rei Watanabe

Department of Dermatology, Faculty of Medicine, University of Tsukuba

Diploma of Dermatological Scientist

Presenter: Shinichi Sato

Yang Fei, Department of Dermatology, Graduate School of Medicine, Osaka University
Panjit Chieosilapatham, Atopy/Allergy Research Center, Juntendo University Graduate School of Medicine

JSID Honorary Membership

Presenter: Shinichi Sato

SID/JSID Young Fellow Collegiality Awards

Presenter: Russell P. Hall

Sungkyoung Lee, University of Pennsylvania
Satomi Igawa, University of California
Xu (Hannah) Zhang, City of Hope

ESDR/JSID Young Fellow Collegiality Awards

Presenter: Michel Gilliet

Paola Arcidicono, Blizard Institute
Daniel Trocsik, University of Debrecen

ASDR/JSID Exchange Program

Presenter: Nikolas Haass

Loredana Spoerri, The University of Queensland

One-minute presentation "Come to see my poster" 1 (Autoimmunity/Inflammation, Tissue Regeneration/Stem Cell and Wound Healing)

17:45-18:40 Chair: Daisuke Watanabe

O1-01 [P01-19] **Small molecular agonist of the adiponectin receptor ameliorates fibrosis, vasculopathy, and immune abnormalities in model mice of SSc**

○ Takashi Yamashita, Yoshihide Asano, Takashi Taniguchi, Ayumi Yoshizaki, Shinichi Sato

The Department of Dermatology, University of Tokyo, Tokyo, Japan

O1-02 [P01-21] **Downregulated Caveolin-1 expression in circulating monocytes may contribute to the pathogenesis of psoriasis.**

○ Naoko Takamura, Yukie Yamaguchi, Yuko Watanabe, Miho Asami, Noriko Komitsu, Michiko Aihara

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

O1-03 [P01-22] **The novel micro-fluidic system reveals the pathogenic roles of vascular endothelium-specific B cells in cutaneous arteritis.**

○ Ayumi Yoshizaki[1], Kouki Nakamura[1], Satoshi Ebata[1], Takemichi Fukasawa[1], Yoshihide Asano[1], Yutaka Kazoe[2], Kazuma Mawatari[2], Takehiko Kitamori[2], Shinichi Sato[1]

[1]Department of Dermatology, The University of Tokyo Graduate School of Medicine, [2]Department of Applied Chemistry, The University of Tokyo Graduate School of Engineering

O1-04 [P01-23] **Intrathecal injection of sulfated cholecystokinin-8 induces alloknesis in mice**

○ Mitsutoshi Tominaga[1], Fumiya Kusube[1], Kotaro Honda[1], Nobuaki Takahashi[1], Hisashi Naito[2], Fumiyuki Yamakura[3], Yasushi Suga[5], Hideoki Ogawa[1], Yasuhiro Tomooka[4], Kenji Takamori[1,5]

[1]Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, Japan, [2]Institute of Health and Sports Science & Medicine, Juntendo University, Chiba, Japan, [3]Juntendo University Faculty of International Liberal Arts, Tokyo, Japan, [4]Department of Biological Science and Technology, Faculty of Industrial Science and Technology, Tokyo University of Science, Tokyo, Japan, [5]Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan

O1-05 [P01-24] **Circulating IgG autoantibodies to ECM1 contribute to the altered expression of hemidesmosomal and vascular antigens in lichen sclerosus skin**

○ Natsuko Utsunomiya, Noritaka Oyama, Takenao Chino, Akira Utsunomiya, Minoru Hasegawa

The Department of Dermatology, Faculty of Medical Sciences, University of Fukui, Fukui, Japan

O1-06 [P01-25] **IPAS/HIF-3α downregulation promotes HIF-1α-mediated VEGF expression in psoriasis**

○ Takashi Shibuya[1], Shin Iinuma[1], Nao Saito[1], Mari Kishibe[1], Masaru Honma[1], Yuichi Makino[2], Akemi Ishida-Yamamoto[1]

[1]The Department of Dermatology, Asahikawa Medical University, Asahikawa, Japan, [2]Division of Metabolism and Biosystemic Science, Department of Internal Medicine, Asahikawa Medical University, Asahikawa, Japan

O1-07 [P01-26] **Distinct B cell cytokine production is determined by B cell autoantigen affinity and is related to its pathogenic role in systemic sclerosis**

○ Takemichi Fukasawa[1], Ayumi Yoshizaki[1], Satoshi Ebata[1], Kouki Nakamura[1], Ryosuke Saigusa[1], Takashi Yamashita[1], Yoshihide Asano[1], Yutaka Kazoe[2], Kazuma Mawatari[2], Takehiko Kitamori[2], Shinichi Sato[1]

[1]The Department of Dermatology, University of Tokyo, Tokyo, Japan, [2]The Department of Applied Chemistry, University of Tokyo, Tokyo, Japan

O1-08 [P01-27] **Rituximab an adjuvant therapy for resistant pemphigus patients**

○ Marwah Saleh

Cairo University

O1-09 [P01-29] **Recognition of SS-A/IgG/HLA-DR complex by autoantibodies in Sjögren's syndrome.**

○ Noriko Arase[1,2], Hui Jin[2,3], Yutaro Hayashi[2,4], Hiroyuki Murota[1], Hisashi Arase[2,3], Ichiro Katayama[1]

[1]Dermatology, Department of Integrated Medicine, Graduate School of Medicine, Osaka University, [2]Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, [3]Laboratory of Immunochemistry, WPI Immunology Frontier Research Center, Osaka University, [4]Division of Rheumatology, Department of Internal Medicine, School of Medicine, Keio University

O1-10 [P01-30] **Investigation of the epidermal transcriptome in psoriasis.**

○ Lorenzo Pasquali[1], Ankit Srivastava[1], Kunal Das Mahapatra[1], Florian Meisgen[1], Ning Xu Landen[1], Mona Stahle[1,2], Andor Pivarcsi[1], Eniko Sonkoly[1,2]

[1]Dermatology and Venereology Unit, Department of Medicine, Karolinska Institutet, Solna, Sweden, [2]Unit of Dermatology, Karolinska University Hospital, Stockholm, Sweden

O1-11 [P01-31] **Analysis of the possible inducible skin-associated lymphoid tissue (iSALT) in the lupus erythematosus profundus**

○ Hisashi Kamido[1], Takashi Kogame[1,2], Ryosuke Yamashita[1], Tatsuki Kataoka[3], Masahiro Hirata[3], Chiyuki Ueshima[3], Takashi Nomura[1], Kenji Kabashima[1]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, [2]Ijinkai Takeda General Hospital, Kyoto, Japan, [3]Department of Diagnostic Pathology, Kyoto University Hospital, Kyoto, Japan

O1-12 [P01-32] ***In vivo*** **evidence of IL-17A induced heterogeneous activation of macrophages in the skin of mouse**

○ Kozo Nakai[1], Yu-Ying He[2], Kozo Yoneda[3], Tetsuya Moriue[1], Yasuo Kubota[1]

[1]Department of Dermatology, Kagawa University, Kagawa, Japan, [2]University of Chicago, [3]Osaka Ohtani University

O1-13 [P01-33] **Analysis of the possible induced skin-associated lymphoid tissue (iSALT) in the lesions of cutaneous plasmacytosis**

○ Tomoya Takegami[1], Toshiaki Kogame[1,2], Tatsuki Kataoka[3], Masahiro Hirata[3], Chiyuki Ueshima[3], Takashi Nomura[1], Kenji Kabashima[1]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, [2]Ijinkai Takeda General Hospital, Kyoto, Japan, [3]Department of Diagnostic Pathology, Kyoto University Hospital, Kyoto, Japan

O1-14 [P01-34] **Regulatory T cells modulate skin inflammation in atopic dermatitis model mouse**

○ Sumika Toyama[1], Hironori Matsuda[1], Ryohei Kosaka[1,2], Hideoki Ogawa[1], Mitsutoshi Tominaga[1], Kenji Takamori[1,3]

[1]Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, [2]Department of Biological Science and Technology, Faculty of Industrial Science and Technology, Tokyo University of Science, [3]Department of Dermatology, Juntendo University Urayasu Hospital

O1-15 [P01-35] **Autophagy in malnutrition-associated dermatitis**

○ Yoji Hirai[1], Tatsuhiko Mori[2], Keiji Iwatsuki[1]

[1]Department of Dermatology, Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Japan, [2]Department of Dermatology, Fukushima Medical University, Japan

O1-16 [P01-36] **Differential capability to induce cutaneous tertiary lymphoid tissues among cutaneous MALT lymphoma subtypes**

○ Toshiaki Kogame[1,2], Takashi Nomura[1], Tatsuki Kataoka[3], Masahiro Hirata[3], Chiyuki Ueshima[3], Kenji Kabashima[1]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, [2]Ijinkai Takeda General Hospital, Kyoto, Japan, [3]Department of Diagnostic Pathology, Kyoto University Hospital, Kyoto, Japan

O1-17 [P01-37] **Anti-FcεRIα and IgE autoantibodies of the chronic spontaneous urticaria patients may have the ability of crosslinking of FcεRI.**

○ Satoshi Izaki[1,2], Shota Toyoshima[2,3], Satoshi Nunomura[4], Kazuko Kanegae[2,3], Junichi Kashiwakura[5], Ryosuke Nakamura[6], Tomomi Sakamoto[2,3], Nobuyuki Nishimori[1,2], Takahiro Endo[1,2], Haruyo Akiyama[7], Koremasa Hayama[1,2], Chisei Ra[8], Yoshimichi Okayama[2,3], Tadashi Terui[1]

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O1-18 [P01-38] **A SHISO extract prevents the House-dust induced impairment of epidermal barrier function through an anti-inflammatory process.**

○ Mariko Yokota, Shoichi Yahagi

NIKKOL GROUP COSMOS TECHNICAL CENTER CO., LTD

O1-19 [P01-39] **Concurrence of psoriasis vulgaris and atopic dermatitis exhibiting different expression of psoriatic autoantigens in the lesional skin**

○ Sachiko Ono, Tetsuya Honda, Kenji Kabashima

Department of Dermatology, Kyoto University, Kyoto, Japan

O1-20 [P01-40] **Maresin-1 inhibits imiquimod-induced skin inflammation through an inhibition of IL-17A production in the skin**

○ Natsuko Sasaki, Yu Sawada, Motonobu Nakamura

The Department of Dermatology, University of occupational and environmental health, Kitakyusyu, Japan

O1-21 [P01-41] **Serum α1(I) collagen DNA as a potential biomarker for scleroderma patients**

○ Soichiro Sawamura, Masatoshi Jinnin, Miki Shimbara, Kayo Nakamura, Hideo Kudo, Kuniko Inoue, Wakana Nakayama, Ikko Kajihara, Satoshi Fukushima, Hironobu Ihn

Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan

O1-22 [P01-42] **The deficiency of Fli1 suppresses RALDH1 production in dermal dendritic cells, leading to Treg suppression and tissue fibrosis**

○ Shunsuke Miura[1,2], Yoshihide Asano[1], Ryosuke Saigusa[1], Takashi Yamashita[1], Kouki Nakamura[1], Megumi Hirabayashi[1], Takuya Miyagawa[1], Ayumi Yoshizaki[1], Maria Trojanowska[3], Shinichi Sato[1]

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O1-23 [P01-43] **Expression of serine racemase in epidermis: its influence on atopic dermatitis and inflammatory cytokines**

○ Yoko Yoshihisa[1], Maho Nakagawa[2], Mati Ur Rehman[3], Shoko Matsukuma[2], Teruhiko Makino[1], Hisashi Mori[4], Tadamichi Shimizu[1]

[1]Department of Dermatology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Sugitani, Toyama, Japan, [2]Advanced Technology Research Center, Fancl Research Institute, [3]Department of Radiology, Division of Radiation Oncology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, [4]Department of Molecular Neuroscience, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama

O1-24 [P01-44] **Dysregulated expression of immnune privilege molecules in the sweat gland neighbors cell infiltration in syringotropic autoimmune disorders**

○ Yurie Shimoda, Yoshimi Yamazaki, Manabu Ohyama

Department of Dermatology, Kyorin University School of Medicine, Tokyo, Japan

O1-25 [P01-45] **Involvement of satellite glial cell derived lipocalin-2 in the pathogenesis of NC/Nga mice with atopic dermatitis-like symptoms**

○ Nobuaki Takahashi[1], Mitsutoshi Tominaga[1], Ryohei Kosaka[1,2], Hironori Matsuda[1], Yasushi Suga[3], Hideoki Ogawa[1], Kenji Takamori[1,3]

[1]Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, Japan, [2]Department of Biological Science and Technology, Faculty of Industrial Science and Technology, Tokyo University of Science, Katsushika-ku, Japan, [3]Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan

O1-26 [P01-46] **Pharmacologic activation of Sirtuin3 mitigates organ fibrosis in systemic sclerosis**

○ Kaname Akamata[1,2], Jun Wei[2], Mitra Bhattacharyya[2], Paul Cheresh[3], Michael Y. Bonner[4], Jack L. Abiser[4,5], Kirtee Raparia[6], Mahesh P. Gupta[7], David W. Kamp[3,8], John Varga[2]

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O1-27 [P01-47] **Leveraging the therapeutic properties of superoxide dismutase overexpressed in mesenchymal stem cell for the treatment of atopic dermatitis**

○ Shyam K Sah, Gaurav Agrahari, Lee J Tak, Tae Y Kim

Laboratory of Dermato-Immunology, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea

O1-28 [P01-48] **Loss of IL-33 alters cytokine profile in imiquimod-induced psoriasis model**

○ Hidetoshi Tsuda[1], Mayumi Komine[1], Susumu Nakae[2], Mamitaro Ohtsuki[1]

[1]Department of Dermatology, Jichi Medical University, [2]Laboratory of Systems Biology, Center for Experimental Medicine and Systems Biology, The Institute of Medical Science, The University of Tokyo

O1-29 [P01-49] **Topical Dexamethasone application increased IL-1α and IL-1 receptor expression in mouse skin**

○ Sayaka Matsumura[1], Mika Terao[1,2], Satoshi Itami[2], Ichiro Katayama[1]

[1]Department of Dermatology, Osaka University Graduate School of Medicine, [2]Department of Regenerative Dermatology, Osaka University Graduate School of Medicine

O1-30 [P01-50] **CX3CR1 deficiency attenuates DNFB-induced contact hypersensitivity**

○ Sayaka Otobe[1], Tomomitsu Miyagaki[1], Makoto Sugaya[1,2], Shinichi Sato[1]

[1]Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo, Japan, [2]Department of Dermatology, International University of Health and Welfare, Chiba, Japan

O1-31 [P01-51] **Toll-like receptor 3 activation results in IL-33 promoter activation through IRF3 transcription factor depending on EGFR activation in NHEKs**

○ Meijuan Jin, Mayumi Komine, Hidetoshi Tsuda, Mamitaro Ohtsuki

The Department of Dermatology, Jichi Medical University, Tochigi, Japan

O1-32 [P01-52] **No apparent ubiquitin accumulation in a skin lesion of *PSMB9*-related proteasome-associated autoinflammatory syndrome**

○ Kayo Kunimoto[1], Yumi Nakatani[1], Yutaka Inaba[1], Noriko Kinjo[2], Akira Kinoshita[3], Koichiro Yoshiura[3], Nobuo Kanazawa[1]

[1]Department of Dermatology, Wakayama Medical University, Wakayama, Japan, [2]Department of Pediatrics, University of the Ryukyus, [3]Department of Human Genetics, Atomic Bomb Disease Institute, Nagasaki University

O1-33 [P01-53] **Bullous pemphigoid IgG induces methuosis-like cell death on cultured keratinocytes**

○ Duerna Tie[2], Xia Da[1], Yuko Chinuki[1], Sakae Kaneko[1], Osamu Yamamoto[2], Eishin Morita[1]

[1]Department of Dermatology, Shimane University Faculty of Medicine, Izumo, Japan, [2]Division of Dermatology Department of Medicine of Sensory and Motor Organs Faculty of Medicine, Tottori University

O1-34 [P01-54] **Immunomodulatory effects of FX11, 3-bromopyruvate, and butyrate on peripheral blood mononuclear cells of patients with Behçet's disease**

Sun Park[1], Sujin Yun[1], Ji Young Yang[2], Mi Jin Park[2], ○ Eun-So Lee[2]

[1]Department of Microbiology and Immunology, Ajou University School of Medicine, Suwon, Korea, [2]Department of Dermatology, Ajou University School of Medicine, Suwon, Korea

O1-35 [P01-55] **Increased YKL-40 expression in cutaneous T-cell lymphoma**

○ Hideko Suzuki[1], Tomomitsu Miyagaki[1], Tomonori Oka[1], Taro Akatsuka[1], Hiroaki Kamijyo[1], Rina Nakajima[1], Naomi Shishido[1], Hiraku Suga[1], Makoto Sugaya[2], Shinichi Sato[1]

[1]Department of Dermatology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, [2]Department of Dermatology, International University of Health and Welfare, Chiba, Japan

O1-36 [P01-56] **Analysis of autoantibodies against epidermis in patients with inflammatory myopathy**

○ Miho Kabuto[1], Noriki Fujimoto[1], Toshifumi Takahashi[1], Chiharu Tateishi[2], Daisuke Tsuruta[2], Toshihiro Tanaka[1]

[1]Department of Dermatology, Shiga University of Medical Science, Shiga, Japan, [2]Department of Dermatology, Osaka City University Graduate School of Medicine

O1-37 [P01-57] **Skin inflammation and brain blood circulation; the anti-IL-1 therapy ameliorates cerebral circulation**

○ Yoshiaki Matsushima[1], Shinya Kato[2], Kento Mizutani[1], Fumihiro Kawakita[3], Masashi Fujimoto[3], Karin Okada[1], Makoto Kondo[1], Koji Habe[1], Hidenori Suzuki[3], Hitoshi Mizutani[1], Keiichi Yamanaka[1]

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O1-38 [P01-58] **Decreased progranulin expression in cutaneous T-cell lymphoma and atopic dermatitis.**

○ Rina Nakajima[1], Tomomitsu Miyagaki[1], Hiroaki Kamijo[1], Sayaka Otobe[1], Taro Akatsuka[1], Tomonori Oka[1], Naomi Takahashi[1], Hiraku Suga[1], Makoto Sugaya[1,2], Shinichi Sato[1]

[1]Department of Dermatology, The University of Tokyo Graduate School of Medicine, Tokyo, Japan, [2]Department of Dermatology, International University of Health and Welfare, Chiba, Japan

O1-39 [P01-59] **The role of purinergic signaling in development of irritant dermatitis of acrodermatitis enteropathica**

○ Youichi Ogawa, Shinji Shimada, Tatsuyoshi Kawamura

Department of Dermatology, University of Yamanashi, Yamanashi, Japan

O1-40 [P01-60] **Targeting protein kinase B by a novel phenanthrene compound that inhibits neutrophilic inflammation**

○ Tsong-Long Hwang

Graduate Institute of Natural Products, Chang Gung University; Graduate Institute of Health Industry Technology, Chang Gung University of Science and Technology, Taoyuan, Taiwan

O1-41 [P01-61] **Bee Venom Phospholipase A2 increases poly(I:C)-induced IL-8 production in HaCaT cells**

○ Akina Nakashima[1], Sachiko Akashi-Takamura[2], Takeshi Yanagishita[1], Daisuke Watanabe[1]

[1]The Department of Dermatology, Aichi Medical University, Aichi, Japan, [2]Department of Microbiology and Immunology, Aichi Medical University, Aichi, Japan

O1-42 [P01-62] **The role of amphiregulin, an epidermal growth factor receptor ligand, in the development of systemic sclerosis**

○ Ryosuke Saigusa, Yoshihide Asano, Yuki Fukui, Takuya Miyagawa, Megumi Hirabayashi, Kouki Nakamura, Shunsuke Miura, Takashi Yamashita, Takashi Taniguchi, Ayumi Yoshizaki, Shinichi Sato

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

O1-43 [P01-63] **Long-lasting severe inflammation and hyper immunoglobulin G; aggregation and deposition in multiple organs**

○ Karin Okada[1,2], Naohiro Seo[2], Kento Mizutani[1], Yoshiaki Matsushima[1], Makoto Kondo[1], Koji Habe[1], Hitoshi Mizutani[1], Keiichi Yamanaka[1]

[1]Department of Dermatology, Mie University, Graduate School of Medicine, Tsu, Mie, [2]Department of Immuno-Gene Therapy, Mie University, Graduate School of Medicine, Tsu, Mie

O1-44 [P01-64] **IL-17 and neutrophil in psoriasis**

○ Kento Mizutani, Yoshiaki Matsushima, Karin Okada, Makoto Kondo, Masato Kakeda, Koji Habe, Hitoshi Mizutani, Keiichi Yamanaka

The Department of Dermatology, University of Mie, Mie, Japan

O1-45 [P08-04] **Niche-derived KITL is essential for the self-renewal of melanocyte stem cells**

○ Yasuaki Mohri[1], Naotaka Serizawa[1], Takahiro Aoto[1], Hironobu Morinaga[1], Sean Morrison[2], Emi K. Nishimura[1]

[1]Department of Stem Cell Biology, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan, [2]University of Texas Southwestern Medical Center, Dallas, TX, USA

O1-46 [P08-05][SE] **Mesenchymal stem cells-derived MFG-E8 accelerates diabetic cutaneous wound healing**

○ Sei-ichiro Motegi, Akihiko Uchiyama, Akiko Sekiguchi, Chisako Fujiwara, Buddhini Perera, Sahori Yamazaki, Sachiko Ogino, Yoko Yokoyama, Osamu Ishikawa

Department of Dermatology, Gunma University Graduate School of Medicine

O1-47 [P08-06] **Derivation of induced pluripotent stem cells (iPSCs) from NY-ESO-1-specific CD8+ T cell isolated from the patient with melanoma**

○ Munenari Itoh[1], Shiho Kawagoe[1], Hirotaka-James Okano[2], Hidemi Nakagawa[1]

[1]Department of Dermatology, The Jikei University School of Medicine, Tokyo, Japan, [2]Division of Regenerative Medicine, The Jikei University School of Medicine

O1-48 [P08-08] **Plastic mesenchymal stem cells are not activated mitochondria.**

○ Takeshi Yamauchi, Kenshi Yamasaki, Kenichiro Tsuchiyama, Saaya Koike, Setsuya Aiba

Department of dermatology, Tohoku University Graduated School of Medicine, Miyagi, Japan

O1-49 [P08-09] **A method to differentiate peripheral neurons from human induced pluripotent stem cells to develop treatments for intractable itch**

○ Yoshie Umehara[1], Mitsutoshi Tominaga[1], Hironori Matsuda[1], Nobuaki Takahashi[1], Yayoi Kamata[1], Hideoki Ogawa[1], Kenji Takamori[1,2]

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

O1-50 [P08-10] **Innate defense regulator IDR-1018 activates human mast cells through G protein-, phospholipase C-, MAPK- and NF-kappaB-sensitive pathways**

○ Kensuke Yanashima[1], Panjit Chieosilapatham[1,2], Ko Okumura[1], Hideoki Ogawa[1], Francois Niyonsaba[1,3]

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

O1-51 [P08-11] **Inhibition of collagen synthesis by a small molecule tankyrase inhibitor IWR-1 in fibroblasts**

○ Cho-Ah Lim, Ji-Young Kim, Jung-Woo Ko, Chang Deok Kim, Jeung-Hoon Lee

Department of Dermatology, School of Medicine, Chungnam National University, Daejeon, Korea

O1-52 [P08-12] **N2 non-thermal atmospheric pressure plasma promotes wound healing in vitro and in vivo: Potential modulation of adhesion molecules and MMP-9**

○ Sung Un Kang

The Department of Otolaryngology, Ajou University school of Medicine, Suwon, Korea

O1-53 [P08-13] **The effect of Ambrisentan and Basic Fibroblast Growth Factor combination therapy for impaired wound healing by bleomycin treatment in mice**

○ Masato Ishikawa, Toshiyuki Yamamoto

The Department of Dermatology, Fukushima medical University, Fukushima, Japan

O1-54 [P08-14] **Radiation skin ulcer following cardiac fluoroscopic interventions: an emerging but overlooked complication**

○ Kai-Che Wei[1], Wen-Hua Wang[1], Hsiu-Hui Chiu[2]

[1]Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan, [2]Department of Dermatology, Pingtung Christian Hospital, Taiwan

December 15, 2017, Room B

Luncheon Seminar 2
"Regulatory mechanism of autophagy in human skin cells"

12:10-13:10 Chairs: Masutaka Furue, Shinji Shimada

LS2-1 **The roles of autophagy in human keratinocytes**

○ Gaku Tsuji
Department of Dermatology, Graduate School of Medical Sciences, Kyushu University

LS2-2 **The regulatory mechanism of autophagy in melanocytes**

○ Chengfeng Zhang[1], Li Chen[1], Leihong Flora Xiang[1], Xianghong Yan[2]
[1]Huashan Hospital, Fudan University, Shanghai, China, [2]P&G Innovation Godo Kaisha

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Concurrent Oral Session 2
(Pigmentation and Melanoma, Photobiology)

13:20-14:44 Chairs: Nikolas Haass, Jin Ho Chung, Toshiyuki Yamamoto

C02-1 [P13-02] 13:20-13:32 **Melanocyte-specific ablation of TSC2 induces skin depigmentation in mice**

○ Fei Yang, Lingli Yang, Mari Wataya-Kaneda, Atsushi Tanemura, Ichiro Katayama
Department of Dermatology, Course of Integrated Medicine, Graduate School of Medicine, Osaka University, Osaka, Japan

C02-2 [P13-04] 13:32-13:44 **The reprogramming factors introduced melanoma cells lose malignant nature *in vitro* and *in vivo***

○ Mikiro Takaishi, Shigetoshi Sano
Department of Dermatology, Kochi University, Nankoku, Japan

C02-3 [P13-10] 13:44-13:56 **Dysregulation of autophagy in melanocytes contributes to hypopigmented macules in tuberous sclerosis complex**

○ Lingli Yang, Fei Yang, Mari Wataya-Kaneda, Atsushi Tanemura, Ichiro Katayama
Department of Dermatology, Course of Integrated Medicine, Graduate School of Medicine, Osaka University

C02-4 [P13-11] 13:56-14:08 **6-SG induces anti-oxidant activity and promotes melanin synthesis: Promising transcutaneous therapy for skin hypopigmented disorder**

○ Ichiro Katayama, Lingli Yang, Fei Yang, Noriko Arase
Department of Dermatology, Course of Integrated Medicine, Graduate School of Medicine, Osaka University

C02-5 [P12-02] 14:08-14:20 **Potential therapeutic role of tryptophan photo-product FICZ in scleroderma by upregulating FICZ/AHR/MMP1 pathway**

○ Mika Murai[1], Kazuhiko Yamamura[1,3], Chikage Mitoma[1,2], Gaku Tsuji[1], Akiko Hachiya-Hashimoto[1], Masutaka Furue[1,2]
[1]The Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, [2]Research and Clinical Center for Yusho and Dioxin, Kyushu University Hospital, [3]Moji Hospital

C02-6 [P12-03] 14:20-14:32 **UVA and UVB-induced oxidative stress in live mouse skin—lack of XPA prolongs recovery from oxidative stress—**

○ Yoko Funasaka[1], Alexander M Wolf[2], Naomi Kamimura[2], Yoichi Yabuki[1], Fumino Oda[1], Shigeo Ohta[3], Hidehisa Saeki[1]
[1]Department of Dermatology, Nippon Medical School, Tokyo, Japan, [2]Department of Biochemistry and Cell Biology, Nippon Medical School, [3]Department of Neurology, Juntendo University Graduate School of Medicine

C02-7 [P12-04] 14:32-14:44 **Aquatide Activation of SIRT1 Reduces UV Irradiation-Induced Skin Aging *via* Autophagy Induction**

Keedon Park[1], Chae Jin Lim[1], Yong-Moon Lee[2], Kyong-Oh Shin[2], Se Kyoo Jeong[3], Yang Hoon Huh[4], Yoshikazu Uchida[5], ○ Kyungho Park[6]
[1]Peptide R&D Center, Incospharm Corporation, Daejeon, Korea, [2]College of Pharmacy Chungbuk National University, Cheongju, Korea, [3]Department of Cosmetic Science, Seowon University, Cheongju, Korea, [4]Korea Basic Science Institute, Cheongju, Korea, [5]Department of Dermatology, University of California, San Francisco, CA, USA, [6]Department of Food Science and Nutrition, Hallym University, Chuncheon, Korea

Afternoon Seminar 1
"Harvesting the fruits of work in dermatological research"

14:55-15:55 Chair: Akimichi Morita

AS1-1 **Medical-engineering collaboration brings novel strategies for revealing the pathogenesis of autoimmune diseases**

○ Ayumi Yoshizaki
Department of Dermatology, The University of Tokyo Graduate School of Medicine

AS1-2 **Intravital imaging of skin immune responses**

○ Gyohei Egawa
Department of Dermatology, Kyoto University, Kyoto, Japan

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One-minute presentation "Come to see my poster" 2
(Carcinogenesis/Growth Factors/Signal Transduction/Cancer Genetics, Human Clinical Research and Therapeutics, Epidemiology/Health Service Research)

17:45-18:40 Chair: Shinichi Imafuku

O2-01 [P02-09] **Synergistic effects of vemurafenib and FTY720 (fingolimod) on vemurafenib- resistant melanoma cell line**

○ Tomoko Takahashi, Naoko Abe, Hiroyuki Kanoh, Yoshiko Banno, Mariko Seishima
The Department of Dermatology, University Graduate School of Medicine, Gifu, Japan

O2-02 [P02-10] **Enhancement of lysosomal function contributes to Imiquimod-acquired resistance in skin cancer cells**

○ Shu Hao Chang[1], Shi-Wei Huang[3], Chen-Chin Cheng[2], Chun-Ying Wu[1,5], Jeng-Jer Shieh[2,3,4]
[1]Institute of Clinical Medicine, National Yang-Ming University, Taipei, Taiwan, [2]Institute of Biomedical Sciences, National Chung Hsing University, Taichung, Taiwan, [3]Department of Education and Research, Taichung Veterans General Hospital, Taichung, Taiwan, [4]Rong Hsing Research Center for Translational Medicine, National Chung Hsing University, Taichung, Taiwan, [5]Division of Gastroenterology and Hepatology, Taichung Veterans General Hospital, Taichung, Taiwan

O2-03 [P02-11] **Bexarotene modulates the production of CCL22 from tumor-associated macrophages in patients with mycosis fungoides.**

○ Kayo Tanita, Taku Fujimura, Yota Sato, Lyu Chunbing, Sadanori Furudate, Yumi Kambayashi, Setsuya Aiba
The Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan

O2-04 [P02-12] **Targeting Glycolysis Enhance Imiquimod-induced Immunogenic Cell Death and Anti-tumor Immunity**

○ Shi-Wei Huang[1], Sin-Ting Wang[2,3], Jeng-Jer Shieh[1,3]
[1]The Department of Education and Research, Taichung Veterans General Hospital, Taichung, Taiwan, [2]Division of Gastroenterology and Hepatology, Taichung Veterans General Hospital, Taichung, Taiwan, [3]Institute of Biomedical Sciences, National Chung Hsing University, Taichung, Taiwan

O2-05 [P02-13] **Tumor-suppressive effects of interferon-β through interleukin-24 in melanoma**

○ Yoshinori Watanabe, Yoshimasa Nobeyama, Munenari Itoh, Hidemi Nakagawa
The Jikei University school of medicine

O2-06 [P02-14] **Cell adhesion molecule 1 is a prognostic factor in patients with mycosis fungoides**

○ Emi Mahima, Yu Sawada, Takashi Yamaguchi, Haruna Yoshioka, Shun Ohmori, Sanehito Haruyama, Manabu Yoshioka, Etsuko Okada, Motonobu Nakamura
Department of Dermatology, University of Occupational and Environmental Health, Kitakyushu, Japan

O2-07 [P02-15] **The protective function of EGR-1 in the Compound C-induced apoptotic cell death**

○ Kai-Cheng Chuang[1], Fan-Wen Chen[1], Meng-Hsiun Tsai[2,3], Jeng-Jer Shieh[1,4,5]
[1]Institute of Biomedical Sciences, National Chung Hsing University, Taichung, Taiwan, [2]Department of Management Information System, National Chung Hsing University, Taichung City, Taiwan, [3]Institute of Genomics and Bioinformatics, National Chung Hsing University, Taichung City, Taiwan, [4]Department of Education and Research, Taichung Veterans General Hospital, Taichung City, Taiwan, [5]Rong Hsing Research Center for Translational Medicine, National Chung Hsing University, Taichung City, Taiwan

O2-08 [P02-16] **Tumor-associated macrophages recruit IL-17 producing cells to promote development of cutaneous squamous cell carcinoma.**

○ Yota Sato, Taku Fujimura, Kayo Tanita, Lyu Chunbing, Takeshi Yamauchi, Setsuya Aiba
Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan

O2-09 [P02-17] **Src pathway as a potential therapeutic target in combination with histone deacetylase inhibitors for cutaneous T-cell lymphoma**

○ Nozomi Jimura[1,2], Kazuyasu Fujii[1], Shii Kyou[2], Rieko Oyama[2], Fusako Kitou[2], Tadashi Kondo[2], Takuro Kanekura[1]

[1]The Department of Dermatology, University of Kagoshima, Kagoshima, Japan, [2]The div. Rare Cancer Research, National Cancer Center Research Institute

O2-10 [P02-18] **Evaluation of the mouse brain activity during lasting itch behavior using manganese-enhanced MRI**

○ Norie Aizawa[1], Yozo Ishiuji[1], Sanae Inokuchi[1], Daigo Arimura[2,3,4], Kei Shinohara[4], Yukari Takahashi[2,3], Fusao Kato[2,3], Hidemi Nakagawa[1]

[1]Department of Dermatology, The Jikei University School of Medicine, Tokyo, Japan, [2]Department of Neuroscience, The Jikei University School of Medicine, Tokyo, Japan, [3]Center for Neuroscience of Pain, The Jikei University School of Medicine, Tokyo, Japan, [4]Department of Orthopedic surgery, The Jikei University School of Medicine, Tokyo, Japan

O2-11 [P02-19] **Histone deacetylase inhibitors suppress the growth of angiosarcoma cells**

○ Mai Kanemaru, Makoto Wada, Takahiro Arita, Yoshinori Yamada, Jun Asai, Norito Katoh

Department of Dermatology, Kyoto Prefectural University of Medicine, Kyoto, Japan

O2-12 [P02-20] **Upregulation of CREB by beta-catenin in squamous cell carcinoma cells**

○ Jeong-Min Ha, Ji-Young Kim, Cho-Ah Lim, Jung-Woo Ko, Chang Deok Kim, Jeung-Hoon Lee

The Department of Dermatology, School of Medicine, Chungnam National University, Daejeon, Korea

O2-13 [P02-21] **Comparative analysis of the expression of a transcription factor, E2F4, in skin tumors**

○ Hiroshi Mitsui, Shinji Shimada, Tatsuyoshi Kawamura

The Department of Dermatology, University of Yamanashi, Yamanashi, Japan

O2-14 [P02-22] **Analyzing ganglioside expression of cutaneous malignant lymphoma**

○ Eiji Kiyohara, Ichiro Katayama

Department of Dermatology, Osaka University

O2-15 [P02-23] **A dichotomous structure of angiomatoid fibrous histiocytoma revealed by immunohistochemistry**

○ Ryosuke Yamashita[1], Toshiaki Kogame[1,2], Tatsuki Kataoka[3], Masahiro Hirata[3], Chiyuki Ueshima[3], Takashi Nomura[1], Kenji Kabashima[1]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, [2]Ijinkai Takeda General Hospital, Kyoto, Japan, [3]Department of Diagnostic Pathology, Kyoto University Hospital, Kyoto, Japan

O2-16 [P02-24] **Impact of constant movement on skin around the eye: a biomechanical approach**

○ Dawn Layman[1], Nadine Pernodet[1,2]

[1]ESTEE LAUDER COMPANIES, R&D, Melville, NY, [2]SUNY, Stony Brook, NY

O2-17 [P02-25] **Somatic SF3B1 mutation in mucosal melanoma from a Japanese female**

○ Naoki Oiso[1], Kazuko Sakai[2], Tomohiko Narita[1], Shigeto Yanagihara[1], Kazuto Nishio[2], Akira Kawada[1]

[1]Department of Dermatology, Kindai University Faculty of Medicine, Osaka-Sayama, Japan, [2]Department of Genome biology, Kindai University Faculty of Medicine, Osaka-Sayama, Japan

O2-18 [P04-12] **Association with serum/PBMC levels of HHV-6 miRNAs with clinical severity of DIHS/DRESS patients**

○ Kazuya Miyashita, Fumi Miyagawa, Yuki Nakamura, Rie Onmori, Hiroaki Azukizawa, Hideo Asada

Department of Dermatology, Nara Medical University School of Medicine, Kashihara, Japan

O2-19 [P04-14] **Decreased IL-10-producing regulatory B cells in advanced mycosis fungoides**

○ Tomomitsu Miyagaki[1], Taro Akatsuka[1], Rina Nakajima[1], Hiroaki Kamijo[1], Tomonori Oka[1], Naomi Takahashi[1], Hiraku Suga[1], Makoto Sugaya[1,2], Shinichi Sato[1]

[1]Department of Dermatology, the University of Tokyo Graduate School of Medicine, Tokyo, Japan, [2]Department of Dermatology, International University of Health and Welfare, Chiba

O2-20 [P04-15] **CD137-CD137L interactions promotes proliferation and survival of cutaneous T-cell lymphoma through multiple signaling pathways**

○ Hiroaki Kamijo[1], Tomomitsu Miyagaki[1], Tomonori Oka[1], Naomi Takahashi[1], Hiraku Suga[1], Makoto Sugaya[1,2], Shinichi Sato[1]

[1]Department of Dermatology, The University of Tokyo Graduate School of Medicine, Tokyo, Japan, [2]Department of Dermatology, International University of Health and Welfare, Chiba, Japan

O2-21 [P04-16] **IL-10-producing regulatory B cells are decreased in patients with severe atopic dermatitis: a possible contribution of IL-6 in B10 cells.**

○ Yuki Yoshihara, Koichi Yanaba, Mitsuha Hayashi, Miki Chiba, Yozo Ishiuji, Takaoki Ishiji, Hidemi Nakagawa

The Jikei University School of Medicine, Department of Dermatology, Tokyo, Japan

O2-22 [P04-19] **Safety dose of IFN-beta in combination with nivolumab in patients with advanced melanoma**

○ Taku Fujimura, Yumi Kambayashi, Sadanori Furudate, Takanori Hidaka, Hisayuki Tono, Yota Sato, Kayo Tanita, Akira Hashimoto, Setsuya Aiba

Tohoku University Graduate School of Medicine

O2-23 [P04-21] **Upregulated expression of CD86 on circulating intermediate monocytes correlated with disease severity in patient with psoriasis.**

○Chuyen Thi Hong Nguyen, Nhung Thi My Ly, Naotomo Kambe, Fumikazu Yamazaki, Ikuko Ueda-Hayakawa, Izumi Kishimoto, Hiroyuki Okamoto

The Department of Dermatology, Kansai Medical University, Osaka, Japan

O2-24 [P04-22] **Utility of IFN-γ ELISpot assay using anti-PD-L1 antibodies for identifying hypersensitivity-inducing drug culprits.**

○Asami Kawase[1], Hiroaki Azukizawa[1], Kenichi Kato[2,3], Ichiro Katayama[2], Hideo Asada[1]

[1]Department of Dermatology, Nara Medical University, Nara, Japan, [2]Department of Dermatology, Osaka University, [3]Dermatology, Kinki Central Hospital

O2-25 [P04-23] **Analysis of the serum factor responsible for suppressing basophil FcεRI-mediated activation in patients with chronic spontaneous urticaria.**

○Takahiro Endo[1,2], Shota Toyoshima[2,3], Nobuyuki Nishimori[1,2], Satoshi Izaki[1,2], Kazuko Kanegae[2,3], Tomomi Sakamoto[2,3], Koremasa Hayama[1,2], Chisei Ra[4], Yoshimichi Okayama[2,3], Tadashi Terui[1,2]

[1]Department of Dermatology, Nihon University, Tokyo, Japan, [2]Allergy and Immunology Research Projects Team, Nihon University, Tokyo, Japan, [3]Center for Institutional Research and Medical Education, Nihon University, Tokyo, Japan, [4]Department of Microbiology, Nihon University, Tokyo, Japan

O2-26 [P04-24] **Microbiopsy biomarker profiling in a superficial melanoma resembling a pigmented basal cell carcinoma**

○Miko Yamada[1,2], Priyamvada Sobarun[1], Van Hoang[1], Duncan Lambie[3], H Peter Soyer[1,4], Tarl Prow[1,2]

[1]Dermatology Research Centre, University of Queensland, Brisbane, Australia, [2]Future Industries Institute, University of South Australia, [3]IQ Pathology, Brisbane, QLD, Australia, [4]Department of Dermatology, Princess Alexandra Hospital, Brisbane, QLD, Australia

O2-27 [P04-25] **The balance of omega 3 and omega 6 polyunsaturated fatty acids in Japanese psoriasis patients.**

○Emi Nishida, Kyoko Ikumi, Shinnosuke Muramatsu, Akimichi Morita

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

O2-28 [P04-26] **A possible contribution of TIGIT expression on $CD4^+$ T cells in patients with atopic dermatitis**

○Miki Chiba, Koichi Yanaba, Mami Chihara, Yuki Yoshihara, Yozo Ishiuji, Takaoki Ishiji, Hidemi Nakagawa

The Department of Dermatology, The Jikei University School of Medicine, Tokyo, Japan

O2-29 [P04-27] **Withdrawn**

O2-30 [P04-28] **Increased CD244 and CD48 expression in cutaneous T-cell lymphoma**

○Tomonori Oka, Tomomitsu Miyagaki, Naomi Takahashi, Hiroaki Kamijo, Rina Nakajima, Hiraku Suga, Makoto Sugaya, Shinichi Sato

The Department of Dermatology, University of Tokyo, Tokyo, Japan

O2-31 [P04-29] **Prurigo nodularis as a sweat gland/duct disorder: resolution associated with restoration of sweating disturbance.**

○Chieko Katayama, Yuki Hayashida, Yumi Aoyama

The Department of Dermatology, Kawasaki Medical School General Medical Center, Okayama, Japan

O2-32 [P04-30] **Expression of CADM1 as a possible molecular marker for early-stage mycosis fungoides**

○Akihiko Yuki[1], Hiroki Fujikawa[1], Ryota Hayashi[1], Satoru Shinkuma[1], Erina Homma[2], Yohei Hamade[2], Masao Matsuoka[3], Hiroshi Shimizu[2], Hiroaki Iwata[2], Riichiro Abe[1]

[1]Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, [2]Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, [3]Laboratory of Virus Control, Institute for Frontier Life and Medical Sciences, Kyoto University, Kyoto, Japan

O2-33 [P04-31] **Microbiopsy skin sampling in volunteers reveals no oxidative stress detected after applying sunscreen with zinc-oxide nanoparticles**

○Tarl Prow[1,2], Lydia Hang[1], Lynlee Lin[1], Miko Yamada[1,2], H Peter Soyer[1], Anthony Raphael[1]

[1]Dermatology Research Centre, University of Queensland, Brisbane, Australia, [2]Future Industries Institute, University of South Australia

O2-34 [P04-32] **Nail lesions as a risk of psoriatic spondyloarthritis**

○Kyoko Ikumi, Emi Nishida, Akimichi Morita

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

O2-35 [P04-33] **Topical aluminium application replicated abnormal keratinocyte terminal differentiation in granular parakeratosis**

○Mizue Fujii[1], Haruki Doi[1], Takashi Anan[2], Akemi Ishida-Yamamoto[1]

[1]The Department of Dermatology, Asahikawa Medical University, Asahikawa, Japan, [2]Sapporo Dermatopathology Institute

O2-36 [P04-34] **Clinical evaluation of a microwave device for primary axillary hyperhidrosis in Asians: a randomized, rater-blinded, comparative study**

○ Chikako Kaminaka[1,2], Masatoshi Jinnin[1], Yuki Yamamoto[1,2]

[1]Department of Dermatology, Wakayama Medical University, Wakayama, Japan, [2]Department of Cosmetic Dermatology and Photomedicine, Wakayama Medical University, Wakayama, Japan

O2-37 [P04-35] **Immunohistochemical analysis of macrophage polarization in sarcoidosis with cutaneous lesions**

○ Taro Isohisa[1], Jun Asai[1], Yukiyasu Arakawa[1], Mai Kanemaru[1], Takahiro Arita[1], Yoshinori Yamada[1], Minako Onishi[1], Eiichi Konishi[2], Norito Katoh[1]

[1]Department of Dermatology, Kyoto Prefectural University of Medicine Graduate School of Medical Science, Kyoto, Japan, [2]Department of Surgical Pathology, Kyoto Prefectural University of Medicine, Kyoto, Japan

O2-38 [P04-36] **Decreased GPNMB expression in patients with psoriasis**

○ Taro Akatsuka[1], Tomomitsu Miyagaki[1], Tomonori Oka[1], Hiraku Suga[1], Ayumi Yoshizaki[1], Masahiro Kamata[1], Yoshihide Asano[1], Makoto Sugaya[1,2], Shinichi Sato[1]

[1]Department of Dermatology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, [2]Department of Dermatology, International University of Health and Welfare, Chiba, Japan

O2-39 [P04-37] **Comparative effects of the biologics TNF-αinhibitors, ustekinumab, and secukinumab on body weight of Japanese patients with psoriasis**

○ Saori Takamura, Aya Takahashi, Yumiko Inoue, Tomoo Fukuda, Yuichi Teraki

The Department of Dermatology, Saitama Medical Center, Saitama Medical University, Saitama, Japan

O2-40 [P04-38] **Topical washing with miconazole soap for the preventive use to diaper candidiasis: a prospective, double-blind, placebo-controlled trial**

○ Noritaka Oyama[1], Hidenori Takahashi[1,2], Izumi Tanaka[3], Michiko Hasegawa[3], Kaori Hirano[4], Chieko Shimada[4], Minoru Hasegawa[1]

[1]Department of Dermatology, Faculty of Medical Sciences, University of Fukui, Fukui, Japan, [2]Dermatology Division, Japan Community Health Care Organization, Fukui Katsuyama General Hospital, [3]Department of Nursing, Japan Community Health Care Organization, Fukui Katsuyama General Hospital, [4]Department of Clinical Examination, Japan Community Health Care Organization, Fukui Katsuyama General Hospital

O2-41 [P04-39] **Non-pure Merkel cell carcinoma: A clinicopathological study with assessment of immunohistochemical findings**

○ Kotaro Nagase, Hiromi Kimura, Taro Shinogi, Takuya Inoue, Yutaka Narisawa

Division of Dermatology, Department of Internal Medicine, Faculty of Medicine, Saga University, Saga, Japan

O2-42 [P04-40] **Effects of Japanese sake yeast supplementation on human skin elasticity and analysis of its mechanism**

○ Kengo Oka[1], Tatsuyuki Midorikawa[1,2], Tomomi Sano[1], Yoshitaka Nakamura[1,2], Taku Iwamoto[1], Yuko Obayashi[1], Yuki Nagamori[1], Noriyuki Monoi[1], Akira Uchiyama[1], Michiaki Murakoshi[1,3], Yoshihiro Urade[3]

[1]Lion Corp., [2]WPI-IIIS, Univ. of Tsukuba, [3]Kyoto Pref. Univ. of Medicine

O2-43 [P04-41] **Use of Skin Fibrometer® for measuring skin elasticity and its correlation with Cutometer® and DUB® Skin scanner**

○ Min Ah Kim, June Whan Park, Byung Fhy Suh, Hae Kwang Lee

Skincare Research Institute, Amorepacific R&D CENTER, Yongin, Korea

O2-44 [P04-42] **Value of shear wave elastography (SWE) for differentiating epidermal cyst, lipoma and pilomatricoma**

○ Chinatsu Shobatake[1], Toshiko Hirai[2], Kohei Ogawa[1], Fumi Miyagawa[1], Hiroaki Azukizawa[1], Hideo Asada[1]

[1]Department of Deramatology, Nara Medical University, Japan, [2]Department of General Diagnostic Imaging Center, Nara Medical University Hospital, Nara, Japan

O2-45 [P04-43] **Clinical Characterization of Oral Symptoms in 6 Paraneoplastic Pemphigus Patients.**

○ Kohei Fujita[1], Jun Yamagami[2], Masayuki Amagai[2], Kazuyuki Tsunoda[1], Taneaki Nakagawa[1]

[1]Department of Dentistry and Oral Surgery, Keio University School of Medicine, Tokyo, Japan, [2]Department of Dermatology, Keio University School of Medicine

O2-46 [P04-44] **Association between skin tags and metabolic syndrome**

○ Trinh Ngo Binh

Vinmec Central Park International Hospital, Ho Chi Minh city, Viet Nam

O2-47 [P04-45] **Effects of propolis on epidermal keratinocytes**

○ Jung-Woo Ko, Ji-Young Kim, Cho-Ah Lim, Chang Deok Kim, Jeung-Hoon Lee

Department of Dermatology, School of Medicine, Chungnam National University, Daejeon, Korea

O2-48 [P04-46] **New insight into self-perceived skin fatigue**

○ Mei Yu[1], Binwei Deng[1], Caroline Pollefliet[2], Hugo Corstjens[2], Tom Mammone[3], Kurt Schilling[4], Lieve Declercq[2]

[1]Estee Lauder Companies, Shanghai, China, [2]Estee Lauder Companies, Oevel, Belgium, [3]Clinique Laboratories, Estee Lauder Companies, Melville, NY, US, [4]Estee Lauder Companies, Melville, NY, US

O2-49 [P04-47] **The efficacy and safety of topical combination therapy for facial angiofibroma in patients with tuberous sclerosis complex**

○ Yi-Hua Liao[1], Jin-Bon Hong[1], Pei-Lung Chen[2,3], Li-Jiuan Shen[4]

[1]Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, [2]Graduate Institute of Medical Genomics and Proteomics, College of Medicine, National Taiwan University, [3]Department of Medical Genetics, National Taiwan University Hospital, [4]Graduate Institute of Clinical Pharmacy/School of Pharmacy, College of Medicine, National Taiwan University

O2-50 [P06-03] **High load of MCPyV in the nonlesional skin of patients with Merkel cell carcinoma and among a cohort of asymptomatic elderly individuals**

○ Yumiko Hashida[1], Tomonori Higuchi[1], Shigenobu Matsuzaki[1], Kimiko Nakajima[2], Shigetoshi Sano[2], Masanori Daibata[1]

[1]Department of Microbiology and Infection, Kochi Medical School, Kochi University, Kochi, Japan, [2]Department of Dermatology, Kochi Medical School, Kochi University, Kochi, Japan

O2-51 [P06-04] **Influence of infection and antibiotic exposure on the development of atopic dermatitis: a nationwide population-based case-control study**

○ Chong Won Choi[1], Bo Ram Yang[2], Dong In Suh[3], So-Hyun Choi[2], Jungyoon Ohn[1], Jong Soo Hong[1], Joongyub Lee[2], Kyu Han Kim[1]

[1]Department of Dermatology, Seoul National University College of Medicine, Seoul, Republic of Korea, [2]Division of Clinical Epidemiology, Medical Research Collaborating Center, Biomedical Research Institution, Seoul National University Hospital, [3]Department of Pediatrics, Seoul National University Children's Hospital

O2-52 [P06-05] **Molecular epidemiology of *Microsporum canis* isolated in Japan based on multilocus microsatellite typing fragment analysis**

○ Junko Watanabe, Kazushi Anzawa, Akiko Nishibu, Takashi Mochizuki

The Department of Dermatology, Kanazawa Medical University, Ishikawa, Japan

O2-53 [P06-06] **Quality of life in Korean patients : A comparison with ten years ago**

○ Kwang Joong Kim, Yo Sup Shin

Department of Dermatology, Hallym University Sacred Heart Hospital, Anyang, Korea

December 15, 2017, Room C

Invited Lecture 1

12:10-12:40 Chair: Manabu Fujimoto

IL1 **Mechanisms controlling Toll-like receptor 7 and their dysregulation in diseases**

○ Kensuke Miyake

Division of Innate Immunity, The Institute of Medical Science, University of Tokyo, Tokyo, Japan

Invited Lecture 2

12:40-13:10 Chair: Akiharu Kubo

IL2 **Thymus epithelium governs immune system**

○ Yousuke Takahama

Institute of Advanced Medical Sciences, University of Tokushima, Japan

Concurrent Oral Session 3 (Epidermal Structure and Function)

13:20-14:44 Chairs: Mayumi Komine, Kenzo Takahashi

C03-1 [P05-03] 13:20-13:32 **Roles of BNIP3-induced autophagy in the maintenance of epidermal homeostasis**

○ Mariko Moriyama, Takashi Morita, Yuuki Marutani, Junki Uda, Hirokazu Kubo, Takao Hayakawa, Hiroyuki Moriyama

Pharmaceutical Research and Technology Institute, Kindai Univeristy, Osaka, Japan

C03-2 [P05-04] 13:32-13:44 **Serum galectin-7 derived possibly from IL-4/IL-13 stimulated keratinocytes is a useful biomarker for barrier dysfunction in atopic dermatitis**

○ Takatsune Umayahara[1], Masahiro Aoshima[1], Manami Iwasaki[1], Tsuyoshi Yatagai[1], Jun-ichi Sakabe[1,2], Yoshiki Tokura[1], Takatoshi Shimauchi[1]

[1]The Department of Dermatology, Hamamatsu University School of Medicine, Shizuoka, Japan, [2]Institute of Medical Biology, Agency for Science, Technology and Research (A*STAR), Singapore, Republic of Singapore

C03-3 [P05-05] 13:44-13:56 **In vivo dermokine β/γ knockout exerts impairment of corneo-epidermal barrier function**

○ Akira Utsunomiya[1], Takenao Chino[1], Natsuko Utsunomiya[1], Vu Huy Loung[1], Atsushi Tokuriki[1], Noritaka Oyama[1], Kiyoshi Higashi[2], Koichi Saito[2], Minoru Hasegawa[1]

[1]Department of Dermatology, Division of Medicine, Faculty of Medical Sciences, University of Fukui, [2]Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd., Osaka, Japan

C03-4 [P05-06] 13:56-14:08 **Knockdown of Suprabasin in a three-dimensional Epidermal Model Inhibits Differentiation of Keratinocyte**

○ Masahiro Aoshima[1], Shinsuke Nakazawa[1], Takatsune Umayahara[1], Jun-ichi Sakabe[2], Tsuyoshi Yatagai[1], Shigeki Ikeya[1], Takatoshi Shimauchi[1], Yoshiki Tokura[1]

[1]The Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, Japan, [2]Institute of Molecular and Cell Biology, Agency for Science, Technology, and Research, Singapore

C03-5 [P05-08] 14:08-14:20 **Benzo[a]pyrene induces the expression of aldo-keto reductase 1C3 in an aryl hydrocarbon receptor-dependent manner**

○ Motoki Nakamura[1,2], Stephan Moosmann[2], Jean Krutmann[2], Christoph. F Vogel[3], Thomas Haarmann-Stemmann[2]

[1]Department of Geriatric and Environmental Dermatology, Nagoya City University, Nagoya, Japan, [2]IUF-Leibniz-Research Institute for Environmental Medicine, Duesseldorf, Germany, [3]Environmental Toxicology and Center for Health and the Environment, University of California, Davis, CA, United States

C03-6 [P05-10] 14:20-14:32 **How cathelicidin antimicrobial peptide production is upregulated during keratinocyte differentiation?**

Kun Pyo Kim[1], Yunhi Cho[1], Kyong-Oh Shin[2], Yong-Moon Lee[2,3], Mami Yokota[3,5], Sung Jay Chae[4,5], Kyungho Park[5,6], ○ Yoshikazu Uchida[6,7]

[1]Department of Medical Nutrition, Kyung Hee University, Yongin-si, Republic of Korea, [2]College of Pharmacy Chungbuk National University, [3]Laboratory of Dermatological Physiology, Faculty of Pharmaceutical Sciences, Josai University, [4]Department of Dermatology, Yonsei University Wonju College of Medicine, [5]Department of Dermatology, University of California, San Francisco; Northern California Institute for Research and Education, San Francisco, USA, [6]Department of Food Science and Nutrition, Hallym University, [7]Pharmafoods International Co. Ltd.

C03-7 [P13-08] 14:32-14:44

3D imaging can determine the structural interrelationship between melanocytes and keratinocytes in Senile Lentigo

○ Yuki Mizutani[1], Mika Yamashita[1], Rie Hashimoto[1], Toru Atsugi[1], Akemi Ryu[1], Akinobu Hayashi[1], Yukiko Rikimaru[2], Keisuke Ohta[2,3]

[1]Research Laboratories, KOSE Corporation, [2]Division of Microscopic and Developmental Anatomy, Department of Anatomy, Kurume University School of Medicine, [3]Advanced Imaging Research Center, Kurume University School of Medicine

EB Symposium

14:55-16:25 Chairs: Daisuke Sawamura, Shigetoshi Sano

EBSY-1 **Precision Medicine for Epidermolysis Bullosa: Next Generation Sequencing-Based Subclassification with Prognostication**

○ Jouni Uitto

Department of Dermatology and Cutaneous Biology, Sidney Kimmel Medical College of Thomas Jefferson University, Philadelphia, Pennsylvania, USA

EBSY-2 **Current and future treatments of EB**

○ John A. McGrath

King's College London, UK

EBSY-3 **Development of treatment approaches for dystrophic epidermolysis bullosa using iPSCs and CRISPR/Cas9- based genome editing**

○ Joanna Jacków[1], Zongyou Guo[1], Erbil H. Abaci[1], Yanne S. Doucet[1], Corey Hansen[1], Julio C. Salas-Alanis[2], Angela M. Christiano[1]

[1]Department of Dermatology, Columbia University, [2]Univeridad de Monterrey, N.L. Mexico

EBSY-4 **Mesenchymal stem cells in bone marrow as a target for treating epidermolysis bullosa**

○ Katsuto Tamai

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

One-minute presentation "Come to see my poster" 3 (Cell Adhesion/Matrix/Vascular Biology, Epidermal Structure and Function, Immunology 1: Adaptive Immunity, Immunology 2: Innate Immunity and Microbiology)

17:45-18:40 Chair: Hideyuki Ujiie

O3-01 [P03-05] **CX3CL1-CX3CR1 interaction contributes imiquimod-induced psoriasis-like skin inflammation via M1 macrophage infiltration**

○ Sohshi Morimura[1,2], Tomonori Oka[2], Makoto Sugaya[1,2], Shinichi Sato[2]

[1]Department of Dermatology, Faculty of Medicine, International University of Health and Welfare, Chiba, Japan, [2]Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo, Japan

O3-02 [P03-07] **Hyaluronan synthase 3 is essential for spongiosis formation in contact hypersensitivity response.**

○ Hitoshi Terui, Kenshi Yamasaki, Setsuya Aiba

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

O3-03 [P03-08] **Distinctive roles of two plakin proteins in type I hemidesmosomes**

○ You Kondou, Yoshiaki Hirako

Division of Biological Science, Graduate School of Science, Nagoya University

O3-04 [P03-09] **Desmoglein 1 clustering in pemphigus foliaceus patients' skin.**

○ Kenji Yoshida[1,2], Ken Ishii[1], Mari Nakagawa[1], Akira Ishiko[1]

[1]The Department of Dermatology, Toho University School of Medicine, Tokyo, Japan, [2]The Department of Dermatology, Ikegami general hospital, Tokyo, Japan

O3-05 [P03-10] **Cannabinoid receptor type 1 regulates laminin-511 expression in mouse model of psoriasis**

○ Aki Natsumi, Koji Sugawara, Ayano Yonamine, Yukari Mizukami, Hisayoshi Imanishi, Daisuke Tsuruta

The Department of Dermatology, Osaka City University/Graduate School of Medcine, Osaka, Japan

O3-06 [P03-11] **Cell proliferation and collagen production in cultured human dermal fibroblasts with Gadodiamide**

○ Shujiro Hayashi, Miho Kanno, Yoichiro Hamasaki, Ken Igawa

The Department of Dermatology, Dokkyo medical university, Tochigi, Japan

O3-07 [P03-12] **Vascular morphology in facial solar lentigo assessed by optical coherence tomographic angiography**

○ Yusuke Hara[1,3], Toyonobu Yamashita[1], Kumiko Kikuchi[1], Takako Shibata[1], Masato Ninomiya[1], Chika Katagiri[1], Kentaro Kajiya[1], Souichi Saeki[1], Hajime Iizuka[2]

[1]Shiseido Global Innovation Center, Yokohama, Japan, [2]Mechanical & Physical Engineering, Osaka City University, Osaka, Japan, [3]Research Institute of Psoriasis, Kojinkai Association of Medical Corporation, Sapporo, Japan

O3-08 [P03-13] **Carbonylated proteins accelerate immature skin aging by influencing the mRNA expression levels of dermal matrix-related genes**

○ Yumiko Yamawaki, Taeko Mizutani, Yuri Okano, Hitoshi Masaki

Tokyo University of Technology

O3-10 [P05-07] **Skin dryness lead balance of axon guidance elements to disrupt through oxidative stress**

○ Misaki Hirayama[1], Yukiko Izutsu[2], Yuri Okano[1], Hitoshi Masaki[1]

[1]Graduate school of Bionics, Tokyo university of Technology, Tokyo, Japan, [2]NIKKOL GROUP Nikoderm Research Inc.

O3-11 [P05-09] **Calcium increases semaphorin 3A expression by activating PKC/MAPK/AP-1 signaling axis in normal human epidermal keratinocytes**

○ Yayoi Kamata[1], Yoshie Umehara[1], Azumi Sakaguchi[1], Yasushi Suga[2], Hideoki Ogawa[1], Mitsutoshi Tominaga[1], Kenji Takamori[1,2]

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

O3-12 [P05-11] **Epidermal barrier function is impaired in a Langerhans cell-depleted murine model and recovered by Langerhans cell repopulation**

○ Je Yun Park[1,2], Hae-Jin Lee[1], Tae-Gyun Kim[1], Sung Hee Kim[1], Minseok Lee[1], Jae Won Lee[1], Seung Hun Lee[1], Min-Geol Lee[1,2]

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

O3-13 [P05-12] **Characterization of intercellular lipid model mimicking thermotropic behavior of stratum corneum**

○ Yasuko Obata[1], Momo Omote[1], Yuko Arai[1], Noboru Ohta[2], Kenya Ishida[3]

[1]Department of Pharmaceutics, Hoshi University, Tokyo, Japan, [2]SPring-8/JASRI, [3]Takasago International Corporation

O3-14 [P05-13] **Ablation of O-GlcNAc transferase (OGT) gene affects epidermal homeostasis**

○ Ji-Young Kim, Cho-Ah Lim, Jung-Woo Ko, Chang Deok Kim, Jeung-Hoon Lee

Department of Dermatology, School of Medicine, Chungnam National University, Daejeon, Korea

O3-15 [P05-14] **Sphingolipid abnormalities occur in SMS2- deficient mice**

Asami Makino[1], Shota Sakai[2], Akihito Nishi[3], Takeshi Ichikawa[4], Tadashi Yamashita[3], Yoshihiro Tokutome[4], Debra Crumrine[5], Yoshikazu Uchida[5], Peter M. Elias[5], Tetsuya Tsuchida[6], ○ Sumiko Hamanaka[6]

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O3-16 [P05-15] **Anti-oxidant effects of topical autophagy activator: A randomized, placebo-controlled, double-blinded study**

○ Sekyoo Jeong[1], Jongmi Lim[2], Chae Jin Lim[3], Sungwoo Kim[2], Keedon Park[3], Huyn Jung Kim[4]

[1]Department of Bio-Cosmetic Science, Seowon University, Cheongju, Republic of Korea, [2]CRID Center, NeoPharm Co., Ltd., Daejeon, [3]Incospharm Corp., Daejeon, [4]Department of Dermatology, Seoul Medical Center, Seoul

O3-17 [P05-16] **Systematic analysis on skin aging caused by intrinsic or extrinsic factors**

○ Tai-Long Pan

School of Traditional Chinese Medicine, Chang Gung University, Taoyuan, Taiwan

O3-18 [P05-17] **Epidermal pigmentation regulates dermatitis of murine models**

○ Tzu-Kai Lin[1], Mao-Qiang Man[2,3], Peter M. Elias[2,3], Hamm-Ming Sheu[4], Jui-Chen Tsai[5]

[1]The Department of Dermatology, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan, [2]Dermatology Service, Department of Veterans Affairs Medical Center, San Francisco, California, USA, [3]Department of Dermatology, University of California, San Francisco, California, USA, [4]Department of Dermatology, National Cheng Kung University College of Medicine, Tainan, Taiwan, [5]Institute of Clinical Pharmacy and Biopharmaceutical Sciences, College of Medicine, National Cheng Kung University, Tainan, Taiwan

O3-19 [P05-18] **The effect of ultraviolet B irradiation in the expression of trichohyalin-like 1 protein**

○ Teruhiko Makino, Megumi Mizawa, Yoko Yoshihisa, Tadamichi Shimizu

The Department of Dermatology, University of Toyama, Toyama, Japan

O3-20 [P05-19] **Investigation of Sirolimus delivery to skin and blood in oral or topical administration**

○ Kazuko Kitayama[1], Mari Wataya-Kaneda[1], Ayumi Nakamura[2], Shinichiro Maeda[2], Fei Yang[1], Ichiro Katayama[1]

[1]Dermatology, Department of Integrated Medicine, Graduate School of Medicine, Osaka University, Osaka, JAPAN, [2]Department of Pharmacy, Osaka University Hospital, Osaka, Japan

O3-21 [P05-20] **Hinokitiol (β-thujaplicin) downregulates inflammatory reactions through the activation of 11β-HSD1 in keratinocytes**

○Saori Itoi-Ochi, Sayaka Matsumura, Hiroyuki Murota, Ichiro Katayama

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

O3-22 [P05-21] **Normal appearance of epidermal basement membrane zone in nail-patella syndrome patients**

○Satoru Shinkuma[1,2], Hideki Nakamura[2], Shota Takashima[2], Toshifumi Nomura[2], Yasuyuki Fujita[2], Kazuko Matsumura[3], Hiroshi Shimizu[2], Riichiro Abe[1]

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O3-23 [P05-22] **A systems approach for high performance skin lifting**

Nadine Pernodet, Donald Collins, James McCarthy, Dawn Layman, Katie Gralton, Tom Paladino, Julie Hidalgo, Rose Sparacio, Claude Saliou, ○Kurt Schilling

Skin Biology & BioActives, Clinical Research Center, Research & Development, ESTEE LAUDER COMPANIES

O3-24 [P05-23] **Stimulatory effect of herbal mixture extract on keratinocyte differentiation**

○Jin-Hyup Lee, Cho-Ah Lim, Ji-Young Kim, Jung-Woo Ko, Chang Deok Kim, Jeung-Hoon Lee

Department of Dermatology, School of Medicine, Chungnam National University, Daejeon, Korea

O3-25 [P10-08] **The role of IL-33 in the pathogenesis of chronic graft-versus-host disease**

○Mai Ishigaki, Akihiko Kitoh, Kenji Kabashima

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

O3-26 [P10-10] **Imiquimod-induced psoriasis-like skin inflammation is improved upon treatment with sodium butyrate**

○Agatha Schwarz, Anika Bruhs, Thomas Schwarz

Department of Dermatology, University Kiel, Kiel, Germany

O3-27 [P10-11] **Antigen specificity is required for B10 cells to exert their regulatory function in contact dermatitis**

○Masahiro Kamata[1,2,3], Kathleen M. Candando[3], Evgueni Kountikov[3], Ayumi Yoshizaki[1,3], Tomomitsu Miyagaki[1,3], Jacquelyn M. Lykken[3], Jonathan C. Poe[3], Shinichi Sato[1], Thomas F. Tedder[3]

[1]The Department of Dermatology, The University of Tokyo, Tokyo, Japan, [2]The Department of Dermatology, Teikyo University, Tokyo, Japan, [3]The Department of Immunology, Duke University Medical Center, Durham, NC, USA

O3-28 [P10-12] **Multimerization is required for antigen binding activity of an engineered IgM/IgG chimeric antibody recognizing an epidermal antigen**

○Kwesi Teye[1], Koji Hashimoto[2], Sanae Numata[3], Norito Ishii[1], Hiroshi Koga[1], Kunihiro Ohta[2], Takekuni Nakama[1], Marek Haftek[4], Takashi Hashimoto[1]

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O3-29 [P10-13] **Functional role of epidermal Langerhans cells in imiquimod-induced psoriasis-like dermatitis model**

○Jae Won Lee[1], Minseok Lee[1], Sung Hee Kim[1,2], Jaeyun Park[1,2], Tae-Gyun Kim[1], Min-Geol Lee[1,2]

[1]Department of Dermatology, Severance Hospital, Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, Korea, [2]Brain Korea 21 Plus Project for Medical Science, Yonsei University College of Medicine

O3-30 [P10-14] **Platelet-derived TGF-β is important for the development of immune tolerance.**

○Eri Hotta, Risa Mineoka, Naomi Nakamura, Risa Yasuike, Norito Katoh

Department of Dermatology, Kyoto Prefectural University of Medicine Graduate School of Medical Science, Japan

O3-31 [P10-15] **Notch signaling contributes to the acquisition of an antigen-presenting cell-like phenotype in intestinal mast cells**

○Nobuhiro Nakano[1], Ko Okumura[1], Hideoki Ogawa[1,2], Shigaku Ikeda[1,2]

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

O3-32 [P10-16] **Hapten-induced skin associated lymphoid tissue in the scalp treated with topical immunotherapy for alopecia areata.**

○Yohei Natsuaki[1], Akihiko Kawahara[2], Yoshiki Naito[2], Jun Akiba[2], Kenji Kabashima[3], Takekuni Nakama[1]

[1]The Department of Dermatology, Kurume University School of Medicine, Japan, [2]Department of Pathology, Kurume University School of Medicine, Japan, [3]Department of Dermatology, Kyoto University Graduate School of Medicine, Japan

O3-33 [P10-17] ***In vitro* expansion of antigen-specific B cells in autoimmune diseases**

○Hiraku Suga[1,2], Sravya Mallam[3], Robert D. Streilein[3], Thomas F. Tedder[2], Russell P. Hall[3]

[1]Department of Dermatology, University of Tokyo, Tokyo, Japan, [2]Department of Immunology, Duke University Medical Center, Durham, NC, USA, [3]Department of Dermatology, Duke University Medical Center, Durham, NC, USA

O3-34 [P10-18] **Analysis of the allergy of gadus chalcogrammus roe (Tarako)**

○Keiko Hanaoka, Kaori Ishii, Shunsuke Takahagi, Michihiro Hide

Department of Dermatology, Graduate School of Biomedical and Health Sciences, Hiroshima University, Hiroshima, Japan

O3-35 [P10-19] **CRTAM expression on CD8+ T-cells is Suppressed in HTLV-1 Infected Patients**

Kazuki Tatsuno, ○Takatoshi Shimauchi, Yoshiki Tokura

Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, Japan

O3-36 [P10-20] **A novel mechanism of skin reaction associated with Helicobacter pylori treatment**

○Takamasa Ito[1], Hideyuki Ujiie[1], Yasuyuki Fujita[1], Hiroshi Shimizu[1], Riichiro Abe[2]

[1]The Department of Dermatology, University of Hokkaido, Hokkaido, Japan, [2]The Department of Dermatology, University of Niigata, Niigata, Japan

O3-37 [P11-09] **ATP from human keratinocytes by mechanical stretching is one of the causes of Koebner phenomenon**

○Takashi Okamoto, Youichi Ogawa, Shinji Shimada, Tatsuyoshi Kawamura

The Department of Dermatology, University of Yamanashi, Yamanashi, Japan

O3-38 [P11-10] **Topical application of nano-sized, bactericidal polymer particles ameliorates hapten-induced dermatitis**

○Keiko Udaka[1], Michiyuki Kasai[1], Ayano Kawaguchi[4], Reiko Kamijima[2], Shigenobu Matsuzaki[3], Katsuhide Suzuki[4], Mayuko Yamamoto[2], Shigetoshi Sano[2], Shoichi Shirotake[5]

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O3-39 [P11-11] **A long-chain fatty-acid elongase, Elovl 6, regulates mechanical stress-induced dermatitis**

○Yoshiyuki Nakamura[1,2], Manabu Fujimoto[1], Chigusa Oda-Nakahashi[2], Takashi Matsuzaka[3], Hitoshi Shimano[3,4], Akira Shibuya[2,4]

[1]The Department of Dermatology, University of Tsukuba, Tsukuba, Japan, [2]The Department of Immunology, Faculty of Medicine, University of Tsukuba, Tsukuba, Japan, [3]The Department of Endocrinology and Metabolism, University of Tsukuba, Tsukuba, Japan, [4]Center for TARA, University of Tsukuba, Tsukuba, Japan

O3-40 [P11-12] **Ragweed pollen allergen is a danger signal for the skin via activation of NLRP3 inflammasome in keratinocytes**

○Xiuju Dai, Mikiko Tohyama, Masamoto Murakami, Ken Shiraishi, Koji Sayama

The Department of Dermatology, Ehime University Graduate School of Medicine, Toon, Ehime, Japan

O3-41 [P11-13] **Promotion of IMQ-induced keratinocyte activation via C5a-C5aR1 axis**

○Rintaro Shibuya, Akihiko Kitoh, Kenji Kabashima

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

O3-42 [P11-14] **Hyaluronan oligosaccharides induce suppressive effect to chronic allergic dermatitis.**

○Jun Muto[1], Richard Gallo[2], Daisuke Watanabe[1]

[1]Department of Dermatology, Aichi Medical University, Nagakute, Japan, [2]Department of Dermatology, University of California, San Diego, La Jolla

O3-43 [P11-15] **Extracellular superoxide dismutase inhibits Propionibacterium acnes-induced skin inflammation in mice**

○Cuong Thach Nguyen, Jung-Ho Kim, Shyam Kishor Sah, Tae-Yoon Kim

Department of Dermatology, College of Medicine, The Catholic University of Korea, Seoul, South Korea

O3-44 [P11-16] **Prevalence of sensitization against alpha-Gal in the patients without complaining red meat allergy in Shimane University Hospital**

○Onon Tsedendorj, Yuko Chinuki, Kiyoe Ueda, Eishin Morita

The Department of Dermatology, University of Shimane, Izumo, Japan

O3-45 [P11-17] **The topical delivery of pterostilbene, a methoxylated resveratrol derivative, efficiently eradicates cutaneous infection of MRSA**

○Jia-You Fang[1], Shih-Chun Yang[1], Feng-Lin Yen[2], Chih-Hua Tseng[3], Yi-Han Weng[1]

[1]Graduate Institute of Natural Products, Chang Gung University, Taoyuan, Taiwan, [2]Department of Fragrance and Cosmetic Science, College of Pharmacy, Kaohsiung Medical University, Kaohsiung, Taiwan, [3]School of Pharmacy, College of Pharmacy, Kaohsiung Medical University, Kaohsiung, Taiwan

O3-46 [P11-18] **Maternal IgE in monomeric state is not transferred to the fetal cutaneous mast cells in mice**

○Yuki Honda, Sachiko Ono, Tetsuya Honda, Kenji Kabashima

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

O3-47 [P11-19] **Another role of exogenous HMGB1 on poly(I:C)-induced inflammation in keratinocyte**

○Hideki Mori, Masamoto Murakami, Ryo Utsunomiya, Kana Masuda, Ken Shiraishi, Xiuju Dai, Mikiko Tohyama, Koji Sayama

The Department of Dermatology, University of Ehime, Ehime, Japan

O3-48 [P11-20] **Double-stranded RNA enhances serine protease activities in epidermal keratinocytes**

○Shin Morizane, Saeko Sugimoto, Satoru Sugihara, Hayato Nomura, Mina Kobashi, Keiji Iwatsuki

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

O3-49 [P11-21] **EGFR inhibitory monoclonal antibodies and EGFR tyrosine kinase inhibitors have distinct effects on the keratinocyte innate immune response**

○Rie Ommori[1], Kio Park[1,2], Fumi Miyagawa[1], Hiroaki Azukizawa[1], Masatoshi Kanno[3], Hideo Asada[1]

[1]Department of Dermatology, Nara Medical University, Nara, Japan, [2]Yamato Takada Municipal Hospital, Nara, Japan, [3]Oncology Center, Nara Medical University Hospital, Nara, Japan

O3-50 [P11-22] **HSV1 related giant cell formation depends on keratinocyte differentiation**

○Takenobu Yamamoto, Yoshiko Yamamoto, Yumi Aoyama, Wataru Fujimoto

Department of Dermatology, Kawasaki Medical School, Kurashiki, Japan

O3-51 [P11-23] **Functional analysis of lipid-metabolizing enzyme of *S.aureus***

○Kengo Totoki[1], Madoka Shoji[1], Karen Nakamura[1], Yoshikazu Nakamura[1,2], Hidemasa Nakaminami[3], Keisuke Nakase[3], Norimasa Nogichi[3], Kiyoko Fukami[1,4]

[1]Laboratory of Genome and Biosignals, Tokyo University of Pharmacy and Life Sciences, [2]PRIME, [3]Department of Microbiology, Tokyo University of Pharmacy and Life Sciences, [4]AMED-CREST

O3-52 [P11-24] **Peptidoglycans induce chemokine production by dendritic cells in patients with atopic dermatitis**

Kyohei Miyano, ○Koichiro Nakamura, Tetsuya Tsuchida

The Department of Dermatology, Saitama Medical University

December 15, 2017, Room D

Luncheon Seminar 3
"Hot Topics on Psoriasis"

12:10-13:10 Chairs: Hajime Iizuka, Akihiko Asahina

LS3-1 **Identification of resolvin E1, an omega-3 poly-unsaturated fatty acids-derived lipid mediator, as an inhibitor for psoriatic dermatitis**

○ Tetsuya Honda
Department of Dermatology, Kyoto University, Kyoto, Japan

LS3-2 **Clinical characteristics of Japanese patients with psoriatic arthritis: current report**

○ Toshiyuki Yamamoto
Department of Dermatology, Fukushima Medical University, Fukushima, Japan

Co-sponsored by Mitsubishi Tanabe Pharma Corporation.

Concurrent Oral Session 4
(Tissue Regeneration/Stem Cell and Wound Healing, Hair and Cutaneous Development)

13:20-14:44 Chairs: Katsuto Tamai, Shigaku Ikeda

C04-1 [P08-01] 13:20-13:32 **Negative evidence of bone-marrow cell transdifferentiation into keratinocyte in normal and wounded skin using keratin-specific reporter mice**

○ Gyohei Egawa, Kenji Kabashima
Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan

C04-2 [P08-02] 13:32-13:44 **Protective effect of mesenchymal stem cells on the pressure ulcer formation by the regulation of oxidative and endoplasmic reticulum stress**

○ Akiko Sekiguchi, Akihiko Uchiyama, Akihito Uehara, Sahori Yamazaki, Chisako Fujiwara, Osamu Ishikawa, Sei-ichiro Motegi
Department of Dermatology, Gunma University Graduate School of Medicine

C04-3 [P08-03] 13:44-13:56 **Atypical protein kinase C isoform, aPKCλ, regulates directional cell migration during wound healing**

○ Shin-Ichi Osada[1], Natsuko Noguchi[1], Tomonori Hirose[2], Tomoko Suzuki[1], Masami Kagaya[1], Kazuhiro Chida[3], Shigeo Ohno[2], Motomu Manabe[1]
[1]Department of Dermatology & Plastic Surgery, Akita University Graduate School of Medicine, Akita, Japan, [2]Department of Molecular Biology, Yokohama City University Graduate School of Medicine, Yokohama, Japan, [3]Department of Animal Resource Sciences, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Tokyo, Japan

C04-4 [P08-07] 13:56-14:08 **Investigation of the Role(s) of long non-coding RNA G36220 in Human Skin Wound Repair**

○ Eva K. Herter, Dongqing Li, Xi Li, Ning Xu Landen
Molecular Dermatology, Karolinska Institutet, Stockholm, Sweden

C04-5 [P09-01] 14:08-14:20 **CCR5 blockade exerts both prophylactic and therapeutic effects on alopecia areata**

○ Taisuke Ito[1], Takahiro Suzuki[2], Shinsuke Nakazawa[1], Atsuko Funakoshi[1], Toshiharu Fujiyama[1], Yoshiki Tokura[1]
[1]Department of Dermatology, Hamamatsu University School of Medicine, [2]Fujinomiya City General Hospital

C04-6 [P09-02] 14:20-14:32 **Local cortisol activation in keratinocytes influences on mouse hair cycle**

○ Mika Terao[1,2], Sayaka Matsumura[2], Ichiro Katayama[2], Satoshi Itami[1]
[1]Department of Regenerative Dermatology, Osaka University, Osaka, Japan, [2]Department of Dermatology, Osaka University, Osaka, Japan

C04-7 [P09-03] 14:32-14:44 **APOBEC3 regulates transcription of NOTCH3 and keratinocyte differentiation**

○ Teruki Dainichi, Yuri Nakano, Masayuki Otsuka, Kenji Kabashima
Department of Dermatology, Kyoto University Graduate School of Medicine

Afternoon Seminar 2
"Driving for Clear Skin in Psoriasis"

14:55-15:55 Chairs: Ryuhei Okuyama, Tomotaka Mabuchi

AS2-1 **Psoriasis and skin resident memory T cells**

○ Rei Watanabe
Department of Dermatology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan

AS2-2 **Targeting IL-17RA in the treatment of psoriasis**

○ Hideki Fujita
Department of Dermatology, Nihon University School of Medicine, Tokyo, Japan

Co-sponsored by Kyowa Hakko Kirin Co., Ltd.

One-minute presentation "Come to see my poster" 4
(Genetic Disease/Gene Regulation and Gene Therapy, Hair and Cutaneous Development, Photobiology, Pigmentation and Melanoma)

17:45-18:40 Chair: Eijiro Akasaka

O4-01 [P07-08] **Altering calcium influx in astrocyte caused thermal hypersensitivity in tuberous sclerosis complex**

Yang Pan, ○ Mari Wataya-Kaneda, Ichiro Katayama
Department of Dermatology, Graduate school of medicine, Osaka University, Suita, Osaka, Japan

O4-02 [P07-10] **Risk evaluation of transmission from mosaic to germline: a child with epidermolytic ichthyosis from a parent with epidermolytic nevus**

○ Michihiro Kono[1], Yasushi Suga[2], Tomohiro Akashi[3], Yasutomo Ito[4], Takuya Takeichi[1], Yoshinao Muro[1], Masashi Akiyama[1]
[1]Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, [2]Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu, Japan, [3]Division of Omics Analysis, Nagoya University Graduate School of Medicine, Nagoya, Japan, [4]Division for Medical Research Engineering, Nagoya University Graduate School of Medicine, Nagoya, Japan

O4-03 [P07-11] **A genome-wide association study in koreans identifies susceptibility loci for skin hydration**

○ Sue-Jeong Kim, Jung-Woo Ko, Ji-Young Kim, Cho-Ah Lim, Chang Deok Kim, Jeung-Hoon Lee
Department of Dermatology, School of Medicine, Chungnam National University, Daejeon, Korea

O4-04 [P07-12] **Deep phenotyping of ichthyosis follicularis with atrichia and photophobia syndrome associated with *MBTPS2* mutations**

○ Chiaki Murase[1], Takuya Takeichi[1], Kyoko Ikumi[2], Akimichi Morita[2], Masashi Akiyama[1]
[1]Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, [2]Department of Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan

O4-05 [P07-13] ***RXRB* is a MHC-encoded susceptibility gene associated with anti-topoisomerase I antibody-positive systemic sclerosis**

○ Akira Oka[1], Yoshihide Asano[2], Minoru Hasegawa[3], Manabu Fujimoto[4], Osamu Ishikawa[5], Masataka Kuwana[6], Yasushi Kawaguchi[7], Toshiyuki Yamamoto[8], Hiroki Takahashi[9], Daisuke Goto[10], Hirahito Endo[11], Masatoshi Jinnin[12], Kazuhiko Takehara[13], Shinichi Sato[2], Hironobu Ihn[12]
[1]The Inst. of Medical Science, Tokai Univ., Kanagawa, [2]Dept. of Dermatology, Univ. of Tokyo Graduate School of Med., Tokyo, [3]Dept. of Dermatology, School of Med., Faculty of Medical Sciences, Univ. of Fukui, Fukui, [4]Dept. of Dermatology, Faculty of Med., Univ. of Tsukuba, Ibaraki, [5]Dept. of Dermatology, Gunma Univ. Graduate School of Med., Gunma, [6]Dept. of Allergy and Rheumatology, Nippon Medical School Graduate School of Med., Tokyo, [7]Inst. of Rheumatology, Tokyo Women's Medical Univ., Tokyo, [8]Dept. of Dermatology, Fukushima Medical Univ., Fukushima, [9]Dept. of Rheumatology, Sapporo Medical Univ. School of Med., Hokkaido, [10]Dept. of Internal Med., Faculty of Med., Univ. of Tsukuba, Ibaraki, [11]Dept. of Rheumatology, Jusendo General Hosp., Fukushima, [12]Dept. of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto Univ., Kumamoto, [13]Dept. of Molecular Pathology of Skin, Faculty of Med., Inst. of Medical, Pharmaceutical and Health Sciences, Kanazawa Univ., Kanazawa

O4-06 [P07-14] **Amino acid substitution of Gln^{425} in integrin β4 leads to junctional epidermolysis bullosa with pyloric atresia**

○ Akari Sakai[1], Satoru Shinkuma[1], Manami Maehara[1], Sakae Kaneko[2], Shota Takashima[3], Ken Natsuga[3], Yasuyuki Fujita[3], Hideki Nakamura[3], Wataru Nishie[3], Hiroshi Shimizu[3], Riichiro Abe[1]
[1]Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, [2]Department of Dermatology, Shimane University Faculty of Medicine, [3]Department of Dermatology, Hokkaido University Graduate School of Medicine

O4-07 [P07-15] **Two cases of cardio-facio-cutaneous syndrome with a heterozygous missense mutation in *MAP2K2***

○ Toshinari Miyauchi[1], Toshifumi Nomura[1], Shotaro Suzuki[1], Masae Takeda[1], Keisuke Imafuku[1], Chihiro Shiiya[1], Yasuyuki Fujita[1], Riichiro Abe[2], Hiroshi Shimizu[1]
[1]Department of Dermatology, Hokkaido University Graduate School of Medicine, [2]Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences

O4-08 [P07-16] **Somatic mutation analysis of pilomatriocoma in the *CTNNB1* gene.**

○ Rei Yokoyama[1], Ryota Hayashi[1], Yutaka Shimomura[2], Riichiro Abe[1]

[1]Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, [2]Department of Dermatology, Yamaguchi University Graduate School of Medicine, Ube, Japan

O4-09 [P07-17] **Exploring the niche of dermal neurofibroma in von Recklinghausen's disease: evidence for the involvement of polydom**

○ Tomo Kamitani[1], Hiroyuki Murota[1], Mari W. Kaneda[1], Ryoko S. Nishiuchi[2], Kiyotoshi Sekiguchi[2], Ichiro Katayama[1]

[1]Dermatology, Department of Integrated Medicine, Graduate School of Medicine, Osaka University, Osaka, Japan, [2]Division of Matrixome Research and Application, Institute for Protein Research, Osaka University

O4-10 [P07-18] **Genome editing in epidermolysis bullosa simplex**

○ Toshifumi Takahashi, Noriki Fujimoto, Miho Kabuto, Kazuya Teramura, Toshihiro Tanaka

The Department of Dermatology, Shiga University of Medical Science

O4-11 [P07-19] **Identification of a novel missense mutation in ATP2C1 in a patient with Hailey-Hailey disease treated with minocycline hydrochloride**

○ Yohya Shigehara[1], Satoru Shinkuma[1], Atsushi Fujimoto[1], Shinobu Saijo[2], Riichiro Abe[1]

[1]Divisions of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, [2]Sakura Dermatology Clinic, Niigata, Japan

O4-12 [P07-20] **Genome editing in mammalian cells by Cascade and Cas3**

○ Hiroyuki Morisaka[1,2], Shigetoshi Sano[1], Junji Takeda[2]

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

O4-13 [P07-21] **IL-12-expressing adipose-derived mesenchymal stem cells for treatment of melanoma**

○ Takahiro Arita[1], Tsunao Kishida[2], Norito Katoh[1], Osamu Matsuda[2], Jun Asai[1]

[1]Department of Dermatology, Kyoto Prefectural University of Medicine, Kyoto, Japan, [2]Department of Immunology, Kyoto Prefectural University of Medicine, Kyoto, Japan

O4-14 [P07-22] **Chromosomal microarray analysis in a case of X-linked ichthyosis with mental retardation**

○ Yoshihiro Matsudate[1], Yoshiaki Kubo[1], Issei Imoto[2]

[1]Department of Dermatology, Tokushima University Graduate School of Medical Science, Tokushima, Japan, [2]Department of Human Genetics, Tokushima University Graduate School of Medical Science, Tokushima, Japan

O4-15 [P09-04] **PLCγ1 is required for normal formation of sebaceous glands**

○ Takatsugu Fukuyama[1], Chiho Toyoda[1], Yoshikazu Nakamura[1,2], Kiyoko Fukami[1,3]

[1]Laboratory of Genome and Biosignals, School of Life Sciences, Tokyo University of Pharmacy and Life Sciences, Tokyo, Japan, [2]PRIME, AMED, [3]AMED-CREST

O4-16 [P09-05] ***LIPH* mutations are extremely predominant in autosomal recessive woolly hair and hypotrichosis in Japan.**

○ Kana Tanahashi[1], Takuya Takeichi[1], Tomoki Taki[1], Michihiro Kono[1], Kazumitsu Sugiura[2], Masashi Akiyama[1]

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

O4-17 [P09-06] **Analysis on stem cell-regulating factors in human hair follicles**

○ Katsuma Miyachi[1], Takaaki Yamada[1], Hisashi Yoshioka[1], Masahiro Fujimura[1], Mika Kawagishi-Hotta[1,2], Yasushi Date[1,2], Yuichi Hasebe[1,2], Seiji Hasegawa[1,2], Satoru Nakata[1]

[1]Research Laboratories, Nippon Menard Cosmetic Co., Ltd., [2]Nagoya University-Menard Collaborative Research Chair, Nagoya University Graduate School of Medicine

O4-18 [P09-07] **A novel hair growth peptide (HGP): Water-soluble chicken egg yolk peptides stimulate hair growth via induction of VEGF production.**

○ Toshio Nakamura[1], Haruo Yamamura[2], Kyungho Park[3], Yoshikazu Uchida[1], Noriko Horie[1], Mujo Kim[1], Satoshi Itami[4]

[1]Pharmafoods International Co. Ltd., [2]Charle Co. Lid., [3]Department of Food Science and Nutrition, Hallym University, [4]Department of Regenerative Dermatology, Osaka University Graduate School of Medicine

O4-19 [P09-08] **The efficacy of the PEG-PBLG micelle to the skin penetration at finite dose condition**

○ Kensuke Yotsumoto, Kenta Ishii, Miho Kokubo, Sakiko Yasuoka

Cosmetics Division, NanoCarrier Co., Ltd., Chiba, Japan

O4-20 [P09-09] **Loss of Langerhans cells in scar lesion of lichen planopilaris is caused by downregulation of integrin αvβ6 in the epidermal keratinocytes**

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

Department of Dermatology, University of Yamanashi, Japan

O4-21 [P09-10] **Morphological analyses in Pili torti**

○ Takeshi Yanagishita[1], Yuki Marubashi[1,2], Jun Muto[1], Nobuhiko Taguchi[1,2], Kazumitsu Sugiura[3,4], Yoshiyuki Kawamoto[5], Masashi Akiyama[3], Daisuke Watanabe[1]

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O4-22 [P12-05] **Intracellular signaling mechanisms involved in the UVA-suppressed secretion of hyaluronan in human fibroblasts**

○ Shuko Terazawa[1], Genji Imokawa[1,2], Hiroaki Nakajima[3]

[1]Research Institute for Biological Functions, Chubu University, Japan, [2]Center for Bioscience Research & Education, Utsunomiya University, [3]School of Bioscience and Biotechnology, Tokyo University of Technology

O4-23 [P12-06] **Common dysfunctional variants of *ABCG2* may contribute to acquired photosensitivity by porphyrin accumulation**

○ Masayuki Sakiyama[1,2], Hirotaka Matsuo[1], Yuiko Yonekura[2], Takahiro Ishikawa[2], Akiyoshi Nakayama[1], Toshihide Higashino[1], Norihiro Fujimoto[2], Takahiro Satoh[2], Nariyoshi Shinomiya[1]

[1]Department of Integrative Physiology and Bio-Nano Medicine, National Defense Medical College, Tokorozawa, Japan, [2]Department of Dermatology, National Defense Medical College, Tokorozawa, Japan

O4-24 [P12-07] **Verification of a new precursor form, 5-ALA dermal patch, for photodynamic therapy in experimental actinic keratosis of mouse model**

○ Tatsushi Ishimoto[1], Mikiro Takaishi[1], Hideo Fukuhara[2], Takuya Ishii[3], Takeshi Hara[3], Masahiro Ishizuka[3], Keiji Inoue[2], Shigetoshi Sano[1]

[1]Department of Dermatology, Kochi Medical School, Kochi University, Kochi, Japan, [2]Department of Urology, Kochi Medical School, Kochi University, Kochi, Japan, [3]SBI Pharmaceuticals Co., Ltd

O4-25 [P12-08] **Comprehensive transcriptome analysis in normal human dermal fibroblasts irradiated with monochromatic UVA 1 light using UV-LEDs.**

○ Hideyuki Masuda[1,2], Makoto Kimura[1,2], Akimichi Morita[1]

[1]Department of Geriatric and Environmental Dermatology, Nagoya City University, Graduate School of Medical Sciences, Nagoya, Japan, [2]USHIO INC.

O4-26 [P12-09] **Photochemotherapy restricts Treg plasticity and restores Treg function in psoriasis patients**

○ Kan Torii, Ryoji Kubo, Takuya Furuhashi, Shinnosuke Muramatsu, Yoko Sagawa, Chiyo Saito, Sayuri Yamazaki, Akimichi Morita

Department of Geriatric and Environmental Dermatology, Nagoya City University, Nagoya, Japan

O4-27 [P12-10] **UVB exposure affects the circadian clock genes of skin cells in human**

○ Shinnosuke Muramatsu, Kan Torii, Hideyuki Masuda, Akimichi Morita

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

O4-28 [P12-11] **Replication-related genes are upregulated in XP-A cells after UV-C irradiation**

○ Seiji Takeuchi[1], Toshiro Matsuda[2], Ryusuke Ono[1], Mariko Tsujimoto[1], Chikako Nishigori[1]

[1]Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, [2]Kindai University Atomic Energy Research Institute

O4-29 [P12-12] **Hypoxic response in the aged skin**

○ Naomi Okuda, Hiroko Yamazaki, Miho Morita

Naris Cosmetics Co., LTD., Osaka, Japan

O4-30 [P12-13] **Galactomyces Ferment Filtrate reduced UVB-induced stress response at p53 pathway by inhibiting degradation of MDM2 in NHEK**

○ Kenji Hattori[1,2], Yuko Chida[1], Yutaro Mori[1], Chieko Soh[2], Kazumi Toyama[2], Kazuyuki Ishii[1]

[1]Department of Hygienic Chemistry, Meiji Pharmaceutical University, Tokyo, Japan, [2]P&G Japan

O4-31 [P13-09] **A BRAF inhibitor and a Toll-like receptor 7 agonist synergistically enhanced anti-tumor immune responses depending on $CD8^+$ T cell**

○ Kenta Nakamura[1,4], Tomonori Yaguchi[1], Masashi Murata[2], Yosuke Ota[3], Yukiko Kiniwa[4], Ryuhei Okuyama[4], Yutaka Kawakami[1]

[1]Division of Cellular Signaling, Institute for Advanced Medical Research, Keio University School of Medicine, Tokyo, Japan, [2]Global Oncology Office, Sumitomo Dainippon Pharma Co., Ltd., Osaka, Japan, [3]DSP Cancer Institute, Sumitomo Dainippon Pharma Co., Ltd., Osaka, Japan, [4]The Department of Dermatology, Shinshu University School of Medicine, Nagano, Japan

O4-32 [P13-12] **Extracellular superoxide dismutase inhibits proliferation and ultraviolet B-induced melanogenesis in melanocytes**

○ Hae Y Kim, Shyam K Sah, Tae Y Kim

The Department of Dermatology, Catholic University of Korea, Seoul, Republic of Korea

O4-33 [P13-13] **Diversity of circulating melanoma cells; detection of heterogenetic *BRAF* mutations by single-cell analysis.**

○ Yukiko Kiniwa[1], Kenta Nakamura[1], Asuka Mikoshiba[1], Yasuyuki Akiyama[2], Atsushi Morimoto[2], Ryuhei Okuyama[1]

[1]Department of Dermatology, Shinshu University School of Medicine, Nagano, Japan, [2]Life Science Research Laboratory, Tosoh Corporation

O4-34 [P13-14] **Serum levels of soluble PD-L1 in patients with metastatic melanoma treated with anti-PD-1 antibodies**

○ Satoshi Fukushima, Yukiko Inamori, Yosuke Kubo, Satoshi Nakahara, Azusa Miyashita, Mina Tsuruta, Aki Tokuzumi, Daisuke Niimori, Masatoshi Jinnin, Hironobu Ihn

Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan

O4-35 [P13-15] ***BRAF*^{V600E}-associated color characteristics of thick cutaneous melanoma on the trunk and extremities**

○ Akane Minagawa, Atsuko Ashida, Kaori Sakaizawa, Hiroshi Koga, Ryuhei Okuyama

Department of Dermatology, Shinshu University School of Medicine

O4-36 [P13-16] **Fibroblast-derived clusterin inhibits melanogenesis**

○ Yeongeun Kim[1,3], Jiun Lee[1], Misun Kim[1], Tae Jun Park[2,3], Hee Young Kang[1,3]

[1]Department of Dermatology, Ajou University School of Medicine, Suwon, Korea, [2]Department of Biochemistry and Molecular Biology, Ajou University School of Medicine, Suwon, Korea, [3]Department of Biomedical Science, The Graduate School, Ajou University, Suwon, Korea

O4-37 [P13-17] **A clinicopathological analysis of 153 acral melanomas and the relevance of mechanical stress**

○ Yi-Shuan Sheen[1], Yi-Hua Liao[1], Ming-Hsien Lin[2,3], Yu-Ju Tseng[4], Chih-Hung Lee[4], Chia-Yu Chu[1]

[1]Department of Dermatology, National Taiwan University Hospital and College of Medicine, National Taiwan University, [2]Graduate Institute of Clinical Medicine, College of Medicine, National Taiwan University, [3]Department of Surgery, National Taiwan University Hospital Hsin-Chu Branch, [4]Department of Dermatology, Kaohsiung Chang Gung Memorial Hospital and Chang Gung University College of Medicine

O4-38 [P13-18] **Transcriptome-wide identification of RNA targets regulated by insulin-like growth factor 2 mRNA-binding protein 3 (IMP-3) in human melanoma**

○ Chia-Yu Chu[1], Chia-Ying Chu[2], Yi-Shuan Sheen[1]

[1]Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, Taiwan, [2]Department of Life Science, National Taiwan University, Taipei, Taiwan

O4-39 [P13-19] **Diminished autophagy function in the epidermis conclusively causes hyperpigmentation accompanied by epidermal differentiation disorders**

○ Ayumi Kusaka-Kikushima[1], Daiki Murase[1], Akira Hachiya[1], Rachel Fullenkamp[2], Tadashi Hase[3], Tamotsu Yoshimori[4]

[1]Biological Science Laboratories, Kao Corporation, Tochigi, Japan, [2]Biological Science Americas Laboratory, Kao USA Inc., Cincinnati, Ohio, USA, [3]Research and Development, Kao Corporation, Tokyo, Japan, [4]Research Center for Autophagy, Graduate School of Medicine, Osaka University, Osaka, Japan

O4-40 [P13-20] **Large hyperpigmented macules may be a genotype-specific manifestation of Waardenburg syndrome type 2 associated with KITLG mutation**

○ Yasushi Ogawa, Michihiro Kono, Masashi Akiyama

Nagoya University Graduate School of Medicine

O4-41 [P13-21] **Intracellular oxidative stress enhances melanosome transfer to keratinocytes**

○ Karin Endo, Taeko Mizutani, Yuri Okano, Hitoshi Masaki

Tokyo University of Technology

O4-42 [P13-22] **A pulmonary metastatic model of murine melanoma assessed by magnetic resonance imaging**

○ Takafumi Numata[1], Shigeru Kiryu[2], Tatsuo Maeda[1], Chizu Egusa[1], Ryoji Tsuboi[1], Kazutoshi Harada[1]

[1]The Department of Dermatology, Tokyo Medical University, Tokyo, Japan, [2]The Department of Radiology, Institute of Medical Science, University of Tokyo

O4-43 [P13-23] **Expression of Glycoprotein Non-metastatic B/Osteoactivin (GPNMB) in keratinocytes and its modulation by pathological cytokines**

○ Kazal B. Biswas[1,2], Yukiko Mizutani[1], Satoru Takayama[1,2], Asako Ishitsuka[1], Arunasiri Iddamalgoda[1,2], Aya Takahashi[3], Lingli Yang[3], Fei Yang[3], Ichiro Katayama[3], Shintaro Inoue[1]

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O4-44 [P13-24] **Absent Glycoprotein Non-metastatic B/Osteoactivin(GPNMB) expression by the lesional basal keratinocytes in vitiligo**

○ Aya Takahashi[1], Fei Yang[1], Lingli Yang[1], Akira Matsumoto[1], Noriko Arase[1], Atsushi Tanemura[1], Hiroyuki Murota[1], Mari Wataya-Kaneda[1], Arunasiri Iddamalgoda[2,3], Shintaro Inoue[2], Ichiro Katayama[1]

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O4-45 [P13-25] **Driver mutation analysis and circulating cell-free DNA in melanoma**

○ Tatsuya Kaji[1,2], Osamu Yamasaki[1,2], Minoru Takata[1], Keiji Iwatsuki[1,2]

[1]Department of Dermatology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan, [2]Melanoma Center, Okayama University Hospital, Okayama, Japan

O4-46 [P13-26] **Analysis of repigmentation in the mouse model of Rhododenol-induced leukoderma (RIL)**

○ Yuko Abe, Yutaka Hozumi, Ken Okamura, Tamio Suzuki

Department of Dermatology, Yamagata University Faculty of Medicine, Yamagata

O4-47 [P13-27] **NUAK2 is over-expressed and DNA copy number is increased in acral melanoma: its significance on the survival of patients**

○ Kohei Nojima[1], Masahiro Hayashi[4], Masato Funazumi[1], Masashi Ishikawa[2], Yasuhiko Kaneko[3], Masakazu Kawaguchi[4], Tamio Suzuki[4], Atsushi Tanemura[5], Ichiro Katayama[5], Taisuke Mori[6], Naoya Yamazaki[7], Hiroo Yokozeki[1], Vincent J Hearing[8], Takeshi Namiki[1]

[1]Department of Dermatology, Tokyo Medical and Dental University, [2]Department of Dermatology, Saitama Cancer Center, [3]Research Institute for Clinical Oncology, Saitama Cancer Center, [4]Department of Dermatology, Yamagata University, [5]Department of Dermatology, Osaka University, [6]Department of Pathology, National Cancer Center Hospital, [7]Department of Dermatologic Oncology, National Cancer Center Hospital, [8]Laboratory of Cell Biology, National Cancer Institute, National Institutes of Health

O4-48 [P13-28] **Serum 5-*S*-cysteinyldopa: a possible biomarker for identifying non-responders to Nivolumab treatment of melanoma**

○ Toshikazu Omodaka[1], Akane Minagawa[1], Hiroshi Koga[1], Kazumasa Wakamatsu[2], Hisashi Uhara[1,3], Ryuhei Okuyama[1]

[1]Department of Dermatology, Shinshu University School of Medicine, Matsumoto, Japan, [2]Department of Chemistry, Fujita Health University School of Health Sciences, Toyoake, Japan, [3]Department of Dermatology, Sapporo Medical University School of Medicine, Sapporo, Japan

O4-49 [P13-29] **Dermoscopy image classification of Japanese melanoma and melanocytic nevus by deep neural network**

○ Hiroshi Koga[1], Akane Minagawa[1], Ryuhei Okuyama[1], Kazuhisa Matsunaga[2], Akira Hamada[2]

[1]Department of Dermatology, Shinshu University School of Medicine, [2]R&D Center, Casio Computer Co., Ltd., Japan

O4-50 [P13-30] **Congenital melanocytic naevi in patient with Russel-Silver dwarfism and growth hormone injections**

○ Meiqi May Liau, Nisha Suyien Chandran

Division of Dermatology, National University Hospital (NUHS), Singapore

December 16, 2017, Room A

Morning Seminar 1

8:20-9:10 Chair: Manabu Fujimoto

MS1 **IL-23/IL-17 axis in host defense and psoriasis and its therapeutic downmodulation by biologics**

○ Yoshiki Tokura

Department of Dermatology, Hamamatsu University School of Medicine

Co-sponsored by Janssen Pharmaceutical K.K.

Plenary Session II

9:15-11:00 Chairs: Alexander H. Enk, Alice Pentland, Shinichi Sato

II-1 [P03-01] 9:15-9:30

Spontaneous dermal fibrosis and vasculopathy induced by Fli1-deficient adipocytes — a potential role of adipocytes in systemic sclerosis

○ Takuya Miyagawa[1], Yoshihide Asano[1], Ryosuke Saigusa[1], Takashi Yamashita[1], Megumi Hirabayashi[1], Kouki Nakamura[1], Shunsuke Miura[1], Takashi Taniguchi[1], Ayumi Yoshizaki[1], Maria Trojanowska[2], Shinichi Sato[1]

[1]Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo, Japan, [2]Boston University School of Medicine, Arthritis Center, Boston, USA

II-2 [P04-01] 9:30-9:45

Anti-CX3CL1 antibody therapy attenuates the development of inflammation, fibrosis, and vascular injury in experimental models of scleroderma

○ Vu H. Luong[1], Takenao Chino[1], Noritaka Oyama[1], Takashi Obara[2], Yoshikazu Kuboi[3], Naoto Ishii[3], Akihito Machinaga[3], Hideaki Ogasawara[3], Wataru Ikeda[3], Toshio Imai[3], Minoru Hasegawa[1]

[1]The Department of Dermatology, University of Fukui, Fukui, Japan, [2]Eisai Co., Ltd., [3]KAN Research Institute. Inc.

II-3 [P01-01] 9:45-10:00

TLR4 antagonist TAK-242 inhibits various autoinflammatory symptoms in IL-36Ra-deficient generalized pustular psoriasis (DITRA) model mice

○ Akitaka Shibata[1,2], Kazumitsu Sugiura[1,3], Yasuhide Furuta[4], Yoshiko Mukumoto[4,5], Osamu Kaminuma[6,7], Masashi Akiyama[1]

[1]Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, [2]Department of Dermatology, Gifu Prefectural Tajimi Hospital, Tajimi, Japan, [3]Department of Dermatology, Fujita Health University School of Medicine, Toyoake, Japan, [4]Animal Resource Development Unit, RIKEN Center for Life Science Technologies, Kobe, Japan, [5]Genetic Engineering Team, RIKEN Center for Life Science Technologies, Kobe, Japan, [6]Department of Genome Medicine, Allergy and Immunology Project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan, [7]The Center for Life Science Research, University of Yamanashi, Chuo, Japan

II-4 [P13-01] 10:00-10:15

Targeting melanocyte stem cells with Dct locus by cloning-free CRISPR/Cas9 technology

○ Daisuke Nanba[1], Yasuaki Mohri[1], Sakura Okamoto[1], Hiroyuki Matsumura[1], Takako Usami[2], Tomomi Aida[3], Koichi Tanaka[3], Emi K. Nishimura[1]

[1]Department of Stem Cell Biology, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan, [2]Laboratory of Recombinant Animals, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan, [3]Laboratory of Molecular Neuroscience, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan

II-5 [P01-02] 10:15-10:30

Reciprocal functions of ERK2 in peripheral and central nervous systems for itch responses

○ Shinsuke Matsuo[1], Takashi Hashimoto[1], Aiko Furuya[1], Sayako Itakura[2], Shogo Endo[3], Yasushi Satoh[4], Takahiro Satoh[1]

[1]Department of Dermatology, National Defense Medical College, Saitama, Japan, [2]Department of anesthesiology, National Defense Medical College, Saitama, Japan, [3]Tokyo Metropolitan Geriatric Hosp. and Inst. of Gerontology, Tokyo, Japan, [4]Department of Pharmacology, National Defense Medical College, Saitama, Japan

II-6 [P10-01] 10:30-10:45

Sensory nerves enhance contact hypersensitivity reaction by promoting cutaneous dendritic cell functions via PACAP

○ Atsushi Otsuka, Chisa Nakashima, Kenji Kabashima

Department of Dermatology, Kyoto University, Kyoto, Japan

II-7 [P05-01] 10:45-11:00

Type XVII collagen regulates proliferation in the interfollicular epidermis

○ Mika Watanabe[1], Ken Natsuga[1], Yasuaki Kobayashi[2], Wataru Nishie[1], Giacomo Donati[3,4], Shotaro Suzuki[1], Yu Fujimura[1], Tadasuke Tsukiyama[5], Hideyuki Ujiie[1], Satoru Shinkuma[1,6], Masamoto Murakami[7], Michitaka Ozaki[8], Masaharu Nagayama[9,10], Fiona. M Watt[3], Hiroshi Shimizu[1]

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Tanioku Kihei Memorial Lecture

11:00-11:30 Chair: Shigetoshi Sano

TML **Endogenous triggers of《 sterile 》inflammation: lessons learned from the skin**

○ Michel Gilliet
Lausanne University Hospital CHUV Switzerland

JSID Award Lecture

11:30-12:00 Chair and Presenter: Shinichi Sato

JAL **Challenge to elucidate the pathogenesis of intractable skin diseases and develop new therapies: Basic research with the aim of clinical application**

○ Sei-ichiro Motegi
Department of Dermatology, Gunma University, Graduate School of Medicine

JSID Kisaragi Award

12:00-12:05 Chair and Presenter: Shinichi Sato

JKA ***Staphylococcus aureus* virulent PSMα peptides induce keratinocyte alarmin release to orchestrate IL-17-dependent skin inflammation**

○ Seitaro Nakagawa
Department of Dermatology, Chiba University Graduate School of Medicine

Luncheon Seminar 4
"The Vital Role of Autophagy in Cellular Survival: Understanding Activity Regulation Mechanisms and Their Importance in Maintaining Youthful Skin."

12:15-13:15 Chair: Setsuya Aiba

LS4-1 **Autophagy research: recent progresses and future directions**

○ Noboru Mizushima
Department of Biochemistry and Molecular Biology, Faculty of Medicine, The University of Tokyo

LS4-2 **Autophagy research: importance in skin cells: temporal changes and aging changes**

○ Nadine Pernodet
Vice President, Skin Biology & BioActives, R&D, The ESTEE LAUDER COMPANIES

Co-sponsored by The Estée Lauder Companies Inc.

The 18th Galderma-Maruho Research Award Presentations by award winners and award ceremony

13:25-14:25 Chairs: Masayuki Amagai, Shinichi Sato, Yoshiki Tokura

GMA1 **A novel splenic B1 regulatory cell subset suppresses allergic disease through phosphatidylinositol 3-kinase-Akt pathway activation**

○ Takashi Matsushita[1], Doanh Le Huu[1,2], Tadahiro Kobayashi[1], Yasuhito Hamaguchi[1], Minoru Hasegawa[3], Kazuhito Naka[4], Atsushi Hirao[5], Masamichi Muramatsu[6], Kazuhiko Takehara[1], Manabu Fujimoto[7]

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GMA2 **Thymic Stromal Chemokine TSLP Acts through Th2 Cytokine Production to Induce Cutaneous T-cell Lymphoma**

○ Naomi Takahashi, Makoto Sugaya, Hiraku Suga, Tomonori Oka, Makiko Kawaguchi, Tomomitsu Miyagaki, Hideki Fujita, Shinichi Sato

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

GMA3 **Autoantibody Profile Differentiates between Inflammatory and Noninflammatory Bullous Pemphigoid**

○ Kentaro Izumi[1], Wataru Nishie[1], Yosuke Mai[1], Mayumi Wada[1], Ken Natsuga[1], Hideyuki Ujiie[1], Hiroaki Iwata[1], Jun Yamagami[2], Hiroshi Shimizu[1]

[1]Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, [2]Department of Dermatology, Keio University School of Medicine, Tokyo, Japan

GMA4 **Melanomas and Mechanical Stress Points on the Plantar Surface of the Foot**

○ Akane Minagawa, Toshikazu Omodaka, Ryuhei Okuyama

Shinshu University School of Medicine, Matsumoto, Japan

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

Concurrent Oral Session 5
(Human Clinical Research and Therapeutics-I)

14:30-15:54 Chairs: Takuro Kanekura, Michihiro Hide, John McGrath

C05-1 [P04-02] **Withdrawn**

C05-2 [P04-04] 14:30-14:42 **Novel role of a neuropeptide, hemokinin-1 in chronic spontaneous urticaria without autoantibodies against FcεRIα and IgE**

○ Nobuyuki Nishimori[1,2], Shota Toyoshima[1,3], Tomomi Sakamoto[1,3], Kazuko Kanegae[1,3], Takahiro Endo[1,2,4], Satoshi Izaki[1,2,5], Daisuke Fujisawa[1,2], Koremasa Hayama[1,2], Ryosuke Nakamura[5], Hideki Fujita[2], Chisei Ra[4], Tadashi Terui[1,2], Yoshimichi Okayama[1,3]

[1]Allergy and Immunology Project Team, Nihon University School of Medicine, Tokyo, Japan, [2]Division of Cutaneous Science, Department of Dermatology, Nihon University School of Medicine, Tokyo, Japan, [3]Center for Institute Research and Medial Education, Nihon University School of Medicine Tokyo, Japan, [4]Division of Microbiology, Department of Pathology and Microbiology, Nihon University School of Medicine, Tokyo, Japan, [5]Division of Medical Safety Science, National Institute of Health Sciences, Tokyo, Japan

C05-3 [P04-05] 14:42-14:54 **MDR-1-expressing Th17 cells infiltrate in psoriasis lesional skin and possibly play a corticosteroid resistant role**

○ Toshiharu Fujiyama, Taisuke Ito, Takatsune Umayahara, Kazuo Kurihara, Hideo Hashizume, Yoshiki Tokura

The Department of Dermatology, Hamamatsu University school of Medicine

C05-4 [P04-06] 14:54-15:06 **Dupilumab in atopic dermatitis patients inadequately controlled with, or intolerant to cyclosporine A: results from phase 3 trials**

○ Marjolein S. de Bruin-Weller[1], Thomas Bieber[2], Makoto Kawashima[3], Jochen Schmitt[4], Kazuhiko Arima[5], Xing Sun[6], Abhijit Gadkari[7], Laurent Eckert[8], Neil M.H. Graham[7], Gianluca Pirozzi[6], Bolanle Akinlade[7], Marius Ardeleanu[7], Brad Shumel[7], Thomas Hultsch[6]

[1]University Medical Center Utrecht, Utrecht, Netherlands, [2]University of Bonn, Bonn, Germany, [3]Tokyo Women's Medical University, Tokyo, Japan, [4]Medical Faculty, Technische Universität Dresden, Dresden, Germany, [5]Sanofi K.K., Tokyo, Japan, [6]Sanofi, Bridgewater, NJ, USA, [7]Regeneron Pharmaceuticals, Inc., Tarrytown, NY, USA, [8]Sanofi, Chilly-Mazarin, France

C05-5 [P04-07] 15:06-15:18 **Longitudinal skin microbiome analysis of atopic dermatitis patients treated by bleach baths**

○ Hiroshi Kawasaki[1,2,3], Eiryo Kawakami[2], Shoko Obata[3], Aki Honda[3], Naoko Mochimaru[3], Ayano Fukushima[3], Fumiyo Yasuda-Sekiguchi[3], Takashi Sasaki[4], Wataru Suda[5,6], Kenya Honda[5], Tamotsu Ebihara[3], Masayuki Amagai[1,3]

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C05-6 [P04-08] 15:18-15:30 **Functionally impaired CD8+ T cell accumulation in invasive extramammary Paget disease**

○ Natsuko Iga[1], Atsushi Otsuka[1,2], Chisa Nakashima[1], Shigeto Matsushita[3], Yuki Yamamoto[4], Takeru Funakoshi[5], Yasuhiro Fujisawa[6], Taku Fujimura[7], Hiroo Hata[8], Yoshihiro Ishida[1], Kenji Kabashima[1,9]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, [2]Translational Research Department for Skin and Brain Diseases, Kyoto University Graduate School of Medicine, [3]Department of Dermato-Oncology/Dermatology, National Hospital Organization Kagoshima Medical Center, [4]Department of Dermatology, Wakayama Medical University, [5]Department of Dermatology, Keio University School of Medicine, [6]Department of Dermatology, University of Tsukuba, [7]Department of Dermatology, Tohoku University Graduate School of Medicine, [8]Department of Dermatology, Hokkaido University Graduate School of Medicine, [9]Singapore Immunology Network (SIgN) and Institute for Medical Biology, Agency for Science, Technology and Research (A*STAR)

C05-7 [P07-06] 15:30-15:42 **Identification of susceptibility loci for tanning ability in 9,960 Japanese from Miyagi and Iwate prefectures**

○ Kosuke Shido[1], Kaname Kojima[2], Atsushi Hozawa[2], Soichi Ogishima[2], Naoko Minegishi[2], Yosuke Kawai[2], Gen Tamiya[2], Kozo Tanno[3], Kenshi Yamasaki[1], Yoichi Suzuki[2], Setsuya Aiba[1], Masao Nagasaki[2]

[1]The Department of Dermatology, University of Tohoku, Miyagi, Japan, [2]Tohoku Medical Megabank Organization, Tohoku University, Sendai, Japan, [3]Iwate Tohoku Medical Megabank Organization, Iwate Medical University, Yahaba, Iwate, Japan

Frontiers Symposium
"Skin regeneration, pigmentation and appendages"

16:00-18:00 Chairs: Manabu Ohyama, Emi Nishimura

FSY-1 **Live-imaging analyses of melanosome transfer in the 3-D skin**

○Yoshiko Takahashi, Ryosuke Tadokoro
Department of Zoology, Graduate School of Science, Kyoto University

FSY-2 **Nail stem cells for digit regeneration**

○Makoto Takeo
Laboratory for Organ Regeneration, CDB, RIKEN, Kobe, Japan

FSY-3 **Reciprocal interactions between epidermal stem cells and their environment**

○Hironobu Fujiwara
RIKEN Center for Developmental Biology

FSY-4 **Stem cells orchestrate hair follicle aging program**

○Emi K. Nishimura
Dept. Stem Cell Biology, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan

FSY-5 **Bioengineering a 3D integumentary organ system from iPS cells using an in vivo transplantation model**

○Takashi Tsuji
RIKEN Center for Developmental Biology, Kobe, Hyogo, Japan

December 16, 2017, Room B

Morning Seminar 2
"New insights in chronic urticaria and psoriasis"

8:20-9:10 Chair: Kenji Kabashima

MS2-1 **Potential new treatment and blood biomarkers in Chronic Spontaneous Urticaria**

○ Hideaki Tanizaki
Department of Dermatology, Osaka Medical College

Chair: Mamitaro Otsuki

MS2-2 **Leucine-rich-α-2 glycoprotein is a predictable biomarker for therapeutic response to psoriasis treatment**

○ Hideki Nakajima
Department of Dermatology, Kochi Medical School, Kochi University

Co-sponsored by Novartis Pharma K.K.

Luncheon Seminar 5
"Latest concept of Psoriasis and spondyloarthritis"

12:15-13:15 Chair: Yoshiki Tokura

LS5-1 **The opening dogma of IL17A axis in psoriasis**

○ Kenshi Yamasaki
Department of Dermatology, Tohoku University Graduate School of Medicine

LS5-2 **Pathophysiology of PsA: The enthesis organ Immunological similarities with the skin**

○ Dennis McGonagle
Leeds Institute of Rheumatic and Musculoskeletal Medicine, University of Leeds, Leeds, UK.

Co-sponsored by Novartis Pharma K.K. /Maruho Co., Ltd.

Concurrent Oral Session 6
(Immunology 1: Adaptive Immunity)

14:30-15:54 Chairs: Riichiro Abe, Tatsuyoshi Kawamura, Nobuo Kanazawa

C06-1 [P10-03] 14:30-14:42 **PD-L1 on radio-resistant cells regulates effector CD8+ T-cell activation during the elicitation phase of contact hypersensitivity**

○ Tomoko Hirano[1], Tetsuya Honda[1], Koji Tamada[2], Lieping Chen[3], Kenji Kabashima[1]
[1]Department of Dermatology, Kyoto University, Kyoto, Japan, [2]Department of Immunology, Yamaguchi University, Yamaguchi, Japan, [3]Department of Immunobiology, Yale University, CT, USA

C06-2 [P10-04] 14:42-14:54 **The IL-13/periostin/IL-24 pathway causes epidermal barrier dysfunction in allergic skin inflammation**

○ Yasutaka Mitamura[1,2], Satoshi Nunomura[1], Masahiro Ogawa[1], Yasuhiro Nanri[1], Tomohito Yoshihara[1], Miho Masuoka[1], Gaku Tuji[2], Takeshi Nakahara[2], Masutaka Furue[2], Kenji Izuhara[1]
[1]Division of Medical Biochemistry, Department of Biomolecular Sciences, Saga Medical school, Saga, Japan, [2]Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan

C06-3 [P10-05] 14:54-15:06 **Skin-specific CD301b+ dermal dendritic cells drive IL-17-mediated psoriasis-like immunity**

○ Tae-Gyun Kim[1], Sung Hee Kim[1], Jeyun Park[1,2], Wanho Choi[2,3], Moah Sohn[2,3], Minseok Lee[1], Jae Won Lee[1], Soo Min Kim[4], Do-Young Kim[1], Hyoung-Pyo Kim[2,5], Jae-Hoon Choi[6], Chae Gyu Park[2,3], Min-Geol Lee[1,2]
[1]Department of Dermatology, Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, Korea, [2]Brain Korea 21 PLUS Project for Medical Science, Yonsei University College of Medicine, Seoul, Korea, [3]Severance Biomedical Science Institute, Yonsei University College of Medicine, Seoul, South Korea, [4]Department of Dermatology, National Health Insurance Service Ilsan Hospital, Goyang, South Korea, [5]Department of Environmental Medical Biology, Institute of Tropical Medicine, Yonsei University College of Medicine, Seoul, South Korea, [6]Department of Life Science, College of Natural Sciences, Research Institute for Natural Sciences, Hanyang University, Seoul, South Korea

C06-4 [P10-06] 15:06-15:18 **Inhibition of IL-36R signal for novel anti-psoriasis strategy**

○ Kentaro Ohko, Kimiko Nakajima, Sayo Kataoka, Mikiro Takaishi, Shigetoshi Sano
Department of Dermatology, Kochi Medical School, Kochi University, Kochi, Japan

C06-5 [P10-07] 15:18-15:30

Lymph node stromal cell-mediated deletional tolerance controls the development of GVHD-like skin lesion in a novel involucrin-mOVA line

○ Yujin Nakagawa[1], Gyohei Egawa[1], Tetsuya Honda[1], Junichi Sakabe[2], Yoshiki Tokura[3], Kenji Kabashima[1]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, [2]Agency for Science, Technology and Research, Singapore, [3]Hamamatsu University School of Medicine, Hamamatsu, Japan

C06-6 [P10-09] 15:30-15:42

CXCL13-plasmablast axis requires for the boosting immunity against varicella zoster virus in patients with herpes zoster

○ Kensuke Fukuchi, Kazuki Tatsuno, Takatoshi Shimauchi, Yoshiki Tokura

Department of Dermatology, Hamamatsu University School of Medicine, Shizuoka, Japan

C06-7 [P13-06] 15:42-15:54

CTLA-4 expressed by melanoma cells showed enhanced susceptibility to anti-melanoma T-cell responses

○ Takashi Inozume[1], Kazutoshi Harada[2], Tatsuyoshi Kawamura[1], Shinji Shimada[1]

[1]Department of Dermatology, University of Yamanashi, [2]Department of Dermatology, Tokyo Medical University

Afternoon Seminar 3
"Beyond anti-PD-1 and anti-CTLA-4 therapies"

16:00-17:00 Chair: Osamu Yamasaki

AS3-1

Novel biomarkers of PD-1 blockade for metastatic melanoma

○ Atsushi Otsuka

Department of Dermatology, Kyoto University

AS3-2

Identification of suitable immune checkpoints as targets for cancer immunotherapy

○ Takashi Inozume

Department of Dermatology, Faculty of Medicine, University of Yamanashi

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

Evening Seminar 1

17:10-18:00 Chair: Daisuke Tsuruta

ES1

Mechanism of immune-regulation mediated by cAMP and regulatory-T cells

○ Akihiko Yoshimura

Department of Microbiology and Immunology, Keio University School of Medicine

Co-sponsored by Celgene K.K.

December 16, 2017, Room C

Invited Lecture 3

12:15-12:45 Chair: Sayuri Yamazaki

IL3 **HLA class II-associated neo-self antigens as a target for autoimmune diseases**

○ Hisashi Arase[1,2]

[1]Laboratory of Immunochemistry, WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan, [2]Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan

Invited Lecture 4

12:45-13:15 Chair: Koji Sayama

IL4 **Chromosomal engineering with CRISPR/Cas9 system**

○ Junji Takeda, Yoshihide Yoshimura

The Department of Genome Biology, Osaka University Graduate School of Medicine, Suita, Osaka, Japan

Concurrent Oral Session 7 (Autoimmunity/Inflammation-II)

14:30-15:54 Chairs: Ichiro Katayama, Hayato Takahashi

C07-1 [P01-12] 14:30-14:42 **Blockade of p38 mitogen-activated protein kinase attenuates the development of murine Sclerodermatous Chronic Graft-Versus-Host Disease**

○ Takashi Matsushita[1], Mutsumi Date[1], Yasuhito Hamaguchi[1], Minoru Hasegawa[2], Manabu Fujimoto[3], Kazuhiko Takehara[1]

[1]Department of Dermatology, Kanazawa University, Kanazawa, Japan, [2]Department of Dermatology, University of Fukui, Fukui, Japan, [3]Department of Dermatology, University of Tsukuba, Tsukuba, Japan

C07-2 [P01-13] 14:42-14:54 **Dysregulated Th17/Treg balance underlies the systemic sclerosis-like phenotypes of Treg-specific Fli1 conditional knock out mice.**

○ Kouki Nakamura[1], Yoshihide Asano[1], Takuya Miyagawa[1], Megumi Hirabayashi[1], Takashi Yamashita[1], Ryosuke Saigusa[1], Shunsuke Miura[1], Tetsuo Toyama[1,2], Takehiro Takahashi[1], Yohei Ichimura[1], Takashi Taniguchi[1], Ayumi Yoshizaki[1], Maria Trojanowska[2], Shinichi Sato[1]

[1]The Department of Dermatology, University of Tokyo, Tokyo, Japan, [2]Arthritis Center, Boston University School of Medicine, Boston, MA, USA

C07-3 [P01-14] 14:54-15:06 **TLR7 signaling is necessary for systemic lupus-like autoimmunity in mice, but not sufficient for development of psoriasis-like inflammation.**

○ Sayo Kataoka[1], Mayuko Yamamoto[2], Kimiko Nakajima[2], Kentaro Ohko[2], Reiko Kamijima[2], Tomoko Nagayama[2], Chisa Matsuoka[2], Shigetoshi Sano[2]

[1]Science Research Center, Kochi University, Nankoku, Kochi, Japan, [2]Department of Dermatology, Kochi Medical School, Kochi University, Nankoku, Kochi, Japan

C07-4 [P01-15] 15:06-15:18 **The mode of action of intravenous immunoglobulin therapy for bullous pemphigoid**

○ Mayumi Kamaguchi[1,2], Hiroaki Iwata[1], Yuiko Mori[1], Hideyuki Ujiie[1], Yoshimasa Kitagawa[2], Hiroshi Shimizu[1]

[1]Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, [2]Department of Oral Diagnosis and Medicine, Hokkaido University Graduate School of Dental Medicine

C07-5 [P01-16] 15:18-15:30 **ERAP1 risk variants affect autoantigen generation in psoriasis**

○ Akiko Arakawa[1], Sigrid Vollmer[1], Emma Reeves[2], Edd James[2], Joerg C. Prinz[1]

[1]Department of Dermatology, Ludwig-Maximilians-University, Muenchen, Germany, [2]Cancer Sciences Unit, Southampton General Hospital, Southampton, UK

C07-6 [P01-17] 15:30-15:42 **Vancomycin mediates autoantibody reactivity against type VII collagen in drug-induced linear IgA bullous dermatosis**

○ Jun Yamagami[1], Yoshio Nakamura[1], Keisuke Nagao[1,2], Takeru Funakoshi[1], Hayato Takahashi[1], Akiko Tanikawa[1], Takahisa Hachiya[3], Toshiyuki Yamamoto[4], Akemi Ishida-Yamamoto[5], Toshihiro Tanaka[6], Chikako Nishigori[7], Tetsuya Yoshida[8], Norito Ishii[9], Takashi Hashimoto[9], Masayuki Amagai[1]

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C07-7
[P01-18]
15:42-15:54

Production of monoclonal antibodies directing mouse BP180 from an adult bullous pemphigoid model

○Wataru Nishie, Kentaro Izumi, Ellen Toyonaga, Ken Natsuga, Hiroshi Shimizu
Department of Dermatology, Faculty of Medicine and Graduate School, Hokkaido University, Sapporo, Japan

Afternoon Seminar 4

16:00-17:00

Chair: Setsuya Aiba

AS4

Role of IL-23 in Psoriasis Pathogenesis

○Andrew Blauvelt
Oregon Medical Research Center, Portland, Oregon, USA

Co-sponsored by Janssen Pharmaceutical K.K.

December 16, 2017, Room D

Luncheon Seminar 6
"On the latest drug treatment for pruritus of the skin diseases"

12:15-13:15 Chairs: Michihiro Hide, Eishin Morita

LS6-1 **Elucidation of alpha-Gal story and pork-cat syndrome**

○ Yuko Chinuki

Department of Dermatology, Shimane University Faculty of Medicine, Shimane, Japan

LS6-2 **Pruritus in psoriasis**

○ Kimiko Nakajima

Department of Dermatology, Kochi Medical School, Kochi University

Co-sponsored by TAIHO PHARMACEUTICAL CO., LTD.

Concurrent Oral Session 8
(Genetic Disease/Gene Regulation and Gene Therapy, Epidemiology/Health Service Research)

14:30-15:54 Chairs: Akemi Yamamoto, Masashi Akiyama

C08-1 [P07-03] 14:30-14:42 **The development of mesenchymal stem/stromal cells from keratinocyte-derived induced pluripotent stem cells (iPSCs).**

○ Chihiro Nakayama[1], Yasuyuki Fujita[1], Wakana Matsumura[1], Shota Takashima[1], Satoru Shinkuma[2], Toshifumi Nomura[1], Riichiro Abe[2], Hiroshi Shimizu[1]

[1]Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, [2]Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan

C08-2 [P07-04] 14:42-14:54 **A mechanism of repigmentation in piebaldism: Melanocyte stem cells in the depigmented skin and functional analysis of the mutant KIT**

○ Akira Shimizu[1], Mai Hattori[1], Akemi Ishida-Yamamoto[2], Hajime Nakano[3], Daisuke Sawamura[3], Kaori Wakamatsu[4], Fuminori Tokunaga[5], Osamu Ishikawa[1]

[1]Department of Dermatology, Gunma University Graduate School of Medicine, [2]Department of Dermatology, Asahikawa Medical University, [3]Department of Dermatology, Hirosaki University Graduate School of Medicine, [4]Graduate School of Science and Technology, Gunma University, [5]Department of Pathobiochemistry, Graduate School of Medicine, Osaka City University

C08-3 [P07-05] 14:54-15:06 **LMX1B with an inframe indel mutation in a familial case of nail patella syndrome shows loss of its transcriptional activity**

○ Miho Mukai[1], Harumi Fujita[1,2], Noriko Umegaki-Arao[1], Takashi Sasaki[1,2,3], Fumiyo Yasuda[1], Tsuyoshi Isojima[4], Sachiko Kitanaka[4], Masayuki Amagai[1,2], Akiharu Kubo[1]

[1]Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, [2]KOSE Endowed Program for Skin Care and Allergy Prevention, Keio University School of Medicine, Tokyo, Japan, [3]Center for Supercentenarian Medical Research, Keio University School of Medicine, Tokyo, Japan, [4]Department of Pediatrics, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

C08-4 [P07-07] 15:06-15:18 **Morphological and chemical analyses of hair samples from Japanese patients with Hermansky-Pudlak Syndrome type 1, 4, 6, and 9**

○ Ken Okamura[1], Yuko Abe[1], Yuta Araki[1], Kazumasa Wakamatsu[2], Gen Tamiya[3], Mariko Seishima[4], Takafumi Umetsu[5], Atsushi Kato[6], Masakazu Kawaguchi[1], Masahiro Hayashi[1], Yutaka Hozumi[1], Tamio Suzuki[1]

[1]Department of Dermatology, Yamagata University Faculty of Medicine, Yamagata, Japan, [2]Department of Chemistry, Fujita Health University School of Health Sciences, Aichi, Japan, [3]Tohoku Medical Megabank Organization, Tohoku University, Sendai, Japan, [4]Department of Dermatology, Gifu University Graduate School of Medicine, Gifu, Japan, [5]Department of Pulmonary Medicine and Clinical Immunology, Dokkyo University School of Medicine, Mibu, Japan, [6]Division of Hematology, Tokyo Kyosai Hospital, Tokyo, Japan

C08-5 [P07-09] 15:18-15:30 **p63 is a key regulator of iRHOM2 signalling in the keratinocyte stress response**

Paola Arcidiacono, Catherine Webb, Diana Blaydon, Anissa Chikh, ○ David Kelsell

Centre for Cell Biology & Cutaneous Research, Blizard Institute, Queen Mary University of London, UK

C08-6 [P06-01] 15:30-15:42 **Serum levels of thymus and activation-regulated chemokine can be a useful marker for pruritus of healthy individuals**

○ Eijiro Akasaka[1], Kenji Hara[1], Mika Takahashi[1], Tomohisa Fukui[1], Ayumi Korekawa[1], Hajime Nakano[1], Ippei Takahashi[2], Shigeyuki Nakaji[2], Daisuke Sawamura[1]

[1]Department of Dermatology, Hirosaki University Graduate School of Medicine, [2]Department of Social Medicine, Hirosaki University Graduate School of Medicine

C08-7
[P06-02]
15:42-15:54

The latent infection of HTLV-1 accelerates the development of autoimmune disease

○Takuya Miyagi[1], Sayaka Yamaguchi[1], Yuetu Tanaka[2], Kenzo Takahashi[1]

[1]The Department of Dermatology, Graduate school of medicine, University of the Ryukyus, Okinawa, Japan, [2]The Department of Immunology, Graduate school of medicine, University of the Ryukyus, Okinawa, Japan

Afternoon Seminar 5
"Accelerating Innovation of Clinical and Research with Immune Repertoire Analysis"

16:00-17:00 Chair: Shin Morizane

AS5-1 **A new technology for high-throughput NGS-based antibody repertoire analysis**

○Takaji Matsutani

R&D Dept., Repertoire Genesis Incorporation

AS5-2 **Clinical and Research Application of T cell receptor repertoire analysis**

○Munenari Itoh

Department of Dermatology, The Jikei University School of Medicine

Co-sponsored by Repertoire Genesis, Inc. /Wako Pure Chemical Industries, Ltd.

Evening Seminar 2
"The Latest Research for Psoriasis and Psoriatic Arthritis"

17:10-18:00 Chair: Masahiro Amano

ES2-1 **Cytokine profile revealed by medical-engineering collaboration study associates with the efficacy of antibody drugs in psoriasis**

○Ayumi Yoshizaki

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

ES2-2 **Transition of psoriatic arthritis research**

○Toshiyuki Yamamoto

Department of Dermatology, Fukushima Medical University, Fukushima, Japan

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

December 17, 2017, Room A

Morning Seminar 3
"The Role of ultraviolet in pigmentation disorder"

8:30-9:20 Chair: Ichiro Katayama

MS3-1 **Relevance of Irradiance in Phototherapy: Lessons learned from Vitiligo**

○ Cheng-Che E Lan

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

MS3-2 **Pigmentation on the face: genetic analysis on freckles and freckle-like pigmentation**

○ Tamio Suzuki[1], Yuta Araki[1], Ken Okamura[1], Batmunkh Munkhbat[2], Gen Tamiya[3], Yutaka Hozumi[1]

[1]Department of Dermatology, Yamagata University Faculty of Medicine, Yamagata, Japan, [2]Central Scientific Research Laboratory, Institute of Medical Sciences, Ulaanbaatar, Mongolia, [3]Tohoku Medical Megabank Organization, Tohoku University, Sendai, Japan

Co-sponsored by USHIO INC.

Plenary Session III

9:30-11:00 Chairs: Christopher EM Griffiths, Akimichi Morita, Masayuki Amagai

III-1 [P01-03] 9:30-9:45 **Development of pathogenic Th17 cells in psoriasis**

○ Sanju Iwamoto[1], Hideaki Watanabe[2], Hirohiko Sueki[2]

[1]Division of Physiology and Pathology, Department of Pharmacology, Toxicology and Therapeutics, Showa University of Pharmacy, [2]Department of Dermatology, Showa University of Medicine

III-2 [P01-04] 9:45-10:00 **Keratinocyte-specific HMGB1 deletion enhanced skin inflammation with increased IL-19 and IL-24 expression**

○ Naoyuki Senda[1], Tomomitsu Miyagaki[1], Makoto Sugaya[1,2], Hideyuki Yanai[3], Tadatsugu Taniguchi[3], Shinichi Sato[1]

[1]Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo, Japan, [2]Department of Dermatology, International University of Health and Welfare, Chiba, Japan, [3]Department of Molecular Immunology, Institute of Industrial Science, University of Tokyo, Tokyo, Japan

III-3 [P02-01] 10:00-10:15 **The regulation of skin fibrosis in systemic sclerosis by extracellular ATP via P2Y2 purinergic receptor**

○ Buddhini Perera, Akiko Sekiguchi, Akihiko Uchiyama, Akihito Uehara, Chisako Fujwara, Sahori Yamazaki, Osamu Ishikawa, Sei-ichiro Motegi

Department of Dermatology, Gunma University Graduate School of Medicine

III-4 [P11-01] 10:15-10:30 **Depletion of basophils alleviates ILC2-dependent atopic dermatitis-like inflammation in mice overexpressing interleukin-33 in the skin**

○ Yasutomo Imai[1], Makoto Nagai[1], Masaaki Yamamoto[1], Koubun Yasuda[2], Kenji Nakanishi[2], Tomohiro Yoshimoto[2], Kiyofumi Yamanishi[1]

[1]Department of Dermatology, Hyogo College of Medicine, Nishinomiya, Japan, [2]Department of Immunology, Hyogo College of Medicine, Nishinomiya, Japan

III-5 [P05-02] 10:30-10:45 **Visualization of in vivo keratin networks in mouse stratum granulosum reveals dynamic cytoskeletal changes during cornification**

○ Keiko Usui[1,2], Takeshi Matsui[1], Yuki Furuichi[1,3], Nanako Kadono[1,5], Ai Hirabayashi[1], Mayuko Sato[4], Kiminori Toyooka[4], Masayuki Amagai[1,3]

[1]Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, Kanagawa, Japan, [2]Department of Hygienic Chemistry, Faculty of Pharmacy, Keio University, Tokyo, Japan, [3]Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, [4]Mass Spectrometry and Microscopy Unit, RIKEN Center for Sustainable Resource Science, Kanagawa, Japan, [5]KOSÉ Endowed Program for Skin Care and Allergy Prevention, Keio University School of Medicine, Tokyo, Japan

III-6 [P10-02] 10:45-11:00 **CD5$^+$ regulatory B1 cells inhibit melanoma tumor immunity**

○ Tadahiro Kobayashi[1], Takashi Matsushita[1], Yasuhito Hamaguchi[1], Manabu Fujimoto[2], Kazuhiko Takehara[1]

[1]Department of Dermatology, Faculty of Medicine, Institute of Medical, Pharmaceutical, and Health Sciences, Kanazawa University, Ishikawa, Japan, [2]Dermatology, University of Tsukuba, Tsukuba, Japan

Concurrent Oral Session 9
(Immunology 2: Innate Immunity and Microbiology)

11:05-12:29 Chairs: Koji Sayama, Hideo Asada

C09-1 [P11-03] 11:05-11:17

Regnase-1 in keratinocytes limits the IL-36/IL-36R auto-stimulatory loop to buffer skin inflammation.

○ Shigetoshi Sano[1], Kentaro Ohoko[1], Takashi Satoh[2], Shizuo Akira[2], Mikiro Takaishi[1]

[1]Department of Dermatology, Kochi medical school, Kochi University, [2]Department of Host Defense, Research Institute for Microbial Diseases, Osaka University, Suita, Japan

C09-2 [P11-04] 11:17-11:29

Staphylococcus aureus virulent PSMα peptides induce keratinocyte alarmin release to orchestrate IL-17-dependent skin inflammation

○ Seitaro Nakagawa[1,2], Yuumi Nakamura[1], Masanori Matsumoto[2], Yuki Katayama[1], Rena Oguma[1], Gabriel Nunez[2], Hiroyuki Matsue[1]

[1]The Department of Dermatology, Chiba University, Chiba, Japan, [2]Pathology and Comprehensive Cancer Center, University of Michigan, MI, USA

C09-3 [P11-05] 11:29-11:41

Insight into differential outcomes after cutaneous HSV-2 infection at day or night time by circadian clock protein, CLOCK, in mice

○ Takamitsu Matsuzawa[1,4], Youichi Ogawa[1], Yuki Nakamura[2], Kayoko Ishimaru[2], Fumi Goshima[3], Shinji Shimada[1], Atsuhito Nakao[2], Tatsuyoshi Kawamura[1]

[1]Department of Dermatology, University of Yamanashi, Yamanashi, Japan, [2]Department of Immunology, University of Yamanashi, Yamanashi, Japan, [3]Department of Virology, Nagoya University, Nagoya, Japan, [4]Department of Dermatology, Chiba University, Chiba, Japan

C09-4 [P11-06] 11:41-11:53

Protection against atopic dermatitis through acquisition of Staphylococcus quorum-sensing agr mutations in the skin

○ Yuumi Nakamura[1], Hiroki Takahashi[2], Akiko Takaya[3], Yuzaburo Inoue[4], Yuki Katayama[1], Yoko Kusuya[2], Rena Oguma[1], Fumiya Yamaide[4], Naoki Shimojo[4], Gabriel Nunez[5], Hiroyuki Matsue[1]

[1]Department of Dermatology, Chiba University Graduate School of Medicine, Japan, [2]Division of Bio-resources, Medical Mycology Research Center, Chiba University, Japan, [3]Department of Microbiology and Molecular Genetics, Graduate School of Pharmaceutical Sciences, Chiba University, Chiba, Japan, [4]Department of Pediatrics, Chiba University Graduate School of Medicine, Chiba, Japan, [5]Department of Pathology and Comprehensive Cancer Center, University of Michigan Medical School, USA

C09-5 [P11-07] 11:53-12:05

Interaction of peripheral nerves and basophil plays an essential role in murine atopic-dermatitis-like inflammation

○ Chisa Nakashima, Atsushi Otsuka, Kenji Kabashima

Department of Dermatology, Kyoto University Graduate School of Medicine

C09-6 [P11-08] 12:05-12:17

High-fat diet exacerbates neutrophilic folliculitis by upregulating CXCL2 in neutrophils

○ Satoshi Nakamizo[1], Tetsuya Honda[2], Florent Ginhoux[3], Kenji Kabashima[1,2,3]

[1]Institute Medical Biology, Agency for Science, Technology and Research, Singapore, [2]Department of Dermatology, Kyoto University Graduate School of Medicine, Japan, [3]Singapore Immunology Network, Agency for Science, Technology and Research, Singapore

C09-7 [P13-05] 12:17-12:29

TLR3 stimulation regulate phagocytosis activity of epidermal keratinocytes though the change of Rac1, RhoA and CDC42 expressions.

○ Saaya Koike, Kenshi Yamasaki, Takeshi Yamauchi, Kenichiro Tsuchiyama, Setsuya Aiba

Department of Dermatology, Tohoku University Graduate School of Medicine, Miyagi, Japan

December 17, 2017, Room B

Morning Seminar 4
"The Dynamic Interplay Between Skin Barrier, Microbiome, and Inflammation in Atopic Dermatitis Pathophysiology"

8:30-9:20 Chair: Masayuki Amagai

MS4-1 **The barrier, the microbiome, and immune dysfunction: Evolving perspectives on atopic dermatitis pathophysiology**

○Tiffany C. Scharschmidt

Department of Dermatology, University of California, San Francisco, California, USA

MS4-2 **Immunoinflammatory pathways in atopic dermatitis: Pathogenesis of atopic dermatitis in the context of cytokines**

○Kenji Kabashima

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

Co-sponsored by Sanofi K.K./Regeneron Pharmaceuticals, Inc.

Concurrent Oral Session 10
(Autoimmunity/Inflammation-III, Cell Adhesion/Matrix/Vascular Biology)

11:05-12:29 Chairs: Minoru Hasegawa, Masatoshi Jinnin

C10-1 [P01-20] 11:05-11:17 **Pro-fibrotic Phenotype of Human Skin Fibroblasts Induced by Periostin via Modulating TGF-β Signaling**

○Miwa Kanaoka[1], Yukie Yamaguchi[1], Noriko Koumitsu[1], Kazuhiko Arima[2], Kenji Izuhara[2], Michiko Aihara[1]

[1]Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, [2]Department of Biomolecular Sciences, Saga Medical School

C10-2 [P01-28] 11:17-11:29 **Chromatin reader proteins as therapeutic targets for inflammatory skin disease: role of BET proteins and epigenetic modifications**

Keith C.P Wu[1], N.R. Harker[2], S.F.W. Kendrick[2], R.K. Prinjha[2], M.A. Morse[2], ○N.J. Reynolds[1]

[1]Newcastle University, [2]GlaxoSmithKline R&D

C10-3 [P03-02] 11:29-11:41 **Inhibitory regulation of skin fibrosis in systemic sclerosis by apelin/APJ signaling**

○Yoko Yokoyama, Akiko Sekiguchi, Chisako Fujiwara, Akihiko Uchiyama, Sahori Yamazaki, Sachiko Ogino, Ryoko Torii, Osamu Ishikawa, Sei-ichiro Motegi

Department of Dermatology, Gunma University Graduate School of Medicine

C10-4 [P03-03] 11:41-11:53 **Endothelin blockade ameliorates scleroderma-like vasculopathy in myeloid cell-specific Fli1 knockout mice.**

○Takashi Taniguchi[1,2], Yoshihide Asano[1], Takehiro Takahashi[1], Yohei Ichimura[1], Tetsuo Toyama[1], Ryosuke Saigusa[1], Ayumi Yoshizaki[1], Maria Trojanowska[3], Shinichi Sato[1]

[1]Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo, Japan, [2]Department of Dermatology, International University of Health and Welfare Graduate School of Medical Sciences, Chiba, Japan, [3]Arthritis Center, Rheumatology, Boston University School of Medicine, Boston, MA, USA

C10-5 [P03-04] 11:53-12:05 **Leucine-rich alpha 2 glycoprotein promotes fibrosis in a bleomycin-iduced scleroderma model.**

○Hideki Nakajima[1], Hiromi Honda[2], Satoshi Serada[2], Minoru Fujimoto[2], Tetsuji Naka[2]

[1]Department of dermatology, Kochi Medical School, Kochi University, Nankoku, Japan, [2]Integrated Center for Advanced Medical Technologies, Kochi Medical School, Kochi University

C10-6 [P13-07] 12:05-12:17 **Integration of periostin and M2 macrophages in human and murine melanoma progression**

○Fumitaka Ohno[1], Takeshi Nakahara[1], Makiko Nakahara[1], Satoshi Nunomura[2], Kenji Izuhara[2], Masutaka Furue[1]

[1]The Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan, [2]The Division of Medical Biochemistry, Department of Biomolecular Sciences, Saga Medical School, Saga, Japan

C10-7 [P03-06] 12:17-12:29 **The significance of tumor cells-derived MFG-E8 in tumor growth of angiosarcoma**

○Chisako Fujiwara[1], Aoi Ohira[2], Sayaka Yamaguchi[2], Akiko Sekiguchi[1], Sahori Yamazaki[1], Daichi Hoshina[3], Riichiro Abe[4], Kenzo Takahashi[2], Osamu Ishikawa[1], Sei-ichiro Motegi[1]

[1]Department of Dermatology, Gunma University Graduate School of Medicine, [2]Department of Dermatology, University of the Ryukyus Graduate School of Medicine, [3]Department of Dermatology, Hokkaido University Graduate School of Medicine, [4]Division of Dermatology, Niigata University Graduate School of Medicine and Dental Science

JSID-Asia-Oceania-Forum
AOCLR Asia-Oceania Cutaneous Lymphoma Research "Get Together with Asian Power"

12:35-14:35 Chairs: Keiji Iwatsuki, Yoshiki Tokura

Opening Remarks

12:35-12:37

1. Keynote Lecture

JAOF-1 12:37-13:07

New strategies to improve feasibility and efficacy of personalized cancer immunotherapy

○ Riccardo Dolcetti[1,2]

[1]Diamantina Institute, Translational Research Institute, Brisbane, QLD, [2]CRO-IRCCS, National Cancer Institute, Aviano

2. Topics in Lymphoma Research/JAOF (JSID-Asia-Oceania-Forum)

JAOF-2 13:10-13:26

Regional incidences of adult T-cell leukemia/lymphoma with cutaneous involvement in Japan

○ Toshihisa Hamada

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

JAOF-3 13:26-13:42

Dendritic cells promote the spread of human T-cell leukemia virus type-1 via bidirectional interactions with CD4$^+$ T-cells

○ Takatoshi Shimauchi

Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu

JAOF-4 13:42-13:58

Cutaneous EBV-associated lymphoproliferative disorders

○ Dong-Youn Lee[1], Ji-Young Jun[1], Young-Hye Ko[2]

[1]Department of Dermatology, Samsung Medical Center, Sungkyunkwan University, Seoul, [2]Department of Pathology, Samsung Medical Center, Sungkyunkwan University, Seoul

JAOF-5 13:58-14:14

Aberrant epigenetic programming in cutaneous CD30+ lymphoproliferative disease

○ Yang Wang

Department of Dermatology and Venerology, Peking University First Hospital, Beijing

JAOF-6 14:14-14:30

CCR7 activation induces cell migration through mTOR activation followed by the expression of malat-1, a lncRNA, in cutaneous T cell lymphoma

○ Chih-Hung (Abel) Lee[1,2]

[1]Department of Dermatology, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, [2]Department of Dermatology, Chang Gung University, Taoyuan

(Summary and Closing Remarks)

14:30-14:35

Co-sponsored by MINOPHAGEN PHARMACEUTICAL CO., LTD.

December 17, 2017, Room C

Concurrent Oral Session 11
(Carcinogenesis/Growth Factors/Signal Transduction/Cancer Genetics)

11:05-12:29 Chairs: Akiharu Kubo, Daisuke Tsuruta

C11-1 [P02-02] 11:05-11:17

Drp1 mediates cell proliferation and mitochondrial morphology in cutaneous squamous cell carcinoma

○ Shinya Kitamura[1], Teruki Yanagi[1], Keisuke Imafuku[1], Hiroo Hata[1], Riichiro Abe[2], Hiroshi Shimizu[1]

[1]Departments of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, [2]Departments of Dermatology, Niigata University Graduate School of Medicine, Niigata, Japan

C11-2 [P02-03] 11:17-11:29

Application of deep learning technique with transcriptome data to identify unknown cellular origin of metastatic skin tumor

○ Daisuke Utsumi, Yoshiyuki Kariya, Yuko Okubo, Koutarou Komatsu, Kenzo Takahashi

The Department of Dermatology, University of Ryukyus, Okinawa, Japan

C11-3 [P02-04] 11:29-11:41

Electrophysiological characterization of nalfurafine-responsive dorsal horn neurons in spinal itch transmission

○ Kotaro Honda[1], Mitsutoshi Tominaga[1], Fumiya Kusube[1,2], Fumiyuki Yamakura[3], Hisashi Naito[4], Yasushi Suga[5], Hideoki Ogawa[1], Kenji Takamori[1,5]

[1]Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, Japan, [2]Department of Biological Science and Technology, Faculty of Industrial Science and Technology, Tokyo University of Science, Tokyo, Japan, [3]Juntendo University Faculty of International Liberal Arts, Tokyo, Japan, [4]Institute of Health and Sports Science & Medicine, Juntendo University, Chiba, Japan, [5]Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan

C11-4 [P02-05] 11:41-11:53

Tape stripped stratum corneum samples prove to be suitable for comprehensive proteomic investigation of actinic keratosis

○ Ali Azimi[1], Marina Ali[1], Kim L Kaufman[2,3], Graham Mann[4], Pablo Fernandez-Penas[1]

[1]Department of Dermatology, The University of Sydney, NSW, Australia, [2]School of Molecular Bioscience, Faculty of Science, The University of Sydney, Darlington NSW, Australia, [3]Brain and Mind Centre, The University of Sydney, Camperdown, NSW, [4]Westmead Institute for Medical Research, The University of Sydney, Westmead NSW, Australia

C11-5 [P02-06] 11:53-12:05

Oral itraconazole for treatment of infantile hemangiomas: Updated clinical and mechanism research

○ Yuping Ran

Department of Dermatology, West China Hospital, Sichuan University, Chengdu, China

C11-6 [P02-07] 12:05-12:17

Podoplanin in peritumoral keratinocytes mediates dermal invasion of extramammary Paget's disease

○ Jun Asai[1], Zaigen Cho[1], Mai Kanemaru[1], Taro Isohisa[1], Takahiro Arita[1], Minako Onishi[1], Miho Tsutsumi[1], Toshiyuki Ozawa[2], Daisuke Tsuruta[2], Norito Katoh[1]

[1]Department of Dermatology, Kyoto Prefectural University of Medicine Graduate School of Medical Science, Kyoto, Japan, [2]Department of Dermatology, Osaka City University Graduate School of Medicine, Osaka, Japan

C11-7 [P02-08] 12:17-12:29

Melatonin receptors decrease with age in normal human dermal fibroblasts

Pelle Ed[1,2], Kelly Dong[1], Earl Goyarts[1], ○ Nadine Pernodet[1]

[1]Estee Lauder Research Laboratories, Melville, NY, [2]Environmental Medicine, New York University School of Medicine, New York, NY

December 17, 2017, Room D

Concurrent Oral Session 12
(Human Clinical Research and Therapeutics-II)

11:05-12:29 Chairs: Yayoi Tada, Makoto Sugaya

C12-1 [P04-09] 11:05-11:17

Cross-talk between desmoglein 3 and epidermal growth factor receptor in oral squamous cell carcinoma

○ Michiyoshi Kouno[1], Masaki Minabe[2], Yurie Akiyama[2], Tetsuhiko Tachikawa[3]

[1]Department of Dermatology, Tokyo Dental College Ichikawa General hospital, Chiba, Japan, [2]Department of Oral Medicine, Oral and Maxillofacial Surgery, Tokyo Dental College Ichikawa General hospital, Chiba, Japan, [3]Division of Molecular Diagnosis and Cancer Prevention, Saitama Cancer Center, Saitama, Japan

C12-2 [P04-10] 11:17-11:29

The first step to the artificial intelligence (AI) diagnosis of skin cancer.

○ Yuji Ota[1], Kosuke Shido[2], Kaname Kojima[3], Masao Nagasaki[3], Kenshi Yamasaki[2], Setsuya Aiba[2]

[1]School of Medicine, University of Tohoku, Miyagi, Japan, [2]The Department of Dermatology, University of Tohoku, Miyagi, Japan, [3]Tohoku Medical Megabank Organization, Tohoku University, Sendai, Japan

C12-3 [P04-11] 11:29-11:41

CD147-cyclophilin A interactions promote proliferation and survival of cutaneous T-cell lymphoma

○ Minami Sakamoto[1,2], Tomomitsu Miyagaki[1], Hiroaki Kamijo[1], Tomonori Oka[1], Naomi Takahashi[1], Hiraku Suga[1], Makoto Sugaya[1,2], Shinichi Sato[1]

[1]The Department of Dermatology, University of Tokyo, Tokyo, Japan, [2]Department of Dermatology, International University of Health and Welfare, Chiba, Japan

C12-4 [P04-13] 11:41-11:53

Characterization of the influence of PD-1 blockade on IFN-γ, granzyme B and IL-9 prodution by T cells in advanced melanoma patients

○ Ryo Takahashi[1], Yohei Sato[2], Momoko Kimishima[2], Tetsuo Shiohara[1,2], Manabu Ohyama[1,2]

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

C12-5 [P04-17] 11:53-12:05

Photoacoustic Imaging for Dermatologic Diseases—Hearing Under the Skin—

○ Yoshihiro Ishida, Atsushi Otsuka, Kenji Kabashima

Department of Dermatology, Kyoto University, Kyoto, Japan

C12-6 [P04-18] 12:05-12:17

EBV-infected lymphocyte subsets responsible for the phenotype and prognosis of hydroa vacciniforme and hypersensitivity to mosquito bites

○ Tomoko Miyake[1], Yoji Hirai[1], Hideo Asada[2], Keiji Iwatsuki[1]

[1]The Department of Dermatology, University of Okayama, Okayama, Japan, [2]Nara Medical University, Department of Dermatology

C12-7 [P04-20] 12:17-12:29

Efficacy of 595 nm pulsed-dye laser in the treatment of discoid lupus erythematosus, a double blinded randomized controlled trial

○ Pawinee Rerknimitr, Nucharin Tekacharin, Ratchathorn Panchaprateep

Division of Dermatology, Department of Medicine, Skin and Allergy Research Unit, Chulalongkorn University

December 15-17, 2017, Poster Venue

Poster Presentation
Category 1 (P01): Autoimmunity/Inflammation

P01-01 [II-3] **TLR4 antagonist TAK-242 inhibits various autoinflammatory symptoms in IL-36Ra-deficient generalized pustular psoriasis (DITRA) model mice**

○ Akitaka Shibata[1,2], Kazumitsu Sugiura[1,3], Yasuhide Furuta[4], Yoshiko Mukumoto[4,5], Osamu Kaminuma[6,7], Masashi Akiyama[1]

[1]Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, [2]Department of Dermatology, Gifu Prefectural Tajimi Hospital, Tajimi, Japan, [3]Department of Dermatology, Fujita Health University School of Medicine, Toyoake, Japan, [4]Animal Resource Development Unit, RIKEN Center for Life Science Technologies, Kobe, Japan, [5]Genetic Engineering Team, RIKEN Center for Life Science Technologies, Kobe, Japan, [6]Department of Genome Medicine, Allergy and Immunology Project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan, [7]The Center for Life Science Research, University of Yamanashi, Chuo, Japan

P01-02 [II-5] **Reciprocal functions of ERK2 in peripheral and central nervous systems for itch responses**

○ Shinsuke Matsuo[1], Takashi Hashimoto[1], Aiko Furuya[1], Sayako Itakura[2], Shogo Endo[3], Yasushi Satoh[4], Takahiro Satoh[1]

[1]Department of Dermatology, National Defense Medical College, Saitama, Japan, [2]Department of anesthesiology, National Defense Medical College, Saitama, Japan, [3]Tokyo Metropolitan Geriatric Hosp. and Inst. of Gerontology, Tokyo, Japan, [4]Department of Pharmacology, National Defense Medical College, Saitama, Japan

P01-03 [III-1] **Development of pathogenic Th17 cells in psoriasis**

○ Sanju Iwamoto[1], Hideaki Watanabe[2], Hirohiko Sueki[2]

[1]Division of Physiology and Pathology, Department of Pharmacology, Toxicology and Therapeutics, Showa University of Pharmacy, [2]Department of Dermatology, Showa University of Medicine

P01-04 [III-2] **Keratinocyte-specific HMGB1 deletion enhanced skin inflammation with increased IL-19 and IL-24 expression**

○ Naoyuki Senda[1], Tomomitsu Miyagaki[1], Makoto Sugaya[1,2], Hideyuki Yanai[3], Tadatsugu Taniguchi[3], Shinichi Sato[1]

[1]Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo, Japan, [2]Department of Dermatology, International University of Health and Welfare, Chiba, Japan, [3]Department of Molecular Immunology, Institute of Industrial Science, University of Tokyo, Tokyo, Japan

P01-05 [C01-1] **Fli1 deficiency potentially regulates M2 macrophage/B cell axis in systemic sclerosis**

○ Yoshihide Asano[1], Takashi Taniguchi[1,2], Takashi Yamashita[1], Kouki Nakamura[1], Ryosuke Saigusa[1], Yohei Ichimura[1], Takehiro Takahashi[1], Tetsuo Toyama[1], Ayumi Yoshizaki[1], Shinichi Sato[1]

[1]Department of Dermatology, University of Tokyo Graduate School of Medicine, [2]Department of Dermatology, Graduate School of Medical Science, International University of Health and Welfare

P01-06 [C01-2] **Immunization of dermatomyositis-specific autoantigen transcriptional intermediary factor (TIF1)-γ induces myositis in mice**

○ Naoko Okiyama, Manabu Fujimoto

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

P01-07 [C01-3] **Platelet-specific Fli1-knockout mice show accelerated wound closure and enhanced angiogenesis.**

○ Megumi Hirabayashi, Yoshihide Asano, Takashi Yamashita, Ryosuke Saigusa, Shunsuke Miura, Kouki Nakamura, Takuya Miyagawa, Takashi Taniguchi, Ayumi Yoshizaki, Shinichi Sato

The Department of Dermatology, University of Tokyo, Tokyo, Japan

P01-08 [C01-4] **B cell depletion increases regulatory T cells and thereby ameliorates tissue fibrosis in a bleomycin-induced systemic sclerosis model mice.**

○ Hiroko Numajiri, Ayumi Yoshizaki, Takemichi Fukasawa, Satoshi Ebata, Yoshihide Asano, Shinichi Sato

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

P01-09 [C01-5] **Single cell analysis revealed that responses to therapy is regulated by B cells in systemic sclerosis-associated interstitial lung disease**

○ Satoshi Ebata[1], Ayumi Yoshizaki[1], Takemichi Fukasawa[1], Kouki Nakamura[1], Takashi Yamashita[1], Shunsuke Miura[1], Ryosuke Saigusa[1], Megumi Hirabayashi[1], Asako Yoshizaki[1], Kaname Akamata[1], Yoshihide Asano[1], Yutaka Kazoe[2], Kazuma Mawatari[2], Takehiko Kitamori[2], Shinichi Sato[1]

[1]The Department of Dermatology, University of Tokyo, Tokyo, Japan, [2]The Department of Applied Chemistry, University of Tokyo, Tokyo, Japan

P01-10 [C01-6] **CD26/DPPIV regulates mechanical itch in a mechanistically distinct manner from chemical itch.**

○ Eriko Komiya[1,2], Ryo Hatano[1], Haruna Otsuka[1], Takumi Itoh[1], Hiroto Yamazaki[1], Mitsutoshi Tominaga[2], Kenji Takamori[2], Kei Ohnuma[1], Chikao Morimoto[1]

[1]Department of Therapy Development and Innovation for Immune Disorders and Cancers, Graduate School of Medicine, Juntendo University, Tokyo, Japan, [2]Institute for Environmental and Gender Specific Medicine, Graduate School of Medicine, Juntendo University, Chiba, Japan

P01-11 [C01-7] **A novel animal model of psoriatic dermatitis induced by p38 MAPK activator proposing a potential therapeutic target for psoriasis**

○ Kenji Sakurai, Teruki Dainichi, Reiko Matsumoto, Yuri Nakano, Masayuki Otsuka, Kenji Kabashima

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

P01-12 [C07-1] **Blockade of p38 mitogen-activated protein kinase attenuates the development of murine Sclerodermatous Chronic Graft-Versus-Host Disease**

○ Takashi Matsushita[1], Mutsumi Date[1], Yasuhito Hamaguchi[1], Minoru Hasegawa[2], Manabu Fujimoto[3], Kazuhiko Takehara[1]

[1]Department of Dermatology, Kanazawa University, Kanazawa, Japan, [2]Department of Dermatology, University of Fukui, Fukui, Japan, [3]Department of Dermatology, University of Tsukuba, Tsukuba, Japan

P01-13 [C07-2] **Dysregulated Th17/Treg balance underlies the systemic sclerosis-like phenotypes of Treg-specific Fli1 conditional knock out mice.**

○ Kouki Nakamura[1], Yoshihide Asano[1], Takuya Miyagawa[1], Megumi Hirabayashi[1], Takashi Yamashita[1], Ryosuke Saigusa[1], Shunsuke Miura[1], Tetsuo Toyama[1,2], Takehiro Takahashi[1], Yohei Ichimura[1], Takashi Taniguchi[1], Ayumi Yoshizaki[1], Maria Trojanowska[2], Shinichi Sato[1]

[1]The Department of Dermatology, University of Tokyo, Tokyo, Japan, [2]Arthritis Center, Boston University School of Medicine, Boston, MA, USA

P01-14 [C07-3] **TLR7 signaling is necessary for systemic lupus-like autoimmunity in mice, but not sufficient for development of psoriasis-like inflammation.**

○ Sayo Kataoka[1], Mayuko Yamamoto[2], Kimiko Nakajima[2], Kentaro Ohko[2], Reiko Kamijima[2], Tomoko Nagayama[2], Chisa Matsuoka[2], Shigetoshi Sano[2]

[1]Science Research Center, Kochi University, Nankoku, Kochi, Japan, [2]Department of Dermatology, Kochi Medical School, Kochi University, Nankoku, Kochi, Japan

P01-15 [C07-4] **The mode of action of intravenous immunoglobulin therapy for bullous pemphigoid**

○ Mayumi Kamaguchi[1,2], Hiroaki Iwata[1], Yuiko Mori[1], Hideyuki Ujiie[1], Yoshimasa Kitagawa[2], Hiroshi Shimizu[1]

[1]Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, [2]Department of Oral Diagnosis and Medicine, Hokkaido University Graduate School of Dental Medicine

P01-16 [C07-5] **ERAP1 risk variants affect autoantigen generation in psoriasis**

○ Akiko Arakawa[1], Sigrid Vollmer[1], Emma Reeves[2], Edd James[2], Joerg C. Prinz[1]

[1]Department of Dermatology, Ludwig-Maximilians-University, Muenchen, Germany, [2]Cancer Sciences Unit, Southampton General Hospital, Southampton, UK

P01-17 [C07-6] **Vancomycin mediates autoantibody reactivity against type VII collagen in drug-induced linear IgA bullous dermatosis**

○ Jun Yamagami[1], Yoshio Nakamura[1], Keisuke Nagao[1,2], Takeru Funakoshi[1], Hayato Takahashi[1], Akiko Tanikawa[1], Takahisa Hachiya[3], Toshiyuki Yamamoto[4], Akemi Ishida-Yamamoto[5], Toshihiro Tanaka[6], Chikako Nishigori[7], Tetsuya Yoshida[8], Norito Ishii[9], Takashi Hashimoto[9], Masayuki Amagai[1]

[1]Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, [2]Dermatology Branch, National Cancer Institute, Bethesda, MD, USA, [3]Medical and Biological Laboratories Co. Ltd, Nagoya, Japan, [4]Department of Dermatology, Fukushima Medical University School of Medicine, Fukushima, Japan, [5]Department of Dermatology, Asahikawa Medical University, Asahikawa, Japan, [6]Department of Dermatology, Shiga University of Medical Science, Otsu, Japan, [7]Department of Dermatology, Kobe University, Kobe, Japan, [8]Department of Dermatology, Tokyo Medical Center, Tokyo, Japan, [9]Department of Dermatology, Kurume University School of medicine, Fukuoka, Japan

P01-18 [C07-7] **Production of monoclonal antibodies directing mouse BP180 from an adult bullous pemphigoid model**

○ Wataru Nishie, Kentaro Izumi, Ellen Toyonaga, Ken Natsuga, Hiroshi Shimizu

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

P01-19 [O1-01] **Small molecular agonist of the adiponectin receptor ameliorates fibrosis, vasculopathy, and immune abnormalities in model mice of SSc**

○ Takashi Yamashita, Yoshihide Asano, Takashi Taniguchi, Ayumi Yoshizaki, Shinichi Sato

The Department of Dermatology, University of Tokyo, Tokyo, Japan

P01-20 [C10-1] **Pro-fibrotic Phenotype of Human Skin Fibroblasts Induced by Periostin via Modulating TGF-β Signaling**

○ Miwa Kanaoka[1], Yukie Yamaguchi[1], Noriko Koumitsu[1], Kazuhiko Arima[2], Kenji Izuhara[2], Michiko Aihara[1]

[1]Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, [2]Department of Biomolecular Sciences, Saga Medical School

P01-21 [O1-02] **Downregulated Caveolin-1 expression in circulating monocytes may contribute to the pathogenesis of psoriasis.**

○ Naoko Takamura, Yukie Yamaguchi, Yuko Watanabe, Miho Asami, Noriko Komitsu, Michiko Aihara

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

P01-22 [O1-03] **The novel micro-fluidic system reveals the pathogenic roles of vascular endothelium-specific B cells in cutaneous arteritis.**

○Ayumi Yoshizaki[1], Kouki Nakamura[1], Satoshi Ebata[1], Takemichi Fukasawa[1], Yoshihide Asano[1], Yutaka Kazoe[2], Kazuma Mawatari[2], Takehiko Kitamori[2], Shinichi Sato[1]

[1]Department of Dermatology, The University of Tokyo Graduate School of Medicine, [2]Department of Applied Chemistry, The University of Tokyo Graduate School of Engineering

P01-23 [O1-04] **Intrathecal injection of sulfated cholecystokinin-8 induces alloknesis in mice**

○Mitsutoshi Tominaga[1], Fumiya Kusube[1], Kotaro Honda[1], Nobuaki Takahashi[1], Hisashi Naito[2], Fumiyuki Yamakura[3], Yasushi Suga[5], Hideoki Ogawa[1], Yasuhiro Tomooka[4], Kenji Takamori[1,5]

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P01-24 [O1-05] **Circulating IgG autoantibodies to ECM1 contribute to the altered expression of hemidesmosomal and vascular antigens in lichen sclerosus skin**

○Natsuko Utsunomiya, Noritaka Oyama, Takenao Chino, Akira Utsunomiya, Minoru Hasegawa

The Department of Dermatology, Faculty of Medical Sciences, University of Fukui, Fukui, Japan

P01-25 [O1-06] **IPAS/HIF-3α downregulation promotes HIF-1α-mediated VEGF expression in psoriasis**

○Takashi Shibuya[1], Shin Iinuma[1], Nao Saito[1], Mari Kishibe[1], Masaru Honma[1], Yuichi Makino[2], Akemi Ishida-Yamamoto[1]

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P01-26 [O1-07] **Distinct B cell cytokine production is determined by B cell autoantigen affinity and is related to its pathogenic role in systemic sclerosis**

○Takemichi Fukasawa[1], Ayumi Yoshizaki[1], Satoshi Ebata[1], Kouki Nakamura[1], Ryosuke Saigusa[1], Takashi Yamashita[1], Yoshihide Asano[1], Yutaka Kazoe[2], Kazuma Mawatari[2], Takehiko Kitamori[2], Shinichi Sato[1]

[1]The Department of Dermatology, University of Tokyo, Tokyo, Japan, [2]The Department of Applied Chemistry, University of Tokyo, Tokyo, Japan

P01-27 [O1-08] **Rituximab an adjuvant therapy for resistant pemphigus patients**

○Marwah Saleh

Cairo University

P01-28 [C10-2] **Chromatin reader proteins as therapeutic targets for inflammatory skin disease: role of BET proteins and epigenetic modifications**

Keith C.P Wu[1], N.R. Harker[2], S.F.W. Kendrick[2], R.K. Prinjha[2], M.A. Morse[2], ○N.J. Reynolds[1]

[1]Newcastle University, [2]GlaxoSmithKline R&D

P01-29 [O1-09] **Recognition of SS-A/IgG/HLA-DR complex by autoantibodies in Sjögren's syndrome.**

○Noriko Arase[1,2], Hui Jin[2,3], Yutaro Hayashi[2,4], Hiroyuki Murota[1], Hisashi Arase[2,3], Ichiro Katayama[1]

[1]Dermatology, Department of Integrated Medicine, Graduate School of Medicine, Osaka University, [2]Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, [3]Laboratory of Immunochemistry, WPI Immunology Frontier Research Center, Osaka University, [4]Division of Rheumatology, Department of Internal Medicine, School of Medicine, Keio University

P01-30 [O1-10] **Investigation of the epidermal transcriptome in psoriasis.**

○Lorenzo Pasquali[1], Ankit Srivastava[1], Kunal Das Mahapatra[1], Florian Meisgen[1], Ning Xu Landen[1], Mona Stahle[1,2], Andor Pivarcsi[1], Eniko Sonkoly[1,2]

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P01-31 [O1-11] **Analysis of the possible inducible skin-associated lymphoid tissue (iSALT) in the lupus erythematosus profundus**

○Hisashi Kamido[1], Takashi Kogame[1,2], Ryosuke Yamashita[1], Tatsuki Kataoka[3], Masahiro Hirata[3], Chiyuki Ueshima[3], Takashi Nomura[1], Kenji Kabashima[1]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, [2]Ijinkai Takeda General Hospital, Kyoto, Japan, [3]Department of Diagnostic Pathology, Kyoto University Hospital, Kyoto, Japan

P01-32 [O1-12] ***In vivo*** **evidence of IL-17A induced heterogeneous activation of macrophages in the skin of mouse**

○Kozo Nakai[1], Yu-Ying He[2], Kozo Yoneda[3], Tetsuya Moriue[1], Yasuo Kubota[1]

[1]Department of Dermatology, Kagawa University, Kagawa, Japan, [2]University of Chicago, [3]Osaka Ohtani University

P01-33 [O1-13] **Analysis of the possible induced skin-associated lymphoid tissue (iSALT) in the lesions of cutaneous plasmacytosis**

○Tomoya Takegami[1], Toshiaki Kogame[1,2], Tatsuki Kataoka[3], Masahiro Hirata[3], Chiyuki Ueshima[3], Takashi Nomura[1], Kenji Kabashima[1]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, [2]Ijinkai Takeda General Hospital, Kyoto, Japan, [3]Department of Diagnostic Pathology, Kyoto University Hospital, Kyoto, Japan

P01-34 [O1-14] **Regulatory T cells modulate skin inflammation in atopic dermatitis model mouse**

○ Sumika Toyama[1], Hironori Matsuda[1], Ryohei Kosaka[1,2], Hideoki Ogawa[1], Mitsutoshi Tominaga[1], Kenji Takamori[1,3]

[1]Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, [2]Department of Biological Science and Technology, Faculty of Industrial Science and Technology, Tokyo University of Science, [3]Department of Dermatology, Juntendo University Urayasu Hospital

P01-35 [O1-15] **Autophagy in malnutrition-associated dermatitis**

○ Yoji Hirai[1], Tatsuhiko Mori[2], Keiji Iwatsuki[1]

[1]Department of Dermatology, Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Japan, [2]Department of Dermatology, Fukushima Medical University, Japan

P01-36 [O1-16] **Differential capability to induce cutaneous tertiary lymphoid tissues among cutaneous MALT lymphoma subtypes**

○ Toshiaki Kogame[1,2], Takashi Nomura[1], Tatsuki Kataoka[3], Masahiro Hirata[3], Chiyuki Ueshima[3], Kenji Kabashima[1]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, [2]Ijinkai Takeda General Hospital, Kyoto, Japan, [3]Department of Diagnostic Pathology, Kyoto University Hospital, Kyoto, Japan

P01-37 [O1-17] **Anti-FcεRIα and IgE autoantibodies of the chronic spontaneous urticaria patients may have the ability of crosslinking of FcεRI.**

○ Satoshi Izaki[1,2], Shota Toyoshima[2,3], Satoshi Nunomura[4], Kazuko Kanegae[2,3], Junichi Kashiwakura[5], Ryosuke Nakamura[6], Tomomi Sakamoto[2,3], Nobuyuki Nishimori[1,2], Takahiro Endo[1,2], Haruyo Akiyama[7], Koremasa Hayama[1,2], Chisei Ra[8], Yoshimichi Okayama[2,3], Tadashi Terui[1]

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P01-38 [O1-18] **A SHISO extract prevents the House-dust induced impairment of epidermal barrier function through an anti-inflammatory process.**

○ Mariko Yokota, Shoichi Yahagi

NIKKOL GROUP COSMOS TECHNICAL CENTER CO., LTD

P01-39 [O1-19] **Concurrence of psoriasis vulgaris and atopic dermatitis exhibiting different expression of psoriatic autoantigens in the lesional skin**

○ Sachiko Ono, Tetsuya Honda, Kenji Kabashima

Department of Dermatology, Kyoto University, Kyoto, Japan

P01-40 [O1-20] **Maresin-1 inhibits imiquimod-induced skin inflammation through an inhibition of IL-17A production in the skin**

○ Natsuko Sasaki, Yu Sawada, Motonobu Nakamura

The Department of Dermatology, University of occupational and environmental health, Kitakyusyu, Japan

P01-41 [O1-21] **Serum α1(I) collagen DNA as a potential biomarker for scleroderma patients**

○ Soichiro Sawamura, Masatoshi Jinnin, Miki Shimbara, Kayo Nakamura, Hideo Kudo, Kuniko Inoue, Wakana Nakayama, Ikko Kajihara, Satoshi Fukushima, Hironobu Ihn

Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan

P01-42 [O1-22] **The deficiency of Fli1 suppresses RALDH1 production in dermal dendritic cells, leading to Treg suppression and tissue fibrosis**

○ Shunsuke Miura[1,2], Yoshihide Asano[1], Ryosuke Saigusa[1], Takashi Yamashita[1], Kouki Nakamura[1], Megumi Hirabayashi[1], Takuya Miyagawa[1], Ayumi Yoshizaki[1], Maria Trojanowska[3], Shinichi Sato[1]

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P01-43 [O1-23] **Expression of serine racemase in epidermis: its influence on atopic dermatitis and inflammatory cytokines**

○ Yoko Yoshihisa[1], Maho Nakagawa[2], Mati Ur Rehman[3], Shoko Matsukuma[2], Teruhiko Makino[1], Hisashi Mori[4], Tadamichi Shimizu[1]

[1]Department of Dermatology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Sugitani, Toyama, Japan, [2]Advanced Technology Research Center, Fancl Research Institute, [3]Department of Radiology, Division of Radiation Oncology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, [4]Department of Molecular Neuroscience, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama

P01-44 [O1-24] **Dysregulated expression of immnune privilege molecules in the sweat gland neighbors cell infiltration in syringotropic autoimmune disorders**

○ Yurie Shimoda, Yoshimi Yamazaki, Manabu Ohyama

Department of Dermatology, Kyorin University School of Medicine, Tokyo, Japan

P01-45 [O1-25] **Involvement of satellite glial cell derived lipocalin-2 in the pathogenesis of NC/Nga mice with atopic dermatitis-like symptoms**

○ Nobuaki Takahashi[1], Mitsutoshi Tominaga[1], Ryohei Kosaka[1,2], Hironori Matsuda[1], Yasushi Suga[3], Hideoki Ogawa[1], Kenji Takamori[1,3]

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P01-46 [O1-26] **Pharmacologic activation of Sirtuin3 mitigates organ fibrosis in systemic sclerosis**

○ Kaname Akamata[1,2], Jun Wei[2], Mitra Bhattacharyya[2], Paul Cheresh[3], Michael Y. Bonner[4], Jack L. Abiser[4,5], Kirtee Raparia[6], Mahesh P. Gupta[7], David W. Kamp[3,8], John Varga[2]

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P01-47 [O1-27] **Leveraging the therapeutic properties of superoxide dismutase overexpressed in mesenchymal stem cell for the treatment of atopic dermatitis**

○ Shyam K Sah, Gaurav Agrahari, Lee J Tak, Tae Y Kim

Laboratory of Dermato-Immunology, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea

P01-48 [O1-28] **Loss of IL-33 alters cytokine profile in imiquimod-induced psoriasis model**

○ Hidetoshi Tsuda[1], Mayumi Komine[1], Susumu Nakae[2], Mamitaro Ohtsuki[1]

[1]Department of Dermatology, Jichi Medical University, [2]Laboratory of Systems Biology, Center for Experimental Medicine and Systems Biology, The Institute of Medical Science, The University of Tokyo

P01-49 [O1-29] **Topical Dexamethasone application increased IL-1α and IL-1 receptor expression in mouse skin**

○ Sayaka Matsumura[1], Mika Terao[1,2], Satoshi Itami[2], Ichiro Katayama[1]

[1]Department of Dermatology, Osaka University Graduate School of Medicine, [2]Department of Regenerative Dermatology, Osaka University Graduate School of Medicine

P01-50 [O1-30] **CX3CR1 deficiency attenuates DNFB-induced contact hypersensitivity**

○ Sayaka Otobe[1], Tomomitsu Miyagaki[1], Makoto Sugaya[1,2], Shinichi Sato[1]

[1]Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo, Japan, [2]Department of Dermatology, International University of Health and Welfare, Chiba, Japan

P01-51 [O1-31] **Toll-like receptor 3 activation results in IL-33 promoter activation through IRF3 transcription factor depending on EGFR activation in NHEKs**

○ Meijuan Jin, Mayumi Komine, Hidetoshi Tsuda, Mamitaro Ohtsuki

The Department of Dermatology, Jichi Medical University, Tochigi, Japan

P01-52 [O1-32] **No apparent ubiquitin accumulation in a skin lesion of *PSMB9*-related proteasome-associated autoinflammatory syndrome**

○ Kayo Kunimoto[1], Yumi Nakatani[1], Yutaka Inaba[1], Noriko Kinjo[2], Akira Kinoshita[3], Koichiro Yoshiura[3], Nobuo Kanazawa[1]

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P01-53 [O1-33] **Bullous pemphigoid IgG induces methuosis-like cell death on cultured keratinocytes**

○ Duerna Tie[2], Xia Da[1], Yuko Chinuki[1], Sakae Kaneko[1], Osamu Yamamoto[2], Eishin Morita[1]

[1]Department of Dermatology, Shimane University Faculty of Medicine, Izumo, Japan, [2]Division of Dermatology Department of Medicine of Sensory and Motor Organs Faculty of Medicine, Tottori University

P01-54 [O1-34] **Immunomodulatory effects of FX11, 3-bromopyruvate, and butyrate on peripheral blood mononuclear cells of patients with Behçet's disease**

Sun Park[1], Sujin Yun[1], Ji Young Yang[2], Mi Jin Park[2], ○ Eun-So Lee[2]

[1]Department of Microbiology and Immunology, Ajou University School of Medicine, Suwon, Korea, [2]Department of Dermatology, Ajou University School of Medicine, Suwon, Korea

P01-55 [O1-35] **Increased YKL-40 expression in cutaneous T-cell lymphoma**

○ Hideko Suzuki[1], Tomomitsu Miyagaki[1], Tomonori Oka[1], Taro Akatsuka[1], Hiroaki Kamijyo[1], Rina Nakajima[1], Naomi Shishido[1], Hiraku Suga[1], Makoto Sugaya[2], Shinichi Sato[1]

[1]Department of Dermatology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, [2]Department of Dermatology, International University of Health and Welfare, Chiba, Japan

P01-56 [O1-36] **Analysis of autoantibodies against epidermis in patients with inflammatory myopathy**

○ Miho Kabuto[1], Noriki Fujimoto[1], Toshifumi Takahashi[1], Chiharu Tateishi[2], Daisuke Tsuruta[2], Toshihiro Tanaka[1]

[1]Department of Dermatology, Shiga University of Medical Science, Shiga, Japan, [2]Department of Dermatology, Osaka City University Graduate School of Medicine

P01-57 [O1-37] **Skin inflammation and brain blood circulation; the anti-IL-1 therapy ameliorates cerebral circulation**

○ Yoshiaki Matsushima[1], Shinya Kato[2], Kento Mizutani[1], Fumihiro Kawakita[3], Masashi Fujimoto[3], Karin Okada[1], Makoto Kondo[1], Koji Habe[1], Hidenori Suzuki[3], Hitoshi Mizutani[1], Keiichi Yamanaka[1]

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P01-58 [O1-38] **Decreased progranulin expression in cutaneous T-cell lymphoma and atopic dermatitis.**

○ Rina Nakajima[1], Tomomitsu Miyagaki[1], Hiroaki Kamijo[1], Sayaka Otobe[1], Taro Akatsuka[1], Tomonori Oka[1], Naomi Takahashi[1], Hiraku Suga[1], Makoto Sugaya[1,2], Shinichi Sato[1]

[1]Department of Dermatology, The University of Tokyo Graduate School of Medicine, Tokyo, Japan, [2]Department of Dermatology, International University of Health and Welfare, Chiba, Japan

P01-59 [O1-39] **The role of purinergic signaling in development of irritant dermatitis of acrodermatitis enteropathica**

○ Youichi Ogawa, Shinji Shimada, Tatsuyoshi Kawamura

Department of Dermatology, University of Yamanashi, Yamanashi, Japan

P01-60 [O1-40] **Targeting protein kinase B by a novel phenanthrene compound that inhibits neutrophilic inflammation**

○ Tsong-Long Hwang

Graduate Institute of Natural Products, Chang Gung University; Graduate Institute of Health Industry Technology, Chang Gung University of Science and Technology, Taoyuan, Taiwan

P01-61 [O1-41] **Bee Venom Phospholipase A2 increases poly(I:C)-induced IL-8 production in HaCaT cells**

○ Akina Nakashima[1], Sachiko Akashi-Takamura[2], Takeshi Yanagishita[1], Daisuke Watanabe[1]

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P01-62 [O1-42] **The role of amphiregulin, an epidermal growth factor receptor ligand, in the development of systemic sclerosis**

○ Ryosuke Saigusa, Yoshihide Asano, Yuki Fukui, Takuya Miyagawa, Megumi Hirabayashi, Kouki Nakamura, Shunsuke Miura, Takashi Yamashita, Takashi Taniguchi, Ayumi Yoshizaki, Shinichi Sato

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

P01-63 [O1-43] **Long-lasting severe inflammation and hyper immunoglobulin G; aggregation and deposition in multiple organs**

○ Karin Okada[1,2], Naohiro Seo[2], Kento Mizutani[1], Yoshiaki Matsushima[1], Makoto Kondo[1], Koji Habe[1], Hitoshi Mizutani[1], Keiichi Yamanaka[1]

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P01-64 [O1-44] **IL-17 and neutrophil in psoriasis**

○ Kento Mizutani, Yoshiaki Matsushima, Karin Okada, Makoto Kondo, Masato Kakeda, Koji Habe, Hitoshi Mizutani, Keiichi Yamanaka

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

P02-01 [III-3] **The regulation of skin fibrosis in systemic sclerosis by extracellular ATP via P2Y2 purinergic receptor**

○ Buddhini Perera, Akiko Sekiguchi, Akihiko Uchiyama, Akihito Uehara, Chisako Fujwara, Sahori Yamazaki, Osamu Ishikawa, Sei-ichiro Motegi

Department of Dermatology, Gunma University Graduate School of Medicine

P02-02 [C11-1] **Drp1 mediates cell proliferation and mitochondrial morphology in cutaneous squamous cell carcinoma**

○ Shinya Kitamura[1], Teruki Yanagi[1], Keisuke Imafuku[1], Hiroo Hata[1], Riichiro Abe[2], Hiroshi Shimizu[1]

[1]Departments of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, [2]Departments of Dermatology, Niigata University Graduate School of Medicine, Niigata, Japan

P02-03 [C11-2] **Application of deep learning technique with transcriptome data to identify unknown cellular origin of metastatic skin tumor**

○ Daisuke Utsumi, Yoshiyuki Kariya, Yuko Okubo, Koutarou Komatsu, Kenzo Takahashi

The Department of Dermatology, University of Ryukyus, Okinawa, Japan

P02-04 [C11-3] **Electrophysiological characterization of nalfurafine-responsive dorsal horn neurons in spinal itch transmission**

○ Kotaro Honda[1], Mitsutoshi Tominaga[1], Fumiya Kusube[1,2], Fumiyuki Yamakura[3], Hisashi Naito[4], Yasushi Suga[5], Hideoki Ogawa[1], Kenji Takamori[1,5]

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P02-05 [C11-4] **Tape stripped stratum corneum samples prove to be suitable for comprehensive proteomic investigation of actinic keratosis**

○ Ali Azimi[1], Marina Ali[1], Kim L Kaufman[2,3], Graham Mann[4], Pablo Fernandez-Penas[1]

[1]Department of Dermatology, The University of Sydney, NSW, Australia, [2]School of Molecular Bioscience, Faculty of Science, The University of Sydney, Darlington NSW, Australia, [3]Brain and Mind Centre, The University of Sydney, Camperdown, NSW, [4]Westmead Institute for Medical Research, The University of Sydney, Westmead NSW, Australia

P02-06 [C11-5] **Oral itraconazole for treatment of infantile hemangiomas: Updated clinical and mechanism research**

○ Yuping Ran

Department of Dermatology, West China Hospital, Sichuan University, Chengdu, China

P02-07 [C11-6] **Podoplanin in peritumoral keratinocytes mediates dermal invasion of extramammary Paget's disease**

○ Jun Asai[1], Zaigen Cho[1], Mai Kanemaru[1], Taro Isohisa[1], Takahiro Arita[1], Minako Onishi[1], Miho Tsutsumi[1], Toshiyuki Ozawa[2], Daisuke Tsuruta[2], Norito Katoh[1]

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P02-08 [C11-7] **Melatonin receptors decrease with age in normal human dermal fibroblasts**

Pelle Ed[1,2], Kelly Dong[1], Earl Goyarts[1], ○ Nadine Pernodet[1]

[1]Estee Lauder Research Laboratories, Melville, NY, [2]Environmental Medicine, New York University School of Medicine, New York, NY

P02-09 [O2-01] **Synergistic effects of vemurafenib and FTY720 (fingolimod) on vemurafenib- resistant melanoma cell line**

○ Tomoko Takahashi, Naoko Abe, Hiroyuki Kanoh, Yoshiko Banno, Mariko Seishima

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

P02-10 [O2-02] **Enhancement of lysosomal function contributes to Imiquimod-acquired resistance in skin cancer cells**

○ Shu Hao Chang[1], Shi-Wei Huang[3], Chen-Chin Cheng[2], Chun-Ying Wu[1,5], Jeng-Jer Shieh[2,3,4]

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

P02-11 [O2-03] **Bexarotene modulates the production of CCL22 from tumor-associated macrophages in patients with mycosis fungoides.**

○ Kayo Tanita, Taku Fujimura, Yota Sato, Lyu Chunbing, Sadanori Furudate, Yumi Kambayashi, Setsuya Aiba

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

P02-12 [O2-04] **Targeting Glycolysis Enhance Imiquimod-induced Immunogenic Cell Death and Anti-tumor Immunity**

○ Shi-Wei Huang[1], Sin-Ting Wang[2,3], Jeng-Jer Shieh[1,3]

[1]The Department of Education and Research, Taichung Veterans General Hospital, Taichung, Taiwan, [2]Division of Gastroenterology and Hepatology, Taichung Veterans General Hospital, Taichung, Taiwan, [3]Institute of Biomedical Sciences, National Chung Hsing University, Taichung, Taiwan

P02-13 [O2-05] **Tumor-suppressive effects of interferon-β through interleukin-24 in melanoma**

○ Yoshinori Watanabe, Yoshimasa Nobeyama, Munenari Itoh, Hidemi Nakagawa

The Jikei University school of medicine

P02-14 [O2-06] **Cell adhesion molecule 1 is a prognostic factor in patients with mycosis fungoides**

○ Emi Mahima, Yu Sawada, Takashi Yamaguchi, Haruna Yoshioka, Shun Ohmori, Sanehito Haruyama, Manabu Yoshioka, Etsuko Okada, Motonobu Nakamura

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

P02-15 [O2-07] **The protective function of EGR-1 in the Compound C-induced apoptotic cell death**

○ Kai-Cheng Chuang[1], Fan-Wen Chen[1], Meng-Hsiun Tsai[2,3], Jeng-Jer Shieh[1,4,5]

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P02-16 [O2-08] **Tumor-associated macrophages recruit IL-17 producing cells to promote development of cutaneous squamous cell carcinoma.**

○ Yota Sato, Taku Fujimura, Kayo Tanita, Lyu Chunbing, Takeshi Yamauchi, Setsuya Aiba

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

P02-17 [O2-09] **Src pathway as a potential therapeutic target in combination with histone deacetylase inhibitors for cutaneous T-cell lymphoma**

○ Nozomi Jimura[1,2], Kazuyasu Fujii[1], Shii Kyou[2], Rieko Oyama[2], Fusako Kitou[2], Tadashi Kondo[2], Takuro Kanekura[1]

[1]The Department of Dermatology, University of Kagoshima, Kagoshima, Japan, [2]The div. Rare Cancer Research, National Cancer Center Research Institute

P02-18 [O2-10] **Evaluation of the mouse brain activity during lasting itch behavior using manganese-enhanced MRI**

○ Norie Aizawa[1], Yozo Ishiuji[1], Sanae Inokuchi[1], Daigo Arimura[2,3,4], Kei Shinohara[4], Yukari Takahashi[2,3], Fusao Kato[2,3], Hidemi Nakagawa[1]

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P02-19 [O2-11] **Histone deacetylase inhibitors suppress the growth of angiosarcoma cells**

○ Mai Kanemaru, Makoto Wada, Takahiro Arita, Yoshinori Yamada, Jun Asai, Norito Katoh

Department of Dermatology, Kyoto Prefectural University of Medicine, Kyoto, Japan

P02-20 [O2-12] **Upregulation of CREB by beta-catenin in squamous cell carcinoma cells**

○ Jeong-Min Ha, Ji-Young Kim, Cho-Ah Lim, Jung-Woo Ko, Chang Deok Kim, Jeung-Hoon Lee

The Department of Dermatology, School of Medicine, Chungnam National University, Daejeon, Korea

P02-21 [O2-13] **Comparative analysis of the expression of a transcription factor, E2F4, in skin tumors**

○ Hiroshi Mitsui, Shinji Shimada, Tatsuyoshi Kawamura

The Department of Dermatology, University of Yamanashi, Yamanashi, Japan

P02-22 [O2-14] **Analyzing ganglioside expression of cutaneous malignant lymphoma**

○ Eiji Kiyohara, Ichiro Katayama

Department of Dermatology, Osaka University

P02-23 [O2-15] **A dichotomous structure of angiomatoid fibrous histiocytoma revealed by immunohistochemistry**

○ Ryosuke Yamashita[1], Toshiaki Kogame[1,2], Tatsuki Kataoka[3], Masahiro Hirata[3], Chiyuki Ueshima[3], Takashi Nomura[1], Kenji Kabashima[1]

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P02-24 [O2-16] **Impact of constant movement on skin around the eye: a biomechanical approach**

○ Dawn Layman[1], Nadine Pernodet[1,2]

[1]ESTEE LAUDER COMPANIES, R&D, Melville, NY, [2]SUNY, Stony Brook, NY

P02-25 [O2-17] **Somatic SF3B1 mutation in mucosal melanoma from a Japanese female**

○ Naoki Oiso[1], Kazuko Sakai[2], Tomohiko Narita[1], Shigeto Yanagihara[1], Kazuto Nishio[2], Akira Kawada[1]

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

P03-01 [II-1] **Spontaneous dermal fibrosis and vasculopathy induced by Fli1-deficient adipocytes — a potential role of adipocytes in systemic sclerosis**

○ Takuya Miyagawa[1], Yoshihide Asano[1], Ryosuke Saigusa[1], Takashi Yamashita[1], Megumi Hirabayashi[1], Kouki Nakamura[1], Shunsuke Miura[1], Takashi Taniguchi[1], Ayumi Yoshizaki[1], Maria Trojanowska[2], Shinichi Sato[1]

[1]Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo, Japan, [2]Boston University School of Medicine, Arthritis Center, Boston, USA

P03-02 [C10-3] **Inhibitory regulation of skin fibrosis in systemic sclerosis by apelin/APJ signaling**

○ Yoko Yokoyama, Akiko Sekiguchi, Chisako Fujiwara, Akihiko Uchiyama, Sahori Yamazaki, Sachiko Ogino, Ryoko Torii, Osamu Ishikawa, Sei-ichiro Motegi

Department of Dermatology, Gunma University Graduate School of Medicine

P03-03 [C10-4] **Endothelin blockade ameliorates scleroderma-like vasculopathy in myeloid cell-specific Fli1 knockout mice.**

○ Takashi Taniguchi[1,2], Yoshihide Asano[1], Takehiro Takahashi[1], Yohei Ichimura[1], Tetsuo Toyama[1], Ryosuke Saigusa[1], Ayumi Yoshizaki[1], Maria Trojanowska[3], Shinichi Sato[1]

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P03-04 [C10-5] **Leucine-rich alpha 2 glycoprotein promotes fibrosis in a bleomycin-iduced scleroderma model.**

○ Hideki Nakajima[1], Hiromi Honda[2], Satoshi Serada[2], Minoru Fujimoto[2], Tetsuji Naka[2]

[1]Department of dermatology, Kochi Medical School, Kochi University, Nankoku, Japan, [2]Integrated Center for Advanced Medical Technologies, Kochi Medical School, Kochi University

P03-05 [O3-01] **CX3CL1-CX3CR1 interaction contributes imiquimod-induced psoriasis-like skin inflammation via M1 macrophage infiltration**

○ Sohshi Morimura[1,2], Tomonori Oka[2], Makoto Sugaya[1,2], Shinichi Sato[2]

[1]Department of Dermatology, Faculty of Medicine, International University of Health and Welfare, Chiba, Japan, [2]Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo, Japan

P03-06 [C10-7] **The significance of tumor cells-derived MFG-E8 in tumor growth of angiosarcoma**

○Chisako Fujiwara[1], Aoi Ohira[2], Sayaka Yamaguchi[2], Akiko Sekiguchi[1], Sahori Yamazaki[1], Daichi Hoshina[3], Riichiro Abe[4], Kenzo Takahashi[2], Osamu Ishikawa[1], Sei-ichiro Motegi[1]

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P03-07 [O3-02] **Hyaluronan synthase 3 is essential for spongiosis formation in contact hypersensitivity response.**

○Hitoshi Terui, Kenshi Yamasaki, Setsuya Aiba

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

P03-08 [O3-03] **Distinctive roles of two plakin proteins in type I hemidesmosomes**

○You Kondou, Yoshiaki Hirako

Division of Biological Science, Graduate School of Science, Nagoya University

P03-09 [O3-04] **Desmoglein 1 clustering in pemphigus foliaceus patients' skin.**

○Kenji Yoshida[1,2], Ken Ishii[1], Mari Nakagawa[1], Akira Ishiko[1]

[1]The Department of Dermatology, Toho University School of Medicine, Tokyo, Japan, [2]The Department of Dermatology, Ikegami general hospital, Tokyo, Japan

P03-10 [O3-05] **Cannabinoid receptor type 1 regulates laminin-511 expression in mouse model of psoriasis**

○Aki Natsumi, Koji Sugawara, Ayano Yonamine, Yukari Mizukami, Hisayoshi Imanishi, Daisuke Tsuruta

The Department of Dermatology, Osaka City University/Graduate School of Medcine, Osaka, Japan

P03-11 [O3-06] **Cell proliferation and collagen production in cultured human dermal fibroblasts with Gadodiamide**

○Shujiro Hayashi, Miho Kanno, Yoichiro Hamasaki, Ken Igawa

The Department of Dermatology, Dokkyo medical university, Tochigi, Japan

P03-12 [O3-07] **Vascular morphology in facial solar lentigo assessed by optical coherence tomographic angiography**

○Yusuke Hara[1,3], Toyonobu Yamashita[1], Kumiko Kikuchi[1], Takako Shibata[1], Masato Ninomiya[1], Chika Katagiri[1], Kentaro Kajiya[1], Souichi Saeki[1], Hajime Iizuka[2]

[1]Shiseido Global Innovation Center, Yokohama, Japan, [2]Mechanical & Physical Engineering, Osaka City University, Osaka, Japan, [3]Research Institute of Psoriasis, Kojinkai Association of Medical Corporation, Sapporo, Japan

P03-13 [O3-08] **Carbonylated proteins accelerate immature skin aging by influencing the mRNA expression levels of dermal matrix-related genes**

○Yumiko Yamawaki, Taeko Mizutani, Yuri Okano, Hitoshi Masaki

Tokyo University of Technology

Category 4 (P04): Human Clinical Research and Therapeutics

P04-01 [II-2] **Anti-CX3CL1 antibody therapy attenuates the development of inflammation, fibrosis, and vascular injury in experimental models of scleroderma**

○Vu H. Luong[1], Takenao Chino[1], Noritaka Oyama[1], Takashi Obara[2], Yoshikazu Kuboi[3], Naoto Ishii[3], Akihito Machinaga[3], Hideaki Ogasawara[3], Wataru Ikeda[3], Toshio Imai[3], Minoru Hasegawa[1]

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P04-02 [C05-1] **Withdrawn**

P04-03 [I-1] **Severe thiopurine-induced pancytopenia and hair loss in Japanese patients with a *NUDT15* variant: Importance of susceptibility gene screening**

○Mari Kishibe[1], Risa Matsuo[1], Mizue Fujii[1], Shin Iinuma[1], Sawa Ohtsubo[1], Kyoko Kanno[1], Kan Kishibe[2], Kensaku Okamoto[3], Masaru Honma[1], Akemi Ishida-Yamamoto[1]

[1]Department of Dermatology, Asahikawa Medical University, Asahikawa, Japan, [2]Department of Otorhinolaryngology, Asahikawa Medical University, Asahikawa, Japan, [3]Division of Metabolism and Biosystemic Science, Department of Medicine, Asahikawa Medical University, Asahikawa, Japan

P04-04 [C05-2] **Novel role of a neuropeptide, hemokinin-1 in chronic spontaneous urticaria without autoantibodies against FcεRIα and IgE**

○Nobuyuki Nishimori[1,2], Shota Toyoshima[1,3], Tomomi Sakamoto[1,3], Kazuko Kanegae[1,3], Takahiro Endo[1,2,4], Satoshi Izaki[1,2,5], Daisuke Fujisawa[1,2], Koremasa Hayama[1,2], Ryosuke Nakamura[5], Hideki Fujita[2], Chisei Ra[4], Tadashi Terui[1,2], Yoshimichi Okayama[1,3]

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P04-05 [C05-3] **MDR-1-expressing Th17 cells infiltrate in psoriasis lesional skin and possibly play a corticosteroid resistant role**

○ Toshiharu Fujiyama, Taisuke Ito, Takatsune Umayahara, Kazuo Kurihara, Hideo Hashizume, Yoshiki Tokura

The Department of Dermatology, Hamamatsu University school of Medicine

P04-06 [C05-4] **Dupilumab in atopic dermatitis patients inadequately controlled with, or intolerant to cyclosporine A: results from phase 3 trials**

○ Marjolein S. de Bruin-Weller[1], Thomas Bieber[2], Makoto Kawashima[3], Jochen Schmitt[4], Kazuhiko Arima[5], Xing Sun[6], Abhijit Gadkari[7], Laurent Eckert[8], Neil M.H. Graham[7], Gianluca Pirozzi[6], Bolanle Akinlade[7], Marius Ardeleanu[7], Brad Shumel[7], Thomas Hultsch[6]

[1]University Medical Center Utrecht, Utrecht, Netherlands, [2]University of Bonn, Bonn, Germany, [3]Tokyo Women's Medical University, Tokyo, Japan, [4]Medical Faculty, Technische Universität Dresden, Dresden, Germany, [5]Sanofi K.K., Tokyo, Japan, [6]Sanofi, Bridgewater, NJ, USA, [7]Regeneron Pharmaceuticals, Inc., Tarrytown, NY, USA, [8]Sanofi, Chilly-Mazarin, France

P04-07 [C05-5] **Longitudinal skin microbiome analysis of atopic dermatitis patients treated by bleach baths**

○ Hiroshi Kawasaki[1,2,3], Eiryo Kawakami[2], Shoko Obata[3], Aki Honda[3], Naoko Mochimaru[3], Ayano Fukushima[3], Fumiyo Yasuda-Sekiguchi[3], Takashi Sasaki[4], Wataru Suda[5,6], Kenya Honda[5], Tamotsu Ebihara[3], Masayuki Amagai[1,3]

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P04-08 [C05-6] **Functionally impaired CD8+ T cell accumulation in invasive extramammary Paget disease**

○ Natsuko Iga[1], Atsushi Otsuka[1,2], Chisa Nakashima[1], Shigeto Matsushita[3], Yuki Yamamoto[4], Takeru Funakoshi[5], Yasuhiro Fujisawa[6], Taku Fujimura[7], Hiroo Hata[8], Yoshihiro Ishida[1], Kenji Kabashima[1,9]

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P04-09 [C12-1] **Cross-talk between desmoglein 3 and epidermal growth factor receptor in oral squamous cell carcinoma**

○ Michiyoshi Kouno[1], Masaki Minabe[2], Yurie Akiyama[2], Tetsuhiko Tachikawa[3]

[1]Department of Dermatology, Tokyo Dental College Ichikawa General hospital, Chiba, Japan, [2]Department of Oral Medicine, Oral and Maxillofacial Surgery, Tokyo Dental College Ichikawa General hospital, Chiba, Japan, [3]Division of Molecular Diagnosis and Cancer Prevention, Saitama Cancer Center, Saitama, Japan

P04-10 [C12-2] **The first step to the artificial intelligence (AI) diagnosis of skin cancer.**

○ Yuji Ota[1], Kosuke Shido[2], Kaname Kojima[3], Masao Nagasaki[3], Kenshi Yamasaki[2], Setsuya Aiba[2]

[1]School of Medicine, University of Tohoku, Miyagi, Japan, [2]The Department of Dermatology, University of Tohoku, Miyagi, Japan, [3]Tohoku Medical Megabank Organization, Tohoku University, Sendai, Japan

P04-11 [C12-3] **CD147-cyclophilin A interactions promote proliferation and survival of cutaneous T-cell lymphoma**

○ Minami Sakamoto[1,2], Tomomitsu Miyagaki[1], Hiroaki Kamijo[1], Tomonori Oka[1], Naomi Takahashi[1], Hiraku Suga[1], Makoto Sugaya[1,2], Shinichi Sato[1]

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P04-12 [O2-18] **Association with serum/PBMC levels of HHV-6 miRNAs with clinical severity of DIHS/DRESS patients**

○ Kazuya Miyashita, Fumi Miyagawa, Yuki Nakamura, Rie Onmori, Hiroaki Azukizawa, Hideo Asada

Department of Dermatology, Nara Medical University School of Medicine, Kashihara, Japan

P04-13 [C12-4] **Characterization of the influence of PD-1 blockade on IFN-γ, granzyme B and IL-9 prodution by T cells in advanced melanoma patients**

○ Ryo Takahashi[1], Yohei Sato[2], Momoko Kimishima[2], Tetsuo Shiohara[1,2], Manabu Ohyama[1,2]

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

P04-14 [O2-19] **Decreased IL-10-producing regulatory B cells in advanced mycosis fungoides**

○ Tomomitsu Miyagaki[1], Taro Akatsuka[1], Rina Nakajima[1], Hiroaki Kamijo[1], Tomonori Oka[1], Naomi Takahashi[1], Hiraku Suga[1], Makoto Sugaya[1,2], Shinichi Sato[1]

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P04-15 [O2-20] **CD137-CD137L interactions promotes proliferation and survival of cutaneous T-cell lymphoma through multiple signaling pathways**

○ Hiroaki Kamijo[1], Tomomitsu Miyagaki[1], Tomonori Oka[1], Naomi Takahashi[1], Hiraku Suga[1], Makoto Sugaya[1,2], Shinichi Sato[1]

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P04-16 [O2-21] **IL-10-producing regulatory B cells are decreased in patients with severe atopic dermatitis: a possible contribution of IL-6 in B10 cells.**

○Yuki Yoshihara, Koichi Yanaba, Mitsuha Hayashi, Miki Chiba, Yozo Ishiuji, Takaoki Ishiji, Hidemi Nakagawa
The Jikei University School of Medicine, Department of Dermatology, Tokyo, Japan

P04-17 [C12-5] **Photoacoustic Imaging for Dermatologic Diseases—Hearing Under the Skin—**

○Yoshihiro Ishida, Atsushi Otsuka, Kenji Kabashima
Department of Dermatology, Kyoto University, Kyoto, Japan

P04-18 [C12-6] **EBV-infected lymphocyte subsets responsible for the phenotype and prognosis of hydroa vacciniforme and hypersensitivity to mosquito bites**

○Tomoko Miyake[1], Yoji Hirai[1], Hideo Asada[2], Keiji Iwatsuki[1]
[1]The Department of Dermatology, University of Okayama, Okayama, Japan, [2]Nara Medical University, Department of Dermatology

P04-19 [O2-22] **Safety dose of IFN-beta in combination with nivolumab in patients with advanced melanoma**

○Taku Fujimura, Yumi Kambayashi, Sadanori Furudate, Takanori Hidaka, Hisayuki Tono, Yota Sato, Kayo Tanita, Akira Hashimoto, Setsuya Aiba
Tohoku University Graduate School of Medicine

P04-20 [C12-7] **Efficacy of 595 nm pulsed-dye laser in the treatment of discoid lupus erythematosus, a double blinded randomized controlled trial**

○Pawinee Rerknimitr, Nucharin Tekacharin, Ratchathorn Panchaprateep
Division of Dermatology, Department of Medicine, Skin and Allergy Research Unit, Chulalongkorn University

P04-21 [O2-23] **Upregulated expression of CD86 on circulating intermediate monocytes correlated with disease severity in patient with psoriasis.**

○Chuyen Thi Hong Nguyen, Nhung Thi My Ly, Naotomo Kambe, Fumikazu Yamazaki, Ikuko Ueda-Hayakawa, Izumi Kishimoto, Hiroyuki Okamoto
The Department of Dermatology, Kansai Medical University, Osaka, Japan

P04-22 [O2-24] **Utility of IFN-γ ELISpot assay using anti-PD-L1 antibodies for identifying hypersensitivity-inducing drug culprits.**

○Asami Kawase[1], Hiroaki Azukizawa[1], Kenichi Kato[2,3], Ichiro Katayama[2], Hideo Asada[1]
[1]Department of Dermatology, Nara Medical University, Nara, Japan, [2]Department of Dermatology, Osaka University, [3]Dermatology, Kinki Central Hospital

P04-23 [O2-25] **Analysis of the serum factor responsible for suppressing basophil FcεRI-mediated activation in patients with chronic spontaneous urticaria.**

○Takahiro Endo[1,2], Shota Toyoshima[2,3], Nobuyuki Nishimori[1,2], Satoshi Izaki[1,2], Kazuko Kanegae[2,3], Tomomi Sakamoto[2,3], Koremasa Hayama[1,2], Chisei Ra[4], Yoshimichi Okayama[2,3], Tadashi Terui[1,2]
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P04-24 [O2-26] **Microbiopsy biomarker profiling in a superficial melanoma resembling a pigmented basal cell carcinoma**

○Miko Yamada[1,2], Priyamvada Sobarun[1], Van Hoang[1], Duncan Lambie[3], H Peter Soyer[1,4], Tarl Prow[1,2]
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P04-25 [O2-27] **The balance of omega 3 and omega 6 polyunsaturated fatty acids in Japanese psoriasis patients.**

○Emi Nishida, Kyoko Ikumi, Shinnosuke Muramatsu, Akimichi Morita
The Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan

P04-26 [O2-28] **A possible contribution of TIGIT expression on $CD4^+$ T cells in patients with atopic dermatitis**

○Miki Chiba, Koichi Yanaba, Mami Chihara, Yuki Yoshihara, Yozo Ishiuji, Takaoki Ishiji, Hidemi Nakagawa
The Department of Dermatology, The Jikei University School of Medicine, Tokyo, Japan

P04-27 [O2-29] **Withdrawn**

P04-28 [O2-30] **Increased CD244 and CD48 expression in cutaneous T-cell lymphoma**

○Tomonori Oka, Tomomitsu Miyagaki, Naomi Takahashi, Hiroaki Kamijo, Rina Nakajima, Hiraku Suga, Makoto Sugaya, Shinichi Sato
The Department of Dermatology, University of Tokyo, Tokyo, Japan

P04-29 [O2-31] **Prurigo nodularis as a sweat gland/duct disorder: resolution associated with restoration of sweating disturbance.**

○Chieko Katayama, Yuki Hayashida, Yumi Aoyama
The Department of Dermatology, Kawasaki Medical School General Medical Center, Okayama, Japan

P04-30 [O2-32] **Expression of CADM1 as a possible molecular marker for early-stage mycosis fungoides**

○ Akihiko Yuki[1], Hiroki Fujikawa[1], Ryota Hayashi[1], Satoru Shinkuma[1], Erina Homma[2], Yohei Hamade[2], Masao Matsuoka[3], Hiroshi Shimizu[2], Hiroaki Iwata[2], Riichiro Abe[1]

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P04-31 [O2-33] **Microbiopsy skin sampling in volunteers reveals no oxidative stress detected after applying sunscreen with zinc-oxide nanoparticles**

○ Tarl Prow[1,2], Lydia Hang[1], Lynlee Lin[1], Miko Yamada[1,2], H Peter Soyer[1], Anthony Raphael[1]

[1]Dermatology Research Centre, University of Queensland, Brisbane, Australia, [2]Future Industries Institute, University of South Australia

P04-32 [O2-34] **Nail lesions as a risk of psoriatic spondyloarthritis**

○ Kyoko Ikumi, Emi Nishida, Akimichi Morita

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

P04-33 [O2-35] **Topical aluminium application replicated abnormal keratinocyte terminal differentiation in granular parakeratosis**

○ Mizue Fujii[1], Haruki Doi[1], Takashi Anan[2], Akemi Ishida-Yamamoto[1]

[1]The Department of Dermatology, Asahikawa Medical University, Asahikawa, Japan, [2]Sapporo Dermatopathology Institute

P04-34 [O2-36] **Clinical evaluation of a microwave device for primary axillary hyperhidrosis in Asians: a randomized, rater-blinded, comparative study**

○ Chikako Kaminaka[1,2], Masatoshi Jinnin[1], Yuki Yamamoto[1,2]

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P04-35 [O2-37] **Immunohistochemical analysis of macrophage polarization in sarcoidosis with cutaneous lesions**

○ Taro Isohisa[1], Jun Asai[1], Yukiyasu Arakawa[1], Mai Kanemaru[1], Takahiro Arita[1], Yoshinori Yamada[1], Minako Onishi[1], Eiichi Konishi[2], Norito Katoh[1]

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P04-36 [O2-38] **Decreased GPNMB expression in patients with psoriasis**

○ Taro Akatsuka[1], Tomomitsu Miyagaki[1], Tomonori Oka[1], Hiraku Suga[1], Ayumi Yoshizaki[1], Masahiro Kamata[1], Yoshihide Asano[1], Makoto Sugaya[1,2], Shinichi Sato[1]

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P04-37 [O2-39] **Comparative effects of the biologics TNF-αinhibitors, ustekinumab, and secukinumab on body weight of Japanese patients with psoriasis**

○ Saori Takamura, Aya Takahashi, Yumiko Inoue, Tomoo Fukuda, Yuichi Teraki

The Department of Dermatology, Saitama Medical Center, Saitama Medical University, Saitama, Japan

P04-38 [O2-40] **Topical washing with miconazole soap for the preventive use to diaper candidiasis: a prospective, double-blind, placebo-controlled trial**

○ Noritaka Oyama[1], Hidenori Takahashi[1,2], Izumi Tanaka[3], Michiko Hasegawa[3], Kaori Hirano[4], Chieko Shimada[4], Minoru Hasegawa[1]

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P04-39 [O2-41] **Non-pure Merkel cell carcinoma: A clinicopathological study with assessment of immunohistochemical findings**

○ Kotaro Nagase, Hiromi Kimura, Taro Shinogi, Takuya Inoue, Yutaka Narisawa

Division of Dermatology, Department of Internal Medicine, Faculty of Medicine, Saga University, Saga, Japan

P04-40 [O2-42] **Effects of Japanese sake yeast supplementation on human skin elasticity and analysis of its mechanism**

○ Kengo Oka[1], Tatsuyuki Midorikawa[1,2], Tomomi Sano[1], Yoshitaka Nakamura[1,2], Taku Iwamoto[1], Yuko Obayashi[1], Yuki Nagamori[1], Noriyuki Monoi[1], Akira Uchiyama[1], Michiaki Murakoshi[1,3], Yoshihiro Urade[3]

[1]Lion Corp., [2]WPI-IIIS, Univ. of Tsukuba, [3]Kyoto Pref. Univ. of Medicine

P04-41 [O2-43] **Use of Skin Fibrometer® for measuring skin elasticity and its correlation with Cutometer® and DUB® Skin scanner**

○ Min Ah Kim, June Whan Park, Byung Fhy Suh, Hae Kwang Lee

Skincare Research Institute, Amorepacific R&D CENTER, Yongin, Korea

P04-42 [O2-44] **Value of shear wave elastography (SWE) for differentiating epidermal cyst, lipoma and pilomatricoma**

○ Chinatsu Shobatake[1], Toshiko Hirai[2], Kohei Ogawa[1], Fumi Miyagawa[1], Hiroaki Azukizawa[1], Hideo Asada[1]

[1]Department of Deramatology, Nara Medical University, Japan, [2]Department of General Diagnostic Imaging Center, Nara Medical University Hospital, Nara, Japan

P04-43 [O2-45] **Clinical Characterization of Oral Symptoms in 6 Paraneoplastic Pemphigus Patients.**

○ Kohei Fujita[1], Jun Yamagami[2], Masayuki Amagai[2], Kazuyuki Tsunoda[1], Taneaki Nakagawa[1]

[1]Department of Dentistry and Oral Surgery, Keio University School of Medicine, Tokyo, Japan, [2]Department of Dermatology, Keio University School of Medicine

P04-44 [O2-46] **Association between skin tags and metabolic syndrome**

○ Trinh Ngo Binh

Vinmec Central Park International Hospital, Ho Chi Minh city, Viet Nam

P04-45 [O2-47] **Effects of propolis on epidermal keratinocytes**

○ Jung-Woo Ko, Ji-Young Kim, Cho-Ah Lim, Chang Deok Kim, Jeung-Hoon Lee

Department of Dermatology, School of Medicine, Chungnam National University, Daejeon, Korea

P04-46 [O2-48] **New insight into self-perceived skin fatigue**

○ Mei Yu[1], Binwei Deng[1], Caroline Pollefliet[2], Hugo Corstjens[2], Tom Mammone[3], Kurt Schilling[4], Lieve Declercq[2]

[1]Estee Lauder Companies, Shanghai, China, [2]Estee Lauder Companies, Oevel, Belgium, [3]Clinique Laboratories, Estee Lauder Companies, Melville, NY, US, [4]Estee Lauder Companies, Melville, NY, US

P04-47 [O2-49] **The efficacy and safety of topical combination therapy for facial angiofibroma in patients with tuberous sclerosis complex**

○ Yi-Hua Liao[1], Jin-Bon Hong[1], Pei-Lung Chen[2,3], Li-Jiuan Shen[4]

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Category 5 (P05): Epidermal Structure and Function

P05-01 [II-7] **Type XVII collagen regulates proliferation in the interfollicular epidermis**

○ Mika Watanabe[1], Ken Natsuga[1], Yasuaki Kobayashi[2], Wataru Nishie[1], Giacomo Donati[3,4], Shotaro Suzuki[1], Yu Fujimura[1], Tadasuke Tsukiyama[5], Hideyuki Ujiie[1], Satoru Shinkuma[1,6], Masamoto Murakami[7], Michitaka Ozaki[8], Masaharu Nagayama[9,10], Fiona. M Watt[3], Hiroshi Shimizu[1]

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P05-02 [III-5] **Visualization of in vivo keratin networks in mouse stratum granulosum reveals dynamic cytoskeletal changes during cornification**

○ Keiko Usui[1,2], Takeshi Matsui[1], Yuki Furuichi[1,3], Nanako Kadono[1,5], Ai Hirabayashi[1], Mayuko Sato[4], Kiminori Toyooka[4], Masayuki Amagai[1,3]

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P05-03 [C03-1] **Roles of BNIP3-induced autophagy in the maintenance of epidermal homeostasis**

○ Mariko Moriyama, Takashi Morita, Yuuki Marutani, Junki Uda, Hirokazu Kubo, Takao Hayakawa, Hiroyuki Moriyama

Pharmaceutical Research and Technology Institute, Kindai Univeristy, Osaka, Japan

P05-04 [C03-2] **Serum galectin-7 derived possibly from IL-4/IL-13 stimulated keratinocytes is a useful biomarker for barrier dysfunction in atopic dermatitis**

○ Takatsune Umayahara[1], Masahiro Aoshima[1], Manami Iwasaki[1], Tsuyoshi Yatagai[1], Jun-ichi Sakabe[1,2], Yoshiki Tokura[1], Takatoshi Shimauchi[1]

[1]The Department of Dermatology, Hamamatsu University School of Medicine, Shizuoka, Japan, [2]Institute of Medical Biology, Agency for Science, Technology and Research (A*STAR), Singapore, Republic of Singapore

P05-05 [C03-3] **In vivo dermokine β/γ knockout exerts impairment of corneo-epidermal barrier function**

○ Akira Utsunomiya[1], Takenao Chino[1], Natsuko Utsunomiya[1], Vu Huy Loung[1], Atsushi Tokuriki[1], Noritaka Oyama[1], Kiyoshi Higashi[2], Koichi Saito[2], Minoru Hasegawa[1]

[1]Department of Dermatology, Division of Medicine, Faculty of Medical Sciences, University of Fukui, [2]Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd., Osaka, Japan

P05-06 [C03-4] **Knockdown of Suprabasin in a three-dimensional Epidermal Model Inhibits Differentiation of Keratinocyte**

○ Masahiro Aoshima[1], Shinsuke Nakazawa[1], Takatsune Umayahara[1], Jun-ichi Sakabe[2], Tsuyoshi Yatagai[1], Shigeki Ikeya[1], Takatoshi Shimauchi[1], Yoshiki Tokura[1]

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P05-07 [O3-10] **Skin dryness lead balance of axon guidance elements to disrupt through oxidative stress**

○ Misaki Hirayama[1], Yukiko Izutsu[2], Yuri Okano[1], Hitoshi Masaki[1]

[1]Graduate school of Bionics, Tokyo university of Technology, Tokyo, Japan, [2]NIKKOL GROUP Nikoderm Research Inc.

P05-08 [C03-5] **Benzo[a]pyrene induces the expression of aldo-keto reductase 1C3 in an aryl hydrocarbon receptor-dependent manner**

○ Motoki Nakamura[1,2], Stephan Moosmann[2], Jean Krutmann[2], Christoph. F Vogel[3], Thomas Haarmann-Stemmann[2]

[1]Department of Geriatric and Environmental Dermatology, Nagoya City University, Nagoya, Japan, [2]IUF-Leibniz-Research Institute for Environmental Medicine, Duesseldorf, Germany, [3]Environmental Toxicology and Center for Health and the Environment, University of California, Davis, CA, United States

P05-09 [O3-11] **Calcium increases semaphorin 3A expression by activating PKC/MAPK/AP-1 signaling axis in normal human epidermal keratinocytes**

○ Yayoi Kamata[1], Yoshie Umehara[1], Azumi Sakaguchi[1], Yasushi Suga[2], Hideoki Ogawa[1], Mitsutoshi Tominaga[1], Kenji Takamori[1,2]

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

P05-10 [C03-6] **How cathelicidin antimicrobial peptide production is upregulated during keratinocyte differentiation?**

Kun Pyo Kim[1], Yunhi Cho[1], Kyong-Oh Shin[2], Yong-Moon Lee[2,3], Mami Yokota[3,5], Sung Jay Chae[4,5], Kyungho Park[5,6], ○ Yoshikazu Uchida[6,7]

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P05-11 [O3-12] **Epidermal barrier function is impaired in a Langerhans cell-depleted murine model and recovered by Langerhans cell repopulation**

○ Je Yun Park[1,2], Hae-Jin Lee[1], Tae-Gyun Kim[1], Sung Hee Kim[1], Minseok Lee[1], Jae Won Lee[1], Seung Hun Lee[1], Min-Geol Lee[1,2]

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P05-12 [O3-13] **Characterization of intercellular lipid model mimicking thermotropic behavior of stratum corneum**

○ Yasuko Obata[1], Momo Omote[1], Yuko Arai[1], Noboru Ohta[2], Kenya Ishida[3]

[1]Department of Pharmaceutics, Hoshi University, Tokyo, Japan, [2]SPring-8/JASRI, [3]Takasago International Corporation

P05-13 [O3-14] **Ablation of O-GlcNAc transferase (OGT) gene affects epidermal homeostasis**

○ Ji-Young Kim, Cho-Ah Lim, Jung-Woo Ko, Chang Deok Kim, Jeung-Hoon Lee

Department of Dermatology, School of Medicine, Chungnam National University, Daejeon, Korea

P05-14 [O3-15] **Sphingolipid abnormalities occur in SMS2- deficient mice**

Asami Makino[1], Shota Sakai[2], Akihito Nishi[3], Takeshi Ichikawa[4], Tadashi Yamashita[3], Yoshihiro Tokutome[4], Debra Crumrine[5], Yoshikazu Uchida[5], Peter M. Elias[5], Tetsuya Tsuchida[6], ○ Sumiko Hamanaka[6]

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P05-15 [O3-16] **Anti-oxidant effects of topical autophagy activator: A randomized, placebo-controlled, double-blinded study**

○ Sekyoo Jeong[1], Jongmi Lim[2], Chae Jin Lim[3], Sungwoo Kim[2], Keedon Park[3], Huyn Jung Kim[4]

[1]Department of Bio-Cosmetic Science, Seowon University, Cheongju, Republic of Korea, [2]CRID Center, NeoPharm Co., Ltd., Daejeon, [3]Incospharm Corp., Daejeon, [4]Department of Dermatology, Seoul Medical Center, Seoul

P05-16 [O3-17] **Systematic analysis on skin aging caused by intrinsic or extrinsic factors**

○ Tai-Long Pan

School of Traditional Chinese Medicine, Chang Gung University, Taoyuan, Taiwan

P05-17 [O3-18] **Epidermal pigmentation regulates dermatitis of murine models**

○ Tzu-Kai Lin[1], Mao-Qiang Man[2,3], Peter M. Elias[2,3], Hamm-Ming Sheu[4], Jui-Chen Tsai[5]

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P05-18 [O3-19] **The effect of ultraviolet B irradiation in the expression of trichohyalin-like 1 protein**

○ Teruhiko Makino, Megumi Mizawa, Yoko Yoshihisa, Tadamichi Shimizu

The Department of Dermatology, University of Toyama, Toyama, Japan

P05-19 [O3-20] **Investigation of Sirolimus delivery to skin and blood in oral or topical administration**

○ Kazuko Kitayama[1], Mari Wataya-Kaneda[1], Ayumi Nakamura[2], Shinichiro Maeda[2], Fei Yang[1], Ichiro Katayama[1]

[1]Dermatology, Department of Integrated Medicine, Graduate School of Medicine, Osaka University, Osaka, JAPAN, [2]Department of Pharmacy, Osaka University Hospital, Osaka, Japan

P05-20 [O3-21] **Hinokitiol (β-thujaplicin) downregulates inflammatory reactions through the activation of 11β-HSD1 in keratinocytes**

○ Saori Itoi-Ochi, Sayaka Matsumura, Hiroyuki Murota, Ichiro Katayama

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

P05-21 [O3-22] **Normal appearance of epidermal basement membrane zone in nail-patella syndrome patients**

○ Satoru Shinkuma[1,2], Hideki Nakamura[2], Shota Takashima[2], Toshifumi Nomura[2], Yasuyuki Fujita[2], Kazuko Matsumura[3], Hiroshi Shimizu[2], Riichiro Abe[1]

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P05-22 [O3-23] **A systems approach for high performance skin lifting**

Nadine Pernodet, Donald Collins, James McCarthy, Dawn Layman, Katie Gralton, Tom Paladino, Julie Hidalgo, Rose Sparacio, Claude Saliou, ○ Kurt Schilling

Skin Biology & BioActives, Clinical Research Center, Research & Development, ESTEE LAUDER COMPANIES

P05-23 [O3-24] **Stimulatory effect of herbal mixture extract on keratinocyte differentiation**

○ Jin-Hyup Lee, Cho-Ah Lim, Ji-Young Kim, Jung-Woo Ko, Chang Deok Kim, Jeung-Hoon Lee

Department of Dermatology, School of Medicine, Chungnam National University, Daejeon, Korea

Category 6 (P06): Epidemiology/Health Service Research

P06-01 [C08-6] **Serum levels of thymus and activation-regulated chemokine can be a useful marker for pruritus of healthy individuals**

○ Eijiro Akasaka[1], Kenji Hara[1], Mika Takahashi[1], Tomohisa Fukui[1], Ayumi Korekawa[1], Hajime Nakano[1], Ippei Takahashi[2], Shigeyuki Nakaji[2], Daisuke Sawamura[1]

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P06-02 [C08-7] **The latent infection of HTLV-1 accelerates the development of autoimmune disease**

○ Takuya Miyagi[1], Sayaka Yamaguchi[1], Yuetu Tanaka[2], Kenzo Takahashi[1]

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P06-03 [O2-50] **High load of MCPyV in the nonlesional skin of patients with Merkel cell carcinoma and among a cohort of asymptomatic elderly individuals**

○ Yumiko Hashida[1], Tomonori Higuchi[1], Shigenobu Matsuzaki[1], Kimiko Nakajima[2], Shigetoshi Sano[2], Masanori Daibata[1]

[1]Department of Microbiology and Infection, Kochi Medical School, Kochi University, Kochi, Japan, [2]Department of Dermatology, Kochi Medical School, Kochi University, Kochi, Japan

P06-04 [O2-51] **Influence of infection and antibiotic exposure on the development of atopic dermatitis: a nationwide population-based case-control study**

○ Chong Won Choi[1], Bo Ram Yang[2], Dong In Suh[3], So-Hyun Choi[2], Jungyoon Ohn[1], Jong Soo Hong[1], Joongyub Lee[2], Kyu Han Kim[1]

[1]Department of Dermatology, Seoul National University College of Medicine, Seoul, Republic of Korea, [2]Division of Clinical Epidemiology, Medical Research Collaborating Center, Biomedical Research Institution, Seoul National University Hospital, [3]Department of Pediatrics, Seoul National University Children's Hospital

P06-05 [O2-52] **Molecular epidemiology of *Microsporum canis* isolated in Japan based on multilocus microsatellite typing fragment analysis**

○ Junko Watanabe, Kazushi Anzawa, Akiko Nishibu, Takashi Mochizuki

The Department of Dermatology, Kanazawa Medical University, Ishikawa, Japan

P06-06 [O2-53] **Quality of life in Korean patients : A comparison with ten years ago**

○ Kwang Joong Kim, Yo Sup Shin

Department of Dermatology, Hallym University Sacred Heart Hospital, Anyang, Korea

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

P07-01 [I-4] **Familial keratosis lichenoides chronica caused by *NLRP1* mutation associated with enhanced inflammasome activation**

○Takuya Takeichi[1,2], Franklin L. Zhong[3,4], Salma S. Omar[5], Masashi Akiyama[1], Bruno Reversade[3,4], John A. McGrath[2]

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P07-02 [I-6] **Mutations in KDSR disrupt ceramide synthesis and result in a spectrum of keratinization disorders associated with thrombocytopenia**

○John A. McGrath[1], Takuya Takeichi[1,2], Antonio Torrelo[3], John Lee[1], Yusuke Ohno[4], Maria-Luisa Lozano[5], Akio Kihara[4], Junko Ishikawa[6], Yoichiro Toi[7], Yasushi Ogawa[2], Kazumitsu Sugiura[8], Masashi Akiyama[2]

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P07-03 [C08-1] **The development of mesenchymal stem/stromal cells from keratinocyte-derived induced pluripotent stem cells (iPSCs).**

○Chihiro Nakayama[1], Yasuyuki Fujita[1], Wakana Matsumura[1], Shota Takashima[1], Satoru Shinkuma[2], Toshifumi Nomura[1], Riichiro Abe[2], Hiroshi Shimizu[1]

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P07-04 [C08-2] **A mechanism of repigmentation in piebaldism: Melanocyte stem cells in the depigmented skin and functional analysis of the mutant KIT**

○Akira Shimizu[1], Mai Hattori[1], Akemi Ishida-Yamamoto[2], Hajime Nakano[3], Daisuke Sawamura[3], Kaori Wakamatsu[4], Fuminori Tokunaga[5], Osamu Ishikawa[1]

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P07-05 [C08-3] **LMX1B with an inframe indel mutation in a familial case of nail patella syndrome shows loss of its transcriptional activity**

○Miho Mukai[1], Harumi Fujita[1,2], Noriko Umegaki-Arao[1], Takashi Sasaki[1,2,3], Fumiyo Yasuda[1], Tsuyoshi Isojima[4], Sachiko Kitanaka[4], Masayuki Amagai[1,2], Akiharu Kubo[1]

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P07-06 [C05-7] **Identification of susceptibility loci for tanning ability in 9,960 Japanese from Miyagi and Iwate prefectures**

○Kosuke Shido[1], Kaname Kojima[2], Atsushi Hozawa[2], Soichi Ogishima[2], Naoko Minegishi[2], Yosuke Kawai[2], Gen Tamiya[2], Kozo Tanno[3], Kenshi Yamasaki[1], Yoichi Suzuki[2], Setsuya Aiba[1], Masao Nagasaki[2]

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P07-07 [C08-4] **Morphological and chemical analyses of hair samples from Japanese patients with Hermansky-Pudlak Syndrome type 1, 4, 6, and 9**

○Ken Okamura[1], Yuko Abe[1], Yuta Araki[1], Kazumasa Wakamatsu[2], Gen Tamiya[3], Mariko Seishima[4], Takafumi Umetsu[5], Atsushi Kato[6], Masakazu Kawaguchi[1], Masahiro Hayashi[1], Yutaka Hozumi[1], Tamio Suzuki[1]

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P07-08 [O4-01] **Altering calcium influx in astrocyte caused thermal hypersensitivity in tuberous sclerosis complex**

Yang Pan, ○Mari Wataya-Kaneda, Ichiro Katayama

Department of Dermatology, Graduate school of medicine, Osaka University, Suita, Osaka, Japan

P07-09 [C08-5] **p63 is a key regulator of iRHOM2 signalling in the keratinocyte stress response**

Paola Arcidiacono, Catherine Webb, Diana Blaydon, Anissa Chikh, ○David Kelsell

Centre for Cell Biology & Cutaneous Research, Blizard Institute, Queen Mary University of London, UK

P07-10 [O4-02] **Risk evaluation of transmission from mosaic to germline: a child with epidermolytic ichthyosis from a parent with epidermolytic nevus**

○ Michihiro Kono[1], Yasushi Suga[2], Tomohiro Akashi[3], Yasutomo Ito[4], Takuya Takeichi[1], Yoshinao Muro[1], Masashi Akiyama[1]

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P07-11 [O4-03] **A genome-wide association study in koreans identifies susceptibility loci for skin hydration**

○ Sue-Jeong Kim, Jung-Woo Ko, Ji-Young Kim, Cho-Ah Lim, Chang Deok Kim, Jeung-Hoon Lee

Department of Dermatology, School of Medicine, Chungnam National University, Daejeon, Korea

P07-12 [O4-04] **Deep phenotyping of ichthyosis follicularis with atrichia and photophobia syndrome associated with *MBTPS2* mutations**

○ Chiaki Murase[1], Takuya Takeichi[1], Kyoko Ikumi[2], Akimichi Morita[2], Masashi Akiyama[1]

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P07-13 [O4-05] ***RXRB* is a MHC-encoded susceptibility gene associated with anti-topoisomerase I antibody-positive systemic sclerosis**

○ Akira Oka[1], Yoshihide Asano[2], Minoru Hasegawa[3], Manabu Fujimoto[4], Osamu Ishikawa[5], Masataka Kuwana[6], Yasushi Kawaguchi[7], Toshiyuki Yamamoto[8], Hiroki Takahashi[9], Daisuke Goto[10], Hirahito Endo[11], Masatoshi Jinnin[12], Kazuhiko Takehara[13], Shinichi Sato[2], Hironobu Ihn[12]

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P07-14 [O4-06] **Amino acid substitution of Gln^{425} in integrin β4 leads to junctional epidermolysis bullosa with pyloric atresia**

○ Akari Sakai[1], Satoru Shinkuma[1], Manami Maehara[1], Sakae Kaneko[2], Shota Takashima[3], Ken Natsuga[3], Yasuyuki Fujita[3], Hideki Nakamura[3], Wataru Nishie[3], Hiroshi Shimizu[3], Riichiro Abe[1]

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P07-15 [O4-07] **Two cases of cardio-facio-cutaneous syndrome with a heterozygous missense mutation in *MAP2K2***

○ Toshinari Miyauchi[1], Toshifumi Nomura[1], Shotaro Suzuki[1], Masae Takeda[1], Keisuke Imafuku[1], Chihiro Shiiya[1], Yasuyuki Fujita[1], Riichiro Abe[2], Hiroshi Shimizu[1]

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P07-16 [O4-08] **Somatic mutation analysis of pilomatriocoma in the *CTNNB1* gene.**

○ Rei Yokoyama[1], Ryota Hayashi[1], Yutaka Shimomura[2], Riichiro Abe[1]

[1]Division of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, [2]Department of Dermatology, Yamaguchi University Graduate School of Medicine, Ube, Japan

P07-17 [O4-09] **Exploring the niche of dermal neurofibroma in von Recklinghausen's disease: evidence for the involvement of polydom**

○ Tomo Kamitani[1], Hiroyuki Murota[1], Mari W. Kaneda[1], Ryoko S. Nishiuchi[2], Kiyotoshi Sekiguchi[2], Ichiro Katayama[1]

[1]Dermatology, Department of Integrated Medicine, Graduate School of Medicine, Osaka University, Osaka, Japan, [2]Division of Matrixome Research and Application, Institute for Protein Research, Osaka University

P07-18 [O4-10] **Genome editing in epidermolysis bullosa simplex**

○ Toshifumi Takahashi, Noriki Fujimoto, Miho Kabuto, Kazuya Teramura, Toshihiro Tanaka

The Department of Dermatology, Shiga University of Medical Science

P07-19 [O4-11] **Identification of a novel missense mutation in ATP2C1 in a patient with Hailey-Hailey disease treated with minocycline hydrochloride**

○ Yohya Shigehara[1], Satoru Shinkuma[1], Atsushi Fujimoto[1], Shinobu Saijo[2], Riichiro Abe[1]

[1]Divisions of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, [2]Sakura Dermatology Clinic, Niigata, Japan

P07-20 [O4-12] **Genome editing in mammalian cells by Cascade and Cas3**

○ Hiroyuki Morisaka[1,2], Shigetoshi Sano[1], Junji Takeda[2]

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

P07-21 [O4-13] **IL-12-expressing adipose-derived mesenchymal stem cells for treatment of melanoma**

○ Takahiro Arita[1], Tsunao Kishida[2], Norito Katoh[1], Osamu Matsuda[2], Jun Asai[1]

[1]Department of Dermatology, Kyoto Prefectural University of Medicine, Kyoto, Japan, [2]Department of Immunology, Kyoto Prefectural University of Medicine, Kyoto, Japan

P07-22 [O4-14] **Chromosomal microarray analysis in a case of X-linked ichthyosis with mental retardation**

○ Yoshihiro Matsudate[1], Yoshiaki Kubo[1], Issei Imoto[2]

[1]Department of Dermatology, Tokushima University Graduate School of Medical Science, Tokushima, Japan, [2]Department of Human Genetics, Tokushima University Graduate School of Medical Science, Tokushima, Japan

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

P08-01 [C04-1] **Negative evidence of bone-marrow cell transdifferentiation into keratinocyte in normal and wounded skin using keratin-specific reporter mice**

○ Gyohei Egawa, Kenji Kabashima

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

P08-02 [C04-2] **Protective effect of mesenchymal stem cells on the pressure ulcer formation by the regulation of oxidative and endoplasmic reticulum stress**

○ Akiko Sekiguchi, Akihiko Uchiyama, Akihito Uehara, Sahori Yamazaki, Chisako Fujiwara, Osamu Ishikawa, Sei-ichiro Motegi

Department of Dermatology, Gunma University Graduate School of Medicine

P08-03 [C04-3] **Atypical protein kinase C isoform, aPKCλ, regulates directional cell migration during wound healing**

○ Shin-Ichi Osada[1], Natsuko Noguchi[1], Tomonori Hirose[2], Tomoko Suzuki[1], Masami Kagaya[1], Kazuhiro Chida[3], Shigeo Ohno[2], Motomu Manabe[1]

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P08-04 [O1-45] **Niche-derived KITL is essential for the self-renewal of melanocyte stem cells**

○ Yasuaki Mohri[1], Naotaka Serizawa[1], Takahiro Aoto[1], Hironobu Morinaga[1], Sean Morrison[2], Emi K. Nishimura[1]

[1]Department of Stem Cell Biology, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan, [2]University of Texas Southwestern Medical Center, Dallas, TX, USA

P08-05[SE] [O1-46] **Mesenchymal stem cells-derived MFG-E8 accelerates diabetic cutaneous wound healing**

○ Sei-ichiro Motegi, Akihiko Uchiyama, Akiko Sekiguchi, Chisako Fujiwara, Buddhini Perera, Sahori Yamazaki, Sachiko Ogino, Yoko Yokoyama, Osamu Ishikawa

Department of Dermatology, Gunma University Graduate School of Medicine

P08-06 [O1-47] **Derivation of induced pluripotent stem cells (iPSCs) from NY-ESO-1-specific CD8+ T cell isolated from the patient with melanoma**

○ Munenari Itoh[1], Shiho Kawagoe[1], Hirotaka-James Okano[2], Hidemi Nakagawa[1]

[1]Department of Dermatology, The Jikei University School of Medicine, Tokyo, Japan, [2]Division of Regenerative Medicine, The Jikei University School of Medicine

P08-07 [C04-4] **Investigation of the Role(s) of long non-coding RNA G36220 in Human Skin Wound Repair**

○ Eva K. Herter, Dongqing Li, Xi Li, Ning Xu Landen

Molecular Dermatology, Karolinska Institutet, Stockholm, Sweden

P08-08 [O1-48] **Plastic mesenchymal stem cells are not activated mitochondria.**

○ Takeshi Yamauchi, Kenshi Yamasaki, Kenichiro Tsuchiyama, Saaya Koike, Setsuya Aiba

Department of dermatology, Tohoku University Graduated School of Medicine, Miyagi, Japan

P08-09 [O1-49] **A method to differentiate peripheral neurons from human induced pluripotent stem cells to develop treatments for intractable itch**

○ Yoshie Umehara[1], Mitsutoshi Tominaga[1], Hironori Matsuda[1], Nobuaki Takahashi[1], Yayoi Kamata[1], Hideoki Ogawa[1], Kenji Takamori[1,2]

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

P08-10 [O1-50] **Innate defense regulator IDR-1018 activates human mast cells through G protein-, phospholipase C-, MAPK- and NF-kappaB-sensitive pathways**

○ Kensuke Yanashima[1], Panjit Chieosilapatham[1,2], Ko Okumura[1], Hideoki Ogawa[1], Francois Niyonsaba[1,3]

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

P08-11 [O1-51] **Inhibition of collagen synthesis by a small molecule tankyrase inhibitor IWR-1 in fibroblasts**

○ Cho-Ah Lim, Ji-Young Kim, Jung-Woo Ko, Chang Deok Kim, Jeung-Hoon Lee

Department of Dermatology, School of Medicine, Chungnam National University, Daejeon, Korea

P08-12 [O1-52] **N2 non-thermal atmospheric pressure plasma promotes wound healing in vitro and in vivo: Potential modulation of adhesion molecules and MMP-9**

○ Sung Un Kang

The Department of Otolaryngology, Ajou University school of Medicine, Suwon, Korea

P08-13 [O1-53] **The effect of Ambrisentan and Basic Fibroblast Growth Factor combination therapy for impaired wound healing by bleomycin treatment in mice**

○ Masato Ishikawa, Toshiyuki Yamamoto

The Department of Dermatology, Fukushima medical University, Fukushima, Japan

P08-14 [O1-54] **Radiation skin ulcer following cardiac fluoroscopic interventions: an emerging but overlooked complication**

○ Kai-Che Wei[1], Wen-Hua Wang[1], Hsiu-Hui Chiu[2]

[1]Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan, [2]Department of Dermatology, Pingtung Christian Hospital, Taiwan

Category 9 (P09): Hair and Cutaneous Development

P09-01 [C04-5] **CCR5 blockade exerts both prophylactic and therapeutic effects on alopecia areata**

○ Taisuke Ito[1], Takahiro Suzuki[2], Shinsuke Nakazawa[1], Atsuko Funakoshi[1], Toshiharu Fujiyama[1], Yoshiki Tokura[1]

[1]Department of Dermatology, Hamamatsu University School of Medicine, [2]Fujinomiya City General Hospital

P09-02 [C04-6] **Local cortisol activation in keratinocytes influences on mouse hair cycle**

○ Mika Terao[1,2], Sayaka Matsumura[2], Ichiro Katayama[2], Satoshi Itami[1]

[1]Department of Regenerative Dermatology, Osaka University, Osaka, Japan, [2]Department of Dermatology, Osaka University, Osaka, Japan

P09-03 [C04-7] **APOBEC3 regulates transcription of NOTCH3 and keratinocyte differentiation**

○ Teruki Dainichi, Yuri Nakano, Masayuki Otsuka, Kenji Kabashima

Department of Dermatology, Kyoto University Graduate School of Medicine

P09-04 [O4-15] **PLCγ1 is required for normal formation of sebaceous glands**

○ Takatsugu Fukuyama[1], Chiho Toyoda[1], Yoshikazu Nakamura[1,2], Kiyoko Fukami[1,3]

[1]Laboratory of Genome and Biosignals, School of Life Sciences, Tokyo University of Pharmacy and Life Sciences, Tokyo, Japan, [2]PRIME, AMED, [3]AMED-CREST

P09-05 [O4-16] ***LIPH* mutations are extremely predominant in autosomal recessive woolly hair and hypotrichosis in Japan.**

○ Kana Tanahashi[1], Takuya Takeichi[1], Tomoki Taki[1], Michihiro Kono[1], Kazumitsu Sugiura[2], Masashi Akiyama[1]

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

P09-06 [O4-17] **Analysis on stem cell-regulating factors in human hair follicles**

○ Katsuma Miyachi[1], Takaaki Yamada[1], Hisashi Yoshioka[1], Masahiro Fujimura[1], Mika Kawagishi-Hotta[1,2], Yasushi Date[1,2], Yuichi Hasebe[1,2], Seiji Hasegawa[1,2], Satoru Nakata[1]

[1]Research Laboratories, Nippon Menard Cosmetic Co., Ltd., [2]Nagoya University-Menard Collaborative Research Chair, Nagoya University Graduate School of Medicine

P09-07 [O4-18] **A novel hair growth peptide (HGP): Water-soluble chicken egg yolk peptides stimulate hair growth via induction of VEGF production.**

○ Toshio Nakamura[1], Haruo Yamamura[2], Kyungho Park[3], Yoshikazu Uchida[1], Noriko Horie[1], Mujo Kim[1], Satoshi Itami[4]

[1]Pharmafoods International Co. Ltd., [2]Charle Co. Lid., [3]Department of Food Science and Nutrition, Hallym University, [4]Department of Regenerative Dermatology, Osaka University Graduate School of Medicine

P09-08 [O4-19] **The efficacy of the PEG-PBLG micelle to the skin penetration at finite dose condition**

○ Kensuke Yotsumoto, Kenta Ishii, Miho Kokubo, Sakiko Yasuoka

Cosmetics Division, NanoCarrier Co., Ltd., Chiba, Japan

P09-09 [O4-20] **Loss of Langerhans cells in scar lesion of lichen planopilaris is caused by downregulation of integrin αvβ6 in the epidermal keratinocytes**

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

Department of Dermatology, University of Yamanashi, Japan

P09-10 [O4-21] **Morphological analyses in Pili torti**

○ Takeshi Yanagishita[1], Yuki Marubashi[1,2], Jun Muto[1], Nobuhiko Taguchi[1,2], Kazumitsu Sugiura[3,4], Yoshiyuki Kawamoto[5], Masashi Akiyama[3], Daisuke Watanabe[1]

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Category 10 (P10): Immunology 1: Adaptive Immunity

P10-01 [II-6] **Sensory nerves enhance contact hypersensitivity reaction by promoting cutaneous dendritic cell functions via PACAP**

○ Atsushi Otsuka, Chisa Nakashima, Kenji Kabashima

Department of Dermatology, Kyoto University, Kyoto, Japan

P10-02 [III-6] **CD5$^+$ regulatory B1 cells inhibit melanoma tumor immunity**

○ Tadahiro Kobayashi[1], Takashi Matsushita[1], Yasuhito Hamaguchi[1], Manabu Fujimoto[2], Kazuhiko Takehara[1]

[1]Department of Dermatology, Faculty of Medicine, Institute of Medical, Pharmaceutical, and Health Sciences, Kanazawa University, Ishikawa, Japan, [2]Dermatology, University of Tsukuba, Tsukuba, Japan

P10-03 [C06-1] **PD-L1 on radio-resistant cells regulates effector CD8+ T-cell activation during the elicitation phase of contact hypersensitivity**

○ Tomoko Hirano[1], Tetsuya Honda[1], Koji Tamada[2], Lieping Chen[3], Kenji Kabashima[1]

[1]Department of Dermatology, Kyoto University, Kyoto, Japan, [2]Department of Immunology, Yamaguchi University, Yamaguchi, Japan, [3]Department of Immunobiology, Yale University, CT, USA

P10-04 [C06-2] **The IL-13/periostin/IL-24 pathway causes epidermal barrier dysfunction in allergic skin inflammation**

○ Yasutaka Mitamura[1,2], Satoshi Nunomura[1], Masahiro Ogawa[1], Yasuhiro Nanri[1], Tomohito Yoshihara[1], Miho Masuoka[1], Gaku Tuji[2], Takeshi Nakahara[2], Masutaka Furue[2], Kenji Izuhara[1]

[1]Division of Medical Biochemistry, Department of Biomolecular Sciences, Saga Medical school, Saga, Japan, [2]Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan

P10-05 [C06-3] **Skin-specific CD301b+ dermal dendritic cells drive IL-17-mediated psoriasis-like immunity**

○ Tae-Gyun Kim[1], Sung Hee Kim[1], Jeyun Park[1,2], Wanho Choi[2,3], Moah Sohn[2,3], Minseok Lee[1], Jae Won Lee[1], Soo Min Kim[4], Do-Young Kim[1], Hyoung-Pyo Kim[2,5], Jae-Hoon Choi[6], Chae Gyu Park[2,3], Min-Geol Lee[1,2]

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P10-06 [C06-4] **Inhibition of IL-36R signal for novel anti-psoriasis strategy**

○ Kentaro Ohko, Kimiko Nakajima, Sayo Kataoka, Mikiro Takaishi, Shigetoshi Sano

Department of Dermatology, Kochi Medical School, Kochi University, Kochi, Japan

P10-07 [C06-5] **Lymph node stromal cell-mediated deletional tolerance controls the development of GVHD-like skin lesion in a novel involucrin-mOVA line**

○ Yujin Nakagawa[1], Gyohei Egawa[1], Tetsuya Honda[1], Junichi Sakabe[2], Yoshiki Tokura[3], Kenji Kabashima[1]

[1]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, [2]Agency for Science, Technology and Research, Singapore, [3]Hamamatsu University School of Medicine, Hamamatsu, Japan

P10-08 [O3-25] **The role of IL-33 in the pathogenesis of chronic graft-versus-host disease**

○ Mai Ishigaki, Akihiko Kitoh, Kenji Kabashima

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

P10-09 [C06-6] **CXCL13-plasmablast axis requires for the boosting immunity against varicella zoster virus in patients with herpes zoster**

○ Kensuke Fukuchi, Kazuki Tatsuno, Takatoshi Shimauchi, Yoshiki Tokura

Department of Dermatology, Hamamatsu University School of Medicine, Shizuoka, Japan

P10-10 [O3-26] **Imiquimod-induced psoriasis-like skin inflammation is improved upon treatment with sodium butyrate**

○ Agatha Schwarz, Anika Bruhs, Thomas Schwarz

Department of Dermatology, University Kiel, Kiel, Germany

P10-11 [O3-27] **Antigen specificity is required for B10 cells to exert their regulatory function in contact dermatitis**

○Masahiro Kamata[1,2,3], Kathleen M. Candando[3], Evgueni Kountikov[3], Ayumi Yoshizaki[1,3], Tomomitsu Miyagaki[1,3], Jacquelyn M. Lykken[3], Jonathan C. Poe[3], Shinichi Sato[1], Thomas F. Tedder[3]

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P10-12 [O3-28] **Multimerization is required for antigen binding activity of an engineered IgM/IgG chimeric antibody recognizing an epidermal antigen**

○Kwesi Teye[1], Koji Hashimoto[2], Sanae Numata[3], Norito Ishii[1], Hiroshi Koga[1], Kunihiro Ohta[2], Takekuni Nakama[1], Marek Haftek[4], Takashi Hashimoto[1]

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P10-13 [O3-29] **Functional role of epidermal Langerhans cells in imiquimod-induced psoriasis-like dermatitis model**

○Jae Won Lee[1], Minseok Lee[1], Sung Hee Kim[1,2], Jaeyun Park[1,2], Tae-Gyun Kim[1], Min-Geol Lee[1,2]

[1]Department of Dermatology, Severance Hospital, Cutaneous Biology Research Institute, Yonsei University College of Medicine, Seoul, Korea, [2]Brain Korea 21 Plus Project for Medical Science, Yonsei University College of Medicine

P10-14 [O3-30] **Platelet-derived TGF-β is important for the development of immune tolerance.**

○Eri Hotta, Risa Mineoka, Naomi Nakamura, Risa Yasuike, Norito Katoh

Department of Dermatology, Kyoto Prefectural University of Medicine Graduate School of Medical Science, Japan

P10-15 [O3-31] **Notch signaling contributes to the acquisition of an antigen-presenting cell-like phenotype in intestinal mast cells**

○Nobuhiro Nakano[1], Ko Okumura[1], Hideoki Ogawa[1,2], Shigaku Ikeda[1,2]

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

P10-16 [O3-32] **Hapten-induced skin associated lymphoid tissue in the scalp treated with topical immunotherapy for alopecia areata.**

○Yohei Natsuaki[1], Akihiko Kawahara[2], Yoshiki Naito[2], Jun Akiba[2], Kenji Kabashima[3], Takekuni Nakama[1]

[1]The Department of Dermatology, Kurume University School of Medicine, Japan, [2]Department of Pathology, Kurume University School of Medicine, Japan, [3]Department of Dermatology, Kyoto University Graduate School of Medicine, Japan

P10-17 [O3-33] ***In vitro* expansion of antigen-specific B cells in autoimmune diseases**

○Hiraku Suga[1,2], Sravya Mallam[3], Robert D. Streilein[3], Thomas F. Tedder[2], Russell P. Hall[3]

[1]Department of Dermatology, University of Tokyo, Tokyo, Japan, [2]Department of Immunology, Duke University Medical Center, Durham, NC, USA, [3]Department of Dermatology, Duke University Medical Center, Durham, NC, USA

P10-18 [O3-34] **Analysis of the allergy of gadus chalcogrammus roe (Tarako)**

○Keiko Hanaoka, Kaori Ishii, Shunsuke Takahagi, Michihiro Hide

Department of Dermatology, Graduate School of Biomedical and Health Sciences, Hiroshima University, Hiroshima, Japan

P10-19 [O3-35] **CRTAM expression on CD8+ T-cells is Suppressed in HTLV-1 Infected Patients**

Kazuki Tatsuno, ○Takatoshi Shimauchi, Yoshiki Tokura

Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, Japan

P10-20 [O3-36] **A novel mechanism of skin reaction associated with Helicobacter pylori treatment**

○Takamasa Ito[1], Hideyuki Ujiie[1], Yasuyuki Fujita[1], Hiroshi Shimizu[1], Riichiro Abe[2]

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

P11-01 [III-4] **Depletion of basophils alleviates ILC2-dependent atopic dermatitis-like inflammation in mice overexpressing interleukin-33 in the skin**

○Yasutomo Imai[1], Makoto Nagai[1], Masaaki Yamamoto[1], Koubun Yasuda[2], Kenji Nakanishi[2], Tomohiro Yoshimoto[2], Kiyofumi Yamanishi[1]

[1]Department of Dermatology, Hyogo College of Medicine, Nishinomiya, Japan, [2]Department of Immunology, Hyogo College of Medicine, Nishinomiya, Japan

P11-02 [I-2] **Mast cells control CD11b^{+} tissue-resident macrophage progenitor cells and regulate the number of macrophages in local tissues**

○Seiichiro Wakabayashi[1], Yuumi Nakamura[1], Hiroyuki Matsue[1], Gabriel Nunez[2]

[1]Dermatology, Chiba University, Chiba, Japan, [2]Department of Pathology, University of Michigan, Ann Arbor, USA

P11-03 [C09-1] **Regnase-1 in keratinocytes limits the IL-36/IL-36R auto-stimulatory loop to buffer skin inflammation.**

○ Shigetoshi Sano[1], Kentaro Ohoko[1], Takashi Satoh[2], Shizuo Akira[2], Mikiro Takaishi[1]

[1]Department of Dermatology, Kochi medical school, Kochi University, [2]Department of Host Defense, Research Institute for Microbial Diseases, Osaka University, Suita, Japan

P11-04 [C09-2] ***Staphylococcus aureus*** **virulent PSMα peptides induce keratinocyte alarmin release to orchestrate IL-17-dependent skin inflammation**

○ Seitaro Nakagawa[1,2], Yuumi Nakamura[1], Masanori Matsumoto[2], Yuki Katayama[1], Rena Oguma[1], Gabriel Nunez[2], Hiroyuki Matsue[1]

[1]The Department of Dermatology, Chiba University, Chiba, Japan, [2]Pathology and Comprehensive Cancer Center, University of Michigan, MI, USA

P11-05 [C09-3] **Insight into differential outcomes after cutaneous HSV-2 infection at day or night time by circadian clock protein, CLOCK, in mice**

○ Takamitsu Matsuzawa[1,4], Youichi Ogawa[1], Yuki Nakamura[2], Kayoko Ishimaru[2], Fumi Goshima[3], Shinji Shimada[1], Atsuhito Nakao[2], Tatsuyoshi Kawamura[1]

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P11-06 [C09-4] **Protection against atopic dermatitis through acquisition of Staphylococcus quorum-sensing agr mutations in the skin**

○ Yuumi Nakamura[1], Hiroki Takahashi[2], Akiko Takaya[3], Yuzaburo Inoue[4], Yuki Katayama[1], Yoko Kusuya[2], Rena Oguma[1], Fumiya Yamaide[4], Naoki Shimojo[4], Gabriel Nunez[5], Hiroyuki Matsue[1]

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P11-07 [C09-5] **Interaction of peripheral nerves and basophil plays an essential role in murine atopic-dermatitis-like inflammation**

○ Chisa Nakashima, Atsushi Otsuka, Kenji Kabashima

Department of Dermatology, Kyoto University Graduate School of Medicine

P11-08 [C09-6] **High-fat diet exacerbates neutrophilic folliculitis by upregulating CXCL2 in neutrophils**

○ Satoshi Nakamizo[1], Tetsuya Honda[2], Florent Ginhoux[3], Kenji Kabashima[1,2,3]

[1]Institute Medical Biology, Agency for Science, Technology and Research, Singapore, [2]Department of Dermatology, Kyoto University Graduate School of Medicine, Japan, [3]Singapore Immunology Network, Agency for Science, Technology and Research, Singapore

P11-09 [O3-37] **ATP from human keratinocytes by mechanical stretching is one of the causes of Koebner phenomenon**

○ Takashi Okamoto, Youichi Ogawa, Shinji Shimada, Tatsuyoshi Kawamura

The Department of Dermatology, University of Yamanashi, Yamanashi, Japan

P11-10 [O3-38] **Topical application of nano-sized, bactericidal polymer particles ameliorates hapten-induced dermatitis**

○ Keiko Udaka[1], Michiyuki Kasai[1], Ayano Kawaguchi[4], Reiko Kamijima[2], Shigenobu Matsuzaki[3], Katsuhide Suzuki[4], Mayuko Yamamoto[2], Shigetoshi Sano[2], Shoichi Shirotake[5]

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P11-11 [O3-39] **A long-chain fatty-acid elongase, Elovl 6, regulates mechanical stress-induced dermatitis**

○ Yoshiyuki Nakamura[1,2], Manabu Fujimoto[1], Chigusa Oda-Nakahashi[2], Takashi Matsuzaka[3], Hitoshi Shimano[3,4], Akira Shibuya[2,4]

[1]The Department of Dermatology, University of Tsukuba, Tsukuba, Japan, [2]The Department of Immunology, Faculty of Medicine, University of Tsukuba, Tsukuba, Japan, [3]The Department of Endocrinology and Metabolism, University of Tsukuba, Tsukuba, Japan, [4]Center for TARA, University of Tsukuba, Tsukuba, Japan

P11-12 [O3-40] **Ragweed pollen allergen is a danger signal for the skin via activation of NLRP3 inflammasome in keratinocytes**

○ Xiuju Dai, Mikiko Tohyama, Masamoto Murakami, Ken Shiraishi, Koji Sayama

The Department of Dermatology, Ehime University Graduate School of Medicine, Toon, Ehime, Japan

P11-13 [O3-41] **Promotion of IMQ-induced keratinocyte activation via C5a-C5aR1 axis**

○ Rintaro Shibuya, Akihiko Kitoh, Kenji Kabashima

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

P11-14 [O3-42] **Hyaluronan oligosaccharides induce suppressive effect to chronic allergic dermatitis.**

○ Jun Muto[1], Richard Gallo[2], Daisuke Watanabe[1]

[1]Department of Dermatology, Aichi Medical University, Nagakute, Japan, [2]Department of Dermatology, University of California, San Diego, La Jolla

P11-15 [O3-43] **Extracellular superoxide dismutase inhibits Propionibacterium acnes-induced skin inflammation in mice**

○ Cuong Thach Nguyen, Jung-Ho Kim, Shyam Kishor Sah, Tae-Yoon Kim

Department of Dermatology, College of Medicine, The Catholic University of Korea, Seoul, South Korea

P11-16 [O3-44] **Prevalence of sensitization against alpha-Gal in the patients without complaining red meat allergy in Shimane University Hospital**

○ Onon Tsedendorj, Yuko Chinuki, Kiyoe Ueda, Eishin Morita

The Department of Dermatology, University of Shimane, Izumo, Japan

P11-17 [O3-45] **The topical delivery of pterostilbene, a methoxylated resveratrol derivative, efficiently eradicates cutaneous infection of MRSA**

○ Jia-You Fang[1], Shih-Chun Yang[1], Feng-Lin Yen[2], Chih-Hua Tseng[3], Yi-Han Weng[1]

[1]Graduate Institute of Natural Products, Chang Gung University, Taoyuan, Taiwan, [2]Department of Fragrance and Cosmetic Science, College of Pharmacy, Kaohsiung Medical University, Kaohsiung, Taiwan, [3]School of Pharmacy, College of Pharmacy, Kaohsiung Medical University, Kaohsiung, Taiwan

P11-18 [O3-46] **Maternal IgE in monomeric state is not transferred to the fetal cutaneous mast cells in mice**

○ Yuki Honda, Sachiko Ono, Tetsuya Honda, Kenji Kabashima

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

P11-19 [O3-47] **Another role of exogenous HMGB1 on poly(I:C)-induced inflammation in keratinocyte**

○ Hideki Mori, Masamoto Murakami, Ryo Utsunomiya, Kana Masuda, Ken Shiraishi, Xiuju Dai, Mikiko Tohyama, Koji Sayama

The Department of Dermatology, University of Ehime, Ehime, Japan

P11-20 [O3-48] **Double-stranded RNA enhances serine protease activities in epidermal keratinocytes**

○ Shin Morizane, Saeko Sugimoto, Satoru Sugihara, Hayato Nomura, Mina Kobashi, Keiji Iwatsuki

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

P11-21 [O3-49] **EGFR inhibitory monoclonal antibodies and EGFR tyrosine kinase inhibitors have distinct effects on the keratinocyte innate immune response**

○ Rie Ommori[1], Kio Park[1,2], Fumi Miyagawa[1], Hiroaki Azukizawa[1], Masatoshi Kanno[3], Hideo Asada[1]

[1]Department of Dermatology, Nara Medical University, Nara, Japan, [2]Yamato Takada Municipal Hospital, Nara, Japan, [3]Oncology Center, Nara Medical University Hospital, Nara, Japan

P11-22 [O3-50] **HSV1 related giant cell formation depends on keratinocyte differentiation**

○ Takenobu Yamamoto, Yoshiko Yamamoto, Yumi Aoyama, Wataru Fujimoto

Department of Dermatology, Kawasaki Medical School, Kurashiki, Japan

P11-23 [O3-51] **Functional analysis of lipid-metabolizing enzyme of *S.aureus***

○ Kengo Totoki[1], Madoka Shoji[1], Karen Nakamura[1], Yoshikazu Nakamura[1,2], Hidemasa Nakaminami[3], Keisuke Nakase[3], Norimasa Nogichi[3], Kiyoko Fukami[1,4]

[1]Laboratory of Genome and Biosignals, Tokyo University of Pharmacy and Life Sciences, [2]PRIME, [3]Department of Microbiology, Tokyo University of Pharmacy and Life Sciences, [4]AMED-CREST

P11-24 [O3-52] **Peptidoglycans induce chemokine production by dendritic cells in patients with atopic dermatitis**

Kyohei Miyano, ○ Koichiro Nakamura, Tetsuya Tsuchida

The Department of Dermatology, Saitama Medical University

Category 12 (P12): Photobiology

P12-01 [I-3] **CXCL1 inhibition regulates UVB-induced skin inflammation and tumorigenesis in *Xpa*-deficient mice**

○ Makoto Kunisada, Chieko Hosaka, Chihiro Takemori, Eiji Nakano, Chikako Nishigori

Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe

P12-02 [C02-5] **Potential therapeutic role of tryptophan photo-product FICZ in scleroderma by upregulating FICZ/AHR/MMP1 pathway**

○ Mika Murai[1], Kazuhiko Yamamura[1,3], Chikage Mitoma[1,2], Gaku Tsuji[1], Akiko Hachiya-Hashimoto[1], Masutaka Furue[1,2]

[1]The Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, [2]Research and Clinical Center for Yusho and Dioxin, Kyushu University Hospital, [3]Moji Hospital

P12-03 [C02-6] **UVA and UVB-induced oxidative stress in live mouse skin—lack of XPA prolongs recovery from oxidative stress—**

○ Yoko Funasaka[1], Alexander M Wolf[2], Naomi Kamimura[2], Yoichi Yabuki[1], Fumino Oda[1], Shigeo Ohta[3], Hidehisa Saeki[1]

[1]Department of Dermatology, Nippon Medical School, Tokyo, Japan, [2]Department of Biochemistry and Cell Biology, Nippon Medical School, [3]Department of Neurology, Juntendo University Graduate School of Medicine

P12-04 [C02-7] **Aquatide Activation of SIRT1 Reduces UV Irradiation-Induced Skin Aging *via* Autophagy Induction**

Keedon Park[1], Chae Jin Lim[1], Yong-Moon Lee[2], Kyong-Oh Shin[2], Se Kyoo Jeong[3], Yang Hoon Huh[4], Yoshikazu Uchida[5], ○Kyungho Park[6]

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P12-05 [O4-22] **Intracellular signaling mechanisms involved in the UVA-suppressed secretion of hyaluronan in human fibroblasts**

○Shuko Terazawa[1], Genji Imokawa[1,2], Hiroaki Nakajima[3]

[1]Research Institute for Biological Functions, Chubu University, Japan, [2]Center for Bioscience Research & Education, Utsunomiya University, [3]School of Bioscience and Biotechnology, Tokyo University of Technology

P12-06 [O4-23] **Common dysfunctional variants of *ABCG2* may contribute to acquired photosensitivity by porphyrin accumulation**

○Masayuki Sakiyama[1,2], Hirotaka Matsuo[1], Yuiko Yonekura[2], Takahiro Ishikawa[2], Akiyoshi Nakayama[1], Toshihide Higashino[1], Norihiro Fujimoto[2], Takahiro Satoh[2], Nariyoshi Shinomiya[1]

[1]Department of Integrative Physiology and Bio-Nano Medicine, National Defense Medical College, Tokorozawa, Japan, [2]Department of Dermatology, National Defense Medical College, Tokorozawa, Japan

P12-07 [O4-24] **Verification of a new precursor form, 5-ALA dermal patch, for photodynamic therapy in experimental actinic keratosis of mouse model**

○Tatsushi Ishimoto[1], Mikiro Takaishi[1], Hideo Fukuhara[2], Takuya Ishii[3], Takeshi Hara[3], Masahiro Ishizuka[3], Keiji Inoue[2], Shigetoshi Sano[1]

[1]Department of Dermatology, Kochi Medical School, Kochi University, Kochi, Japan, [2]Department of Urology, Kochi Medical School, Kochi University, Kochi, Japan, [3]SBI Pharmaceuticals Co., Ltd

P12-08 [O4-25] **Comprehensive transcriptome analysis in normal human dermal fibroblasts irradiated with monochromatic UVA 1 light using UV-LEDs.**

○Hideyuki Masuda[1,2], Makoto Kimura[1,2], Akimichi Morita[1]

[1]Department of Geriatric and Environmental Dermatology, Nagoya City University, Graduate School of Medical Sciences, Nagoya, Japan, [2]USHIO INC.

P12-09 [O4-26] **Photochemotherapy restricts Treg plasticity and restores Treg function in psoriasis patients**

○Kan Torii, Ryoji Kubo, Takuya Furuhashi, Shinnosuke Muramatsu, Yoko Sagawa, Chiyo Saito, Sayuri Yamazaki, Akimichi Morita

Department of Geriatric and Environmental Dermatology, Nagoya City University, Nagoya, Japan

P12-10 [O4-27] **UVB exposure affects the circadian clock genes of skin cells in human**

○Shinnosuke Muramatsu, Kan Torii, Hideyuki Masuda, Akimichi Morita

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

P12-11 [O4-28] **Replication-related genes are upregulated in XP-A cells after UV-C irradiation**

○Seiji Takeuchi[1], Toshiro Matsuda[2], Ryusuke Ono[1], Mariko Tsujimoto[1], Chikako Nishigori[1]

[1]Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, [2]Kindai University Atomic Energy Research Institute

P12-12 [O4-29] **Hypoxic response in the aged skin**

○Naomi Okuda, Hiroko Yamazaki, Miho Morita

Naris Cosmetics Co., LTD., Osaka, Japan

P12-13 [O4-30] **Galactomyces Ferment Filtrate reduced UVB-induced stress response at p53 pathway by inhibiting degradation of MDM2 in NHEK**

○Kenji Hattori[1,2], Yuko Chida[1], Yutaro Mori[1], Chieko Soh[2], Kazumi Toyama[2], Kazuyuki Ishii[1]

[1]Department of Hygienic Chemistry, Meiji Pharmaceutical University, Tokyo, Japan, [2]P&G Japan

Category 13 (P13): Pigmentation and Melanoma

P13-01 [II-4] **Targeting melanocyte stem cells with Dct locus by cloning-free CRISPR/Cas9 technology**

○Daisuke Nanba[1], Yasuaki Mohri[1], Sakura Okamoto[1], Hiroyuki Matsumura[1], Takako Usami[2], Tomomi Aida[3], Koichi Tanaka[3], Emi K. Nishimura[1]

[1]Department of Stem Cell Biology, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan, [2]Laboratory of Recombinant Animals, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan, [3]Laboratory of Molecular Neuroscience, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan

P13-02 [C02-1] **Melanocyte-specific ablation of TSC2 induces skin depigmentation in mice**

○Fei Yang, Lingli Yang, Mari Wataya-Kaneda, Atsushi Tanemura, Ichiro Katayama

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

P13-03 [I-5] **Microphthalmia-associated transcription factor regulates dynamic melanoma heterogeneity**

○ Loredana Spoerri[1], Crystal A. Tonnessen[1], Kimberley A. Beaumont[2], David S. Hill[2], Russell J. Jurek[3], Sheena M. Daignault[1], Farzana Ahmed[1], Aaron G. Smith[1], Wolfgang Weninger[2], Nikolas K. Haass[1,2]

[1]The University of Queensland, The University of Queensland Diamantina Institute, Translational Research Institute, Brisbane, Qld, Australia, [2]The Centenary Institute, Newtown, NSW, Australia, [3]CSIRO Astronomy & Space Sciences, Australia Telescope National Facility, Epping, NSW, Australia

P13-04 [C02-2] **The reprogramming factors introduced melanoma cells lose malignant nature *in vitro* and *in vivo***

○ Mikiro Takaishi, Shigetoshi Sano

Department of Dermatology, Kochi University, Nankoku, Japan

P13-05 [C09-7] **TLR3 stimulation regulate phagocytosis activity of epidermal keratinocytes though the change of Rac1, RhoA and CDC42 expressions.**

○ Saaya Koike, Kenshi Yamasaki, Takeshi Yamauchi, Kenichiro Tsuchiyama, Setsuya Aiba

Department of Dermatology, Tohoku University Graduate School of Medicine, Miyagi, Japan

P13-06 [C06-7] **CTLA-4 expressed by melanoma cells showed enhanced susceptibility to anti-melanoma T-cell responses**

○ Takashi Inozume[1], Kazutoshi Harada[2], Tatsuyoshi Kawamura[1], Shinji Shimada[1]

[1]Department of Dermatology, University of Yamanashi, [2]Department of Dermatology, Tokyo Medical University

P13-07 [C10-6] **Integration of periostin and M2 macrophages in human and murine melanoma progression**

○ Fumitaka Ohno[1], Takeshi Nakahara[1], Makiko Nakahara[1], Satoshi Nunomura[2], Kenji Izuhara[2], Masutaka Furue[1]

[1]The Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan, [2]The Division of Medical Biochemistry, Department of Biomolecular Sciences, Saga Medical School, Saga, Japan

P13-08 [C03-7] **3D imaging can determine the structural interrelationship between melanocytes and keratinocytes in Senile Lentigo**

○ Yuki Mizutani[1], Mika Yamashita[1], Rie Hashimoto[1], Toru Atsugi[1], Akemi Ryu[1], Akinobu Hayashi[1], Yukiko Rikimaru[2], Keisuke Ohta[2,3]

[1]Research Laboratories, KOSE Corporation, [2]Division of Microscopic and Developmental Anatomy, Department of Anatomy, Kurume University School of Medicine, [3]Advanced Imaging Research Center, Kurume University School of Medicine

P13-09 [O4-31] **A BRAF inhibitor and a Toll-like receptor 7 agonist synergistically enhanced anti-tumor immune responses depending on $CD8^+$ T cell**

○ Kenta Nakamura[1,4], Tomonori Yaguchi[1], Masashi Murata[2], Yosuke Ota[3], Yukiko Kiniwa[4], Ryuhei Okuyama[4], Yutaka Kawakami[1]

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P13-10 [C02-3] **Dysregulation of autophagy in melanocytes contributes to hypopigmented macules in tuberous sclerosis complex**

○ Lingli Yang, Fei Yang, Mari Wataya-Kaneda, Atsushi Tanemura, Ichiro Katayama

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

P13-11 [C02-4] **6-SG induces anti-oxidant activity and promotes melanin synthesis: Promising transcutaneous therapy for skin hypopigmented disorder**

○ Ichiro Katayama, Lingli Yang, Fei Yang, Noriko Arase

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

P13-12 [O4-32] **Extracellular superoxide dismutase inhibits proliferation and ultraviolet B-induced melanogenesis in melanocytes**

○ Hae Y Kim, Shyam K Sah, Tae Y Kim

The Department of Dermatology, Catholic University of Korea, Seoul, Republic of Korea

P13-13 [O4-33] **Diversity of circulating melanoma cells; detection of heterogenetic *BRAF* mutations by single-cell analysis.**

○ Yukiko Kiniwa[1], Kenta Nakamura[1], Asuka Mikoshiba[1], Yasuyuki Akiyama[2], Atsushi Morimoto[2], Ryuhei Okuyama[1]

[1]Department of Dermatology, Shinshu University School of Medicine, Nagano, Japan, [2]Life Science Research Laboratory, Tosoh Corporation

P13-14 [O4-34] **Serum levels of soluble PD-L1 in patients with metastatic melanoma treated with anti-PD-1 antibodies**

○ Satoshi Fukushima, Yukiko Inamori, Yosuke Kubo, Satoshi Nakahara, Azusa Miyashita, Mina Tsuruta, Aki Tokuzumi, Daisuke Niimori, Masatoshi Jinnin, Hironobu Ihn

Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan

P13-15 [O4-35] ***$BRAF^{V600E}$*-associated color characteristics of thick cutaneous melanoma on the trunk and extremities**

○ Akane Minagawa, Atsuko Ashida, Kaori Sakaizawa, Hiroshi Koga, Ryuhei Okuyama

Department of Dermatology, Shinshu University School of Medicine

P13-16 [O4-36] **Fibroblast-derived clusterin inhibits melanogenesis**

○ Yeongeun Kim[1,3], Jiun Lee[1], Misun Kim[1], Tae Jun Park[2,3], Hee Young Kang[1,3]

[1]Department of Dermatology, Ajou University School of Medicine, Suwon, Korea, [2]Department of Biochemistry and Molecular Biology, Ajou University School of Medicine, Suwon, Korea, [3]Department of Biomedical Science, The Graduate School, Ajou University, Suwon, Korea

P13-17 [O4-37] **A clinicopathological analysis of 153 acral melanomas and the relevance of mechanical stress**

○ Yi-Shuan Sheen[1], Yi-Hua Liao[1], Ming-Hsien Lin[2,3], Yu-Ju Tseng[4], Chih-Hung Lee[4], Chia-Yu Chu[1]

[1]Department of Dermatology, National Taiwan University Hospital and College of Medicine, National Taiwan University, [2]Graduate Institute of Clinical Medicine, College of Medicine, National Taiwan University, [3]Department of Surgery, National Taiwan University Hospital Hsin-Chu Branch, [4]Department of Dermatology, Kaohsiung Chang Gung Memorial Hospital and Chang Gung University College of Medicine

P13-18 [O4-38] **Transcriptome-wide identification of RNA targets regulated by insulin-like growth factor 2 mRNA-binding protein 3 (IMP-3) in human melanoma**

○ Chia-Yu Chu[1], Chia-Ying Chu[2], Yi-Shuan Sheen[1]

[1]Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, Taiwan, [2]Department of Life Science, National Taiwan University, Taipei, Taiwan

P13-19 [O4-39] **Diminished autophagy function in the epidermis conclusively causes hyperpigmentation accompanied by epidermal differentiation disorders**

○ Ayumi Kusaka-Kikushima[1], Daiki Murase[1], Akira Hachiya[1], Rachel Fullenkamp[2], Tadashi Hase[3], Tamotsu Yoshimori[4]

[1]Biological Science Laboratories, Kao Corporation, Tochigi, Japan, [2]Biological Science Americas Laboratory, Kao USA Inc., Cincinnati, Ohio, USA, [3]Research and Development, Kao Corporation, Tokyo, Japan, [4]Research Center for Autophagy, Graduate School of Medicine, Osaka University, Osaka, Japan

P13-20 [O4-40] **Large hyperpigmented macules may be a genotype-specific manifestation of Waardenburg syndrome type 2 associated with KITLG mutation**

○ Yasushi Ogawa, Michihiro Kono, Masashi Akiyama

Nagoya University Graduate School of Medicine

P13-21 [O4-41] **Intracellular oxidative stress enhances melanosome transfer to keratinocytes**

○ Karin Endo, Taeko Mizutani, Yuri Okano, Hitoshi Masaki

Tokyo University of Technology

P13-22 [O4-42] **A pulmonary metastatic model of murine melanoma assessed by magnetic resonance imaging**

○ Takafumi Numata[1], Shigeru Kiryu[2], Tatsuo Maeda[1], Chizu Egusa[1], Ryoji Tsuboi[1], Kazutoshi Harada[1]

[1]The Department of Dermatology, Tokyo Medical University, Tokyo, Japan, [2]The Department of Radiology, Institute of Medical Science, University of Tokyo

P13-23 [O4-43] **Expression of Glycoprotein Non-metastatic B/Osteoactivin (GPNMB) in keratinocytes and its modulation by pathological cytokines**

○ Kazal B. Biswas[1,2], Yukiko Mizutani[1], Satoru Takayama[1,2], Asako Ishitsuka[1], Arunasiri Iddamalgoda[1,2], Aya Takahashi[3], Lingli Yang[3], Fei Yang[3], Ichiro Katayama[3], Shintaro Inoue[1]

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P13-24 [O4-44] **Absent Glycoprotein Non-metastatic B/Osteoactivin(GPNMB) expression by the lesional basal keratinocytes in vitiligo**

○ Aya Takahashi[1], Fei Yang[1], Lingli Yang[1], Akira Matsumoto[1], Noriko Arase[1], Atsushi Tanemura[1], Hiroyuki Murota[1], Mari Wataya-Kaneda[1], Arunasiri Iddamalgoda[2,3], Shintaro Inoue[2], Ichiro Katayama[1]

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P13-25 [O4-45] **Driver mutation analysis and circulating cell-free DNA in melanoma**

○ Tatsuya Kaji[1,2], Osamu Yamasaki[1,2], Minoru Takata[1], Keiji Iwatsuki[1,2]

[1]Department of Dermatology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan, [2]Melanoma Center, Okayama University Hospital, Okayama, Japan

P13-26 [O4-46] **Analysis of repigmentation in the mouse model of Rhododenol-induced leukoderma (RIL)**

○ Yuko Abe, Yutaka Hozumi, Ken Okamura, Tamio Suzuki

Department of Dermatology, Yamagata University Faculty of Medicine, Yamagata

P13-27 [O4-47] **NUAK2 is over-expressed and DNA copy number is increased in acral melanoma: its significance on the survival of patients**

○ Kohei Nojima[1], Masahiro Hayashi[4], Masato Funazumi[1], Masashi Ishikawa[2], Yasuhiko Kaneko[3], Masakazu Kawaguchi[4], Tamio Suzuki[4], Atsushi Tanemura[5], Ichiro Katayama[5], Taisuke Mori[6], Naoya Yamazaki[7], Hiroo Yokozeki[1], Vincent J Hearing[8], Takeshi Namiki[1]

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P13-28 [O4-48] **Serum 5-*S*-cysteinyldopa: a possible biomarker for identifying non-responders to Nivolumab treatment of melanoma**

○ Toshikazu Omodaka[1], Akane Minagawa[1], Hiroshi Koga[1], Kazumasa Wakamatsu[2], Hisashi Uhara[1,3], Ryuhei Okuyama[1]

[1]Department of Dermatology, Shinshu University School of Medicine, Matsumoto, Japan, [2]Department of Chemistry, Fujita Health University School of Health Sciences, Toyoake, Japan, [3]Department of Dermatology, Sapporo Medical University School of Medicine, Sapporo, Japan

P13-29 [O4-49] **Dermoscopy image classification of Japanese melanoma and melanocytic nevus by deep neural network**

○ Hiroshi Koga[1], Akane Minagawa[1], Ryuhei Okuyama[1], Kazuhisa Matsunaga[2], Akira Hamada[2]

[1]Department of Dermatology, Shinshu University School of Medicine, [2]R&D Center, Casio Computer Co., Ltd., Japan

P13-30 [O4-50] **Congenital melanocytic naevi in patient with Russel-Silver dwarfism and growth hormone injections**

○ Meiqi May Liau, Nisha Suyien Chandran

Division of Dermatology, National University Hospital (NUHS), Singapore

Late abstract submission

L-01 **In-transit metastasis of basal cell carcinoma — a case report and review of the literature**

○ Hui Mei Cheng[1,2], Wei Chen Ong[1,3]

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L-02 **A Case of Dermatofibrosarcoma protuberans on Nose**

○ Jung Yup Kim, Junghwa Yang, Yun Ho Lee, Sunmin Yim, Jae Yun Lim, Ju-Yeon Choi, Han-Saem Kim, Young Jun Choi, Jae-Hui Nam, Ga-Young Lee, Won-Serk Kim

Department of Dermatology, Kangbuk Samsung Hospital, Sungkyunkwan University School of Medicine, Seoul, Korea

L-03 **A Case of Lymphomatoid papulosis type D in a child**

○ Sunmin Yim, Junghwa Yang, Yun Ho Lee, Jung Yup Kim, Jae Yun Lim, Ju-Yeon Choi, Han-Saem Kim, Joon Hong Min, Young Jun Choi, Jae-Hui Nam, Ga-Young Lee, Won-Serk Kim

Department of Dermatology, Kangbuk Samsung Hospital, Sungkyunkwan University School of Medicine, Seoul, Korea

L-04 **A Case of Non-familial Generalized Hypotrichosis Simplex**

○ Ju-Yeon Choi, Junghwa Yang, Yun Ho Lee, Jung Yup Kim, Sunmin Yim, Jae Yun Lim, Han-Saem Kim, Joon Hong Min, Young Jun Choi, Jae-Hui Nam, Ga-Young Lee, Won-Serk Kim

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L-05 **A Case of Prurigo Pigmentosa from Contact Allergy to New Clothes**

○ Jae Yun Lim, Junghwa Yang, Yun Ho Lee, Jung Yup Kim, Sunmin Yim, Ju-Yeon Choi, Han-Saem Kim, Young Jun Choi, Jae-Hui Nam, Ga-Young Lee, Won-Serk Kim

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L-06 **A Case of Rheumatoid Neutrophilic Dermatosis Mimicking Herpes Simplex Infection**

○ Han-Saem Kim, Junghwa Yang, Yun Ho Lee, Jung Yup Kim, Sunmin Yim, Jae Yun Lim, Ju-Yeon Choi, Joon Hong Min, Young Jun Choi, Jae-Hui Nam, Ga-Young Lee, Won-Serk Kim

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L-07 **Loss of lamin B1 is a biomarker to quantify cellular senescence in photoaged skin**

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L-08 **TRK-fused gene (TFG) is a novel regulator for lipid production in sebocytes**

○ Chang Deok Kim, So-Ra Choi, Soo Jung Kim, Young Lee, Young-Joon Seo, Jeung-Hoon Lee

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L-09 **Effects of brimonidine tartrate on Propionibacterium acnes-induced inflammatory reaction**

○ Jeung-Hoon Lee, So-Ra Choi, Cho-Ah Lim, Young Lee, Chang Deok Kim, Young-Joon Seo, Myung Im

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L-10 **Inhibitory effect of 5-iodotubercidin on pigmentation**

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L-11 **The Dysfunction of SERCA2 Induced Exogenous HSV1 Invasion to a Three-dimensional Human Epidermal Model**

○ Emi Sato[1], Shinichi Imafuku[2], Fumi Goshima[3], Hiroshi Kimura[3], Aya Fujikane[4], Shigeki Nabeshima[4], Kunihiko Murata[5], Kenji Hiromatsu[1]

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L-12 **Sphingosine 1-phosphate receptor 2 controls IL-8 secretion in keratinocytes during *Staphylococcus Aureus* infections**

○ Satomi Igawa[1], Zhenping Wang[1], Yu-Ling Chang[1], Chia Chi Wu[1], Jae Eun Choi[1], Akemi Ishida-Yamamoto[2], Anna Di Nardo[1]

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L-13 **UV irradiation to mice skin decreases hippocampal neurogenesis and synaptic proteins by HPA activation**

○ Mira Han[1,2,3,4], Jae-Jun Ban[2,3,4], Jung-Soo Bae[1,2,3,4], Chang-Yup Shin[2,3], Qing Ling Quan[2,3,4], Dong Hun Lee[2,3,4], Jin Ho Chung[1,2,3,4]

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L-14 **UV-Induced DNA Methyltransferase 1 Promotes Hypermethylation of Tissue Inhibitor of Metalloproteinase 2 in the Human Skin**

○ Ha-Young Kim[1,2,3,5], Mi Hee Shin[1,2,3,5], Hye Sun Shin[1,2,3,5], Dong Hun Lee[1,2,3,4], Min-Kyoung Kim[1,2,3,5], Jin Ho Chung[1,2,3,4]

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L-15 **Antioxidative Effects of Prunus Mume Flower Extract according to the Kinds of Flower and Flowering Stage**

○ Eun Jung Lee, Jin Sup Shim, Hyang Tae Choi, Nok Hyun Park, Yong Jin Kim

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L-16 **Homeostatic activation of epidermal HSD11β1 regulates TSLP production.**

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L-17 **P53 immunoreactivity is inversely correlated to Langerhans cell count and claudin-1 expression in actinic keratosis**

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L-18 **Successful skin graft preceded by maggot debridement therapy (MDT) in a case with full thickness burn injuries**

○ Alireza Nasoori[1], Ramin Hoomand[2]

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L-19 **Genes involved in the expression and secretion of type I collagen are down-regulated in aged skin**

MinJu Pyo[1], Young Hun Lee[1], Dong Hun Lee[2], Jin Ho Chung[2], ○ Seung-Taek Lee[1]

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L-20 **Indolent hematodermic T-cell lymphoma with a sCD3- cCD3+ CD4+ phenotype**

○ Yuki Nakagawa[1], Toshihisa Hamada[1], Keiji Iwatsuki[1], Hidetaka Takahashi[2], Toshiyuki Watanabe[2]

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L-21 **A role of CD22 and CD72 in murine bleomycin-induced scleroderma model**

○ Zhao Chunyan, Yasuhito Hamaguchi, Takashi Matsushita, Kazuhiko Takehara

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L-22 ***Polygonum aviculare*** **L. and its active compounds, quercitrin hydrate, caffeic acid, and rutin, activate the Wnt/β-catenin pathway and induce cutaneous wound healing**

○ Seol Hwa Seo, Minguen Yoon, Kang-Yell Choi

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L-23 **Impact of aryl hydrocarbon receptor (AHR) signaling on the genomic integrity of UVB-exposed keratinocytes**

Siraz Shaik, Melina Mescher, Marius Pollet, Jean Krutmann, ○ Thomas Haarmann-Stemmann

IUF-Leibniz Research Institute for Environmental Medicine, Duesseldorf, Germany

L-24 **Targeting of CXXC5 by a Competing Peptide promotes Hair Re-growth and Wound-Induced Hair Neogenesis**

Soung-Hoon Lee, ○ Yeong Chan Ryu, Seol Hwa Seo, Dong-Hwan Lee, Sehee Choi, Long-Quan Pi, Won-Soo Lee, Kang-Yell Choi

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L-25 **Erythema, excoriation and lichenification severity scoring by deep neural network**

○ Chul Hwan Bang[1], Jae Yeon Rhu[1], Ji Young Song[1], Jae-Heon Chun[2], Jae-Woong Yoon[2], Sung Min Oh[3], Joonho Jung[2], Jun Young Lee[1], Young-Joo Kim[3], Suk-Jun Lee[4], Young Min Park[1], Ji Hyun Lee[1]

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L-26 **Effects of glycyrrhetinic acid on Trichophyton-induced cutaneous inflammation**

○ Tomoya Nakamura[1,2], Akiko Nishibu[2], Takashi Mochizuki[2]

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L-27 **The role of microneedle patch test in the diagnosis of atopic dermatitis**

Howard Chu[1], Ji Hye Kim[1], Seo Hyeong Kim[1,2], Hye Ran Kim[1], Min Kyung Lee[1], ○ Chang Ook Park[1], Kwang Hoon Lee[1]

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L-28 **Pharmacological validation of a T cell-driven skin inflammation model showing a psoriasis-like phenotype**

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L-29 **Characterization of circulating stem/progenitor cells during fatal skin injury regeneration**

○ Takashi Shimbo[1], Eiji Sasaki[1,2], Tomomi Kitayama[1,3], Mami Nishida[1,3], Sho Yamazaki[1,3], Yuya Ouchi[1,3], Sachiko Yamaoka[1], Yasushi Kikuchi[1], Yasufumi Kaneda[4], Katsuto Tamai[1]

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L-30 **Clinical characteristics and gene variations in atopic dermatitis subjects with early development before 3 years of age**

○ Beom Jun Kim[1], Solam Lee[1], Hye-young Wang[2], Hyeyoug Lee[3], So Yeon Lee[4], Soo-Jong Hong[4], Eung Ho Choi[1]

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L-31 **Ultraviolet-induced loss of subcutaneous fat may lead to the deterioration of skin homeostasis.**

Eun Ju Kim[1,2,3], Yeon Kyung Kim[1,2,3], Sungsoo Kim[1,2,3], Ji Eun Kim[1,2,3], Yu Dan Tian[1,2,3], Dong Hun Lee[1,2,3], ○ Jin Ho Chung[1,2,3]

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L-32 **Semaphorin 4D-plexin-B2 signal orchestrates CD8+ T cell proliferation and activation in the pathogenesis of oral lichen planus**

○ Yao Ke[1,2], Shengxian Shen[1], Hongjiang Qiao[1], Qing Liu[2], Gang Wang[1]

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L-33 **TPA-induced growth arrest of malignant melanoma is mediated by dephosphorylation of STAT3 through tyrosine phosphatases, PTPN11 and PTPN2**

○ Tetsushi Iwasaki[1,2,3], Mami Onishi[2], Takeshi Fukumoto[4], Miwa Yamauchi[1], Zhu Liang[3], Ayano Itai[3], Masanobu Sakaguchi[5], Taiki Nagano[1], Shinji Kamada[1,2,3], Masahiro Oka[5]

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L-34 **Light-emitting-diode 585 nm photomodulation and the bio-functional skin care ingredients inhibiting melanin synthesis and inducing autophagy in human melanocytes**

○ Li Chen[1], Xianghong Yan[1,2], Min Jiang[1], Chengfeng Zhang[1], Leihong Flora Xiang[1]

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L-35 **Transposon mutagenesis screening identifies the coordination of JNK and P38 pathway critical for the resistance to BRAF inhibitor in melanoma**

○ Jin-Bon Hong[1,2], Tung-Lung Lee[1,2], Yi-Hua Liao[1], You-Tzung Chen[2]

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L-36 **Senescent fibroblasts regulate skin pigmentation**

○ Jung Eun Yoon[1], Hee Young Kang[2], Tae Jun Park[1]

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