



# Program



1st Day, December 9, Friday, 2016						
Room A	Room B	Room C	Room D	Poster Venue	Corporate Exhibition	
2F Main Hall	2F Tachibana	2F Hagi	2F Sakura	2F Exhibition Hall		
8:00						
8:30-12:00						
8:50-9:00 9:00-10:24	8:50-9:00 9:00-10:24	8:50-9:00 9:00-10:24				9:00-18:00
<b>Opening</b>	<b>Simultaneous Reporting (Room A)</b>					<b>Exhibition</b>
<b>Autoimmunity/Inflammation-I</b> 【C01-1~C01-7】 (N. Katoh, Y. Asano)	<b>Epidermal Structure and Function, Hair and Cutaneous Development-I</b> 【C02-1~C02-7】 (D. Tsuruta, M. Komine)	<b>Tissue Regeneration/ Stem Cell and Wound Healing</b> 【C03-1~C03-7】 (R. Okuyama, E. Nishimura)	<b>Pigmentation and Melanoma</b> 【C04-1~C04-7】 (T. Suzuki, T. Yamamoto, N. Haass)			
10:30-11:00						<b>Put up Posters</b>
<b>JSID Award Lecture</b> (S. Sato)						
11:00	11:00-11:05					<b>Simultaneous Reporting (Room A)</b> 10:30-12:35 <b>JSID Award Lecture</b> <b>JSID Kisaragi Award</b> <b>Plenary Session I</b>
<b>Plenary Session I</b> 【I-1~I-6】 (S. Sato, R. Gallo, M. Schmuth)	<b>JSID Kisaragi Award</b> Presenter: S. Sato					
12:00						<b>Poster Presentation</b> P.157
12:45-13:45	12:45-13:45	12:45-13:45	12:45-13:45			
<b>Luncheon Seminar 1</b> (S. Sato, M. Hasegawa) Tokai Pharmaceutical Co., Ltd.	<b>Luncheon Seminar 2</b> (S. Ikeda, K. Sayama) Mitsubishi Tanabe Pharma Corporation	<b>Luncheon Seminar 3</b> (H. Ihn) ONO PHARMACEUTICAL CO., LTD./Bristol-Myers Squibb K.K.				<b>Simultaneous Reporting (Room A)</b> 13:55-15:25 <b>JSID-Asia-Oceania-Forum 1</b> <b>Invited Lecture 1</b> <b>Invited Lecture 2</b>
13:00						
13:55-14:25	13:55-14:25	13:55-14:25				<b>Simultaneous Reporting (Room A)</b> 16:45-17:45 <b>The 17th Galderma Award Presentations by award winners and award ceremony</b>
<b>JSID-Asia-Oceania-Forum 1</b> Q. Lu (T. Kanekura)	<b>JSID-Asia-Oceania-Forum 2</b> Y. Cui (A. Morita)	<b>Simultaneous Reporting (Room B)</b>				
14:00						<b>Simultaneous Reporting (Room A)</b> 18:45-21:00 <b>Poster Discussion (Odd Number)</b> & <b>Welcome Reception</b>
<b>Invited Lecture 1</b> S. Koyasu (M. Amagai)						
14:25-14:55						<b>Award Ceremony</b> (S. Sato)
<b>Invited Lecture 2</b> Y. Aoki (D. Sawamura)						
14:55-15:25						<b>JSID's Fellowship Shiseido Research Grant</b> Presenter: S. Inomata <b>Diploma of Dermatological Scientist</b> Presenter: S. Sato <b>SID/JSID Young Fellow Collegiality Awards</b> Presenter: A. Pentland <b>ESDR/JSID Young Fellow Collegiality Awards</b> Presenter: M. Schmuth <b>ASDR/JSID Exchange Program</b> Presenter: N. K. Haass
15:00						
15:35-16:35	15:35-16:35	15:35-16:35				<b>One-minute presentation "Come to see my poster" 1</b> 【O1-01~O1-56】 (S. Motegi)
<b>Sweets Seminar 1</b> (I. Katayama, H. Yokozeki) Novartis Pharma K.K.	<b>Sweets Seminar 2</b> (S. Sato) POLA PHARMA INC.	<b>Sweets Seminar 3</b> (S. Shimada) AbbVie GK/Eisai Co., Ltd.				
16:00						<b>One-minute presentation "Come to see my poster" 2</b> 【O2-01~O2-58】 (W. Nishie)
16:45-17:45						
<b>The 17th Galderma Award Presentations by award winners and award ceremony</b> (M. Amagai, S. Sato, Y. Tokura) Galderma K.K./Maruho Co., Ltd						<b>One-minute presentation "Come to see my poster" 3</b> 【O3-01~O3-56】 (T. Honda)
17:00						
17:50-18:50	17:50-18:50	17:50-18:50				<b>Autoimmunity/Inflammation, Carcinogenesis/Growth Factors/ Signal Transduction/Cancer Genetics, Cell Adhesion/Matrix/ Vascular Biology, Late breaking abstract, Late breaking abstract</b>
<b>One-minute presentation "Come to see my poster" 1</b> 【O1-01~O1-56】 (S. Motegi)	<b>One-minute presentation "Come to see my poster" 2</b> 【O2-01~O2-58】 (W. Nishie)	<b>One-minute presentation "Come to see my poster" 3</b> 【O3-01~O3-56】 (T. Honda)				
18:00						<b>Human Clinical Research and Therapeutics, Epidermal Structure and Function, Epidemiology/Health Service Research, Genetic Disease/Gene Regulation and Gene Therapy, Tissue Regeneration/Stem Cell and Wound Healing, Late breaking abstract</b>
19:00						
19:00						<b>Hair and Cutaneous Development, Immunology 1: Adaptive Immunity, Immunology 2: Innate Immunity and Microbiology, Photobiology, Pigmentation and Melanoma, Late breaking abstract</b>
20:00						

## 2nd Day, December 10, Saturday, 2016

Room A		Room B		Room C		Room D		Poster Venue	Corporate Exhibition
2F Main Hall		2F Tachibana		2F Hagi		2F Sakura		2F Exhibition Hall	
8:00	8:00-8:50 <b>Morning Seminar 1</b> (Y. Tokura, K. Kabashima) <i>Eli Lilly Japan K.K./</i> <i>TORII PHARMACEUTICAL CO., LTD.</i>	8:00-8:50 <b>Morning Seminar 2</b> (R. Okuyama) <i>USHIO INC.</i>							
9:00	9:00-10:36 <b>Immunology 2: Innate Immunity and Microbiology</b> [C05-1~C05-8] (T. Kawamura, H. Takahashi, A. Di Nardo)	9:00-10:36 <b>Human Clinical Research and Therapeutics-I</b> [C06-1~C06-8] (T. Kanekura, M. Jinnin, Q. Lu)	9:00-10:36 <b>Epidermal Structure and Function, Hair and Cutaneous Development-II</b> [C07-1~C07-8] (M. Ohyama, A. Kubo, K. Khosrotehrani)	9:00-10:36 <b>Epidemiology/Health Service Research, Genetic Disease/Gene Regulation and Gene Therapy, Photobiology</b> [C08-1~C08-8] (A. Yamamoto, H. Ujije, J. H. Chung)				8:30-18:10 <b>Poster Presentation</b> P.157	8:30-18:00 <b>Exhibition</b>
11:00	10:40-11:10 <b>Tanioku Kihei Memorial Lecture</b> A. H. Enk (S. Aiba)							<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <b>Simultaneous Reporting (Room A)</b> 10:40-12:10 Tanioku Kihei Memorial Lecture Invited Lecture 3 Invited Lecture 4         </div>	
11:10	11:10-11:40 <b>Invited Lecture 3</b> M. Yamamoto (S. Aiba)								
12:00	11:40-12:10 <b>Invited Lecture 4</b> H. Saya (H. Ihn)								
13:00	12:20-13:20 <b>Luncheon Seminar 4</b> (K. Iwatsuki, T. Kanekura) <i>Maruho Co., Ltd./</i> <i>Novartis Pharma K.K.</i>	12:20-13:20 <b>Luncheon Seminar 5</b> (M. Ohtsuki) <i>Janssen Pharmaceutical K.K.</i>				12:20-14:20 <b>Luncheon Seminar 6</b> (K. Kabashima) <i>Sanofi K.K./</i> <i>Regeneron Pharmaceuticals, Inc.</i>			
14:00	13:30-14:00 <b>JSID-Asia-Oceania-Forum 3</b> H. Y. Kang (J. H. Chung)	13:30-14:00 <b>JSID-Asia-Oceania-Forum 4</b> J. B. Lee (S. C. Kim)	13:30-14:00 <b>Simultaneous Reporting (Room B)</b>					<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <b>Simultaneous Reporting (Room A)</b> 13:30-15:20 JSID-Asia-Oceania-Forum 3 Invited Lecture 5 Invited Lecture 6 Award Ceremony         </div>	
14:00	14:00-14:30 <b>Invited Lecture 5</b> Y. Yamaguchi (K. Sayama)								
15:00	14:30-15:00 <b>Invited Lecture 6</b> M. Fukuda (I. Katayama)								
15:00	15:00-15:20 <b>Award Ceremony</b>	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>JSID Honorary Membership</b> </div>							
16:00	15:30-16:30 <b>Sweets Seminar 4</b> (M. Fujimoto) <i>Mitsubishi Tanabe Pharma Corporation</i>	15:30-16:30 <b>Sweets Seminar 5</b> (Y. Okubo, T. Terui) <i>Kyowa Hakko Kirin Co., Ltd.</i>	15:30-16:30 <b>Sweets Seminar 6</b> (H. Uhara) <i>Novartis Pharma K.K.</i>						
17:00	16:40-18:10 <b>Plenary Session II</b> [II-1~II-6] (A. Morita, A. Pentland, M. Gilliet)							<div style="border: 1px solid black; padding: 5px;"> <b>Simultaneous Reporting (Room A)</b> 16:40-18:10 Plenary Session II         </div>	
18:00									
19:00							18:10-19:00 <b>Poster Discussion (Even Number)</b>		
20:00						19:00-21:00 <b>Social Gathering</b>			

Chair: ( )

### 3rd Day, December 11, Sunday, 2016

	Room A	Room B	Room C	Room D	Poster Venue	Corporate Exhibition
	2F Main Hall	2F Tachibana	2F Hagi	2F Sakura	2F Exhibition Hall	
8:00		8:00-8:40 <b>Morning Seminar 3</b> (S. Aiba) <i>Shiseido Co., Ltd.</i>	8:00-8:40 <b>Morning Seminar</b> organized by the 41JSID local committee (K. Kikuchi)		9:00-13:00 <b>Poster Presentation</b>	9:00-13:00 <b>Exhibition</b>
9:00	8:45-10:15 <b>Plenary Session III</b> [III-1~III-6] (M. Fujimoto, R. Hall, J. Bauer)				<div style="border: 1px solid black; padding: 5px;"> <b>Simultaneous Reporting (Room A)</b> 8:45-12:45  <b>Plenary Session III</b>  <b>LEO Foundation Awards 2016 in association with the JSID</b>  <b>Invited Lecture 7</b>  <b>Invited Lecture 8</b>  <b>JSID-Asia-Oceania-Forum 5</b> </div>	
10:00						
11:00	10:15-11:15 <b>LEO Foundation Awards 2016 in association with the JSID</b> (S. Sato, A. Morita) <i>LEO Foundation</i>					
12:00	11:15-11:45 <b>Invited Lecture 7</b> M. Dezawa (K. Tamai)					
	11:45-12:15 <b>Invited Lecture 8</b> Y. Kawakami (K. Iwatsuki)					
12:00	12:15-12:45 <b>JSID-Asia-Oceania-Forum 5</b> F. T. Liu (H. S. Yu)	12:15-12:45 <b>JSID-Asia-Oceania-Forum 6</b> K. Khosrotehrani (N. K. Haass)	12:15-12:45 <b>Simultaneous Reporting (Room B)</b>			
13:00	12:55-13:55 <b>Luncheon Seminar 7</b> (A. Yamamoto) <i>GlaxoSmithKline K.K.</i>	12:55-13:55 <b>Luncheon Seminar 8</b> (T. Suzuki, T. Yamamoto) <i>TAIHO PHARMACEUTICAL CO., LTD</i>	12:55-13:55 <b>Luncheon Seminar 9</b> (H. Torii, A. Asahina) <i>Janssen Pharmaceutical K.K.</i>		13:00-14:30 <b>Remove Posters</b>	
14:00	14:00-15:24 <b>Immunology 1: Adaptive Immunity</b> [C09-1~C09-7] (R. Abe, K. Kabashima, M. G. Lee)	14:00-15:24 <b>Autoimmunity/Inflammation-II</b> [C10-1~C10-7] (Y. Tokura, M. Hasegawa)	14:00-15:24 <b>Human Clinical Research and Therapeutics-II</b> [C11-1~C11-7] (H. Asada, T. Kawakami)	14:00-15:24 <b>Carcinogenesis/Growth Factors/Signal Transduction/Cancer Genetics</b> [C12-1~C12-7] (K. Sayama, K. Takahashi, F. T. Liu)		
15:00	15:24-15:35 <b>Closing Remarks</b>	15:24-15:35 <b>Simultaneous Reporting (Room A)</b>				
16:00						
17:00						
18:00						
19:00						
20:00						

Chair: ( )

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## December 9, 2016, Room A

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### Concurrent Oral Session 1 (Autoimmunity/Inflammation-I)

9:00-10:24

Chairs: Norito Katoh, Yoshihide Asano

- C01-1 [P01-05]**  
9:00-9:12  
**C-terminal cleavage of collagen XVII induces neoepitopes which can be recognized by autoantibodies of linear IgA bullous dermatosis**  
○ Ellen Toyonaga, Wataru Nishie, Kentaro Izumi, Hideyuki Ujiie, Hiroshi Shimizu  
Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan
- C01-2 [P01-08]**  
9:12-9:24  
**Immunomodulatory effects of periostin on CD163+ skin-resident macrophages in pemphigus vulgaris and bullous pemphigoid.**  
○ Kayo Tanita, Taku Fujimura, Aya Kakizaki, Sadanori Furudate, Setsuya Aiba  
The Department of Dermatology, Tohoku university Graduate School of Medicine, Sendai, Japan
- C01-3 [P01-12]**  
9:24-9:36  
**Intravenous immunoglobulin suppresses disease activity in mouse models of bullous pemphigoid**  
○ Hideyuki Ujiie<sup>1</sup>, Tetsumasa Sasaoka<sup>1,2</sup>, Wataru Nishie<sup>1</sup>, Ken Natsuga<sup>1</sup>, Satoru Shinkuma<sup>1</sup>, Hiroshi Shimizu<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, <sup>2</sup>Pharmaceutical Research Laboratory, Nihon Pharmaceutical Co. Ltd., Narita, Chiba, Japan
- C01-4 [P01-06]**  
9:36-9:48  
**Essential requirement for interferon regulatory factor 7 in autoantibody production but not development of nephritis in murine lupus**  
○ Fumi Miyagawa, Hideo Asada  
Department of Dermatology, Nara Medical University, Nara, Japan
- C01-5 [P01-17]**  
9:48-10:00  
**Inhibitory regulation of MFG-E8 on fibrosis in systemic sclerosis**  
○ Chisako Fujiwara, Akihito Uehara, Yoko Yokoyama, Akihiko Uchiyama, Akiko Sekiguchi, Sachiko Ogino, Osamu Ishikawa, Sei-ichiro Motegi  
Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi, Gunma, Japan
- C01-6 [P01-10]**  
10:00-10:12  
**Cyclophosphamide improves vascular abnormalities in endothelial cell-specific *Fli1* knockout mice mimicking scleroderma-related vasculopathy**  
○ Takashi Yamashita<sup>1</sup>, Yoshihide Asano<sup>1</sup>, Takuya Miyagawa<sup>1</sup>, Megumi Hirabayashi<sup>1</sup>, Kouki Nakamura<sup>1</sup>, Ryosuke Saigusa<sup>1</sup>, Tetsuo Toyama<sup>1,2</sup>, Takehiro Takahashi<sup>1</sup>, Yohei Ichimura<sup>1</sup>, Takashi Taniguchi<sup>1</sup>, Ayumi Yoshizaki<sup>1</sup>, Maria Trojanowska<sup>2</sup>, Shinichi Sato<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, University of Tokyo, Tokyo, Japan, <sup>2</sup>Arthritis Center, Boston University School of Medicine, Boston, MA, USA.
- C01-7 [P01-18]**  
10:12-10:24  
**Single B cell analysis can reveal distinct cytokine profile of autoreactive B cells in systemic sclerosis**  
○ Takemichi Fukasawa<sup>1</sup>, Ayumi Yoshizaki<sup>1</sup>, Satoshi Toyama<sup>1</sup>, Satoshi Ebata<sup>1</sup>, Kouki Nakamura<sup>1</sup>, Ryosuke Saigusa<sup>1</sup>, Takashi Yamashita<sup>1</sup>, Yohei Ichimura<sup>1</sup>, Takehiro Takahashi<sup>1</sup>, Takashi Taniguchi<sup>1</sup>, Yoshihide Asano<sup>1</sup>, Yutaka Kazoe<sup>2</sup>, Kazuma Mawatari<sup>2</sup>, Takehiko Kitamori<sup>2</sup>, Shinichi Sato<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, University of Tokyo, Tokyo, Japan, <sup>2</sup>The Department of Applied Chemistry, University of Tokyo, Tokyo, Japan

### JSID Award Lecture

10:30-11:00

Chair and Presenter: Shinichi Sato

**JAL      The Deficiency of Transcription Factor *Fli1*:  
A Critical Predisposing Factor in The Development of Systemic Sclerosis**

○ Yoshihide Asano  
Department of Dermatology, University of Tokyo Graduate School of Medicine

### JSID Kisaragi Award

11:00-11:05

Presenter: Shinichi Sato

**The role of basement membrane proteins in regulating epidermal homeostasis**

○ Mika Watanabe  
Department of Dermatology, Hokkaido University Graduate School of Medicine

## Plenary Session I

11:05-12:35

Chairs: Shinichi Sato, Richard Gallo, Matthias Schmuth

**I-1**  
**[P02-01]**  
11:05-11:20

### **Mechanistic insight into the ATP-induced fibrosis in systemic sclerosis**

○ Buddhini Perera, Akihiko Uchiyama, Akihito Uehara, Kazuya Yamada, Sachiko Ogino, Yoko Yokoyama, Osamu Ishikawa, Sei-ichiro Motegi  
Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi, Gunma, Japan

**I-2**  
**[P03-01]**  
11:20-11:35

### **p38MAPK contributes to loss of cell adhesion through clustering of desmoglein 1 but is not required for blistering in pemphigus foliaceus.**

○ Kenji Yoshida<sup>1,4</sup>, Ken Ishii<sup>1</sup>, Atsushi Shimizu<sup>1</sup>, Mariko Yokouchi<sup>2</sup>, Masayuki Amagai<sup>2</sup>, John R. Stanley<sup>3</sup>, Akira Ishiko<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, Toho University School of Medicine, Tokyo, Japan, <sup>2</sup>The Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, <sup>3</sup>The Department of Dermatology, University of Pennsylvania, Philadelphia, PA, USA, <sup>4</sup>The Department of Dermatology, Japan Community Health care Organization Tokyo Takanawa Hospital, Tokyo, Japan

**I-3**  
**[P10-01]**  
11:35-11:50

### **Dual aspects of B cells in tumor immunity; B cells are capable of positive and negative regulation for tumor immunity against B16 melanoma**

○ Tadahiro Kobayashi<sup>1</sup>, Takashi Matsushita<sup>1</sup>, Yasuhiro Hamaguchi<sup>1</sup>, Minoru Hasegawa<sup>2</sup>, Manabu Fujimoto<sup>3</sup>, Kazuhiko Takehara<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Faculty of Medicine, Institute of Medical, Pharmaceutical, and Health Sciences, Kanazawa University, Ishikawa, Japan, <sup>2</sup>Dermatology, University of Fukui, Fukui, Japan, <sup>3</sup>Dermatology, University of Tsukuba, Tsukuba, Japan

**I-4**  
**[P04-03]**  
11:50-12:05

### **Oral cancer treatment by targeted drug delivery system with an anti-desmoglein monoclonal antibody**

○ Michiyoshi Kouno<sup>1</sup>, Masaki Minabe<sup>2</sup>, Tetsuhiko Tachikawa<sup>3</sup>, John R. Stanley<sup>4</sup>  
<sup>1</sup>Department of Dermatology, Tokyo Dental College Ichikawa General hospital, Chiba, Japan, <sup>2</sup>Department of Oral Medicine, Tokyo Dental College Ichikawa General hospital, Chiba, Japan, <sup>3</sup>Division of Molecular Diagnosis and Cancer Prevention, Saitama Cancer Center, Saitama, Japan, <sup>4</sup>Department of Dermatology, University of Pennsylvania, Philadelphia, PA

**I-5**  
**[P04-02]**  
12:05-12:20

### **A novel small compound that antagonizes TGF- $\beta$ /Smad signaling ameliorates bleomycin-induced skin fibrosis**

○ Vu H. Luong<sup>1</sup>, Takenao Chino<sup>1</sup>, Atsushi Tokuriki<sup>1</sup>, Noritaka Oyama<sup>1</sup>, Yoko Sasaki<sup>2</sup>, Dai Ogura<sup>2</sup>, Sinichiro Niwa<sup>2</sup>, Mikako Fujita<sup>3</sup>, Yoshinari Okamoto<sup>4</sup>, Masami Otsuka<sup>4</sup>, Hironobu Ihn<sup>5</sup>, Minoru Hasegawa<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Fukui Univ., <sup>2</sup>Link Genomics, Co., Ltd., <sup>3</sup>Center for Drug Discovery, Kumamoto Univ., <sup>4</sup>Department of Bioorganic Medicinal Chemistry, Kumamoto Univ., <sup>5</sup>Department of Dermatology and Plastic Surgery, Kumamoto Univ.

**I-6**  
**[P04-01]**  
12:20-12:35

### **IL-10-producing regulatory B cells are decreased in patients with atopic dermatitis and are inversely correlated with disease severity.**

○ Yuki Yoshihara, Koichi Yanaba, Mitsuha Hayashi, Miki Chiba, Yozo Ishiuchi, Takaoki Ishiji, Hidemi Nakagawa  
The Jikei University School of Medicine, Department of Dermatology, Tokyo, Japan

## Luncheon Seminar 1

### "Skin barrier and cutaneous immunity"

12:45-13:45

Chairs: Shinichi Sato, Minoru Hasegawa

**LS1-1**      **Epidermal barrier homeostasis and its breakage in skin diseases**

○ Akiharu Kubo  
Department of Dermatology, Keio University School of Medicine

**LS1-2**      **Atopic march prevention and epidermal barrier protection**

○ Yukihiro Ohya  
Division of Allergy, National Center for Child Health and Development

Co-sponsored by Tokiwa Pharmaceutical Co., Ltd.

## JSID-Asia-Oceania-Forum 1

13:55-14:25

Chair: Takuro Kanekura

**JAOF1**      **RFX1 contributes to Immune Dysfunction in Lupus through Epigenetic Changes**

○ Qianjin Lu  
Department of Dermatology, The Second Xiangya Hospital, Central South University, Hunan Key Laboratory of Medical Epigenetics, Changsha, Hunan, China

## Invited Lecture 1

14:25-14:55

Chair: Masayuki Amagai

### IL1 Innate lymphoid cells and inflammation

○ Shigeo Koyasu<sup>1</sup>, Hiroki Kabata<sup>1,2,3</sup>, Kazuyo Moro<sup>2</sup>

<sup>1</sup>Laboratory for Immune Cell Systems, <sup>2</sup>Laboratory for Innate Immune Systems, RIKEN Center for Integrative Medical Sciences, <sup>3</sup>Division of Pulmonary Medicine, Department of Medicine, Keio University School of Medicine

## Invited Lecture 2

14:55-15:25

Chair: Daisuke Sawamura

### IL2 RASopathies: genetic syndromes associated with the Ras/MAPK pathway

○ Yoko Aoki

Department of Medical Genetics, Tohoku University School of Medicine, Sendai, Japan

## Sweets Seminar 1

### "New Perspectives on Chronic Urticaria"

15:35-16:35

Chairs: Ichiro Katayama, Hiroo Yokozeki

#### SS1-1 Burden of Chronic Spontaneous Urticaria on patients in Japan

○ Michihiro Hide

Department of Dermatology, Hiroshima University

#### SS1-2 Emerging roles of basophils in allergy and immunity

○ Hajime Karasuyama

Department of Immune Regulation, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU)

Co-sponsored by Novartis Pharma K.K.

## The 17th Galderma Award Presentations by award winners and award ceremony

16:45-17:45

Chairs: Masayuki Amagai, Shinichi Sato, Yoshiki Tokura

#### GAW1 Adiponectin regulates psoriasiform skin inflammation by suppressing IL-17 production from $\gamma\delta$ -T cells

○ Sayaka Shibata, Yayoi Tada, Shinichi Sato

Department of Dermatology, University of Tokyo Graduate School of Medicine

#### GAW2 Protective Effect of MFG-E8 After Cutaneous Ischemia-reperfusion Injury

○ Akihiko Uchiyama, Kazuya Yamada, Buddhini Perera, Sachiko Ogino, Yoko Yokoyama, Yuko Takeuchi, Osamu Ishikawa, Sei-ichiro Motegi

Laboratory of Skin Biology, NIAMS, NIH, Bethesda, MD, USA

#### GAW3 EBI3 downregulation contributes to type I collagen overexpression in scleroderma skin

○ Hideo Kudo, Zhongzhi Wang, Masatoshi Jinnin, Hironobu Ihn

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

#### GAW4 Acral lentiginous melanoma: Who benefits from sentinel lymph node biopsy?

○ Takamichi Ito<sup>1</sup>, Maiko Wada<sup>1</sup>, Konosuke Nagae<sup>1</sup>, Misa Nakano-Nakamura<sup>1</sup>, Takeshi Nakahara<sup>1</sup>, Akihito Hagihara<sup>2</sup>, Masutaka Furue<sup>1</sup>, Hiroshi Uchi<sup>1</sup>

<sup>1</sup>Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan, <sup>2</sup>Department of Health Services Management and Policy, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan

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

# One-minute presentation "Come to see my poster" 1 (Autoimmunity/Inflammation, Carcinogenesis/Growth Factors/Signal Transduction/Cancer Genetics, Cell Adhesion/Matrix/Vascular Biology, Late breaking abstract)

17:50-18:50

Chair: Sei-ichiro Motegi

- O1-01 [P01-19] Efficacy and Safety of Apremilast in Japanese Patients With Moderate to Severe Psoriasis: 68-Week Results From a Phase 2b Randomized Trial**  
○ Mayumi Komine<sup>1</sup>, Mamitaro Ohtsuki<sup>1</sup>, Yukari Okubo<sup>2</sup>, Shinichi Imafuku<sup>3</sup>, Robert M. Day<sup>4</sup>, Peng Chen<sup>4</sup>, Allan Maroli<sup>4</sup>, Osamu Nemoto<sup>5</sup>  
<sup>1</sup>Jichi Medical University, <sup>2</sup>Tokyo Medical University, <sup>3</sup>Fukuoka University, <sup>4</sup>Celgene Corporation, <sup>5</sup>Kojinkai Sapporo Skin Clinic
- O1-02 [P01-20] Binding Affinity and Interaction of LL-37 with *HLA-C\*06:02* in Psoriasis**  
○ Tomotaka Mabuchi<sup>1</sup>, Noriaki Hirayama<sup>2</sup>  
<sup>1</sup>Department of Dermatology, Tokai University School of Medicine, Kanagawa, Japan, <sup>2</sup>Institute of Advanced Biosciences, Tokai University, Kanagawa, Japan
- O1-03 [P01-21] GMA decreases serum pro-inflammatory cytokines and increases frequency of peripheral MDSCs in patients with neutrophilic dermatoses**  
○ Masanao Sakanoue, Yuko Higashi, Takuro Kanekura  
The Department of Dermatology, University of Kagoshima, Kagoshima, Japan
- O1-04 [P01-22] Involvement of opioid systems in itch-related behavior of imiquimod-induced psoriasis-like dermatitis model**  
○ Nobuaki Takahashi<sup>1</sup>, Mitsutoshi Tominaga<sup>1</sup>, Yayoi Kamata<sup>1</sup>, Yoshie Umehara<sup>1</sup>, Hironori Matsuda<sup>1</sup>, Yasushi Suga<sup>2</sup>, Hideoki Ogawa<sup>1</sup>, Kenji Takamori<sup>1,2</sup>  
<sup>1</sup>Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, Japan, <sup>2</sup>Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan
- O1-05 [P01-23] Enhanced phosphorylation of Janus kinase 1 in Nakajo-Nishimura syndrome**  
○ Yutaka Inaba, Yumi Nakatani, Kayo Kunimoto, Fukumi Furukawa, Nobuo Kanazawa  
Department of Dermatology, Wakayama Medical University
- O1-06 [P01-24] Combinational effects of maxacalcitol and betamethasone butyrate propionate on imiquimod-induced psoriasis-like dermatitis in mice**  
○ Kei Hashimoto, Hideya Uratsuji, Yoshihito Yamada, Takamichi Kitano, Yusuke Kumagai, Tatsumi Matsumoto  
Pharmacological Research Group, Drug Development Laboratories, Maruho Co., Ltd.
- O1-07 [P01-25] Dissecting the mechanism of itch induced by sorafenib—can sorafenib effect on mast cells?—**  
○ Yukari Mizukami, Koji Sugawara, Daisuke Tsuruta  
Department of Dermatology, Osaka City University Graduate School of Medicine, Osaka, Japan
- O1-08 [P01-26] Role of sulfated cholecystokinin 8 in spinal itch transmission.**  
○ Fumiya Kusube<sup>1</sup>, Mitsutoshi Tominaga<sup>1</sup>, Hiroaki Kawasaki<sup>1</sup>, Fumiyuki Yamakura<sup>3</sup>, Hisashi Naito<sup>4</sup>, Hideki Ogawa<sup>1</sup>, Yasuhiro Tomooka<sup>2,5</sup>, Kenji Takamori<sup>3</sup>  
<sup>1</sup>Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, Japan, <sup>2</sup>Department of Biological Science and Technology, Faculty of Industrial Science and Technology, Tokyo University of Science, Tokyo, Japan, <sup>3</sup>Juntendo University School of Health Care and Nursing, Chiba, Japan, <sup>4</sup>Institute of Health and Sports Science & Medicine, Juntendo University, Chiba, Japan, <sup>5</sup>Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan
- O1-09 [P01-27] Correlation analysis among plasma granzyme B level, pruritus and severity score in patients with atopic dermatitis**  
○ Yayoi Kamata<sup>1</sup>, Utako Kimura<sup>2</sup>, Hironori Matsuda<sup>1</sup>, Suhandy Tenggara<sup>1</sup>, Yasushi Suga<sup>2</sup>, Hideoki Ogawa<sup>1</sup>, Mitsutoshi Tominaga<sup>1</sup>, Kenji Takamori<sup>1,2</sup>  
<sup>1</sup>Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, Japan, <sup>2</sup>Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan
- O1-10 [P01-28][SE] The ex vivo-induced regulatory B cells ameliorate tissue fibrosis and autoimmunity via an anti-oxidative effect in systemic sclerosis**  
○ Ayumi Yoshizaki, Takemichi Fukasawa, Satoshi Ebata, Shinichi Sato  
Department of Dermatology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, Tokyo, Japan
- O1-11 [P01-29] Therapeutic and immunomodulatory effects of adipose-derived stromal cells on psoriasis animal model**  
○ Yasushi Matsuzaki, Akiko Rokunohe, Daiki Rokunohe, Eiko Makita, Hajime Nakano, Daisuke Sawamura  
Department of Dermatology, Hirosaki University Graduate School of Medicine, Hirosaki, Japan



- O1-12 [P01-30]  $\alpha$ 2AP regulates vascular alteration by inhibiting VEGF signaling in systemic sclerosis**  
 ○ Yosuke Kanno<sup>1</sup>, En Shu<sup>2</sup>, Hiroyuki Kanoh<sup>2</sup>, Ayaka Matsuda<sup>1</sup>, Mariko Seishima<sup>2</sup>  
<sup>1</sup>Doshisha Women Collage of Liberal Arts, <sup>2</sup>Gifu University Graduate School of Medicine
- O1-13 [P01-31] Serum lipocalin-2 is a potential biomarker for pruritus in patients with psoriasis**  
 ○ Mitsutoshi Tominaga<sup>1</sup>, Nobuaki Takahashi<sup>1</sup>, Utako Kimura<sup>2</sup>, Yayoi Kamata<sup>1</sup>, Yoshie Umehara<sup>1</sup>, Yasushi Suga<sup>2</sup>, Hideoki Ogawa<sup>1</sup>, Kenji Takamori<sup>1,2</sup>  
<sup>1</sup>Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, Japan, <sup>2</sup>Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan
- O1-14 [P01-32] Decreased IL-10-producing B cell level in patients with pemphigus but not with pemphigoid**  
 ○ Miho Kabuto, Noriki Fujimoto, Toshifumi Takahashi, Takeshi Nakanishi, Toshihiro Tanaka  
 Department of Dermatology, Shiga University of Medical Science, Shiga, Japan
- O1-15 [P01-33] Dimethylhonokiol inhibits PDE4 activity that impedes neutrophil activation and protects against imiquimod-induced psoriasis**  
 ○ Tsong-Long Hwang  
 College of Human Ecology, Chang Gung University of Science and Technology, Taiwan
- O1-16 [P01-34] Comparative study of cutaneous adverse reactions induced by a proteasome inhibitor with skin eruptions in Nakajo-Nishimura syndrome**  
 ○ Kayo Kunimoto<sup>1</sup>, Nobuo Kanazawa<sup>1</sup>, Fukumi Furukawa<sup>1</sup>, Keiko Manabe<sup>2</sup>, Kenji Asagoe<sup>2</sup>, Osamu Yamasaki<sup>3</sup>, Takeshi Kabahara<sup>4</sup>, Miwa Kanaoka<sup>5</sup>, Michiko Aihara<sup>5</sup>, Yuichi Teraki<sup>6</sup>, Seiichi Izaki<sup>6</sup>, Ryuhei Okuyama<sup>7</sup>, Toshiyuki Yamamoto<sup>8</sup>, John Hanna<sup>9</sup>  
<sup>1</sup>The Department of Dermatology, Wakayama Medical University, Wakayama, Japan, <sup>2</sup>Department of Dermatology, National Hospital Organization Okayama Medical Center, Okayama, Japan, <sup>3</sup>Department of Dermatology, Okayama University, Okayama, Japan, <sup>4</sup>Department of Dermatology, Yokohama City University Medical Center, Yokohama, Japan, <sup>5</sup>Department of Dermatology, Yokohama City University School of Medicine, Yokohama, Japan, <sup>6</sup>Department of Dermatology, Saitama Medical Center, Saitama, Japan, <sup>7</sup>Department of Dermatology, Shinsyu University, Nagano, Japan, <sup>8</sup>Department of Dermatology, Fukushima Medical University, Fukushima, Japan, <sup>9</sup>Department of Pathology, Brigham and Women's Hospital, Boston, USA
- O1-17 [P01-35] Inhibitory role of A20 on inflammatory reaction of epidermal keratinocytes**  
 ○ Chang Deok Kim, Kyung-Cheol Sohn, Seung Ju Back, Sue Jeong Kim, Dae-Kyoung Choi, Jung-Min Shin, Myung Im, Young Lee, Young-Joon Seo, Jeung-Hoon Lee  
 Department of Dermatology, Chungnam National University, Daejeon, Korea
- O1-18 [P01-36] Protease allergen and tape-stripping cooperatively promote epidermal barrier dysfunction and proinflammatory gene expression in mice**  
 ○ Punyada Suchiva<sup>1,2</sup>, Toshiro Takai<sup>2</sup>, Hideo Iida<sup>1,2</sup>, Sakiko Shimura<sup>1,2</sup>, Hirono Ochi<sup>1,2</sup>, Izumi Nishioka<sup>1,2</sup>, Shigaku Ikeda<sup>1,2</sup>, Hideoki Ogawa<sup>1,2</sup>  
<sup>1</sup>Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, Japan, <sup>2</sup>Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan
- O1-19 [P01-37] IgE-independent pathophysiology of severe atopic dermatitis demonstrated in an IgE-deficient patient**  
 ○ Yasushi Ogawa, Michihiro Kono, Mina Tsujikawa, Hiromi Tsujiuchi, Masashi Akiyama  
 Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan
- O1-20 [P01-38] Role of autophagy in bleomycin-induced murine scleroderma**  
 ○ Tatsuhiko Mori, Toshiyuki Yamamoto  
 The Department of Dermatology, Fukushima Medical University, Fukushima, Japan
- O1-21 [P01-39] Localization of IgG against *D. farina*-tropomyosin in dorsal root ganglia of NC/Nga mice with atopic dermatitis-like symptoms**  
 ○ Ayaka Otsu<sup>1,2</sup>, Hiroaki Kawasaki<sup>1</sup>, Mitsutoshi Tominaga<sup>1</sup>, Ayako Shigenaga<sup>3</sup>, Kyoichi Iizumi<sup>1</sup>, Takeshi Baba<sup>4</sup>, Hisashi Naito<sup>3</sup>, Hideoki Ogawa<sup>1</sup>, Tadaaki Nakajima<sup>2</sup>, Yasuhiro Tomooka<sup>2</sup>, Fumiyuki Yamakura<sup>5</sup>, Kenji Takamori<sup>1,6</sup>  
<sup>1</sup>Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, Japan, <sup>2</sup>Department of Biological Science and Technology, Faculty of Industrial Science and Technology, Tokyo University of Science, Tokyo, Japan, <sup>3</sup>Institute of Health and Sports Science & Medicine, Juntendo University, Chiba, Japan, <sup>4</sup>Juntendo University School of Medicine, Chiba, Japan, <sup>5</sup>Juntendo University Faculty of International Liberal Arts, Tokyo, Japan, <sup>6</sup>Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan
- O1-22 [P01-40] Reduction of long-chain fatty acid ceramides in dermatitis caused by repeated exposure to house-dust mite in NC/Nga mice**  
 ○ Hiroyuki Kanoh<sup>1</sup>, Asako Ishitsuka<sup>1</sup>, Etsuko Fujine<sup>1</sup>, Mitsuhiro Nakamura<sup>2</sup>, Shuhei Matsuhaba<sup>3</sup>, Naoki Inagaki<sup>3</sup>, Yoshiko Banno<sup>1</sup>, Mariko Seishima<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Gifu University, Gifu, Japan, <sup>2</sup>Laboratory of Drug Informatics, Gifu Pharmaceutical University, Gifu, Japan, <sup>3</sup>Laboratory of Pharmacology, Gifu Pharmaceutical University, Gifu, Japan

- O1-23 [P01-41] The role of ATP-stimulated three-dimensional normal human epidermal keratinocytes in skin inflammation revealed by DNA microarray analysis**  
○ Hiroshi Ohara<sup>1</sup>, Rumiko Saito<sup>2</sup>  
<sup>1</sup>Department of Clinical Pharmacy, School of Pharmaceutical Sciences, Ohu University of Fukushima, Japan, <sup>2</sup>Department of Integrative Genomics, Tohoku Medical Megabank Organization, Tohoku University
- O1-24 [P01-42] Toll-like receptor 3 increases chronic contact hypersensitivity induced by repeated application of hapten**  
○ Risa Yasuike<sup>1</sup>, Risa Tamagawa-Mineoka<sup>1</sup>, Mayumi Ueta<sup>2</sup>, Naomi Nakamura<sup>1</sup>, Shigeru Kinoshita<sup>2</sup>, Norito Katoh<sup>1</sup>  
<sup>1</sup>The Departments of Dermatology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Kyoto, Japan, <sup>2</sup>The Departments of Frontier Medical Science and Technology for Ophthalmology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Kyoto, Japan
- O1-25 [P01-43] Impact of nicotine treatment on cultured human sweat gland cells.**  
○ Mari Kishibe<sup>1</sup>, Masamoto Murakami<sup>2</sup>, Takuro Kurosu<sup>1</sup>, Takashi Shibuya<sup>1</sup>, Nao Saito<sup>1</sup>, Saomi Igawa<sup>1</sup>, Jiro Uehara<sup>1</sup>, Masaru Honma<sup>1</sup>, Katherine A Radek<sup>1</sup>, Akemi Ishida-Yamamoto<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Asahikawa Medical University, Hokkaido, Japan, <sup>2</sup>Department of Dermatology, Ehime University Graduate School of Medicine, Ehime, Japan, <sup>3</sup>Department of Surgery, Burn Shock and Trauma Institute, Health Science Division, Loyola University Chicago, Maywood, USA
- O1-26 [P01-44] The anti-inflammatory effects of potassium iodide in SDS-induced inflammatory murine skin**  
○ Shujiro Hayashi, Yoichiro Hamasaki, Atsushi Hatamochi  
Department of Dermatology, Dokkyo Medical University, School of Medicine, Mibu, Tochigi, Japan
- O1-27 [P01-45] The Therapeutic Potential and Molecular Mechanism of Isoflavone Extracts on Anti-Psoriatic Activity**  
○ Chi-Feng Hung<sup>1</sup>, Hsin-Ju Li<sup>2</sup>  
<sup>1</sup>School of Medicine, Fu Jen Catholic University, New Taipei City, Taiwan, <sup>2</sup>Department of Chemistry, Fu Jen Catholic University, New Taipei City, Taiwan
- O1-28 [P01-46] A case of bullous pemphigoid which shows negative serum anti-BP180 antibody by commercial ELISA**  
○ Tie Duerna, Tokiko Yoshida, Yuko Chinuki, Eishin Morita  
The Department of Dermatology, Shimane University Faculty of Medicine, Izumo, Shimane, Japan.
- O1-29 [P01-47] Lactobacillus pentosus GMNL-77 Inhibits Skin Lesions in Imiquimod-Induced Psoriasis-Like Mice**  
○ Chieh-Shan Wu<sup>1</sup>, Wen-Ho Chuo<sup>2</sup>, Yi-Hsing Chen<sup>3</sup>, Ya-Husan Chao<sup>3</sup>, Chi-Chen Lin<sup>3,4</sup>, Yi-Rong Li<sup>4</sup>, Wan-Hua Tsai<sup>5</sup>, Yu-Kuo Chen<sup>6</sup>  
<sup>1</sup>Department of Dermatology, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan, <sup>2</sup>Department of Pharmacy, Tajen University, Pingtung, Taiwan, <sup>3</sup>Institute of Biomedical Science, National Chung-Hsing University, Taichung, Taiwan, <sup>4</sup>Department of Medical Research and Education, Taichung Veterans General Hospital, Taichung, Taiwan, <sup>5</sup>Research and Development Department, GenMont Biotech Incorporation, Taiwan, <sup>6</sup>Department of Food Science, National Pintung University of Science and Technology, Pintung, Taiwan
- O1-30 [P01-48] The Therapeutic Potential and Molecular Mechanism of Flavonoid HCF-A on Inflammatory Skin Diseases**  
○ Hsin-Ju Li<sup>1</sup>, Chi-Feng Hung<sup>2</sup>  
<sup>1</sup>Department of Chemistry, Fu Jen Catholic University, New Taipei City, Taiwan, <sup>2</sup>School of Medicine, Fu Jen Catholic University, New Taipei City, Taiwan
- O1-31 [P02-09] Novel role of ASC as a regulator of metastatic phenotype**  
○ Nagisa Okada<sup>1,2</sup>, Chifumi Fujii<sup>2,3</sup>, Tomio Matsumura<sup>2</sup>, Masato Kitazawa<sup>2,4</sup>, Shunichiro Taniguchi<sup>2,5</sup>, Shigeaki Hida<sup>6</sup>, Hisashi Uhara<sup>1</sup>, Ryuhei Okuyama<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Shinshu University, Matsumoto, Japan, <sup>2</sup>Department of Molecular Oncology, Institute of Pathogenesis and Disease Prevention, Graduate School of Medicine, Shinshu University, Matsumoto, Japan, <sup>3</sup>Department of Advanced Medicine for Health Promotion, Institute for Biomedical Sciences, Interdisciplinary Cluster for Cutting Edge Research, Shinshu University, Matsumoto, Japan, <sup>4</sup>Department of Surgery, School of Medicine, Shinshu University, Matsumoto, Japan, <sup>5</sup>Department of Comprehensive Cancer Therapy, School of Medicine, Shinshu University, Matsumoto, Japan, <sup>6</sup>Department of Molecular and Cellular Health Science, Graduate School of Pharmaceutical Sciences, Nagoya City University, Nagoya, Japan
- O1-32 [P02-10] Strong FGF1 signaling inhibits the proliferative and invasive capability of murine angiosarcoma cell line ISOS-1**  
○ Fumiaki Nakayama<sup>1</sup>, Sachiko Umeda<sup>1</sup>, Mayumi Fujita<sup>1</sup>, Takeshi Yasuda<sup>1</sup>, Kaori Imadome<sup>1</sup>, Mitsuko Kawano<sup>1</sup>, Sachiko Koike<sup>2</sup>, Mikio Masuzawa<sup>3</sup>, Takashi Imai<sup>4</sup>  
<sup>1</sup>Department of Basic Medical Sciences for Radiation Damages, National Institute of Radiological Sciences (NIRS), Chiba, Japan, <sup>2</sup>Department of Accelerator and Medical Physics, National Institute of Radiological Sciences (NIRS), Chiba, Japan, <sup>3</sup>Department of Molecular Diagnostics, School of Allied Health Sciences, Kitasato University, Sagamihara, Japan, <sup>4</sup>Medical Databank Section, NIRS Hospital, National Institute of Radiological Sciences (NIRS), Chiba, Japan
- O1-33 [P02-11] IL-33 plays a role in HB-EGF-mediated keratinocyte migration via controlling STAT3 activation**  
○ Xiuju Dai, Ken Shiraishi, Mikiko Tohyama, Masamoto Murakami, Koji Sayama  
The Department of Dermatology, Ehime University Graduate School of Medicine, Ehime, Japan
- O1-34 [P02-12] Aberrant expression of activation-induced cytidine deaminase in the epidermis induces skin cancer**  
○ Kazutoshi Harada<sup>1,2</sup>, Takashi Inozume<sup>2</sup>, Tatsuo Maeda<sup>1</sup>, Shinji Shimada<sup>2</sup>, Ryoji Tsuboi<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Tokyo Medical University, Tokyo, Japan, <sup>2</sup>Department of Dermatology, Faculty of Medicine, University of Yamanashi, Yamanashi, Japan

- O1-35 [P02-13] Regulation of endothelial cell proliferation of infantile hemangioma through mTORC2 and NDRG1 signaling pathways**  
 ○ Ji Won Byun<sup>1</sup>, Hyo Jin Kim<sup>1</sup>, Seung Dohn Yeom<sup>1</sup>, Heon Joo Park<sup>2</sup>  
<sup>1</sup>Department of Dermatology, Inha University School of Medicine, Incheon, South KOREA, <sup>2</sup>Hypoxia-related Disease Research Center and Department of Microbiology, School of Medicine, Inha University, Incheon, South KOREA
- O1-36 [P02-14] The role of High-mobility group box 1 (HMGB1) in Angiosarcoma**  
 ○ Takashi Ueda, Masuzawa Mamiko, Yuko Hamada, Noriko Nemoto, Yasuyuki Amoh  
 Department of Dermatology, Kitasato University School of Medicine, Kanagawa, Japan
- O1-37 [P02-15] Immunomodulatory effects of classical chemotherapeutic agents for melanoma on M2 macrophages**  
 ○ Yumi Kambayashi, Taku Fujimura, Aya Kakizaki, Sadanori Furudate, Setsuya Aiba  
 The Department of Dermatology, Tohoku University Graduate School of Medicine
- O1-38 [P02-16] Smurfs E3 ubiquitin ligases negatively regulate TGF- $\beta$  signaling in keratinocytes**  
 ○ Ken Shiraishi<sup>1</sup>, Masamoto Murakami<sup>1</sup>, Mikiko Tohyama<sup>1</sup>, Xiuju Dai<sup>1</sup>, Takeshi Imamura<sup>2</sup>, Koji Sayama<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Ehime University Graduate School of Medicine, Ehime, Japan, <sup>2</sup>Department of Molecular Medicine for Pathogenesis, Ehime University Graduate School of Medicine, Ehime, Japan
- O1-39 [P02-17] Immunological background of mycosis fungoides develops from inflammatory to steady states.**  
 ○ Sadanori Furudate, Taku Fujimura, Aya Kakizaki, Setsuya Aiba  
 The Department of Dermatology, Tohoku university graduate school of medicine, Sendai, Japan
- O1-40 [P02-18] Sox9 is a  $\beta$ -catenin-regulated transcription factor and enhances colony-forming activity of SCC cells**  
 ○ Jeung-Hoon Lee, Xue Mei Li, Kyung-Cheol Sohn, Jeong-Min Ha, Myung Im, Young Lee, Young-Joon Seo, Chang Deok Kim  
 Department of Dermatology, Chungnam National University, Daejeon, Korea
- O1-41 [P02-19] Analysis of Oncostatin M Signaling in Hemangiosarcoma Cell Line and Regulation of IL-33 Expression**  
 ○ Hidetoshi Tsuda<sup>1,2,3</sup>, Mayumi Komine<sup>1,2</sup>, Meijuan Jin<sup>1</sup>, Naomi Nakano<sup>1</sup>, Shin-ichi Tominaga<sup>2</sup>, Mikio Masuzawa<sup>1</sup>, Mamitaro Ohtsuki<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Jichi Medical University, Tochigi, Japan, <sup>2</sup>Department of Biochemistry, Jichi Medical University, Tochigi, Japan, <sup>3</sup>Department of Molecular Diagnostics, School of Allied Health Sciences, Kitasato University, Kanagawa, Japan
- O1-42 [P02-20] Roles of Rap2 signaling in cutaneous function**  
 ○ Kimiko Takei<sup>1,2</sup>, Tsuyoshi Asato<sup>2</sup>, Masato Umikawa<sup>2</sup>, Minoru Oshiro<sup>2</sup>, Ken-ichi Kariya<sup>2</sup>  
<sup>1</sup>Department of Dermatology, Graduate School of Medicine, University of the Ryukyus, Okinawa, Japan, <sup>2</sup>Department of Medical chemistry, Graduate School of Medicine, University of the Ryukyus
- O1-43 [P02-21] Gold nanoparticles induce cell death and inhibit migration of melanoma cells**  
 ○ Nan-Lin Wu<sup>1</sup>, Po-Hsuan Lu<sup>2</sup>, Hsin-Ju Li<sup>3</sup>, Chia-Chun Wu<sup>4</sup>, Sheng-Fen Wang<sup>5</sup>, Chi-Feng Hung<sup>6</sup>  
<sup>1</sup>Department of Dermatology, Mackay Memorial Hospital, Taipei, Taiwan, <sup>2</sup>Department of Dermatology, Far Eastern Memorial Hospital, Taiwan, <sup>3</sup>Dermatology of Chemistry, Fu Jen Catholic University, New Taipei City, Taiwan, <sup>4</sup>Ph.D. Program in Nutrition and Food Sciences, Fu Jen Catholic University, New Taipei City, Taiwan, <sup>5</sup>Graduate Institute of Basic Medicine, Fu Jen Catholic University, New Taipei City, Taiwan, <sup>6</sup>School of Medicine, Fu Jen Catholic University, New Taipei City, Taiwan
- O1-44 [P03-02] IQGAP1 serves a role on erlotinib-related purpuric dermatitis**  
 ○ Yi-Shuan Sheen<sup>1,2</sup>, Ming-Hsien Lin<sup>3,4</sup>, Tzue-Shuh Jou<sup>1,5</sup>, Chia-Yu Chu<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, National Taiwan University, Taipei, Taiwan, <sup>2</sup>Graduate Institute of Pathology, College of Medicine, National Taiwan University, Taipei, Taiwan, <sup>3</sup>Graduate Institute of Clinical Medicine, College of Medicine, National Taiwan University, Taipei, Taiwan, <sup>4</sup>Department of Surgery, National Taiwan University Hospital Hsin-Chu Branch, Hsin-Chu, Taiwan, <sup>5</sup>Graduate Institute of Molecular Medicine, College of Medicine, National Taiwan University, Taipei, Taiwan
- O1-45 [P03-03] Hyaluronan expression in seborrheic keratosis**  
 ○ Yukari Fujita, Jun Muto, Daisuke Watanabe  
 Department of dermatology, Aichi Medical University, Nagakute, Japan
- O1-46 [L-02] Distinct wave patterns of ERK MAPK activation control epidermal proliferation and migration in vivo**  
 ○ Toru Hiratsuka, Fiona M Watt  
 King's College London, Centre for Stem Cells and Regenerative Medicine
- O1-47 [L-03] Selective alteration of hemidesmosomal antigens in lichen sclerosis skin: an immunohistochemical study on confocal laser scanning microscope**  
 ○ Natsuko Utsunomiya, Noritaka Oyama, Takenao Chino, Akira Utsunomiya, Minoru Hasegawa  
 Department of Dermatology, Faculty of Medical Sciences, University of Fukui, Fukui, Japan
- O1-48 [L-05] Local cortisol activation is involved in EGF-induced immunosuppression**  
 ○ Sayaka Matsumura<sup>1</sup>, Mika Terao<sup>2</sup>, Satoshi Itami<sup>2</sup>, Ichiro Katayama<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Osaka University Graduate School of Medicine, <sup>2</sup>Department of Regenerative Dermatology, Osaka University Graduate School of Medicine

- O1-49 [L-06] Dermokine  $\beta/\gamma$  deficiency causes the selective impairment of epidermal barrier function in mice**  
○ Akira Utsunomiya<sup>1</sup>, Takenao Chino<sup>1</sup>, Atsushi Tokuriki<sup>1</sup>, Vu Huy Loung<sup>1</sup>, Noritaka Oyama<sup>1</sup>, Kiyoshi Higashi<sup>2</sup>, Koichi Saito<sup>2</sup>, Minoru Hasegawa<sup>1</sup>  
<sup>1</sup>Department of Dermatology, University of Fukui, Fukui, Japan, <sup>2</sup>Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd., Osaka, Japan
- O1-50 [L-10] Adiponectin inhibits melanogenesis through a novel pathway of AMPK/CREB regulated transcriptional coactivator**  
Seunghyun Bang<sup>1</sup>, Kwang Hee Won<sup>1</sup>, Hye-Rim Moon<sup>1</sup>, ○ Hanju Yoo<sup>2</sup>, Youngsup Song<sup>2</sup>, Sung Eun Chang<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea, <sup>2</sup>Department of Biomedical Sciences, University of Ulsan College of Medicine, Asan Institute for Life Sciences, Asan Medical Center, Seoul, Korea
- O1-51 [L-12] HSP47, a collagen-specific chaperone protein, is a limiting factor for type I collagen secretion in aged skin**  
○ MinJu Pyo<sup>1</sup>, Jun Sang Park<sup>1</sup>, Young Hun Lee<sup>1</sup>, Dong Hun Lee<sup>2</sup>, Jin Ho Chung<sup>2</sup>, Seung-Taek Lee<sup>1</sup>  
<sup>1</sup>Department of Biochemistry, College of Life Science and Biotechnology, Yonsei University, Seoul, Republic of Korea, <sup>2</sup>Department of Dermatology, Seoul National University College of Medicine, Seoul, Republic of Korea
- O1-52 [L-13] Expression of tenascin-C is down-regulated during intrinsic skin aging**  
○ Jun Sang Park<sup>1</sup>, Young Hun Lee<sup>1</sup>, Dong Hun Lee<sup>2</sup>, Jin Ho Chung<sup>2</sup>, Seung-Taek Lee<sup>1</sup>  
<sup>1</sup>Department of Biochemistry, College of Life Science and Biotechnology, Yonsei University, Seoul, Republic of Korea, <sup>2</sup>Department of Dermatology, Seoul National University College of Medicine, Seoul, Republic of Korea
- O1-53 [L-14] Leucine-rich alpha-2-glycoprotein 1 modulates expression of matrix metalloproteinase-1 and type 1 collagen in human dermal fibroblasts**  
○ So Yun Ahn<sup>1</sup>, Dong Hun Lee<sup>2</sup>, Jin Ho Chung<sup>2</sup>, Seung-Taek Lee<sup>1</sup>  
<sup>1</sup>Department of Biochemistry, College of Life Science and Biotechnology, Yonsei University, Seoul, Republic of Korea, <sup>2</sup>Department of Dermatology, Seoul National University College of Medicine, Seoul, Republic of Korea
- O1-54 [L-16] Basal cell carcinoma response to imiquimod is associated with the ratio of Gli1/Gli3 expression**  
○ Yukihiko Kato<sup>1,2</sup>, Ayano Kanzaki<sup>1,3</sup>, Yoshihiro Umebayashi<sup>2</sup>, Ryoji Tsuboi<sup>3</sup>  
<sup>1</sup>Department of Dermatology, Tokyo Metropolitan Tama Medical Center, <sup>2</sup>Department of Dermatology, Tokyo Medical University Hachioji Medical Center, <sup>3</sup>Department of Dermatology, Tokyo Medical University
- O1-55 [L-18] The expression of serine protease inhibitors are induced by TNF- $\alpha$  and IL-17A in skin inflammatory diseases**  
○ Satoru Sugihara, Shin Morizane, Saeko Sugimoto, Mina Kobashi, Keiji Iwatsuki  
Department of Dermatology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences
- O1-56 [L-20] E7 protein of cutaneous human papillomavirus causing warts can attenuate the expression of viperin in human keratinocytes**  
○ Hyeon Soo Lee, Ji Hyun Lee, Young Min Park  
Department of Dermatology, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea

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## December 9, 2016, Room B

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### Concurrent Oral Session 2

#### (Epidermal Structure and Function, Hair and Cutaneous Development-I)

9:00-10:24

Chairs: Daisuke Tsuruta, Mayumi Komine

- C02-1 [P05-10]**  
9:00-9:12  
**Three dimensional ultrastructural analysis of lamellar granule in stratum granulosum by focused ion beam scanning electron microscopy.**  
○ Haruyo Yamanishi<sup>1</sup>, Tsutomu Soma<sup>1</sup>, Akemi Ishida-Yamamoto<sup>2</sup>, Toshihiko Hibino<sup>1</sup>  
<sup>1</sup>Shiseido Global Innovation Center, Yokohama, Japan, <sup>2</sup>Department of Dermatology, Asahikawa Medical University, Asahikawa, Japan
- C02-2 [P05-03]**  
9:12-9:24  
**Basophils require interaction with CD49b(+)/c-kit(+) cells through L-selectin for induction of IgE-mediated chronic allergic inflammation**  
○ Takahiro Ishikawa<sup>1</sup>, Takahiro Satoh<sup>1</sup>, Kazumi Saeki<sup>2</sup>, Hiroo Yokoze<sup>2</sup>  
<sup>1</sup>Department of Dermatology, National Defense Medical College, <sup>2</sup>Department of Dermatology, Graduate School, Tokyo Medical and Dental University
- C02-3 [P05-07]**  
9:24-9:36  
**Galectin-7 is extracellularly released from epidermal keratinocytes in atopic dermatitis and serves as immunomodulator of Langerhans cells**  
○ Takatsune Umayahara, Jun-ichi Sakabe, Takatoshi Shimauchi, Yoshiki Tokura  
The Department of Dermatology, Hamamatsu University School of Medicine, Shizuoka, Japan
- C02-4 [P05-09]**  
9:36-9:48  
**Compound heterozygotes for filaggrin gene mutations do not always show severe atopic dermatitis**  
○ Atsuko Sekiya<sup>1</sup>, Michihiro Kono<sup>1</sup>, Hiromi Tsujiuchi<sup>1</sup>, Tomoko Kobayashi<sup>1</sup>, Toshifumi Nomura<sup>2</sup>, Maki Kitagawa<sup>3</sup>, Noriyuki Suzuki<sup>4</sup>, Keiichi Yamanaka<sup>5</sup>, Hirohiko Sueki<sup>3</sup>, W. H. Irwin McLean<sup>6</sup>, Hiroshi Shimizu<sup>7</sup>, Masashi Akiyama<sup>1</sup>  
<sup>1</sup>Departments of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, <sup>2</sup>Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, <sup>3</sup>Department of Dermatology, Showa University School of Medicine, Tokyo, Japan, <sup>4</sup>Department of Dermatology, Toyohashi Municipal Hospital, Toyohashi, Japan, <sup>5</sup>Department of Dermatology, Mie University School of Medicine, Tsu, Japan, <sup>6</sup>Centre for Dermatology and Genetic Medicine, College of Life Sciences and College of Medicine, Dentistry & Nursing, University of Dundee, Dundee, UK
- C02-5 [P05-05]**  
9:48-10:00  
**Permeability barrier function in STAT6-deficient mice is superior to that in wild-type mice**  
○ Wei Zhang, Takashi Sakai, Haruna Matsuda-Hirose, Yutaka Hatano  
Department of Dermatology, Faculty of Medicine, Oita University, Yufu, Japan
- C02-6 [P09-02]**  
10:00-10:12  
**Human dermal Vδ1<sup>+</sup>T-cells recognize "stressed" HF cells and may induce alopecia areata**  
○ Youhei Uchida<sup>1,2</sup>, Jennifer Gherardini<sup>1</sup>, Majid Alam<sup>3</sup>, Aviad Keren<sup>4</sup>, Haiping Zhang<sup>1,5</sup>, Jérémy Chéret<sup>3</sup>, Akiko Arakawa<sup>6</sup>, Alfredo Rossi<sup>7</sup>, Amos Gilhar<sup>4</sup>, Takuro Kanekura<sup>2</sup>, Marta Bertolini<sup>1,3</sup>, Ralf Paus<sup>1,8</sup>  
<sup>1</sup>Department of Dermatology, University of Münster, Münster, Germany, <sup>2</sup>Department of Dermatology, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan, <sup>3</sup>Monasterium Laboratory, Münster, Germany, <sup>4</sup>Skin Research Laboratory, Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, Israel, <sup>5</sup>Department of Dermatology and Venereology, Xuanwu Hospital, Capital Medical University, Beijing, China, <sup>6</sup>Department of Dermatology, University of Munich, Munich, Germany, <sup>7</sup>Department of Internal Medicine and Medical Specialties, University "La Sapienza", Rome, Italy, <sup>8</sup>Centre for Dermatology Research, Institute of Inflammation and Repair, University of Manchester, Manchester, UK
- C02-7 [P09-05]**  
10:12-10:24  
**Plasmacytoid dendritic cells is a possible key player for the initiation of alopecia areata in the C3H/HeJ mouse**  
○ Taisuke Ito<sup>1</sup>, Takahiro Suzuki<sup>2</sup>, Jun-ichi Sake<sup>3</sup>, Atsuko Funakoshi<sup>1</sup>, Toshiharu Fujiyama<sup>1</sup>, Yoshiki Tokura<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Hamamatsu University School of Medicine, <sup>2</sup>Fujinomiya City General Hospital, <sup>3</sup>Agency for Science, Technology and Research, Singapore

### Luncheon Seminar 2

#### "Hot Topics on Psoriasis"

12:45-13:45

Chairs: Shigaku Ikeda, Koji Sayama

- LS2-1**  
**Backseat players in the chronic inflammation of psoriasis**  
○ Yukie Yamaguchi  
Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, Kanagawa, Japan
- LS2-2**  
**Genetic background of generalized pustular psoriasis**  
○ Kazumitsu Sugiura  
Department of Dermatology, Fujita Health University, School of Medicine, Toyoake, Aichi, Japan

Co-sponsored by Mitsubishi Tanabe Pharma Corporation

## JSID-Asia-Oceania-Forum 2

13:55-14:25

Chair: Akimichi Morita

**JAOF2**      **Trans-ethnic meta-analysis identifies multiple SLE associated loci and provides evidence for increased genetic risk of disease in non-Europeans**

○ Yong Cui  
Department of Dermatology, China-Japan Friendship Hospital Beijing, China

## Sweets Seminar 2

15:35-16:35

Chair: Shinichi Sato

**SS2**      **The emerging field of regulatory B cell—from contact dermatitis to melanoma—**

○ Manabu Fujimoto  
Department of Dermatology, Faculty of Medicine University of Tsukuba

Co-sponsored by POLA PHARMA INC.

## One-minute presentation "Come to see my poster" 2

(Human Clinical Research and Therapeutics, Epidermal Structure and Function, Epidemiology/Health Service Research, Genetic Disease/Gene Regulation and Gene Therapy, Tissue Regeneration/Stem Cell and Wound Healing, Late breaking abstract)

17:50-18:50

Chair: Wataru Nishie

**O2-01**      **CCR9 expression levels in psoriatic skin negatively correlates with clinical outcome to infliximab.**

[P04-18]

○ Ikko Kajihara, Aiko Koga, Saori Yamada, Satoshi Fukushima, Masatoshi Jinnin, Hironobu Ihn  
Department of Dermatology and Plastic Surgery, Kumamoto University, Kumamoto, Japan

**O2-02**      **Topical N-acetylcysteine can restore skin barrier function in healthy volunteers and atopic dermatitis patients**

[P04-19]

○ Kozo Nakai, Ayako Nishiura, Emiko Ishikawa, Junko Moriue, Tetsuya Moriue, Yasuo Kubota  
Department of Dermatology, Kagawa University, Kagawa, Japan

**O2-03**      **Withdrawn**

[P04-20]

**O2-04**      **The characteristics of patients with persistent HHV-6 infection after drug-induced hypersensitivity syndrome (DIHS)**

[P04-21]

○ Yuki Nakamura, Kazuya Miyashita, Rie Onmori, Fumi Miyagawa, Hiroaki Azukizawa, Hideo Asada  
The Department of Dermatology, Nara Medical University School of Medicine, Nara, Japan

**O2-05**      **Higher frequency of sensitive skin in extrinsic type of atopic dermatitis than intrinsic type as assessed by lactic acid stinging test**

[P04-22]

○ Tsuyoshi Yatagai<sup>1</sup>, Hayato Yamaguchi<sup>2</sup>, Masahiro Aoshima<sup>1</sup>, Shigeki Ikeya<sup>1</sup>, Kazuki Tatsuno<sup>1</sup>, Takatoshi Shimauchi<sup>1</sup>, Toshiharu Fujiyama<sup>1</sup>, Taisuke Ito<sup>1</sup>, Yoshiki Tokura<sup>1</sup>

<sup>1</sup>The Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, Japan, <sup>2</sup>Department of Dermatology, Self-Defense Forces Central Hospital, Tokyo, Japan

**O2-06**      **Long-term sequelae of DRESS and SJS/TEN: a prospective comparative study**

[P04-23]

○ Che-Wen Yang, Chia-Yu Chu  
The Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, Taiwan

**O2-07**      **Skin manifestations in patients with immunodeficiency due to anti-interferon-gamma autoantibody.**

[P04-25]

○ Pawinee Rerknimitr<sup>1</sup>, Prattana Sittiwattanawong<sup>1</sup>, Jettanong Kleawsongkram<sup>2</sup>, Kamonwan Jutiworakul<sup>3</sup>

<sup>1</sup>Division of Dermatology, Department of Medicine, Faculty of Medicine, Chulalongkorn University, <sup>2</sup>Division of Clinical Immunology, Department of Medicine, Faculty of Medicine, Chulalongkorn University, <sup>3</sup>Division of Infectious Disease, Department of Medicine, Faculty of Medicine, Chulalongkorn University

- O2-08 [P04-26] The assessment of vascularity in subcutaneous tumors by ultrasonography**  
 ○ Chinatsu Shobatake<sup>1</sup>, Toshiko Hirai<sup>2</sup>, Kohei Ogawa<sup>1</sup>, Fumi Miyagawa<sup>1</sup>, Hiroaki Azukizawa<sup>1</sup>, Hideo Asada<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Nara Medical University, Japan, <sup>2</sup>Department of General Diagnostic Imaging, Nara Medical University, Japan
- O2-09 [P04-27] Comparative analysis of the lesion and non-lesion of both pellagra and biotin deficiency model mice.**  
 ○ Sayaka Yamaguchi<sup>1</sup>, Atsushi Utani<sup>2</sup>, Kenzo Takahashi<sup>1</sup>  
<sup>1</sup>Department of Dermatology, University of the Ryukyus, Okinawa, Japan, <sup>2</sup>Department of Dermatology, Nagasaki University, Nagasaki, Japan
- O2-10 [P04-28] Herpes zoster as a risk factor for osteoporosis**  
 Ying Yi Lu<sup>1,2</sup>, Chun Ching Lu<sup>3</sup>, ○ Chieh Hsin Wu<sup>2,4</sup>  
<sup>1</sup>Department of Dermatology, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan, <sup>2</sup>Graduate Institute Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan, <sup>3</sup>Department of Orthopedics, Taipei Veterans General Hospital, Taipei, Taiwan, <sup>4</sup>Division of Neurosurgery, Department of Surgery, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung, Taiwan
- O2-11 [P04-29] C-reactive protein and serum amyloid A levels are objective parameters for psoriasis arthritis in Japanese patients.**  
 ○ Emi Nishida, Kyoko Ikumi, Shinnosuke Muramatsu, Ryoji Kubo, Akimichi Morita  
 Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences
- O2-12 [P04-30] The effect of topical tacrolimus on the treatment of acquired perforating dermatosis.**  
 ○ Manao Kinoshita, Youichi Ogawa, Tatsuyoshi Kawamura, Shinji Shimada  
 Departments of Dermatology, Faculty of Medicine, University of Yamanashi, Yamanashi, Japan
- O2-13 [P04-31] Cocoa flavanol supplementation improves photoaged skin in women: a 24-week double-blind, randomized, controlled trial**  
 ○ Hyun-Sun Yoon<sup>1,2</sup>, Gyeong Yul Park<sup>1,2</sup>, Dong Hun Lee<sup>2</sup>, Jin Ho Chung<sup>2</sup>  
<sup>1</sup>Department of Dermatology, Seoul National University Boramae Hospital, Seoul, Korea, <sup>2</sup>Department of Dermatology, Seoul National University College of Medicine, Seoul, Korea
- O2-14 [P04-32] Characteristics of microbial flora of scalp lesion on atopic dermatitis**  
 ○ Yukiko Sumimura, Hiroyuki Murota, Ichiro Katayama  
 The Department of Dermatology, University of Osaka, Osaka, Japan
- O2-15 [P04-33] HLA-B\*46 associates with psoriasis susceptibility**  
 ○ Kyoko Ikumi<sup>1</sup>, Shigeto Kobayashi<sup>2</sup>, Naoto Tamura<sup>3</sup>, Hisashi Inoue<sup>4</sup>, Emi Nishida<sup>1</sup>, Akimichi Morita<sup>1</sup>  
<sup>1</sup>Department of Geriatric and Environmental Dermatology, Nagoya City University, Nagoya, Aichi, Japan, <sup>2</sup>Department of Rheumatology, Juntendo Koshigaya Hospital, Saitama, Japan, <sup>3</sup>Department of Rheumatology, Juntendo University, Tokyo, Japan, <sup>4</sup>Department of Orthopedic Surgery, Juntendo University, Tokyo, Japan
- O2-16 [P04-34] A close correlation of bone mineral density and body mass index in Japanese psoriasis patients**  
 ○ Takashi Shibuya<sup>1</sup>, Shin Inuma<sup>1</sup>, Nao Saito<sup>1</sup>, Mari Kishibe<sup>1</sup>, Hidetoshi Takahashi<sup>2</sup>, Masaru Honma<sup>1</sup>, Akemi Ishida-Yamamoto<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Asahikawa Medical University, Asahikawa, Japan, <sup>2</sup>Obihiro City
- O2-17 [P04-35] Patient disease activity of moderate-to-severe atopic dermatitis in a phase 2b trial: comparison between Japanese and overall population**  
 ○ Makoto Kawashima<sup>1</sup>, Atsuyuki Igarashi<sup>2</sup>, Takafumi Etoh<sup>3</sup>, Mamitaro Ohtsuki<sup>4</sup>, Kazuhiko Arima<sup>5</sup>, Aki Kuroki<sup>5</sup>, Toshio Kimura<sup>6</sup>, Marius Ardeleanu<sup>7</sup>  
<sup>1</sup>Tokyo Women's Medical University, Tokyo, Japan, <sup>2</sup>NTT Medical Center, Tokyo, Japan, <sup>3</sup>Tokyo Postal Services Agency Hospital, Tokyo, Japan, <sup>4</sup>Jichi Medical University, Tochigi, Japan, <sup>5</sup>Sanofi K.K., Tokyo, Japan, <sup>6</sup>Regeneron Pharmaceuticals, Inc., Basking Ridge, New Jersey, United States, <sup>7</sup>Regeneron Pharmaceuticals, Inc., Tarrytown, New York, United States
- O2-18 [P04-36] Deep cutaneous fungal infection in tropical regions: a retrospective study from a referral center in southern Taiwan**  
 ○ Wen-chien Tsai, Kwei-lan Liu, Chih-Hung Lee  
 The Department of Dermatology, Kaohsiung Chang Gung Memorial Hospital and Chang Gung University College of Medicine, Kaohsiung, Taiwan
- O2-19 [P04-37] The classification of atopic dermatitis patients using machine learning method, based on the therapeutic outcome for the proactive treatment**  
 ○ Hiroshi Kawasaki<sup>1,2</sup>, Hiroko Kasai<sup>3</sup>, Takaho A Endo<sup>4</sup>, Koichi Ashizaki<sup>5</sup>, Fumiyo Yasuda<sup>1</sup>, Masayuki Amagai<sup>1,2</sup>, Tamotsu Ebihara<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, <sup>2</sup>Laboratory for Skin Homeostasis, IMS-RCAI RIKEN, <sup>3</sup>Department of Dermatology, Keiyu Hospital, <sup>4</sup>Integrative genomics group, IMS-RCAI RIKEN, <sup>5</sup>Laboratory for Disease Systems Modeling, IMS-RCAI RIKEN

- O2-20 [P04-38] Assessment of serum biomarkers in patients with plaque psoriasis after switching from cyclosporine A to secukinumab (Ph4 study)**  
○ Hiroyuki Fujita<sup>1</sup>, Ayako Fujishige<sup>1</sup>, Masako Yamaguchi<sup>1</sup>, Mamitaro Ohtsuki<sup>2</sup>, Akimichi Morita<sup>3</sup>, Yumiko Tani<sup>1</sup>, The JP01 Study group  
<sup>1</sup>Novartis Pharma K.K., <sup>2</sup>Jichi Medical University, <sup>3</sup>Nagoya City University
- O2-21 [P04-39] Histopathological and polymerase chain reaction-based analyses of Buruli ulcer caused by *Mycobacterium ulcerans* subspecies *shinshuense***  
○ Toshifumi Takahashi, Noriki Fujimoto, Miho Kabuto, Takeshi Kato, Takeshi Nakanishi, Toshihiro Tanaka  
The Department of Dermatology, Shiga University of Medical Science, Shiga, Japan
- O2-22 [P04-40] The clinical effect of combinations of hydroquinone and glycolic acid for the treatment of melasma and solar lentigo in Asians**  
○ Chikako Kaminaka<sup>1,2</sup>, Hiroshi Matsunaka<sup>1</sup>, Fukumi Furukawa<sup>1</sup>, Yuki Yamamoto<sup>1,2</sup>  
<sup>1</sup>Departments of Dermatology, Wakayama Medical University, <sup>2</sup>Departments of Cosmetic Dermatology and Photomedicine, Wakayama Medical University
- O2-23 [P04-41] Influence of therapeutic intervention by anti-TNF agents on serum levels of KL-6, SP-D, and ADAM17 in patients with psoriasis**  
○ Mitsuha Hayashi, Koichi Yanaba, Yoshinori Umezawa, Akihiko Asahina, Hidemi Nakagawa  
Department of Dermatology, The Jikei University School of Medicine, Tokyo, Japan
- O2-24 [P05-12] Characterization of simple intercellular lipid model of atopic dermatitis stratum corneum containing sphingosine and sphinganine**  
○ Yasuko Obata<sup>1</sup>, Hiromu Sano<sup>1</sup>, Noboru Ohta<sup>2</sup>, Taro Moriwaki<sup>2</sup>, Kenya Ishida<sup>3</sup>, Yoshikazu Uchida<sup>4</sup>, Kozo Takayama<sup>1</sup>  
<sup>1</sup>Department of Pharmaceutics, Hoshi University, Tokyo, Japan, <sup>2</sup>Spring-8/JASRI, <sup>3</sup>Takasago International Corporation, <sup>4</sup>UCSF School of Medicine
- O2-25 [P05-13] An underling mechanism of the sensitive skin development initiated by oxidative stress**  
○ Yukiko Izutsu<sup>1</sup>, Misaki Hirayama<sup>2</sup>, Yumiko Yamawaki<sup>2</sup>, Shoichi Yahagi<sup>1</sup>, Hitoshi Masaki<sup>2</sup>  
<sup>1</sup>NIKKOL GROUP COSMOS TECHNICAL CENTER CO., LTD, <sup>2</sup>Tokyo University of Technology, School of Bionics
- O2-26 [P05-14] *Propionibacterium acnes* may modify the barrier properties of the skin**  
○ Beata Sz. Bolla<sup>1</sup>, Lilla Erdei<sup>1</sup>, Gabor Tax<sup>1</sup>, Edit Urban<sup>2</sup>, Lajos Kemeny<sup>1,3</sup>, Kornelia Szabo<sup>3</sup>  
<sup>1</sup>Department of Dermatology and Allergology, University of Szeged, Hungary, <sup>2</sup>Institute of Clinical Microbiology, University of Szeged, Hungary, <sup>3</sup>MTA-SZTE Dermatological Research Group, Szeged, Hungary
- O2-27 [P05-15] The expression of serine protease inhibitors in epidermal keratinocytes is increased by calcium, but not 1,25 (OH)<sub>2</sub> vitamin D<sub>3</sub> or retinoic acid**  
○ Mina Kobashi, Shin Morizane, Saeko Sugimoto, Satoru Sugihara, Keiji Iwatsuki  
The Department of Dermatology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences
- O2-28 [P05-16][SE] Characterization of non-hemidesmosomal collagen XVII in basal keratinocytes**  
○ Ken Natsuga, Mika Watanabe, Wataru Nishie, Hiroshi Shimizu  
Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan
- O2-29 [P05-17] Different therapeutic effects between topical corticosteroid and tacrolimus application on pruritus in atopic dermatitis**  
○ Atsushi Noguchi<sup>1</sup>, Mitsutoshi Tominaga<sup>2</sup>, Kyi Chan Ko<sup>2</sup>, Hironori Matsuda<sup>2</sup>, Yasushi Suga<sup>1</sup>, Hideoki Ogawa<sup>2</sup>, Kenji Takamori<sup>1,2</sup>  
<sup>1</sup>Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan, <sup>2</sup>Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine
- O2-30 [P05-18] Disrupted constitution of stratum corneum intercellular lipids contribute to barrier disruption in glycosylated epidermis**  
○ Mami Yokota<sup>1</sup>, Hitoshi Masaki<sup>2</sup>, Yoshihiro Tokudome<sup>1</sup>  
<sup>1</sup>Laboratory of Dermatological Physiology, Faculty of Pharmaceutical Sciences, Josai University, Saitama, Japan, <sup>2</sup>School of Bioscience and Biotechnology, Tokyo University of Technology, Tokyo, Japan
- O2-31 [P05-19] *Maackia amurensis* seed lectin can suppress IL-22-induced hyperproliferative reconstituted epidermis**  
○ Masaru Honma, Takashi Shibuya, Mizue Fujii, Shin Iinuma, Nao Saito, Mari Kishibe, Akemi Ishida-Yamamoto  
The Department of Dermatology, Asahikawa Medical University
- O2-32 [P05-20] Roles of intracellular carbonylated protein and oxidized protein hydrolase on reconstruction of basement membrane**  
○ Ryota Mori<sup>1</sup>, Masamichi Ishigami<sup>1</sup>, Masanori Okada<sup>1</sup>, Hitoshi Masaki<sup>2</sup>  
<sup>1</sup>R&D Laboratory, Septem Soken Co., Ltd., Kanagawa, Japan, <sup>2</sup>School of Bioscience and Biotechnology, Tokyo University of Technology, Tokyo, Japan



- O2-33 [P05-21] The recovery rate of skin temperature after cold stress but not blood flow in a resting state is related to dry skin conditions**  
 ○ Yasuko Amano<sup>1</sup>, Tomoko Nomura<sup>2</sup>, Yoshinori Sugiyama<sup>1</sup>, Kayoko Iwata<sup>3</sup>, Yuko Higaki<sup>4</sup>, Masanori Tanahashi<sup>1</sup>  
<sup>1</sup>Health Beauty Products, Kao Corporation, Tokyo, Japan, <sup>2</sup>Biological Science Laboratory, Kao Corporation, Tochigi, Japan, <sup>3</sup>Lifestyle Research Center, Kao Corporation, Tokyo, Japan, <sup>4</sup>Institute of Women's Health, Tokyo Women's Medical University, Tokyo, Japan
- O2-34 [P05-22] Relationships between transepidermal water Loss, cutaneous microcirculatory function and autonomic nerve activity**  
 ○ Tomoko Nomura<sup>1</sup>, Yasuko Amano<sup>2</sup>, Kenichiro Yoshida<sup>2</sup>, Akihiko Fujii<sup>1</sup>, Masanori Tanahashi<sup>2</sup>, Yoshinori Sugiyama<sup>2</sup>, Kayoko Iwata<sup>3</sup>, Takatoshi Murase<sup>1</sup>  
<sup>1</sup>Biological Science Laboratory, Kao Corporation, Tochigi, Japan, <sup>2</sup>Health Beauty Products, Kao Corporation, Tokyo, Japan, <sup>3</sup>Lifestyle Research Center, Kao Corporation, Tokyo, Japan
- O2-35 [P05-23] High glucose activates claudin-1 and filaggrin expression: possible mechanism of the anti-inflammatory effect by repairing the skin barrier**  
 ○ Kiyoko Yamada  
 The Department of Dermatology, Kagoshima University Graduate School of Medicine and Dental Science
- O2-36 [P05-24] Minimally-Invasive Transepidermal Potentiometry with Microneedle Salt Bridge for Evaluation of The Skin Barrier Repair**  
 ○ Yuina Abe<sup>1</sup>, Kuniaki Nagamine<sup>1</sup>, Mayu Nakabayashi<sup>1</sup>, Hiroyuki Kai<sup>1</sup>, Takeshi Yamauchi<sup>2</sup>, Kenshi Yamasaki<sup>2</sup>, Matsuhiko Nishizawa<sup>1</sup>  
<sup>1</sup>School of Engineering, Tohoku University, Sendai, Japan, <sup>2</sup>School of Medicine, Tohoku University, Sendai, Japan
- O2-37 [P05-25] Protective Effect of Moisturizers on Photoaging**  
 ○ Seung Phil Hong<sup>1</sup>, Sung Jay Choe<sup>2</sup>, Jiyeon Yoo<sup>1,2</sup>, Eun Mi Jin<sup>1</sup>, Hee Seok Seo<sup>1</sup>, Sung-Ku Ahn<sup>2</sup>  
<sup>1</sup>Department of Dermatology, Dankook University College of Medicine, Cheonan, South Korea, <sup>2</sup>Department of Dermatology, Yonsei University Wonju College of Medicine, Wonju, South Korea
- O2-38 [P05-26] Protective effects of distilled extracts from *Alpinia intermedia* Gagnep on skin conditions of NC/Tnd mice**  
 ○ Yosuke Amagai<sup>1,2</sup>, Tetsuyoshi Hamasaki<sup>3</sup>, Yoshihiro Nomura<sup>1</sup>, Hiroshi Matsuda<sup>1</sup>, Akane Tanaka<sup>1</sup>  
<sup>1</sup>Tokyo University of Agriculture and Technology, <sup>2</sup>Research Fellow of the Japan Society for the Promotion of Science, <sup>3</sup>GRAY ART, Co., Ltd.
- O2-39 [P06-01] Evaluation of the clinical characteristics of pruritus in patients with psoriasis using the Japanese version of the 5-D itch scale**  
 ○ Yoza Ishiiji<sup>1</sup>, Yoshinori Umezawa<sup>1</sup>, Norie Aizawa<sup>1</sup>, Sanae Inokuchi<sup>1</sup>, Akihiko Asahina<sup>1</sup>, Koichi Yanaba<sup>1</sup>, Toshiya Ebata<sup>2</sup>, Hidemi Nakagawa<sup>1</sup>  
<sup>1</sup>Department of Dermatology, The Jikei University School of Medicine, Tokyo, Japan, <sup>2</sup>Department of Dermatology, Chitofuna Dermatology Clinic, Tokyo, Japan
- O2-40 [P06-02] Quality of Life in Adult Patients with Atopic Dermatitis at Dermatology Hospital of Ho Chi Minh City**  
 ○ Trinh Ngo Binh  
 The Department of Dermatology Hospital at Ho Chi Minh City
- O2-41 [P06-03] Barriers to Human Papillomavirus (HPV) vaccine uptake in Asia: a pilot study**  
 ○ Mingjuan Tan, T Thirumoorthy  
 Duke-NUS Medical School, Singapore
- O2-42 Cancellation**
- O2-43 [P07-05] The Efficacy of rapamycin against the neuropathic pain for Fabry disease**  
 ○ Yang Pan, Mari Wataya-Kaneda, Ichiro Katayama  
 Department of Dermatology, Graduate school of medicine, Osaka University, Suita, Osaka, Japan
- O2-44 [P07-06] A founder deletion of corneodesmosin gene (CDSN) is prevalent in Japanese patients with peeling skin disease: identification of 2 new cases**  
 ○ Kwesi Teye<sup>1</sup>, Yasushi Suga<sup>2</sup>, Sanae Numata<sup>1</sup>, Mikiko Soejima<sup>3</sup>, Norito Ishii<sup>4</sup>, Rafal\_P Krol<sup>1</sup>, Chika Ohata<sup>4</sup>, Mitsuhiro Matsuda<sup>4</sup>, Masaru Honma<sup>5</sup>, Akemi Ishida-Yamamoto<sup>5</sup>, Takahiro Hamada<sup>4</sup>, Yoshiro Koda<sup>3</sup>, Takashi Hashimoto<sup>1</sup>  
<sup>1</sup>Kurume University Institute of Cutaneous Cell Biology, <sup>2</sup>Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu, Chiba, Japan, <sup>3</sup>Department of Forensic Medicine and Human Genetics, Kurume University School of Medicine, Kurume, Fukuoka, Japan, <sup>4</sup>Department of Dermatology, Kurume University School of Medicine, Kurume, Fukuoka, Japan, <sup>5</sup>Department of Dermatology, Asahikawa Medical University, Asahikawa, Japan
- O2-45 [P07-07] Behavior of melanocytes and keratinocytes in reticulate acropigmentation of Kitamura**  
 ○ Ken Okamura, Yuko Abe, Yuta Araki, Yutaka Hozumi, Masakazu Kawaguchi, Tamio Suzuki  
 Department of Dermatology, Yamagata University Faculty of Medicine, Yamagata, Japan

- O2-46 [P07-08] A mild case of Cockayne syndrome**  
○ Mariko Tsujimoto<sup>1</sup>, Eiji Nakano<sup>1</sup>, Taro Masaki<sup>1</sup>, Fumio Kanda<sup>2,3</sup>, Yuka Nakazawa<sup>4,5</sup>, Tomoo Ogi<sup>4,5</sup>, Chikako Nishigori<sup>1</sup>  
<sup>1</sup>Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe, Japan, <sup>2</sup>Division of Neurology, Kobe University Graduate School of Medicine, Kobe, Japan, <sup>3</sup>Integrated Clinical Education Center, Kobe University Hospital, Kobe, Japan, <sup>4</sup>Nagasaki University Research Center for Genomic Instability and Carcinogenesis, Nagasaki, Japan, <sup>5</sup>Department of Genetics, Research Institute of Environment of Medicine, Nagoya University, Nagoya, Japan
- O2-47 [P08-10] Epidermal and dermal CD271+ stem cells are closely associated with wound healing process**  
○ Yohei Iwata<sup>1</sup>, Yuichi Hasebe<sup>2,3</sup>, Seiji Hasegawa<sup>1,2,3</sup>, Satoru Nakata<sup>2</sup>, Hirohiko Akamatsu<sup>4</sup>, Kazumitsu Sugiura<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Fujita Health University School of Medicine, Aichi, Japan, <sup>2</sup>Research Laboratories, Nippon Menard Cosmetic Co., Ltd., <sup>3</sup>MENARD Collaborative Research Chair, Nagoya University Graduate School of Medicine, <sup>4</sup>Department of Applied Cell and Regenerative Medicine, Fujita Health University School of Medicine
- O2-48 [P08-09] Evaluation of endothelial cells derived from induced pluripotent stem cells from collagen disease patients.**  
○ Takaaki Hanafusa, Ken Igawa, Hiroo Yokozeki  
Department of Dermatology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University
- O2-49 [P08-12] Regulation of scar model cell behaviors: impacts of sulfated glycosaminoglycans and extracellular epimorphin**  
○ Tomoatsu Horigome<sup>1,2</sup>, Shinya Takumi<sup>2</sup>, Ayumi Nakashima<sup>2</sup>, Hiroko Yano<sup>2</sup>, Yohei Hirai<sup>1</sup>  
<sup>1</sup>Department of Bioscience, School of Science and Technology, Kwansai Gakuin University, Hyogo, Japan, <sup>2</sup>Kobayashi Pharmaceutical Co., Ltd.
- O2-50 [P08-13] Human hair-follicle associated pluripotent (HAP) stem cells differentiate to cardiac muscle cells**  
○ Netsuko Tohgi<sup>1</sup>, Koya Obama<sup>1</sup>, Yuko Hamada<sup>1</sup>, Nobuko Arakawa<sup>1</sup>, Masateru Yashiro<sup>1</sup>, Sumiyuki Mii<sup>1</sup>, Ryoichi Aki<sup>1</sup>, Robert M. Hoffman<sup>2,3</sup>, Yasuyuki Amoh<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, Kitasato University School of Medicine, <sup>2</sup>AntiCancer, Inc., San Diego, CA, <sup>3</sup>Department of Surgery, University of California San Diego, CA
- O2-51 [P08-14] To clarify the effect of the filaggrin gene mutation in keratinocytes by using CRISPR/Cas9 system and human induced pluripotent stem cells.**  
○ Ken Igawa, Hiroo Yokozeki  
Department of Dermatology, Tokyo Medical and Dental University, Tokyo, Japan
- O2-52 [P08-15] Hair follicle associated pluripotent (HAP) stem cell from young mice have the greatest potential to differentiate to cardiac muscle cells**  
○ Aiko Yamazaki<sup>1</sup>, Yuko Hamada<sup>1</sup>, Nobuko Arakawa<sup>1</sup>, Masateru Yashiro<sup>1</sup>, Sumiyuki Mii<sup>1</sup>, Ryoichi Aki<sup>1</sup>, Katsumasa Kawahara<sup>2,3</sup>, Robert M. Hoffman<sup>4,5</sup>, Yasuyuki Amoh<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Kitasato University school of Medical Sciences, <sup>2</sup>Department of Physiology, Kitasato University School of Medicine, <sup>3</sup>Department of Cellular & Molecular Physiology, Kitasato University Graduate school of Medical Sciences, <sup>4</sup>AntiCancer, Inc., San Diego, CA, <sup>5</sup>Department of Surgery, University of California San Diego, CA
- O2-53 [P08-16] Differentiation potential of adipose derived stem/stromal cells into keratinocytes**  
○ Yuichiro Maeda, Toshio Hasegawa, Akino Wada, Hideo Iida, Atsushi Sakamoto, Tatsuo Fukai, Shigaku Ikeda  
Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine
- O2-54 [P08-17] The role of collagen type 5 in the dermal stem cell niche**  
○ Yuichi Hasebe<sup>1,2</sup>, Seiji Hasegawa<sup>1,2,3</sup>, Yasushi Date<sup>1,2</sup>, Yuichirou Ogata<sup>1</sup>, Satoru Nakata<sup>1</sup>, Yohei Iwata<sup>3</sup>, Akiko Yagami<sup>3</sup>, Kazumitsu Sugiura<sup>3</sup>, Hirohiko Akamatsu<sup>4</sup>  
<sup>1</sup>NIPPON MENARD COSMETIC CO., LTD, <sup>2</sup>MENARD Collaborative Research Chair, Nagoya University Graduate School of Medicine, <sup>3</sup>Department of Dermatology, Fujita Health University School of Medicine, Aichi, Japan, <sup>4</sup>Department of Applied Cell and Regenerative Medicine, Fujita Health University School of Medicine
- O2-55 [P08-18] Hepatocyte growth factor reduces CXCL10 expression in keratinocytes**  
○ Mitsuhiro Hisadome<sup>1</sup>, Tomokazu Ohnishi<sup>2</sup>, Kyoko Kakimoto<sup>2</sup>, Joji Kusuyama<sup>2</sup>, Kenjiro Bandow<sup>2</sup>, Takuro Kanekura<sup>1</sup>, Tetsuya Matsuguchi<sup>2</sup>  
<sup>1</sup>The Department of Dermatology, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan, <sup>2</sup>The Department of Oral Biochemistry, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan
- O2-56 [L-01] DERMOSCOPE: DERMAVISION WITH BRILLANCE**  
○ Krishnakant B Pandya  
Consultant Dermatologist, The Rejuveneclic, Rajkot, INDIA
- O2-57 [L-07] Ambrisentan moderately, but not significantly, improved impaired wound healing by bleomycin treatment in mice**  
○ Masato Ishikawa, Toshiyuki Yamamoto  
Department of Dermatology, Fukushima Medical University
- O2-58 [L-11] Effects of a novel PPAR $\delta$  agonist NCP-1046 on the wound healing in animal models**  
○ Toshitake Hirai, Takaichi Hamano, Tomio Yamakawa  
Nippon Chemiphar Co., Ltd.

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## December 9, 2016, Room C

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### Concurrent Oral Session 3 (Tissue Regeneration/Stem Cell and Wound Healing)

9:00-10:24

Chairs: Ryuhei Okuyama, Emi Nishimura

- C03-1 [P08-03]**  
9:00-9:12  
**Hair follicle aging is driven by transepidermal elimination of stem cells via COL17A1 proteolysis**  
○ Hiroyuki Matsumura<sup>1</sup>, Yasuaki Mohri<sup>1</sup>, Hironobu Morinaga<sup>1</sup>, Makoto Fukuda<sup>1</sup>, Sotaro Kurata<sup>2</sup>, Emi K Nishimura<sup>1</sup>  
<sup>1</sup>Department of Stem cell medicine, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan, <sup>2</sup>Beppu Garden-Hill Clinic, Kurata Clinic, Beppu city, Oita, Japan.
- C03-2 [P08-04]**  
9:12-9:24  
**Tbx3-dependent proliferation of transit-amplifying cells drives interfollicular epidermal expansion during pregnancy and regeneration**  
○ Ryo Ichijo<sup>1</sup>, Hiroki Kobayashi<sup>1</sup>, Saori Yoneda<sup>1</sup>, Yui Iizuka<sup>1</sup>, Shigeru Matsumura<sup>1</sup>, Tetsuya Honda<sup>2</sup>, Fumiko Toyoshima<sup>1</sup>  
<sup>1</sup>Department of Cell Biology, Lab. of Subcellular Biogenesis Institute for Virus Research, <sup>2</sup>Department of Dermatology and Center for Innovation in Immunoregulative Technology and Therapeutics, Kyoto University Graduate School of Medicine
- C03-3 [P08-05]**  
9:24-9:36  
**Immunomodulatory activities of novel synthetic host defense peptide, angiogenic peptide (AG)-30/5C, in human keratinocytes**  
○ François Niyonsaba<sup>1,2</sup>, Chanisa Kiatsurayanon<sup>1,3,4</sup>, Panjit Chieosilapatham<sup>1,3</sup>, Ko Okumura<sup>1</sup>, Shigaku Ikeda<sup>1,3</sup>, Hideoki Ogawa<sup>1</sup>  
<sup>1</sup>Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan, <sup>2</sup>Faculty of International Liberal Arts, Juntendo University, Tokyo, Japan, <sup>3</sup>Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, Japan, <sup>4</sup>Institute of Dermatology, Department of Medical Services, Ministry of Public Health, Bangkok, Thailand
- C03-4 [P08-06]**  
9:36-9:48  
**Defining the stem cell lineages in the mouse inter-follicular epidermis**  
○ Aiko Sada<sup>1,2</sup>, Fadi Jacob<sup>2</sup>, Eva Leung<sup>2</sup>, Sherry Wang<sup>2</sup>, Brian S. White<sup>2,3</sup>, David Shalloway<sup>2</sup>, Tudorita Tumber<sup>2</sup>  
<sup>1</sup>Life Science Center, Tsukuba Advanced Research Alliance, University of Tsukuba, Japan, <sup>2</sup>Department of Molecular Biology and Genetics, Cornell University, USA, <sup>3</sup>McDonnell Genome Institute, Washington University, USA
- C03-5 [P08-07]**  
9:48-10:00  
**Cutaneous wound healing is exclusively slow and poor in human compared to those of other mammals including evolutionarily related primates**  
○ Daisuke Utsumi<sup>1</sup>, Akiko Matsumoto<sup>2</sup>, Ngalla Jillani<sup>3</sup>, Daniel Chai Chivastasi<sup>3</sup>, Atunga Nyachieo<sup>3</sup>, Kenzo Takahashi<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, University of the Ryukyus, Okinawa, Japan, <sup>2</sup>Department of Tourism Sciences and Industrial Management, University of the Ryukyus, Okinawa, Japan, <sup>3</sup>Institute of Primate Research, Nairobi, Kenya
- C03-6 [P08-11]**  
10:00-10:12  
**Wnt3a modulate self-maintained Muse cell population in human adipose derived stem cells.**  
○ Takeshi Yamauchi, Kenshi Yamasaki, Kenichiro Tsuchiyama, Saaya Koike, Setsuya Aiba  
Department of Dermatology, Tohoku University Graduate School of Medicine, Miyagi, Japan
- C03-7 [P08-08]**  
10:12-10:24  
**Botulinum toxin B suppresses oxidative stress and the formation of decubitus-like ulcer in cutaneous ischemia-reperfusion injury mouse model**  
○ Akiko Sekiguchi<sup>1</sup>, Akihiko Uchiyama<sup>1</sup>, Chisako Fujiwara<sup>1</sup>, Sachiko Ogino<sup>1</sup>, Yoko Yokoyama<sup>1</sup>, Ryoko Akai<sup>2</sup>, Takao Iwawaki<sup>2</sup>, Osamu Ishikawa<sup>1</sup>, Sei-ichiro Motegi<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi, Gunma, Japan, <sup>2</sup>Department of Life Science, Kanazawa Medical University, Kanazawa, Japan

### Luncheon Seminar 3 "Cancer Immunotherapy Comes of Age"

12:45-13:45

Chair: Hironobu Ihn

- LS3-1**  
**Tumor-associated macrophages in skin: how to treat their heterogeneity and plasticity**  
○ Taku Fujimura  
Department of Dermatology, Tohoku University Graduate School of Medicine
- LS3-2**  
**Basics and application of modern immune checkpoint inhibitors for melanoma**  
○ Alexander H. Enk  
Department of Dermatology, University of Heidelberg

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## Sweets Seminar 3

### "Novel Therapeutic Approach for Psoriasis"

15:35-16:35

Chair: Shinji Shimada

**SS3-1 Impact of Anti-TNF- $\alpha$  agents on Treatment for Psoriatic Arthritis**

○ Koichi Yanaba  
Department of Dermatology, The Jikei University School of Medicine

**SS3-2 Recent psoriasis research that verifies the effectiveness of biologics**

○ Shigetoshi Sano  
Department of Dermatology, Kochi Medical School, Kochi University

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## One-minute presentation "Come to see my poster" 3

(Hair and Cutaneous Development, Immunology 1: Adaptive Immunity, Immunology 2: Innate Immunity and Microbiology, Photobiology, Pigmentation and Melanoma, Late breaking abstract)

17:50-18:50

Chair: Tetsuya Honda

**O3-01 [P09-08] BNIP3 upregulation via stimulation of ERK and JNK activity is required for the protection of keratinocytes from UVB-induced apoptosis**

○ Mariko Moriyama, Takashi Morita, Takao Hayakawa, Hiroyuki Moriyama  
Pharmaceutical Research and Technology Institute, Kindai University, Osaka, Japan

**O3-02 [P09-09] An underlying mechanism of hair loss in acrodermatitis enteropathica**

○ Youichi Ogawa, Tatsuyoshi Kawamura, Shinji Shimada  
Department of Dermatology, University of Yamanashi, Yamanashi, Japan

**O3-03 [P09-10] The substantial role of asymmetric hair follicle differentiation in determining hair shape with ethnic/racial related diversity**

○ Naoki Oya<sup>1</sup>, Akira Hachiya<sup>1</sup>, Azumi Nagasawa<sup>1</sup>, Daiki Murase<sup>1</sup>, Anita Stepp<sup>2</sup>, Tsutomu Fujimura<sup>1</sup>, Shigeru Moriwaki<sup>1</sup>, Yoshinori Takema<sup>3</sup>, Cheng Ming Chuong<sup>4</sup>  
<sup>1</sup>Biological Science Laboratories, Kao Corporation, Tochigi, Japan, <sup>2</sup>Biological Science Americas Laboratory, Kao Corporation, Cincinnati, USA, <sup>3</sup>Research and Development Global, Kao Corporation, Sumida, Tokyo, Japan, <sup>4</sup>Department of Pathology, University of Southern California, Los Angeles, USA

**O3-04 [P09-11] Oculodentodigital syndrome diagnosed from hypotrichosis**

○ Tomoki Taki<sup>1</sup>, Takuya Takeichi<sup>1</sup>, Kazumitsu Sugiura<sup>2</sup>, Masashi Akiyama<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, University of Nagoya, Aichi, Japan, <sup>2</sup>Department of Dermatology, Fujita Health University, Aichi, Japan

**O3-05 [P09-12] Comparison of comedolytic effect of benzoyl peroxide and adapalene in rhino mice**

○ Keisuke Tabara<sup>1</sup>, Rie Tamura<sup>1</sup>, Kazuaki Okamoto<sup>1</sup>, Takamichi Kitano<sup>1</sup>, Yusuke Kumagai<sup>1</sup>, Shoji Kanayama<sup>1</sup>, Tomo Sasaki<sup>2</sup>, Takayasu Moroki<sup>2</sup>, Sachi Mori<sup>1</sup>, Fumiaki Ikeda<sup>1</sup>, Tatsumi Matsumoto<sup>1</sup>  
<sup>1</sup>Pharmacological Research Group, Drug Development Research Laboratories, Maruho Co., Ltd., <sup>2</sup>Toxicological Research Group, Drug Development Research Laboratories, Maruho Co., Ltd.

**O3-06 [P09-13] The effect of flavonoids on regenerated hair follicles with pigmentation.**

○ Nobuhiko Taguchi<sup>1,2</sup>, Minoru Yuriguchi<sup>2</sup>, Takumi Honma<sup>1</sup>, Toshihiro Hata<sup>1</sup>, Emi Kamiya<sup>1</sup>, Ai Kobayashi<sup>1</sup>, Ryosuke Kitai<sup>2</sup>, Hitomi Aoki<sup>2</sup>, Takahiro Kunisada<sup>2</sup>  
<sup>1</sup>General Research & Development Institute, Hoya Co., Ltd., <sup>2</sup>Department of Tissue and Organ Development, Gifu University Graduate School of Medicine

**O3-07 [P10-09] Notch signaling contributes to differentiation of mucosal mast cells and development of experimental food allergy**

○ Nobuhiro Nakano<sup>1</sup>, Asuka Honjo<sup>2</sup>, Ko Okumura<sup>1</sup>, Hideoki Ogawa<sup>1,3</sup>, Shigaku Ikeda<sup>1,3</sup>  
<sup>1</sup>Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan, <sup>2</sup>Department of Pediatrics and Adolescent Medicine, Juntendo University Graduate School of Medicine, Tokyo, Japan, <sup>3</sup>Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, Japan

- O3-08 [P10-10] Commensal microbe-derived short-chain fatty acids regulate cutaneous immunity via IL-10 releasing regulatory T cells**  
 ○ Schwarz Agatha, Anika Bruhs, Thomas Schwarz  
 Department of Dermatology, University Kiel, Kiel, Germany
- O3-09 [P10-11] Possible immunomodulatory effects of tumor-associated macrophages in RANKL expressing apocrine-origin cancers**  
 ○ Yota Sato, Sadanori Furudate, Taku Fujimura, Yumi Kambayashi, Aya Kakizaki, Setsuya Aiba  
 The Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan
- O3-10 [P10-12] Evaluation of in-vitro diagnostic methods for identifying the culprit drugs in drug hypersensitivity**  
 ○ Kenichi Kato<sup>1</sup>, Hiroaki Azukizawa<sup>2</sup>, Takaaki Hanafusa<sup>3</sup>, Yukinobu Nakagawa<sup>1</sup>, Ichiro Katayama<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Course of Integrated Medicine, Osaka University, Osaka, Japan, <sup>2</sup>Department of Dermatology, Nara Medical University, Nara, Japan, <sup>3</sup>Department of Dermatology, Tokyo Medical and Dental University, Tokyo, Japan
- O3-11 [P10-13] IL-10 producing plasmablasts that increase at an acute phase of herpes zoster**  
 ○ Kensuke Fukuchi, Kazuki Tatsuno, Takatoshi Shimauchi, Yoshiki Tokura  
 The Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, Shizuoka, Japan
- O3-12 [P10-14] Proposal of the existence of an inducible skin-associated lymphoid tissue (iSALT) in the cutaneous lesion of secondary syphilis**  
 ○ Toshiaki Kogame<sup>1</sup>, Takashi Nomura<sup>1</sup>, Tatsuki R Kataoka<sup>2</sup>, Masahiro Hirata<sup>2</sup>, Chiyuki Ueshima<sup>2</sup>, Kenji Kabashima<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, <sup>2</sup>Department of Diagnostic Pathology, Kyoto University Hospital
- O3-13 [P11-11] TLR signaling regulates the expression of serine protease inhibitors in epidermal keratinocytes**  
 ○ Saeko Sugimoto, Shin Morizane, Satoru Sugihara, Mina Kobashi, Keiji Iwatsuki  
 The Department of Dermatology, University of Okayama, Okayama, Japan
- O3-14 [P11-12] Insights into the role of immunosenescence during varicella zoster virus infection (shingles) in the aging cell model**  
 JiAe Kim<sup>1</sup>, Seulki Park<sup>1</sup>, Mukesh Kumar<sup>2</sup>, Chanhee Lee<sup>3</sup>, ○ Ok Sarah Shin<sup>1</sup>  
<sup>1</sup>The Department of Biomedical Science, Korea University School of Medicine, Seoul, Korea, <sup>2</sup>Department of Tropical Medicine, Medical Microbiology and Pharmacology, University of Hawaii at Manoa, Honolulu, HI, USA, <sup>3</sup>Department of Microbiology, Chungbuk National University, Republic of Korea
- O3-15 [P11-13] Topical treatment with nano-sized particles of cyanoacryl polymer ameliorates experimental dermatitis through bactericidal effect.**  
 ○ Mayuko Yamamoto<sup>1</sup>, Michiyuki Kasai<sup>2</sup>, Ayano Kawaguchi<sup>3</sup>, Katsuhide Suzuki<sup>3</sup>, Reiko Kamijima<sup>1</sup>, Shoichi Shirotake<sup>4</sup>, Keiko Udaka<sup>2</sup>, Shigetoshi Sano<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Kochi Medical School, Kochi University, Nankoku, Japan, <sup>2</sup>Department of immunology, Kochi Medical School, Kochi University, <sup>3</sup>Department of Innovative Medicine Course, Kochi Medical School, Kochi University, <sup>4</sup>Department of Center for Innovative and Translational Medicine, Kochi Medical School, Kochi University
- O3-16 [P11-14] Eosinophil infiltration and Kallikrein 5 are involved in itching of mycosis fungoides**  
 ○ Kyoko Shimizu<sup>1</sup>, Tsugunobu Andoh<sup>2</sup>, Yoko Yoshihisa<sup>1</sup>, Megumi Mizawa<sup>1</sup>, Teruhiko Makino<sup>1</sup>, Tadamichi Shimizu<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan, <sup>2</sup>The Department of Applied pharmacology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan
- O3-17 [P11-15] Antimicrobial peptide derived from IGFBP-5 (AMP-IBP5) stimulates various functions of human keratinocytes**  
 ○ Panjit Chieosilapatham<sup>1,2</sup>, François Niyonsaba<sup>1</sup>, Chanisa Kiatsurayanon<sup>1,2</sup>, Ko Okumura<sup>1</sup>, Shigaku Ikeda<sup>1,2</sup>, Hideoki Ogawa<sup>1</sup>  
<sup>1</sup>Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan, <sup>2</sup>Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, Japan
- O3-18 [P11-16] Investigating the role of Langerhans cells in primary cutaneous melanoma**  
 ○ Judith Seidel, Atsushi Otsuka, Kenji Kabashima  
 Department of Dermatology, Kyoto University
- O3-19 [P11-17] The double-stranded RNA induces IL-33 expression through activation of EGFR, ERK, p38 and TBK-1 in normal human epidermal keratinocytes**  
 ○ Meijuan Jin<sup>1</sup>, Mayumi Komine<sup>1</sup>, Hidetoshi Tsuda<sup>1</sup>, Shin-ichi Tominaga<sup>2</sup>, Mamitaro Ohtsuki<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, Jichi Medical University, Tochigi, Japan, <sup>2</sup>The Department of Pathology, Jichi Medical University, Tochigi, Japan
- O3-20 [P11-18] Malleable liposome targeting to hair follicle for eradicating MRSA**  
 ○ Jia-You Fang<sup>1</sup>, Shih-Chun Yang<sup>1,2</sup>, Yi-Han Weng<sup>1</sup>  
<sup>1</sup>Graduate Institute of Natural Products, Chang Gung University, Taoyuan, Taiwan, <sup>2</sup>Research Center for Industry of Human Ecology, Chang Gung University of Science and Technology, Taoyuan, Taiwan

- O3-21 [P11-19] Effects of antimicrobial peptide LL-37 on expression of natural moisturizing factor-generating proteases in epidermal keratinocytes**  
○ Yoshie Umehara<sup>1</sup>, Yayoi Kamata<sup>1</sup>, Mitsutoshi Tominaga<sup>1</sup>, François Niyonsaba<sup>2,3</sup>, Azumi Sakaguchi<sup>1</sup>, Hideoki Ogawa<sup>1,2</sup>, Kenji Takamori<sup>1,4</sup>  
<sup>1</sup>Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, Japan, <sup>2</sup>Atopy (Allergy) Research Center, Juntendo University School of Medicine, Tokyo, Japan, <sup>3</sup>Faculty of International Liberal Arts, Juntendo University, Tokyo, Japan, <sup>4</sup>Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan
- O3-22 [P11-20] Herpes simplex virus type 1 entry and replication in the keratinocytes depends on extracellular calcium concentration**  
○ Takenobu Yamamoto, Yoshiko Yamamoto, Wataru Fujimoto  
Department of Dermatology, Kawasaki medical school, Kurashiki, Japan
- O3-23 [P11-21] Semi-automated quantitative analysis of the human skin microbiome diversity**  
○ Chihiro Kumagai<sup>1</sup>, Yukuto Sato<sup>2</sup>, Riu Yamashita<sup>3</sup>, Masao Nagasaki<sup>3</sup>, Kenshi Yamasaki<sup>1</sup>, Setsuya Aiba<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, University of Tohoku, Miyagi, Japan, <sup>2</sup>Organization for Research Promotion, University of Ryukyus, Okinawa, Japan, <sup>3</sup>Tohoku Medical Megabank Organization, Miyagi, Japan
- O3-24 [P11-22] Tropomyosin is minor but distinct allergen in the patients with shrimp allergies**  
○ Onon Tsendendorj<sup>1</sup>, Yuko Chinuki<sup>1</sup>, Kiyoe Ueda<sup>1</sup>, Hitoshi Takahashi<sup>1</sup>, Atsuko Adachi<sup>2</sup>, Eishin Morita<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, University of Shimane, Izumo, Japan, <sup>2</sup>The Department of Dermatology, Hyogo Prefectural Kakogawa Hospital, Kakogawa, Japan
- O3-25 [P11-23] In Vitro Antifungal Activity of Kampo Medicine against Dermatophytes**  
○ Xia Da, Eishin Morita  
Department of Dermatology, Shimane University Faculty of Medicine, Shimane, Japan
- O3-26 [P11-24] Protothecosis in tertiary referral medical centers in Taiwan**  
○ Han-Chi Tseng<sup>1</sup>, Hsin-Wei Huang<sup>1</sup>, Chun-Bing Chen<sup>2</sup>, Pei-Lun Sun<sup>2</sup>, Wen-Hung Chun<sup>2</sup>, Tseng-Tong Kuo<sup>3</sup>, Yu-Wen Cheng<sup>1</sup>, Chih-Hung Lee<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Chang Gung Memorial Hospital-Kaohsiung Medical Center, Chang Gung University College of Medicine, Kaohsiung, Taiwan, <sup>2</sup>Department of Dermatology, Chang Gung Memorial Hospital; Linkou Medical Center, Chang Gung University College of Medicine, Taoyuan, Taiwan, <sup>3</sup>Department of Pathology, Chang Gung Memorial Hospital; Linkou Medical Center, Chang Gung University College of Medicine, Taoyuan, Taiwan
- O3-27 [P11-25] Is neutrophil the dominant IL-17 producer in psoriasis?**  
○ Keiichi Yamanaka, Akisa Yamagiwa, Tomoko Akeda, Hitoshi Mizutani  
The Department of Dermatology, Mie University, Graduate School of Medicine
- O3-28 [P11-26] Pytiosporum folliculitis presenting as targetoid lesions in Polycythemia vera: A Case Report in a 52 year old Filipino male**  
○ Troy Michael P. Dizon, Johannes Dayrit, Ma. Luisa Concepcion  
Department of Internal Medicine, De La Salle University Medical Center, Dasmariñas City, Cavite
- O3-29 [P12-05] Interaction of fibroblasts with ECM via integrin might induce plasmin and more activate MMP-1 in real skin.**  
○ Aska Sonoki, Shuhei Takemura, Megumi Konishi, Yuichiro Yoshitake  
OPPEN COSMETICS CO., LTD.
- O3-30 [P12-06] Decreased repair function of radiation-induced DNA damage on cultured fibroblasts derived from patients with xeroderma pigmentosum variant.**  
○ Toshihiro Otsuka<sup>1</sup>, Hideaki Tanizaki<sup>1</sup>, Teruo Kurokawa<sup>1</sup>, Shinichi Moriwaki<sup>1</sup>, Asako Nakamura<sup>2</sup>  
<sup>1</sup>The Department of Dermatology, Osaka Medical College, Osaka, Japan, <sup>2</sup>College of Science, Ibaraki University, Mito, Japan
- O3-31 [P12-08] Ultraviolet irradiation induced inhibition of adipokine production in subcutaneous fat aggravates dermal matrix degradation in human skin**  
Eun Ju Kim<sup>1,2,3</sup>, Yeon Kyung Kim<sup>1,2,3</sup>, Min-Kyoung Kim<sup>1,2,3</sup>, Sungsoo Kim<sup>1,2,3</sup>, Jin Yong Kim<sup>1,2,3</sup>, ○ Dong Hun Lee<sup>1,2,3</sup>, Jin Ho Chung<sup>1,2,3,4</sup>  
<sup>1</sup>Department of Dermatology, Seoul National University College of Medicine, <sup>2</sup>Laboratory of Cutaneous Aging Research, Biomedical Research Institute, Seoul National University Hospital, Seoul, Republic of Korea, <sup>3</sup>Institute of Human-Environment Interface Biology, Seoul National University, Seoul, Republic of Korea, <sup>4</sup>Institute on Aging, Seoul National University, Seoul, Republic of Korea
- O3-32 [P12-09] Co-regulation of Cxcl1 and versican in inflammatory response in UVB induced reactive oxygen species in the skin**  
○ Chihiro Takemori<sup>1</sup>, Makoto Kunisada<sup>1</sup>, Flandiana Yogianti<sup>1,2</sup>, Sugako Oka<sup>3</sup>, Kunihiko Sakumi<sup>3</sup>, Ryusuke Ono<sup>1</sup>, Yusaku Nakabeppu<sup>3</sup>, Chikako Nishigori<sup>1</sup>  
<sup>1</sup>Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe, Japan, <sup>2</sup>Department of Dermatology and Venereology, Faculty of Medicine, Gadjah Mada University, Yogyakarta, Indonesia, <sup>3</sup>Division of Neurofunctional Genomics, Medical Institute of Bioregulation, Kyusyu University, Fukuoka, Japan

- O3-33 [P12-10] Apigenin inhibit UV-induced melanogenesis through activation of MIF and PAR-2 expression in keratinocytes**  
 ○ Yoko Yoshihisa<sup>1</sup>, Kenji Matsunaga<sup>1</sup>, Mati Ur Rehman<sup>2</sup>, Tadamichi Shimizu<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan, <sup>2</sup>Department of Radiological Sciences, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan
- O3-34 [P12-11] Differential immunological effects of infrared irradiation and its associated heat in vivo**  
 ○ Chih-Hung Lee<sup>1,2</sup>, Chien-Hui Hong<sup>3,4</sup>, Wei-Ting Liao<sup>5</sup>, Hsin-Su Yu<sup>5,6</sup>  
<sup>1</sup>Department of Dermatology, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan, <sup>2</sup>Chang Gung University College of Medicine, Taoyuan, Taiwan, <sup>3</sup>National Yang Ming University, Taipei, Taiwan, <sup>4</sup>Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan, <sup>5</sup>Kaohsiung Medical University, Kaohsiung, Taiwan, <sup>6</sup>National Environmental Research Center, National Health Research Institutes, Zhunan, Taiwan
- O3-35 [P12-12] A novel UVA1 phototherapy using light-emitting diodes for scleroderma treatment**  
 ○ Hideyuki Masuda<sup>1</sup>, Makoto Kimura<sup>2</sup>, Akimichi Morita<sup>1</sup>  
<sup>1</sup>Department of Geriatric and Environmental Dermatology, Nagoya City University, Graduate School of Medical Sciences, Nagoya, Japan, <sup>2</sup>USHIO INC.
- O3-36 [P12-13] Comparison of gene expression profiles of keratinocytes irradiated with narrow-band UVB and excimer light**  
 Mayuko Tahara, ○ Yukinobu Nakagawa, Hiroyuki Murota, Ichiro Katayama  
 The Department of Dermatology, Osaka University, Suita, Japan
- O3-37 [P12-14] Mitotic genes are transcriptionally upregulated in the fibroblast irradiated with very low doses of UV-C**  
 ○ Seiji Takeuchi<sup>1</sup>, Toshiro Matsuda<sup>2</sup>, Ryusuke Ono<sup>1</sup>, Mariko Tsujimoto<sup>1</sup>, Chikako Nishigori<sup>1</sup>  
<sup>1</sup>Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe, Japan, <sup>2</sup>Kindai University Atomic Energy Research Institute
- O3-38 [P12-15] Persistent inflammation in photo-aged skin**  
 ○ Masaki Yoshida<sup>1,2</sup>, Shunji Itoh<sup>3</sup>, Ikuji Hatamura<sup>3</sup>, Nobuo Nagai<sup>1</sup>  
<sup>1</sup>Nagahama Institute of Bio-science and Technology, <sup>2</sup>Kracie Pharma LTD, <sup>3</sup>Kansai University of Health Science
- O3-39 [P13-09] 3-O-Hexylglyceryl ascorbate suppresses melanogenesis through the inhibition of melanosome transfer**  
 ○ Yushi Katsuyama<sup>1</sup>, Norihisa Taira<sup>1</sup>, Sayaka Nakamura<sup>1</sup>, Hitoshi Masaki<sup>2</sup>, Masato Yoshioka<sup>1</sup>  
<sup>1</sup>SEIWA KASEI CO., LTD, Osaka, Japan, <sup>2</sup>School of Bioscience and Biotechnology, Tokyo University of Technology, Tokyo, Japan
- O3-40 [P13-10] Transient receptor potential cation channel 3 (TRPC3) regulates tumor proliferation and migration of BRAF wild type human malignant melanoma**  
 ○ Kayoko Oda<sup>1</sup>, Masanari Umemura<sup>2</sup>, Itaru Sato<sup>2</sup>, Akane Nagasako<sup>2</sup>, Chiaki Oyamada<sup>2</sup>, Mayumi Katsumata<sup>2</sup>, Rina Nakakagi<sup>2</sup>, Masatoshi Narikawa<sup>2</sup>, Taisuke Akimoto<sup>2</sup>, Makoto Ohtake<sup>2</sup>, Yukie Yamaguchi<sup>1</sup>, Michiko Aihara<sup>1</sup>, Yoshihiro Ishikawa<sup>2</sup>  
<sup>1</sup>Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, <sup>2</sup>Cardiovascular Research Institute, Yokohama City University Graduate School of Medicine
- O3-41 [P13-11] Subcellular localization of tyrosinase R77Q, H211Y and P431L mutants in lentivirus transfected HeLa cells**  
 ○ Ayako Teramae<sup>1</sup>, Yui Kobayashi<sup>1</sup>, Kazuyoshi Fukai<sup>1</sup>, Hiroyuki Kunimoto<sup>2</sup>, Koichi Nakajima<sup>2</sup>, Daisuke Tsuruta<sup>1</sup>  
<sup>1</sup>Dermatology, Osaka City University, <sup>2</sup>Immunology, Osaka City University
- O3-42 [P13-12] Effect of riluzole, caffeine, forskolin, and rolipram on melanomagenesis in metabotropic glutamate receptor 1 transgenic mouse**  
 ○ Yoko Funasaka<sup>1</sup>, Abdel-Daim Mohamed<sup>2</sup>, Hidehisa Saeki<sup>1</sup>, Chikako Nishigori<sup>2</sup>  
<sup>1</sup>Department of Dermatology, Nippon Medical School, <sup>2</sup>Department of Dermatology, Kobe University Graduate School of Medicine
- O3-43 [P13-13] Impact of skin color on phenotypes of dyschromatosis symmetrica hereditaria and Aicardi-Goutières syndrome 6 caused by ADAR1 mutations**  
 ○ Michihiro Kono<sup>1</sup>, Fumihiro Matsumoto<sup>2</sup>, Yasuhiro Suzuki<sup>2</sup>, Mutsumi Suganuma<sup>1</sup>, Hiroto Saito<sup>3</sup>, Yasutomo Ito<sup>4</sup>, Sakuhei Fujiwara<sup>5</sup>, Shinichi Moriwaki<sup>6</sup>, Kazuhiko Matsumoto<sup>7</sup>, Naomichi Matsumoto<sup>3</sup>, Yasushi Tomita<sup>1</sup>, Kazumitsu Sugiura<sup>1</sup>, Masashi Akiyama<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, <sup>2</sup>Department of Pediatric Neurology, Osaka Medical Center and Research Institute for Maternal and Child Health, Izumi, Japan, <sup>3</sup>Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan, <sup>4</sup>Division for Medical Research Engineering, Nagoya University Graduate School of Medicine, Nagoya, Japan, <sup>5</sup>Department of Dermatology, Oita University Faculty of Medicine, Yufu, Japan, <sup>6</sup>Department of Dermatology, Osaka Medical College, Takatsuki, Japan, <sup>7</sup>Department of Dermatology, Shinshu University School of Medicine, Matsumoto, Japan
- O3-44 [P13-14] Peroxisome proliferator-activated receptor gamma coactivator-1 $\alpha$  in melanoma**  
 ○ Ying Yi Lu<sup>1,2</sup>, Chun Ching Lu<sup>3</sup>, Chieh Hsin Wu<sup>2,4</sup>  
<sup>1</sup>Department of Dermatology, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan, <sup>2</sup>Graduate Institute Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan, <sup>3</sup>Department of Orthopedics, Taipei Veterans General Hospital, Taipei, Taiwan, <sup>4</sup>Division of Neurosurgery, Department of Surgery, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung, Taiwan

- O3-45 [P13-15]**      **Analysis of NY-ESO-1 cancer/testis antigen expression in Japanese malignant melanoma patients**  
○ Mami Momose, Munenari Itoh, Yoshimasa Nobeyama, Hidemi Nakagawa  
The Department of Dermatology, The Jikei University school of Medicine, Tokyo, Japan
- O3-46 [P13-16]**      **Novel imaging and quantification methods for the evaluation of disease severity in vitiligo and chemical leukoderma**  
○ Masahiro Hayashi<sup>1</sup>, Ken Okamura<sup>1</sup>, Yuta Araki<sup>1</sup>, Masami Suzuki<sup>2</sup>, Tomoyo Tanaka<sup>2</sup>, Yutaka Hozumi<sup>1</sup>, Shoko Nakano<sup>1</sup>, Junko Yoshizawa<sup>1</sup>, Masukazu Inoue<sup>2</sup>, Tamio Suzuki<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Yamagata University School of Medicine, Yamagata, Japan, <sup>2</sup>Japan Tissue Engineering Co., Ltd.
- O3-47 [P13-17]**      **Immunological analysis of the patients with vitiligo vulgaris and rhododendron-induced leukoderma**  
○ Noriko Arase<sup>1</sup>, Atsushi Tanemura<sup>1</sup>, Lingli Yang<sup>1</sup>, Hui Jin<sup>2</sup>, Megumi Nishioka<sup>1</sup>, Fei Yang<sup>1</sup>, Yumi Aoyama<sup>4</sup>, Tadahiro Suenaga<sup>2,3</sup>, Hisashi Arase<sup>2,3</sup>, Ichiro Katayama<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka, Japan, <sup>2</sup>Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, <sup>3</sup>Laboratory of Immunochemistry, WPI Immunology Frontier Research Center, Osaka University, <sup>4</sup>Kawasaki hospital, Kawasaki medical school
- O3-48 [P13-18]**      **Dynamic visualization of dendritic cells in the skin from patients with vitiligo or rhododendron-induced leukoderma**  
○ Fei Yang, Mari Wataya-Kaneda, Lingli Yang, Atsushi Tanemura, Ichiro Katayama  
Department of Dermatology, Course of Integrated Medicine, Graduate School of Medicine, Osaka University
- O3-49 [P13-19]**      **Endoplasmic reticulum stress in melanocytes in hypomelanosis of Ito**  
○ Naoki Oiso, Akira Kawada  
Department of Dermatology, Kindai University Faculty of Medicine
- O3-50 [L-04]**      **Repeated application of different types of hapten drives immunologically distinct chronic contact hypersensitivity**  
○ Tae-Gyun Kim<sup>1,2</sup>, Jeyun Park<sup>1,2</sup>, Sung Hee Kim<sup>2</sup>, Minseok Lee<sup>2</sup>, Jae Won Lee<sup>2</sup>, Hae-Jin Lee<sup>2</sup>, Min-Geol Lee<sup>1,2</sup>  
<sup>1</sup>BK21 Project for Medical Science, Yonsei University College of Medicine, Seoul, Korea, <sup>2</sup>Cutaneous Biology Research Institute, Department of Dermatology, Yonsei University College of Medicine, Seoul, Korea
- O3-51 [L-08]**      **Enhancement of macrophage functions by flavonoid glucuronides via deconjugation and agonism for nuclear estrogen receptors in macrophages**  
○ Atsushi Kaneko<sup>1</sup>, Setsuya Aiba<sup>2</sup>, Kenshi Yamasaki<sup>2</sup>  
<sup>1</sup>Tsumura Research Laboratories, Tsumura & Co., Ibaraki, Japan, <sup>2</sup>Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan
- O3-52 [L-09]**      **Loss of epidermal PLCg1 induced sebaceous gland hyperplasia and sparse hair**  
○ Takatsugu Fukuyama<sup>1</sup>, Chiho Toyoda<sup>1</sup>, Yoshikazu Nakamura<sup>1,2,3</sup>, Kiyoko Fukami<sup>1,3</sup>  
<sup>1</sup>Laboratory of Genome and Biosignals, School of Life Sciences, Tokyo University of Pharmacy and Life Sciences, <sup>2</sup>PRIME, AMED, <sup>3</sup>AMED-CREST
- O3-53 [L-15]**      **Evaluation of 14 Thai herbs with free radical scavenging activity and enzyme inhibitory behavior**  
○ Moragot Chatatikun<sup>1</sup>, Anchalee Chiabchalard<sup>2</sup>  
<sup>1</sup>Ph.D. Program in Clinical Biochemistry and Molecular Medicine, Department of Clinical Chemistry, Faculty of Allied Health Sciences, Chulalongkorn University, Bangkok, Thailand, <sup>2</sup>Center for Excellence in Omics-Nano Medical Technology Development Project, Department of Clinical Chemistry, Faculty of Allied Health Sciences, Chulalongkorn University, Bangkok, Thailand
- O3-54 [L-17]**      **TPA inhibits melanoma growth through inactivation of STAT3 through protein tyrosine phosphatases**  
○ Tetsushi Iwasaki<sup>1,2,3</sup>, Miwa Yamauchi<sup>1</sup>, Zhu Liang<sup>2</sup>, Ayano Itai<sup>3</sup>, Masanobu Sakaguchi<sup>4</sup>, Taiki Nagano<sup>1</sup>, Shinji Kamada<sup>1,2,3</sup>, Masahiro Oka<sup>4</sup>  
<sup>1</sup>Biosignal Research Center, Kobe University, <sup>2</sup>Department of Biology, Graduate School of Science, Kobe University, <sup>3</sup>Department of Biology, Faculty of Science, Kobe University, <sup>4</sup>Divisions of Dermatology, Faculty of Medicine, Tohoku Medical and Pharmaceutical University
- O3-55 [L-19]**      **Can skin microbes predispose you to eczema?**  
Kern Rei Ng<sup>1</sup>, Angeline Tay<sup>2</sup>, Chanhao Li<sup>1</sup>, Amanda Ng<sup>1</sup>, Bani Kaur Suri<sup>3</sup>, Sri Anusha Matta<sup>3</sup>, Colin Wong<sup>2</sup>, Andreas Wilm<sup>1</sup>, Birgit Lane<sup>2</sup>, Fook Tim Chew<sup>3</sup>, Niranjana Nagarajan<sup>1</sup>, ○ John Common<sup>2</sup>  
<sup>1</sup>Genome Institute of Singapore, <sup>2</sup>Institute of Medical Biology, <sup>3</sup>National University of Singapore
- O3-56 [L-21]**      **The effect of Rosa Roxburghii extract on imparting relief from sun induced irritation and inflammation**  
S Takayama<sup>1</sup>, R Sapna<sup>2</sup>, R Shilpakar<sup>2</sup>, M. Sachdev<sup>2</sup>, ○ A Iddamalgoda<sup>1</sup>  
<sup>1</sup>Ichimaru Pharcos Co., Ltd, Gifu, Japan, <sup>2</sup>MS Clinical Research Pvt. Ltd, Bangalore, India



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## December 9, 2016, Room D

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### Concurrent Oral Session 4 (Pigmentation and Melanoma)

9:00-10:24

Chairs: Tamio Suzuki, Toshiyuki Yamamoto, Nikolas Haass

- C04-1 [P13-02]**  
9:00-9:12  
**Melanoma spheroid culture identifies miR-519d as an oncogene in melanoma**  
○ Yi-Hua Liao<sup>1</sup>, Chun-Ju Lin<sup>1</sup>, Shiou-Hwa Jee<sup>2</sup>  
<sup>1</sup>Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, Taiwan, <sup>2</sup>Department of Dermatology, Cathay General Hospital, Taipei, Taiwan
- C04-2 [P13-03]**  
9:12-9:24  
**IFN- $\beta$  augments the anti-tumor effects of PD-1 Abs in melanoma: the possible immunotherapy for metastatic melanoma.**  
○ Aya Kakizaki, Taku Fujimura, Sadanori Furudate, Yumi Kambayashi, Setsuya Aiba  
Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan
- C04-3 [P13-04]**  
9:24-9:36  
**Intratumoral expression levels of PD-L1, GZMA, and HLA-A along with oligoclonal T cell expansion associate with response to nivolumab**  
○ Satoshi Fukushima<sup>1</sup>, Hiroyuki Inoue<sup>2</sup>, Jae-Hyun Park<sup>3</sup>, Kazuma Kiyotani<sup>2</sup>, Makda Zewde<sup>2</sup>, Azusa Miyashita<sup>1</sup>, Masatoshi Jinnin<sup>1</sup>, Yukiko Kuniwa<sup>3</sup>, Yasuhiro Fujisawa<sup>4</sup>, Hiroshi Kato<sup>5</sup>, Jun Asai<sup>6</sup>, Kenji Yokota<sup>7</sup>, Hironobu Ihn<sup>1</sup>, Yusuke Nakamura<sup>2</sup>  
<sup>1</sup>Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan, <sup>2</sup>Department of Medicine, The University of Chicago, Chicago, USA, <sup>3</sup>Department of Dermatology, Shinshu University School of Medicine, Matsumoto, Japan, <sup>4</sup>Department of Dermatology, Faculty of Medicine, The University of Tsukuba, Tsukuba, Japan, <sup>5</sup>Department of Geriatric and Environmental Dermatology, Nagoya City University, Graduate School of Medical Sciences, Nagoya, Japan, <sup>6</sup>Department of Dermatology, Kyoto Prefectural University of Medicine, Graduate School of Medical Science, Kyoto, Japan, <sup>7</sup>Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan
- C04-4 [P13-05]**  
9:36-9:48  
**Acquired resistance to dabrafenib and trametinib co-treatment in cutaneous melanoma involves endothelin-1 (ET-1) and Akt activation**  
○ Chia-Yu Chu, Yi-Shuan Sheen, Yi-Xuan Chen  
Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, Taiwan
- C04-5 [P13-06]**  
9:48-10:00  
**The significance of over-expression of NUA2 on the survival of patients with acral melanomas and its relevance with DNA copy number gain**  
○ Takeshi Namiki<sup>1</sup>, Kohei Nojima<sup>1</sup>, Masato Funazumi<sup>1</sup>, Masashi Ishikawa<sup>2</sup>, Yasuhiko Kaneko<sup>3</sup>, Atsushi Tanemura<sup>4</sup>, Ichiro Katayama<sup>4</sup>, Taisuke Mori<sup>5</sup>, Naoya Yamazaki<sup>6</sup>, Hiroo Yokozeiki<sup>1</sup>, Vincent J. Hearing<sup>7</sup>  
<sup>1</sup>The Department of Dermatology, Tokyo Medical and Dental University, Tokyo, Japan, <sup>2</sup>The Department of Dermatology, Saitama Cancer Center, Saitama, Japan, <sup>3</sup>Research Institute for Clinical Oncology, Saitama Cancer Center, Saitama, Japan, <sup>4</sup>The Department of Dermatology, Osaka University, Osaka, Japan, <sup>5</sup>The Department of Pathology, National Cancer Center Hospital, Tokyo, Japan, <sup>6</sup>The Department of Dermatologic Oncology, National Cancer Center Hospital, Tokyo, Japan, <sup>7</sup>Laboratory of Cell Biology, National Cancer Institute, National Institutes of Health, MD, USA
- C04-6 [P13-07]**  
10:00-10:12  
**TLR3 Agonists Poly(I:C) Enhances Melanosome Uptake by Normal Human Epidermal Keratinocytes.**  
○ Saaya Koike, Kenshi Yamasaki, Takeshi Yamauchi, Kenichiro Tsutiyama, Setsuya Aiba  
Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan
- C04-7 [P13-08]**  
10:12-10:24  
**Studies on phagocytic activity of human dermal fibroblast (HDF) activated with macrophage activating factors.**  
○ Haruka Kohda<sup>1</sup>, Mika Fukuda<sup>2</sup>, Yuma Arata<sup>2</sup>, Mami Ishikawa<sup>1</sup>, Hirokazu Ishii<sup>3</sup>, Hideya Ando<sup>4</sup>, Masamitsu Ichihashi<sup>5</sup>, Masahiro Ishizuka<sup>6</sup>, Hitoshi Nakagawa<sup>6</sup>, Yuya Kitajima<sup>6</sup>, Takahito Nishikata<sup>2</sup>  
<sup>1</sup>Graduate of Frontiers of Innovative Research in Science and Technology (FIRST), Konan University, Kobe, Japan, <sup>2</sup>Frontiers of Innovative Research in Science and Technology (FIRST), Konan University, Kobe, Japan, <sup>3</sup>Marine Biological Laboratory, Woods Hole, MA, USA, <sup>4</sup>Department of Applied Chemistry and Biotechnology, Okayama University of Science, Okayama, Japan, <sup>5</sup>SAISEI MIRAI Clinic Kobe, Kobe, Japan, <sup>6</sup>SBI Pharmaceuticals Co., Ltd., Kobe, Japan

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## December 9, 2016, Poster Venue (Welcome Reception)

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### Award Ceremony

Chair: Shinichi Sato

19:40-20:15

### JSID's Fellowship Shiseido Research Grant

Presenter: Shinji Inomata

#### **Development of new treatment for intractable diabetic wounds**

○ Sei-Ichiro Motegi

Department of Dermatology, Gunma University Graduate School of Medicine

#### **Development of a novel targeted therapy against melanomas by induction of apoptosis**

○ Takeshi Namiki

Department of Dermatology, Tokyo Medical and Dental University

### Diploma of Dermatological Scientist

Presenter: Shinichi Sato

Pawinee Rerknimitr, Division of Dermatology, Faculty of Medicine, Chulalongkorn University

### SID/JSID Young Fellow Collegiality Awards

Presenter: Alice Pentland

Toshiya Takahashi, University of California

Emi Sato, University of California

### ESDR/JSID Young Fellow Collegiality Awards

Presenter: Matthias Schmuth

TBA

### ASDR/JSID Exchange Program

Presenter: Nikolas K. Haass

Miko Yamada, The University of Queensland

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## December 10, 2016, Room A

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### Morning Seminar 1

#### "A New Era for Psoriasis Treatment"

8:00-8:50

Chairs: Yoshiki Tokura, Kenji Kabashima

**MS1      Rapid Advancements in Understanding the Role of IL-17 in Host Defense and Human Disease**

- Brian J. Nickoloff
- Senior Medical Fellow, Global Medical-Autoimmune, Eli Lilly and Company

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

### Concurrent Oral Session 5

#### (Immunology 2: Innate Immunity and Microbiology)

9:00-10:36

Chairs: Tatsuyoshi Kawamura, Hayato Takahashi, Anna Di Nardo

**C05-1      TRPV4 is a key driver for mast cell activation in LL37-mediated skin inflammation**

[P11-03]  
9:00-9:12

- Anna Di\_Nardo, Nicholas Mascarenhas, Zhenping Wang
- Department of Dermatology, University of California San Diego, La Jolla, USA

**C05-2      Cell-to-cell contact with HTLV-1-infected T cell reduces dendritic cell immune functions and contributes to infection in trans.**

[P11-04]  
9:12-9:24

- Takatoshi Shimauchi<sup>1</sup>, Stephan Caucheteux<sup>2</sup>, Jocelyn Turpin<sup>3</sup>, Katja Finsterbusch<sup>2</sup>, Charles RM Bangham<sup>3</sup>, Yoshiki Tokura<sup>1</sup>, Vincent Piguet<sup>2</sup>

<sup>1</sup>Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, Japan, <sup>2</sup>Department of Dermatology, Institute of Infection & Immunity, Cardiff University, Cardiff, UK, <sup>3</sup>Section of Virology, Department of Medicine, Imperial College London, London, UK

**C05-3      The crosstalk between peripheral nerves and immune cells in the pathogenesis of pruritic skin diseases.**

[P11-05]  
9:24-9:36

- Chisa Nakashima, Atsushi Otsuka, Kenji Kabashima
- Department of Dermatology, Kyoto University Graduate School of Medicine

**C05-4      Homeostasis of peripheral macrophages are tuned by c-Kit<sup>+</sup>CD11b<sup>+</sup> multipotent progenitor-like cells derived from mast cells.**

[P11-06]  
9:36-9:48

- Seiichiro Wakabayashi, Yuumi Nakamura, Hiroyuki Matsue
- Dermatology, Chiba University, Chiba, Japan

**C05-5      A structure-function analysis of cathelicidin to further define mechanism of action in human skin**

[P11-07]  
9:48-10:00

- Toshiya Takahashi, Ling-juan Zhang, Richard L. Gallo
- The Department of Dermatology, University of California, San Diego

**C05-6      Benzopyrene mobilizes Langerhans cells and polarizes Th2/17 responses in epicutaneous protein sensitization via aryl hydrocarbon receptor**

[P11-08]  
10:00-10:12

- Chien-Hui Hong<sup>1,2</sup>, Chih-Hung Lee<sup>3,4</sup>, Hsin-Su Yu<sup>5,6</sup>, Shau-Ku Huang<sup>5</sup>

<sup>1</sup>Department of Dermatology, National Yang Ming University, Taipei, Taiwan, <sup>2</sup>Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan, <sup>3</sup>Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan, <sup>4</sup>Chang Gung University College of Medicine, Taoyuan, Taiwan, <sup>5</sup>National Environmental Research Center, National Health Research Institutes, Zhunan, Taiwan, <sup>6</sup>Kaohsiung Medical University, Kaohsiung, Taiwan

**C05-7      Hyperglycemia facilitates staphylococcal infection in diabetic skin wounds**

[P11-09]  
10:12-10:24

- Yanchun Quan, ○ Yuping Lai
- School of Life Sciences, East China Normal University, Shanghai, China

**C05-8      Molecular signatures for antimicrobial and innate defense responses activated in skin with transglutaminase 1 deficiency**

[P11-10]  
10:24-10:36

- Yasutomo Imai<sup>1</sup>, Takashi Haneda<sup>1</sup>, Ryosuke Uchiyama<sup>2</sup>, Orié Jitsukawa<sup>1</sup>, Kiyofumi Yamanishi<sup>1</sup>

<sup>1</sup>Department of Dermatology, Hyogo College of Medicine, Nishinomiya, Japan, <sup>2</sup>Department of Microbiology, Hyogo College of Medicine, Nishinomiya, Hyogo, Japan

## Tanioku Kihei Memorial Lecture

10:40-11:10

Chair: Setsuya Aiba

- TML**     **Tregs and their role in cutaneous immunity**  
○ Alexander H. Enk  
Department of Dermatology, University of Heidelberg

## Invited Lecture 3

11:10-11:40

Chair: Setsuya Aiba

- IL3**     **Molecular Basis of the Keap1-Nrf2 System Regulating Environmental Stress Response**  
○ Masayuki Yamamoto  
Tohoku Medical Mega-Bank Organization/Department of Medical Biochemistry, Tohoku University Graduate School of Medicine

## Invited Lecture 4

11:40-12:10

Chair: Hironobu Ihn

- IL4**     **Novel therapeutic strategies targeting cancer stem cells**  
○ Hideyuki Saya  
Division of Gene Regulation, Institute for Advanced Medical Research (IAMR), Keio University School of Medicine, Tokyo Japan

## Luncheon Seminar 4

### "Future expectation of Secukinumab for Psoriasis treatments"

12:20-13:20

Chairs: Keiji Iwatsuki, Takuro Kanekura

- LS4-1**     **What causes immunogenicity of biologics and how should we manage this?**  
○ Yayoi Tada  
Department of Dermatology, Teikyo University School of Medicine, Tokyo, Japan
- LS4-2**     **Pathogenic Mechanisms of Psoriasis: Lessons from Mouse Models**  
○ Yoichiro Iwakura  
Center for Animal Disease Models, Research Institute for Biomedical Sciences, Tokyo University of Science

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

## JSID-Asia-Oceania-Forum 3

13:30-14:00

Chair: Jin Ho Chung

- JAOF3**     **UV-induced hyperpigmentary disorders and fibroblast senescence**  
○ Hee Young Kang  
Department of Dermatology, Ajou University School of Medicine, Korea

## Invited Lecture 5

14:00-14:30

Chair: Koji Sayama

- IL5**     **Proteoglycans and hyaluronan in physiology and disease**  
○ Yu Yamaguchi  
Sanford Burnham Prebys Medical Discovery Institute, La Jolla, CA, USA

## Invited Lecture 6

14:30-15:00

Chair: Ichiro Katayama

**IL6 Roles of Rab small GTPases in membrane traffic: molecular mechanisms of melanosome transport in melanocytes**

○ Mitsunori Fukuda

Laboratory of Membrane Trafficking Mechanisms, Department of Developmental Biology and Neurosciences, Graduate School of Life Sciences, Tohoku University, Sendai, Japan

## Award Ceremony

15:00-15:20

Presenter: Shinichi Sato

**JSID Honorary Membership**

## Sweets Seminar 4

### "Harvesting the fruits of work in dermatological research."

15:30-16:30

Chair: Manabu Fujimoto

**SS4-1 Translational research in skin cancer immunology**

○ Atsushi Otsuka

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

**SS4-2 Helper T Cell Differentiation and Skin Diseases**

○ Hayato Takahashi

Department of Dermatology, Keio University, Tokyo, Japan

**Co-sponsored by Mitsubishi Tanabe Pharma Corporation**

## Plenary Session II

16:40-18:10

Chairs: Akimichi Morita, Alice Pentland, Michel Gilliet

**II-1 A unique CD9<sup>+</sup>CD80<sup>+</sup> regulatory B cell inhibits contact hypersensitivity response**

**[P01-04]**  
16:40-16:55

○ Takashi Matsushita<sup>1</sup>, Doanh Le Huu<sup>1</sup>, Tadahiro Kobayashi<sup>1</sup>, Yasuhiro Hamaguchi<sup>1</sup>, Minoru Hasegawa<sup>2</sup>, Manabu Fujimoto<sup>3</sup>, Kazuhiko Takehara<sup>1</sup>

<sup>1</sup>Department of Dermatology, Kanazawa University, Kanazawa, Japan, <sup>2</sup>Department of Dermatology, University of Fukui, Fukui,

<sup>3</sup>Department of Dermatology, University of Tsukuba, Tsukuba

**II-2 Fli1-deficient  $\gamma\delta$ T cells augment tissue fibrosis and vasculopathy in a murine model of systemic sclerosis via increased IL-17A production**

**[P01-03]**  
16:55-17:10

○ Ryosuke Saigusa<sup>1</sup>, Yoshihide Asano<sup>1</sup>, Takuya Miyagawa<sup>1</sup>, Megumi Hirabayashi<sup>1</sup>, Kouki Nakamura<sup>1</sup>, Shunsuke Miura<sup>1</sup>, Takashi Yamashita<sup>1</sup>, Yohei Ichimura<sup>1</sup>, Takehiro Takahashi<sup>1</sup>, Tetsuo Toyama<sup>1</sup>, Takashi Taniguchi<sup>1</sup>, Ayumi Yoshizaki<sup>1</sup>, Maria Trojanowska<sup>2</sup>, Shinichi Sato<sup>1</sup>

<sup>1</sup>The Department of Dermatology, University of Tokyo, Tokyo, Japan, <sup>2</sup>Arthritis Center, Boston University School of Medicine, Boston, Massachusetts

**II-3 Langerhans cells regulate autoimmune CD8 T cell-mediated interface dermatitis**

**[P01-02]**  
17:10-17:25

○ Noriko Kubota<sup>1</sup>, Naoko Okiyama<sup>1</sup>, Akimasa Saito<sup>1</sup>, Yosuke Ishitsuka<sup>1</sup>, Rei Watanabe<sup>1</sup>, Björn E. Clausen<sup>2</sup>, Manabu Fujimoto<sup>1</sup>

<sup>1</sup>The Department of Dermatology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan, <sup>2</sup>Institute for Molecular Medicine, University Medical Center of the Johannes Gutenberg-University Mainz, 55131 Mainz, Germany

**II-4 Fc $\gamma$ RIIb is critical to establish clonal ignorance and suppress pemphigus phenotype in pathogenic anti-desmoglein 3 antibody knock-in mice**

**[P01-01]**  
17:25-17:40

○ Hisashi Nomura<sup>1</sup>, Yuko Kase<sup>2</sup>, Jun Yamagami<sup>1</sup>, Naoko Wada<sup>1</sup>, Shigeo Koyasu<sup>3</sup>, Hayato Takahashi<sup>1</sup>, Masayuki Amagai<sup>1,3</sup>

<sup>1</sup>Departments of Dermatology, Keio University School of Medicine, <sup>2</sup>Research & Development Division, Japan Blood Products Organization, <sup>3</sup>RIKEN Center for Integrative Medical Sciences

**II-5 Essential role of epithelial TRAF6 in the determination of Th17 polarization**

**[P05-02]**  
17:40-17:55

○ Reiko Matsumoto, Teruki Dainichi, Kenji Sakurai, Takashi Nomura, Kenji Kabashima

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

**II-6**  
**[P05-01]**  
**17:55-18:10**

**Real time 3D in vivo pH imaging of stratum corneum revealed complex morphology-based regulation in mice**

○ Yuki Furuichi<sup>1,2</sup>, Takeshi Matsui<sup>2</sup>, Masayuki Amagai<sup>1,2</sup>

<sup>1</sup>Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, <sup>2</sup>Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, Kanagawa, Japan

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## December 10, 2016, Room B

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### Morning Seminar 2

8:00-8:50

Chair: Ryuhei Okuyama

MS2

#### Induction of regulatory T cells is a principal mechanism for phototherapy

○ Akimichi Morita

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

Co-sponsored by USHIO INC.

### Concurrent Oral Session 6 (Human Clinical Research and Therapeutics-I)

9:00-10:36

Chairs: Takuro Kanekura, Masatoshi Jinnin, Qianjin Lu

C06-1  
[P04-04]  
9:00-9:12

#### Efficacy of the injection of botulinum toxin B on Raynaud's phenomenon in patients with systemic sclerosis: single-blind, randomized trial

○ Sei-ichiro Motegi<sup>1</sup>, Kazuya Yamada<sup>1</sup>, Akihito Uehara<sup>1</sup>, Akiko Sekiguchi<sup>1</sup>, Yuki Date<sup>2</sup>, Tetsuya Nakamura<sup>2</sup>, Osamu Ishikawa<sup>1</sup><sup>1</sup>Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi, Japan, <sup>2</sup>Clinical Investigation and Research Unit, Gunma University Graduate School of Medicine, Maebashi, Japan.

C06-2  
[P04-10]  
9:12-9:24

#### Serum soluble TIM-3 levels are increased in patients with diffuse cutaneous systemic sclerosis

○ Miki Chiba, Koichi Yanaba, Mitsuha Hayashi, Yuki Yoshihara, Hidemi Nakagawa

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

C06-3  
[P04-06]  
9:24-9:36

#### Impedance based living cell analysis for clinical diagnosis of type I allergy

○ Reiko Irifuku, Yuhki Yanase, Tomoko Kawaguchi, Kaori Ishii, Takaaki Hiragun, Michihiro Hide

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

C06-4  
[P04-09]  
9:36-9:48

#### Collagen tripeptide may modulate inflammations of atopic dermatitis

○ Amiko Hakuta<sup>1</sup>, Yukie Yamaguchi<sup>1</sup>, Tomoko Okawa<sup>1</sup>, Yasuo Sakai<sup>2</sup>, Shoko Yamamoto<sup>2</sup>, Michiko Aihara<sup>1</sup><sup>1</sup>Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, Yokohama, Japan, <sup>2</sup>Central Research Institute, Jellice Co., Ltd.

C06-5  
[P04-13]  
9:48-10:00

#### Metabolomic analysis of sweat revealed glucose as a biomarker of atopic dermatitis

○ Emi Ono<sup>1</sup>, Hiroyuki Murota<sup>1</sup>, Yuki Mori<sup>2</sup>, Yoshichika Yoshioka<sup>2</sup>, Ichiro Katayama<sup>1</sup><sup>1</sup>The Department of Dermatology, University of Osaka, Osaka, Japan, <sup>2</sup>Biofunctional Imaging Lab. Immunology Frontier Research Center (IFReC), Osaka University, Osaka, Japan

C06-6  
[P04-24]  
10:00-10:12

#### Effect of dupilumab on Eczema Area Severity Index by body region in patients with moderate-to-severe atopic dermatitis in a phase 2b study

○ Thomas Bieber<sup>1</sup>, Makoto Kawashima<sup>2</sup>, Eric L. Simpson<sup>3</sup>, Kazuhiko Arima<sup>4</sup>, Aki Kuroki<sup>4</sup>, Toshio Kimura<sup>5</sup>, Marius Ardeleanu<sup>6</sup><sup>1</sup>University of Bonn, Bonn, Germany, <sup>2</sup>Tokyo Women's Medical University, Tokyo, Japan, <sup>3</sup>Oregon Health and Science University, Portland, Oregon, United States, <sup>4</sup>Sanofi K.K., Tokyo, Japan, <sup>5</sup>Regeneron Pharmaceuticals, Inc., Basking Ridge, New Jersey, United States, <sup>6</sup>Regeneron Pharmaceuticals, Inc., Tarrytown, New York, United States

C06-7  
[P04-07]  
10:12-10:24

#### Topical application of vitamin D3 analogue to psoriatic skin preferentially suppresses Th17 cells by both direct and indirect mechanisms

○ Toshiharu Fujiyama<sup>1</sup>, Taisuke Ito<sup>1</sup>, Takatsune Umayahara<sup>1</sup>, Kazuki Tatsuno<sup>1</sup>, Shigeki Ikeya<sup>1</sup>, Atsuko Funakoshi<sup>1</sup>, Hideo Hashizume<sup>2</sup>, Yoshiki Tokura<sup>1</sup><sup>1</sup>Department of Dermatology, Hamamatsu University School of Medicine, <sup>2</sup>Shimada Municipal Hospital

C06-8  
[P04-12]  
10:24-10:36

#### Elongated Silica microparticles for enhanced delivery of tailorable nanoemulsion as a potential platform for transdermal drug delivery

○ Miko Yamada<sup>1</sup>, Hossam Tayeb<sup>2</sup>, Hequn Wang<sup>3</sup>, Nhung Dang<sup>1</sup>, Anthony Raphael<sup>3</sup>, Paul J. Belt<sup>4</sup>, Peter H. Soyer<sup>1</sup>, Conor L. Evans<sup>3</sup>, Frank Sainsbury<sup>2</sup>, Tarl Prow<sup>1</sup><sup>1</sup>University of Queensland. School of Medicine, Dermatology Research Centre, Translational Research Institute, Brisbane, <sup>2</sup>Australian Institute for Bioengineering and Nanotechnology, The University of Queensland, Princess Alexandra Hospital, Brisbane, Australia., <sup>3</sup>Wellman Centre for Photomedicine, Massachusetts General Hospital, Harvard Medical School, Boston, USA, <sup>4</sup>Department of Plastic and Reconstructive Surgery and Orthopaedic Surgery, Princess Alexandra Hospital, Brisbane, Australia.

## Luncheon Seminar 5

### "Update on the pathogenesis of psoriasis"

12:20-13:20

Chair: Mamitaro Ohtsuki

- LS5-1      Diet in the pathogenesis of psoriasis: a review of recent progress**  
○ Tetsuya Honda  
Department of Dermatology, Graduate School of Medicine, Kyoto University
- LS5-2      A role for keratinocytes, LL37 and interferon  $\beta$  in the pathogenesis of psoriasis**  
○ Richard L. Gallo  
Department of Dermatology, University of California, San Diego

Co-sponsored by Janssen Pharmaceutical K.K.

## JSID-Asia-Oceania-Forum 4

13:30-14:00

Chair: Soo-Chan Kim

- JAOF4      Regulation of IgE-Mediated Food Allergy by IL-9 Producing Mucosal Mast Cells and Type 2 Innate Lymphoid Cells**  
○ Jee-Boong Lee  
Laboratory of Immunology and Infectious Diseases, Graduate School of Medical Science and Engineering, KAIST, Daejeon, Republic of Korea

## Sweets Seminar 5

### "Biologics today and in the future: from the pathogenesis of psoriasis"

15:30-16:30

Chairs: Yukari Okubo, Tadashi Terui

- SS5-1      The role of IL-17 in the pathogenesis of psoriasis**  
○ Hideki Nakajima  
Department of Dermatology, Kochi Medical School, Kochi University
- SS5-2      Th17-related pathogenesis and biologic therapies in psoriasis**  
○ Yoshiki Tokura  
Department of Dermatology, Hamamatsu University School of Medicine

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



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## December 10, 2016, Room C

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### Concurrent Oral Session 7

### (Epidermal Structure and Function, Hair and Cutaneous Development-II)

9:00-10:36

Chairs: Manabu Ohyama, Akiharu Kubo, Kiarash Khosrotehrani

- C07-1**  
[P05-06]  
9:00-9:12
- ER stress and S1P orchestrate a novel stress-specific signals to stimulate cathelicidin antimicrobial peptide production**
- Kyungho Park<sup>1</sup>, Hiroko Ikushiro<sup>2</sup>, Ho Seong Seo<sup>3</sup>, Kyong-Oh Shin<sup>4</sup>, Young il Kim<sup>1</sup>, Yong-Moon Lee<sup>1,4</sup>, Takato Yano<sup>2</sup>, Walter M. Holleran<sup>1</sup>, Peter M. Elias<sup>1</sup>, ○ Yoshikazu Uchida<sup>1</sup>
- <sup>1</sup>Dept. of Dermatology, Univ. of California, San Francisco, San Francisco, USA, <sup>2</sup>Dept. of Biochemistry, Osaka Med. College, Takatsuki, Osaka, Japan, <sup>3</sup>Korea Atomic Energy Res. Inst. Jeongeu, Korea, <sup>4</sup>Chungbuk Natl. Univ., Cheongju, Korea
- C07-2**  
[P05-08]  
9:12-9:24
- Heparinoid facilitates functional expression of extracellular syntaxin-4 on keratinocyte cornification**
- Nanako Kadono<sup>1,2</sup>, Tomoatsu Horigome<sup>1</sup>, Hiroko Yano<sup>3</sup>, Ayumi Nakashima<sup>3</sup>, Yohei Hirai<sup>1</sup>
- <sup>1</sup>The Department of Bioscience, Science and Technology, Kwansei Gakuin University, Hyogo, Japan, <sup>2</sup>Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Science, Kanagawa, Japan, <sup>3</sup>Kobayashi Pharmaceutical Co., Ltd., Osaka, Japan
- C07-3**  
[P05-11]  
9:24-9:36
- The Precise Structures and Stereochemistry of Trihydroxy-Linoleates Esterified in Human and Porcine Epidermis**
- Takahito Chiba<sup>1</sup>, Alan R. Brash<sup>2</sup>, Masutaka Furue<sup>1</sup>
- <sup>1</sup>Department of Dermatology, Kyushu University School of Medicine, <sup>2</sup>Departments of Pharmacology, Vanderbilt University School of Medicine
- C07-4**  
[P05-04]  
9:36-9:48
- Image-Based Transcription Factor siRNA Screen Reveals Novel Regulators of Epidermal Differentiation**
- Jeffrey B. Cheng<sup>1</sup>, Paymann Harirchian<sup>1</sup>, John Greer<sup>2</sup>, Maddy Parsons<sup>3</sup>, Laura M. Heiser<sup>4</sup>, Thea Mauro<sup>1</sup>, Raymond J. Cho<sup>1</sup>
- <sup>1</sup>Department of Dermatology, University of California, San Francisco, San Francisco, California, USA, <sup>2</sup>Department of Medicine, University of California, San Francisco, San Francisco, California, USA, <sup>3</sup>Randall Division of Cell and Molecular Biophysics, King's College London, London, UK, <sup>4</sup>Department of Biomedical Engineering, Oregon Health and Science University, Portland, Oregon, USA
- C07-5**  
[P09-06]  
9:48-10:00
- Hair follicle stem cells define a niche for tactile sensation via secretion of a specialized ECM**
- Chun-Chun Cheng<sup>1</sup>, Ko Tsutsui<sup>1</sup>, Toru Taguchi<sup>2</sup>, Noriko Ban-Sanzen<sup>1</sup>, Kisa Kakiguchi<sup>3</sup>, Shigenobu Yonemura<sup>3</sup>, Shigehiro Kuraku<sup>4</sup>, Fiona Watt<sup>5</sup>, ○ Hironobu Fujiwara<sup>1</sup>
- <sup>1</sup>Laboratory for Tissue Microenvironment, RIKEN Center for Developmental Biology (CDB), <sup>2</sup>Department of Neuroscience II, Research Institute of Environmental Medicine, Nagoya University, <sup>3</sup>Ultrastructural Research Team, RIKEN Center for Life Science Technologies (CLST), <sup>4</sup>Phyloinformatics Unit, Center for Life Science Technologies (CLST), <sup>5</sup>Centre for Stem Cells and Regenerative Medicine, Kings College London
- C07-6**  
[P09-04]  
10:00-10:12
- BMP signaling in the hair follicle stem cell niche regulates hair growth and skin pigmentation**
- Carlos Clavel<sup>1,2</sup>, Delia Quek<sup>1</sup>, Jamien Lim<sup>3</sup>, Shuan Yong Teo<sup>4</sup>
- <sup>1</sup>A\*Star, Institute of Medical Biology, Singapore, Singapore, <sup>2</sup>Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore, <sup>3</sup>School of Biological Science, Nanyang Technological University, Singapore, <sup>4</sup>Life Science, National University of Singapore, Singapore
- C07-7**  
[P09-07]  
10:12-10:24
- Enhanced Survival of Hair Follicle Allografts by Anti-ICAM-1 Antibody in Nonhuman Primates**
- Jin Yong Kim<sup>1,2</sup>, Su-Cheol Han<sup>3</sup>, Wooseok Koh<sup>4</sup>, Kyeong Cheon Jung<sup>5</sup>, Kyu Han Kim<sup>1,2</sup>, ○ Ohsang Kwon<sup>1,2</sup>
- <sup>1</sup>Department of Dermatology, Seoul National University College of Medicine, Seoul, Korea, <sup>2</sup>Laboratory of Cutaneous Aging and Hair Research, Seoul National University Hospital, Institute of Human-Environment Interface Biology, Seoul National University, Seoul, Korea, <sup>3</sup>Non-Human Primate Center, Jeonbuk Department, Korea Institute of Toxicology, Jeongeu, Korea, <sup>4</sup>JMO Dermatology, Seoul, Korea, <sup>5</sup>Transplantation Research Institute, Seoul National University College of Medicine, Seoul, Korea
- C07-8**  
[P09-03]  
10:24-10:36
- Claudin-3 in sweat glands prevents the leakage of sweat**
- Kosuke Yamaga<sup>1,2</sup>, Hiroyuki Murota<sup>1</sup>, Atsushi Tamura<sup>2</sup>, Hirofumi Miyata<sup>3</sup>, Junichi Kikuta<sup>4</sup>, Masato Ohmi<sup>3</sup>, Masaru Ishii<sup>4</sup>, Sachiko Tsukita<sup>2</sup>, Ichiro Katayama<sup>1</sup>
- <sup>1</sup>Department of Dermatology, Osaka University, Osaka, Japan, <sup>2</sup>Laboratory of Biological Science, Osaka University, Osaka, Japan, <sup>3</sup>Department of Medical Physics, Osaka University, Osaka, Japan, <sup>4</sup>Department of Immunology and Cell biology, Osaka University, Osaka, Japan

## Sweets Seminar 6

# "Optimization of Treatment for Unresectable or Metastatic BRAF mutated Melanoma from Research and Clinical perspectives"

15:30-16:30

Chair: Hisashi Uhara

**SS6-1      Understanding the role of dynamic tumour heterogeneity in drug resistance to optimize therapies of metastatic melanoma**

○ Nikolas K. Haass<sup>1,2,3</sup>, Loredana Spoerri<sup>1</sup>, Crystal A. Tonnessen<sup>1</sup>, Kimberley A. Beaumont<sup>2</sup>, David S. Hill<sup>3</sup>, Sheena M. Daignault<sup>1</sup>, Wolfgang Weninger<sup>2,3</sup>

<sup>1</sup>The University of Queensland, The University of Queensland Diamantina Institute, Translational Research Institute, Brisbane, Qld, Australia, <sup>2</sup>Centenary Institute, Newtown, NSW, Australia, <sup>3</sup>Discipline of Dermatology, University of Sydney, NSW, Australia

**SS6-2      Targeting BRAF-MEK in melanoma**

○ Mizuho Fukunaga-Kalabis  
The Wistar Institute, Philadelphia, Pennsylvania, USA

**Co-sponsored by Novartis Pharma K.K.**

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## December 10, 2016, Room D

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### Concurrent Oral Session 8

## (Epidemiology/Health Service Research, Genetic Disease/Gene Regulation and Gene Therapy, Photobiology)

9:00-10:36

Chairs: Akemi Yamamoto, Hideyuki Ujiie, Jin Ho Chung

- C08-1 [P07-04]**  
9:00-9:12  
**Clinical associations in PRP with underlying *CARD14* mutations**  
○ Takuya Takeichi<sup>1,2</sup>, Kazumitsu Sugiura<sup>3</sup>, Toshifumi Nomura<sup>4</sup>, Taiko Sakamoto<sup>5</sup>, Yasushi Ogawa<sup>1</sup>, Yasushi Suga<sup>6</sup>, Hiroshi Shimizu<sup>4</sup>, John A. McGrath<sup>7</sup>, Masashi Akiyama<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, <sup>2</sup>St Johns Institute of Dermatology, Kings College London, Guys Hospital, London, UK, <sup>3</sup>Department of Dermatology, Fujita Health University School of Medicine, Toyoake, Japan, <sup>4</sup>Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, <sup>5</sup>Sakamoto Clinic, Fujieda, Japan, <sup>6</sup>Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu, Japan
- C08-2 [P07-02]**  
9:12-9:24  
**Mutations in *SDR9C7* gene encoding an enzyme for vitamin A metabolism underlie autosomal recessive congenital ichthyosis**  
○ Yohya Shigehara<sup>1</sup>, Shujiro Okuda<sup>2</sup>, Georges Nemer<sup>3</sup>, Adele Chedraoui<sup>4</sup>, Ryota Hayashi<sup>1</sup>, Fadi Bitar<sup>5</sup>, Hiroyuki Nakai<sup>6</sup>, Ossama Abbas<sup>7</sup>, Laetitia Daou<sup>8</sup>, Riichiro Abe<sup>1</sup>, Maria Bou Sleiman<sup>7</sup>, Abdul Ghani Kibbi<sup>7</sup>, Mazen Kurban<sup>3,7,9</sup>, Yutaka Shimomura<sup>1</sup>  
<sup>1</sup>Divisions of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, <sup>2</sup>Bioinformatics, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, <sup>3</sup>Biochemistry & molecular genetics, American University of Beirut Medical Center, Beirut, Lebanon, <sup>4</sup>Department of Dermatology, Lebanese American University-Hospital Rizk, Beirut Lebanon, <sup>5</sup>Department of Pediatrics, American University of Beirut Medical Center, Beirut, Lebanon, <sup>6</sup>Faculty of Agriculture, Niigata University, Niigata, Japan, <sup>7</sup>Department of Dermatology, American University of Beirut Medical Center, Beirut, Lebanon, <sup>8</sup>Department of Laboratory medicine, American University of Beirut Medical Center, Beirut, Lebanon, <sup>9</sup>Department of Dermatology, Columbia University, New York, U.S.A.
- C08-3 [P07-03]**  
9:24-9:36  
**The type2 sarco/endoplasmic reticulum  $Ca^{2+}$ -ATPase is required for TIP39 induced-long term differentiation of keratinocyte**  
○ Emi Sato<sup>1</sup>, Michael R Williams<sup>1</sup>, James A Sanford<sup>1</sup>, Takekuni Nakama<sup>2</sup>, Shinichi Imafuku<sup>3</sup>, Richard L. Gallo<sup>1</sup>  
<sup>1</sup>Department of Dermatology, University of California, San Diego, <sup>2</sup>Department of Dermatology, Kurume University, Fukuoka, Japan, <sup>3</sup>Department of Dermatology, Fukuoka University, Fukuoka, Japan
- C08-4 [P12-07]**  
9:36-9:48  
**Identification of a novel marker for cellular senescence**  
○ Oliver Dreesen<sup>1,4</sup>, Audrey Shimei Wang<sup>1</sup>, Peh Fern Ong<sup>1</sup>, Louis Peter Hor<sup>1</sup>, Alexandre Chojnowski<sup>3</sup>, Aya Wada<sup>1</sup>, Carlos Clavel<sup>2,4</sup>  
<sup>1</sup>Cell Ageing, Institute of Medical Biology, <sup>2</sup>Hair Pigmentation, Institute of Medical Biology, Singapore, <sup>3</sup>Developmental and Regenerative Biology, Institute of Medical Biology, Singapore, <sup>4</sup>Lee Kong Chian School of Medicine, Nanyang Technological University
- C08-5 [P12-04]**  
9:48-10:00  
**Enhancement of UVB-induced apoptosis and elimination of DNA damages by irradiation of IPL does not depend on the repair of DNA damages**  
○ Shizuka Okazaki, Yoko Funasaka, Seiji Kawana, Hidehisa Saeki  
Department of Dermatology, Nippon Medical School, Tokyo, Japan
- C08-6 [P12-03]**  
10:00-10:12  
**Filaggrin abundance cannot compensate the loss of lorricrin in UVB photoprotectoin**  
○ Yosuke Ishitsuka<sup>1,2</sup>, Shaun Bevers<sup>3</sup>, Robert\_H Rice<sup>4</sup>, Neil Box<sup>2</sup>, Dennis\_R Roop<sup>2</sup>  
<sup>1</sup>Department of Dermatology, Faculty of Medicine, University of Tsukuba, Tsukuba, Ibaraki, Japan, <sup>2</sup>Department of Dermatology and Charles C. Gates Center for Regenerative Medicine and Stem Cell Biology, University of Colorado Denver, Aurora, CO, <sup>3</sup>Biophysics Core, Department of Biochemistry and Molecular Genetics, University of Colorado Denver, Aurora, CO, <sup>4</sup>Department of Environmental Toxicology, University of California, Davis, CA
- C08-7 [P12-01]**  
10:12-10:24  
**Long non-coding RNAs regulate cellular responses to ultraviolet light in a wavelength-dependent manner**  
○ Kazuyuki Yo<sup>1,2</sup>, Thomas M Ruenger<sup>2</sup>  
<sup>1</sup>Skin Research Department, POLA Chemical Industries Inc., Yokohama, Japan, <sup>2</sup>Department of Dermatology, Roger Williams Medical Center and Boston University School of Medicine, Providence, USA
- C08-8 [P12-02]**  
10:24-10:36  
**An endogenous tryptophan photo-product, FICZ, is an integral part of photo-aging by reducing TGF- $\beta$ -induced collagen maintenance**  
○ Mika Murai-Mizote<sup>1</sup>, Gaku Tsuji<sup>1,2</sup>, Chikage Mitoma<sup>1,2</sup>, Akiko Hashimoto-Hachiya<sup>1</sup>, Makiko Nakahara<sup>1,3</sup>, Takeshi Nakahara<sup>1,3</sup>, Hiroshi Uchi<sup>1</sup>, Masutaka Furue<sup>1,2,3</sup>  
<sup>1</sup>Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, <sup>2</sup>Research and Clinical Center for Yusho and Dioxin, Kyushu University Hospital, <sup>3</sup>Division of Skin Surface Sensing, Graduate School of Medical Sciences, Kyushu University

## Luncheon Seminar 6

# "The Current Understanding of the Underlying Pathophysiology for Moderate-to-Severe Atopic Dermatitis"

12:20-14:20

Chair: Kenji Kabashima

- LS6-1      What is the understanding of the pathophysiology of AD? Biomarkers for AD: new T lymphocyte subsets and novel cytokines and chemokines**
- Jean-François Nicolas, Marc Vocanson  
Fundamental, Translational and Clinical Research of the Allergology and Clinical Immunology Department, Lyon University Hospital, INSERM U1111-CIRI, France
- LS6-2      Is there an underlying mechanism connecting atopic dermatitis to the atopic march?**
- Thomas Bieber  
Department of Dermatology and Allergy, University of Bonn, Bonn, Germany
- LS6-3      Systemic and localized immune activation in lesional and nonlesional atopic dermatitis skin—and therapeutic implications**
- Emma Guttman  
Dermatology and Immunology, Department of Dermatology, Center of Excellence in Eczema and Laboratory for Inflammatory Skin Diseases, Icahn School of Medicine at Mount Sinai Medical Center, New York, NY, USA
- LS6-4      How do current therapies address skin inflammation response? Translating new concepts in the pathogenesis of atopic dermatitis into therapy**
- Norito Katoh  
Department of Dermatology, Kyoto Prefectural University of Medicine, Kyoto, Japan

**Co-sponsored by Sanofi K.K./Regeneron Pharmaceuticals, Inc.**

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## December 11, 2016, Room A

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### Plenary Session III

8:45-10:15

Chairs: Manabu Fujimoto, Russell Hall, Johann Bauer

**III-1**  
[P13-01]  
8:45-9:00

**Peripheral blood Th9 cells as a possible pharmacodynamics biomarker of nivolumab treatment efficacy in metastatic melanoma**

○ Yumi Nonomura, Atsushi Otsuka, Chisa Nakashima, Judith A. Seidel, Kenji Kabashima  
Department of Dermatology, Kyoto University Graduate School of Medicine

**III-2**  
[P07-01]  
9:00-9:15

**Gentamicin-induced restoration of SERPINB7 by readthrough of a prevalent nonsense mutation c.796C>T in Nagashima-type palmoplantar keratosis**

○ Yuka Ohguchi<sup>1</sup>, Toshifumi Nomura<sup>1</sup>, Shotaro Suzuki<sup>1</sup>, Masae Takeda<sup>1</sup>, Toshinari Miyauchi<sup>1</sup>, Osamu Mizuno<sup>1</sup>, Satoru Shinkuma<sup>1</sup>, Yasuyuki Fujita<sup>1</sup>, Kota Ono<sup>2</sup>, W. H. Irwin McLean<sup>3</sup>, Hiroshi Shimizu<sup>1</sup>

<sup>1</sup>Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, <sup>2</sup>Department of Biostatistics, Hokkaido University Graduate School of Medicine, Sapporo, Japan, <sup>3</sup>Dermatology and Genetic Medicine, Colleges of Life Sciences and Medicine, Dentistry and Nursing, University of Dundee, Dundee, UK

**III-3**  
[P09-01]  
9:15-9:30

**Generation of iPS-derived model cells for the analysis of hair development**

○ Takumi Kido, Yohei Hirai  
Department of Bioscience, School of Science and Technology, Kwansei Gakuin University

**III-4**  
[P11-02]  
9:30-9:45

***Staphylococcus* PSM $\alpha$  induces IL-17-dependent skin inflammation through IL-36 and IL-1 secretion from keratinocytes**

○ Seitaro Nakagawa<sup>1,2</sup>, Yuumi Nakamura<sup>1</sup>, Rena Ovum<sup>1</sup>, Yuki Katayama<sup>1</sup>, Masanori Matsumoto<sup>2</sup>, Gabriel Nunez<sup>2</sup>, Hiroyuki Matsue<sup>1</sup>

<sup>1</sup>The Department of Dermatology, University of Chiba, Chiba, Japan, <sup>2</sup>Pathology and Comprehensive Cancer Center, University of Michigan, MI, USA

**III-5**  
[P11-01]  
9:45-10:00

**Evolutionary risk management of *agr* locus is important for *S. aureus* adaptation in the skin of atopic dermatitis**

○ Yuumi Nakamura<sup>1</sup>, Hiroki Takahashi<sup>2</sup>, Akiko Takaya<sup>3</sup>, Yuzaburo Inoue<sup>4</sup>, Fumiya Yamade<sup>4</sup>, Rena Oguma<sup>4,5</sup>, Yuki Katayama<sup>1</sup>, Yoko Kusuya<sup>2</sup>, Naoki Shimojo<sup>4</sup>, Gabriel Nunez<sup>5</sup>, Hiroyuki Matsue<sup>1</sup>

<sup>1</sup>The Department of Dermatology, Chiba University, Chiba, Japan, <sup>2</sup>Division of Bio-resources, Medical Mycology Research Center, Chiba University, Chiba, Japan, <sup>3</sup>Department of Microbiology and Molecular Genetics, Graduate School of Pharmaceutical Sciences, Chiba University, Chiba, Japan, <sup>4</sup>Department of Pediatrics, Chiba University Graduate School of Medicine, Chiba, Japan, <sup>5</sup>Department of Pathology, University of Michigan Medical School, Ann Arbor, MI, USA

**III-6**  
[P08-01]  
10:00-10:15

**A new animal model of systemic sclerosis exhibits delayed wound healing due to accelerated angiogenesis and defective vasculogenesis.**

○ Kouki Nakamura<sup>1</sup>, Yoshihide Asano<sup>1</sup>, Takuya Miyagawa<sup>1</sup>, Megumi Hirabayashi<sup>1</sup>, Takashi Yamashita<sup>1</sup>, Ryosuke Saigusa<sup>1</sup>, Shunsuke Miura<sup>1</sup>, Tetsuo Toyama<sup>1,2</sup>, Takehiro Takahashi<sup>1</sup>, Yohei Ichimura<sup>1</sup>, Takashi Taniguchi<sup>1</sup>, Ayumi Yoshizaki<sup>1</sup>, Maria Trojanowska<sup>2</sup>, Shinichi Sato<sup>1</sup>

<sup>1</sup>Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo, Japan., <sup>2</sup>Arthritis Center, Boston University School of Medicine, Boston, MA, USA.

### LEO Foundation Awards 2016 in association with the JSID

10:15-11:15

Chairs: Shinichi Sato, Akimichi Morita

Co-sponsored by LEO Foundation

### Invited Lecture 7

11:15-11:45

Chair: Katsuto Tamai

**IL7**

**Unique Newly Discovered Muse Cells May Lead to the Paradigm Shift of Stem Cell Therapy**

○ Mari Dezawa  
Department of Stem Cell Biology and Histology, Tohoku University Graduate School of Medicine, Sendai, Japan

## Invited Lecture 8

11:45-12:15

Chair: Keiji Iwatsuki

- IL8 Recent progress of immunotherapies for melanoma**  
—Immune-checkpoint blockade, T cell based adoptive cell therapy and beyond—
- Yutaka Kawakami
- Division of Cellular Signaling, Institute for Advanced Medical Research, Keio University School of Medicine

## JSID-Asia-Oceania-Forum 5

12:15-12:45

Chair: Hsin-Su Yu

- JAOF5 Galectins in Skin Homeostasis and Inflammation**
- Fu-Tong Liu
- Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan;  
Department of Dermatology, UC Davis, School of Medicine, Sacramento, CA

## Luncheon Seminar 7

12:55-13:55

Chair: Akemi Yamamoto

- LS7 Atopic diseases as a result of skin barrier failure**
- Masayuki Amagai<sup>1,2</sup>
- <sup>1</sup>Department of Dermatology, Keio University School of Medicine, <sup>2</sup>Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences

Co-sponsored by GlaxoSmithKline K.K.

## Concurrent Oral Session 9 (Immunology 1: Adaptive Immunity)

14:00-15:24

Chairs: Riichiro Abe, Kenji Kabashima, Min-Geol Lee

- C09-1 [P10-02] PD-1, TIGIT, and LAG-3 signals synergistically suppress the anti-melanoma CTL response in the effector phase**  
14:00-14:12
- Takashi Inozume<sup>1</sup>, Tomonori Yaguchi<sup>2</sup>, Tatsuyoshi Kawamura<sup>1</sup>, Yutaka Kawakami<sup>2</sup>, Shinji Shimada<sup>1</sup>
- <sup>1</sup>Department of Dermatology, University of Yamanashi, Yamanashi, Japan, <sup>2</sup>Division of Cellular Signaling, Institute for Advanced Medical Research, Keio University School of Medicine
- C09-2 [P10-03] Functional redundancy of dermal dendritic cell subsets for T cell activation in the elicitation phase of a murine contact hypersensitivity**  
14:12-14:24
- Sachiko Ono, Tetsuya Honda, Kenji Kabashima
- The Department of Dermatology, University of Kyoto, Kyoto, Japan
- C09-3 [P10-04] Essential role of PD-1/PD-L1 pathway to regulate CD8+ T-cell activation in murine contact hypersensitivity**  
14:24-14:36
- Tomoko Hirano<sup>1</sup>, Tetsuya Honda<sup>2</sup>, Koji Tamada<sup>2</sup>, Lieping Chen<sup>3</sup>, Kenji Kabashima<sup>1</sup>
- <sup>1</sup>Department of Dermatology, Kyoto University Graduate School of Medicine, <sup>2</sup>Department of Immunology, Yamaguchi University Graduate School of Medicine, <sup>3</sup>Department of Immunobiology, Yale University School of Medicine
- C09-4 [P10-05] Prolonged incubation period after initial HIV infection is mediated by CTL activation and Treg cell suppression induced by Langerhans cells**  
14:36-14:48
- Takamitsu Matsuzawa, Tatsuyoshi Kawamura, Youichi Ogawa, Shinji Shimada
- Dermatology, University of Yamanashi, Yamanashi, Japan
- C09-5 [P10-06] Air pollution activates Aryl hydrocarbon receptor in murine epidermis, leading to Atopic dermatitis-like pathologies**  
14:48-15:00
- Takanori Hidaka<sup>1</sup>, Eri H Kobayashi<sup>2</sup>, Takafumi Suzuki<sup>2</sup>, Masayuki Yamamoto<sup>2</sup>
- <sup>1</sup>The Department of Dermatology, University of Tohoku, Sendai, Japan, <sup>2</sup>The Department of Medical Biochemistry, University of Tohoku, Sendai, Japan
- C09-6 [P10-07] Regulatory T cells in the skin suppress percutaneous sensitization by regulating dermal dendritic cell function**  
15:00-15:12
- Sho Hanakawa, ○ Akihiko Kitoh, Kenji Kabashima
- Department of Dermatology, Kyoto University Graduate School of Medicine

**C09-7**  
**[P10-08]**  
15:12-15:24

**Deficiency of Bach2 results in improved tumor immunity by enhancing effector function in CD8+ T cells**

○ Yuki Sato<sup>1,2</sup>, Miki Watanabe-Matsui<sup>2</sup>, Daniel R. Sharda<sup>3</sup>, Kazuhiko Igarashi<sup>2</sup>, Ryuhei Okuyama<sup>1</sup>

<sup>1</sup>Department of Dermatology, Shinshu University Graduate School of Medicine, <sup>2</sup>Department of Biochemistry, Tohoku University Graduate School of Medicine, <sup>3</sup>Department of Biological Sciences, School of Life and Health Sciences, Olivet Nazarene University

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## December 11, 2016, Room B

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### Morning Seminar 3

8:00-8:40

Chair: Setsuya Aiba

- MS3 Epidermis: Sophisticated Information Processing System**  
○ Mitsuhiro Denda  
Shiseido Global Innovation Center, Yokohama, Japan & JST CREST, Kawaguchi, Japan

Co-sponsored by Shiseido Co., Ltd.

### JSID-Asia-Oceania-Forum 6

12:15-12:45

Chair: Nikolas K. Haass

- JAOF6 Multicolour lineage tracing to evaluate epidermal clonal evolution in homeostasis and injury**  
○ Kiarash Khosrotehrani  
The University of Queensland, Brisbane, Australia

### Luncheon Seminar 8

#### "Recent topics of antihistamines and their use for allergic dermatoses"

12:55-13:55

Chairs: Tamio Suzuki, Toshiyuki Yamamoto

- LS8-1 Histamine H1 Receptor Occupancy in Human Brain measured by Positron Emission Tomography**  
○ Kazuhiko Yanai  
Department of Pharmacology, Tohoku University School of Medicine, Sendai, Japan
- LS8-2 Recent advances of anti-histamines in the management of allergic dermatoses**  
○ Eishin Morita  
Department of Dermatology, Shimane University Faculty of Medicine, Izumo, Japan

Co-sponsored by TAIHO PHARMACEUTICAL CO., LTD

### Concurrent Oral Session 10 (Autoimmunity/Inflammation-II)

14:00-15:24

Chairs: Yoshiki Tokura, Minoru Hasegawa

- C10-1 [P01-07] Establishment of a novel murine model of psoriasis by activating p38 MAPK pathway**  
14:00-14:12  
○ Kenji Sakurai, Teruki Dainichi, Reiko Matsumoto, Yuri Nakano, Kenji Kabashima  
Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan
- C10-2 [P01-11] Genetic prediction of the effectiveness of anti-TNF- $\alpha$  therapy for psoriasis patients**  
14:12-14:24  
○ Rika Nishikawa<sup>1</sup>, Hiroshi Nagai<sup>1</sup>, Toshinori Bito<sup>2</sup>, Tetsuya Ikeda<sup>3</sup>, Tatsuya Horikawa<sup>4</sup>, Atsuko Adachi<sup>5</sup>, Tsukasa Matsubara<sup>6</sup>  
<sup>1</sup>Division of Dermatology, Department of Internal Related, Faculty of Medicine, Kobe University Graduate School of Medicine, Hyogo, Japan, <sup>2</sup>Bito Dermatology Clinic, Hyogo, Japan, <sup>3</sup>Department of Dermatology, Kobe City Hospital Organization Kobe City Medical Center West Hospital, <sup>4</sup>Department of Dermatology, Nishikobe Medical Center, <sup>5</sup>Department of Dermatology, Hyogo Prefectural Kakogawa Medical Center, <sup>6</sup>Matsubara Mayflower Hospital, Hyogo, Japan
- C10-3 [P01-13] Self-genomic double-stranded DNA is a potential trigger of keratinocyte hyperproliferation in psoriasis**  
14:24-14:36  
○ Yuqian Luo<sup>1,2</sup>, Takeshi Hara<sup>2</sup>, Yuko Ishido<sup>1,2</sup>, Norihisa Ishii<sup>2</sup>, Takeshi Kambara<sup>3</sup>, Koichi Suzuki<sup>1,2</sup>  
<sup>1</sup>Department of Clinical Laboratory Science, Faculty of Medical Technology, Teikyo University, Tokyo, Japan, <sup>2</sup>Leprosy Research Center, National Institute of Infectious Diseases, <sup>3</sup>Department of Dermatology, Yokohama City University Medical Center
- C10-4 [P01-14] High fat diet exacerbates psoriasis-like skin lesion induced by imiquimod through inducing IL-17A and inflammasomes in mice**  
14:36-14:48  
○ Yuko Higashi<sup>1</sup>, Munekazu Yamakuchi<sup>2</sup>, Tomoko Fukushige<sup>1</sup>, Teruto Hashiguchi<sup>2</sup>, Takuro Kanekura<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, University of Kagoshima, Kagoshima, Japan, <sup>2</sup>Department of Laboratory and Vascular Medicine, University of Kagoshima, Kagoshima, Japan



**C10-5**  
**[P01-16]**  
14:48-15:00

**CD26/DPPiV-mediated regulation of pruritus in psoriasis.**

○ Eriko Komiya<sup>1,2</sup>, Ryo Hatano<sup>1</sup>, Haruna Otsuka<sup>1</sup>, Takumi Itoh<sup>1</sup>, Taketo Yamada<sup>3</sup>, Mitsutoshi Tominaga<sup>2</sup>, Kenji Takamori<sup>2</sup>, Kei Ohnuma<sup>1</sup>, Chikao Morimoto<sup>1</sup>

<sup>1</sup>Department of Therapy Development and Innovation for Immune Disorders and Cancers, Graduate School of Medicine, Juntendo University, Tokyo, Japan, <sup>2</sup>Institute for Environmental and Gender Specific Medicine, Graduate School of Medicine, Juntendo University, Chiba, Japan, <sup>3</sup>Department of Pathology, Saitama Medical University, Saitama, Japan

**C10-6**  
**[P01-09]**  
15:00-15:12

**Blockade of perforin prevents mucocutaneous injury in a murine model of interface dermatitis**

○ Akimasa Saito, Naoko Okiyama, Noriko Kubota, Yosuke Ishitsuka, Rei Watanabe, Manabu Fujimoto  
Department of Dermatology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan

**C10-7**  
**[P01-15]**  
15:12-15:24

**The pathogenic ceramide metabolizing enzyme sphingomyelin deacylase in atopic dermatitis is identical to the beta-subunit of acid ceramidase**

Yasuhiro Teranishi<sup>1</sup>, Hiroshi Kuwahara<sup>1</sup>, Makoto Kawashima<sup>2</sup>, Genji Imokawa<sup>3</sup>, ○ Mari Nogami-Itoh<sup>4,5</sup>

<sup>1</sup>Innovative Drug Discovery Laboratories, Sumitomo Dainippon Pharma, <sup>2</sup>The Department of Dermatology, Tokyo Women's Medical University, <sup>3</sup>Research Institute for Biological Functions, Chubu University, <sup>4</sup>Itoh Immunology and Allergy Institute, <sup>5</sup>National Institutes of Biomedical Innovation, Health and Nutrition

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## December 11, 2016, Room C

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### Morning Seminar organized by the 41 JSID local committee

8:00-8:40

Chair: Katsuko Kikuchi

**MS4 The Great East Japan Earthquake: From lessons to science based practice**

○ Shinichi Egawa

Division of International Cooperation for Disaster Medicine, International Research Institute of Disaster Science (IRIDeS), Tohoku University, Sendai, Japan

### Luncheon Seminar 9

#### "Optimal treatment goal and its method for psoriasis patient"

12:55-13:55

Chairs: Hideshi Torii, Akihiko Asahina

**LS9-1 What is the optimal treatment goal for psoriasis patients with safety and satisfaction?**

○ Keiichi Yamanaka

Department of Dermatology, Mie University, Graduate School of Medicine

**LS9-2 Clinical use of biologics in Japan-from new insights of the pathology to real world evidence in psoriasis treatment**

○ Shinichi Imafuku

Department of Dermatology, Faculty of Medicine, Fukuoka University

Co-sponsored by Janssen Pharmaceutical K.K.

### Concurrent Oral Session 11

#### (Human Clinical Research and Therapeutics-II)

14:00-15:24

Chairs: Hideo Asada, Tamihiko Kawakami

**C11-1 Activated regulatory T cells are increased in patients with alopecia areata for suppressing disease activity.**

[P04-05]

14:00-14:12

○ Ryoji Kubo, Shinnosuke Muramatsu, Yoko Sagawa, Chiyo Saito, Saori Kasuya, Akiko Nishioka, Emi Nishida, Akimichi Morita

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

**C11-2 Search for early predictive factors for recovery from rapidly-progressive alopecia areata after intravenous corticosteroid pulse therapy**

[P04-16]

14:12-14:24

○ Yohei Sato<sup>1</sup>, Ryo Takahashi<sup>2</sup>, Momoko Kimishima<sup>1</sup>, Yoshimi Yamazaki<sup>1</sup>, Tetsuo Shiohara<sup>1,2</sup>, Manabu Ohyama<sup>1,2</sup>

<sup>1</sup>Department of Dermatology, Kyorin University School of Medicine, <sup>2</sup>Flow Cytometry Core Facility, Kyorin University Graduate School of Medicine

**C11-3 Mast cell activation promotes possible transient hypermelanosis of the perilesional skin in rhododendrol induced-leukoderma**

[P04-11]

14:24-14:36

○ Aya Takahashi, Fei Yang, Lingli Yang, Noriko Arase, Atsushi Tanemura, Mari Wataya-Kaneda, Ichiro Katayama

The Department of Dermatology, University of Osaka, Japan

**C11-4 Markedly elevated EBV DNA load in plasma predicts the occurrence of HPS in hydroa vacciniforme and hypersensitivity to mosquito bites**

[P04-08]

14:36-14:48

○ Tomoko Miyake<sup>1,2</sup>, Takenobu Yamamoto<sup>1,3</sup>, Yoji Hirai<sup>1</sup>, Keiji Iwatsuki<sup>1</sup>

<sup>1</sup>Department of Dermatology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Japan,

<sup>2</sup>Department of Dermatology, National Sanatorium Nagashima-Aiseien, <sup>3</sup>Department of Dermatology, Kawasaki medical school

**C11-5 Up-regulation of HHV-6 microRNAs in the serum of DIHS/DRESS patients**

[P04-14]

14:48-15:00

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

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

**C11-6 Impact of therapeutic PD-1 blockade on T cell profile in advanced malignant melanoma: a possible link between PD-1<sup>+</sup>CD4<sup>+</sup> cell and prognosis**

[P04-15]

15:00-15:12

○ Ryo Takahashi<sup>1</sup>, Yohei Sato<sup>2</sup>, Momoko Kimishima<sup>2</sup>, Tetsuo Shiohara<sup>1,2</sup>, Manabu Ohyama<sup>1,2</sup>

<sup>1</sup>Flow Cytometry Core Facility, Kyorin University Graduate School of Medicine, Tokyo, Japan, <sup>2</sup>Department of Dermatology, Kyorin University School of Medicine, Tokyo, Japan

C11-7  
[P04-17]  
15:12-15:24

**Presence of anti-phosphatidylserine-prothrombin complex antibodies and anti-moesin antibodies in patients with polyarteritis nodosa**

○ Tamihiko Kawakami<sup>1</sup>, Tatsuro Okano<sup>1</sup>, Sora Takeuchi<sup>1</sup>, Yoshinao Soma<sup>1</sup>, Koya Suzuki<sup>2</sup>, Sachiko Tsukita<sup>2</sup>, Akihiro Ishizu<sup>3</sup>, Kazuo Suzuki<sup>4</sup>

<sup>1</sup>Department of Dermatology, St. Marianna University School of Medicine, Kawasaki, Japan, <sup>2</sup>Laboratory of Biological Science and Laboratory of Biosciences, Graduate School of Frontier Biosciences, Osaka University, Osaka, Japan, <sup>3</sup>Department of Pathology/Pathophysiology, Division of Pathophysiological Science, Hokkaido University Graduate School of Medicine, Sapporo, Japan,

<sup>4</sup>Department of Health Protection, Graduate School of Medicine, Teikyo University Asia International Institute of Infectious Disease Control, Japan

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December 11, 2016, Room D

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Concurrent Oral Session 12

(Carcinogenesis/Growth Factors/Signal Transduction/Cancer Genetics)

14:00-15:24

Chairs: Koji Sayama, Kenzo Takahashi, Fu-Tong Liu

**C12-1**  
**[P02-02]**  
14:00-14:12

**Overexpression of heat shock protein 90 as a potential therapeutic target for angiosarcoma**

○ Saori Yamada-Kanazawa<sup>1</sup>, Ikko Kajihara<sup>1</sup>, Satoshi Fukushima<sup>1</sup>, Masatoshi Jinnin<sup>1</sup>, Mamiko Masuzawa<sup>2</sup>, Mikio Masuzawa<sup>3</sup>, Yasuyuki Amoh<sup>2</sup>, Daichi Hoshina<sup>4</sup>, Riichiro Abe<sup>5</sup>, Hironobu Ihn<sup>1</sup>

<sup>1</sup>Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan, <sup>2</sup>Department of Dermatology, Kitasato University School of Medicine, <sup>3</sup>Department of Molecular Diagnostics, School of Allied Health Sciences, Kitasato University, <sup>4</sup>Department of Dermatology, Hokkaido University Graduate School of Medicine, <sup>5</sup>Department of Dermatology, Niigata University Graduate School of Medical and Dental Sciences

**C12-2**  
**[P02-03]**  
14:12-14:24

**Class III phosphoinositide 3-kinase Vps34 is essential for epidermal homeostasis**

○ Takuya Nagai<sup>1</sup>, Shin-Ichi Osada<sup>1</sup>, Yuta Mizusawa<sup>1</sup>, Tomoko Suzuki<sup>1</sup>, Satoshi Eguchi<sup>2</sup>, Junko Sasaki<sup>2</sup>, Takehiko Sasaki<sup>2</sup>, Motomu Manabe<sup>1</sup>

<sup>1</sup>Department of Dermatology and Plastic Surgery, Akita University Graduate School of Medicine, Akita, Japan, <sup>2</sup>Department of Medical Biology, Akita University Graduate School of Medicine

**C12-3**  
**[P02-04]**  
14:24-14:36

**Tumor-suppressive effects of interferon- $\beta$  through interleukin-24 in melanoma**

○ Yoshinori Watanabe, Yoshimasa Nobeyama, Munenari Itoh, Hidemi Nakagawa

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

**C12-4**  
**[P02-05]**  
14:36-14:48

**High expression of activation induced deaminase in recurrent or metastatic squamous cell carcinoma**

○ Takashi Yamaguchi, Daisuke Omoto, Yu Sawada, Sanehito Haruyama, Manabu Yoshioka, Etsuko Okada, Motonobu Nakamura

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

**C12-5**  
**[P02-06]**  
14:48-15:00

**Putative driver mutations of Kaposiform hemangioendothelioma detected by exome sequence analysis**

○ Sho Egashira, Masatoshi Jinnin, Miho Harada, Shinichi Masuguchi, Satoshi Fukushima, Hironobu Ihn

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

**C12-6**  
**[P02-07]**  
15:00-15:12

**Lesion-specific detection of Merkel cell polyomavirus and induction of APOBEC3 in the carrier patients with Merkel cell carcinoma**

○ Yuri Nakano<sup>1</sup>, Kousho Wakae<sup>2</sup>, Kaori Shima<sup>1</sup>, Teruki Dainichi<sup>1</sup>, Masamichi Muramatsu<sup>2</sup>, Kenji Kabashima<sup>1</sup>

<sup>1</sup>Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, <sup>2</sup>Department of Molecular Genetics, Kanazawa University Graduate School of Medicine, Kanazawa, Japan

**C12-7**  
**[P02-08]**  
15:12-15:24

**Strong sunshine in Okinawa can be another provocative factor of ATL: UV-B irradiation activates Tax in HTLV-I infected T cells**

○ Takuya Miyagi<sup>1</sup>, Sayaka Yamaguchi<sup>1</sup>, Yoshiaki Takahashi<sup>2</sup>, Hideki Fujii<sup>2</sup>, Yuetu Tanaka<sup>2</sup>, Kenzo Takahashi<sup>1</sup>

<sup>1</sup>The Department of Dermatology, University of the Ryukyus, Okinawa, Japan, <sup>2</sup>The Department of Immunology, University of the Ryukyus

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 December 9-11, 2016, Poster Venue
 

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## Poster Presentation

## Category 1 (P01): Autoimmunity/Inflammation

- P01-01 [II-4]** **FcγRIIb is critical to establish clonal ignorance and suppress pemphigus phenotype in pathogenic anti-desmoglein 3 antibody knock-in mice**  
 ○ Hisashi Nomura<sup>1</sup>, Yuko Kase<sup>2</sup>, Jun Yamagami<sup>1</sup>, Naoko Wada<sup>1</sup>, Shigeo Koyasu<sup>3</sup>, Hayato Takahashi<sup>1</sup>, Masayuki Amagai<sup>1,3</sup>  
<sup>1</sup>Departments of Dermatology, Keio University School of Medicine, <sup>2</sup>Research & Development Division, Japan Blood Products Organization, <sup>3</sup>RIKEN Center for Integrative Medical Sciences
- P01-02 [II-3]** **Langerhans cells regulate autoimmune CD8 T cell-mediated interface dermatitis**  
 ○ Noriko Kubota<sup>1</sup>, Naoko Okiyama<sup>1</sup>, Akimasa Saito<sup>1</sup>, Yosuke Ishitsuka<sup>1</sup>, Rei Watanabe<sup>1</sup>, Björn E. Clausen<sup>2</sup>, Manabu Fujimoto<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan, <sup>2</sup>Institute for Molecular Medicine, University Medical Center of the Johannes Gutenberg-University Mainz, 55131 Mainz, Germany
- P01-03 [II-2]** **Fli1-deficient γδT cells augment tissue fibrosis and vasculopathy in a murine model of systemic sclerosis via increased IL-17A production**  
 ○ Ryosuke Saigusa<sup>1</sup>, Yoshihide Asano<sup>1</sup>, Takuya Miyagawa<sup>1</sup>, Megumi Hirabayashi<sup>1</sup>, Kouki Nakamura<sup>1</sup>, Shunsuke Miura<sup>1</sup>, Takashi Yamashita<sup>1</sup>, Yohei Ichimura<sup>1</sup>, Takehiro Takahashi<sup>1</sup>, Tetsuo Toyama<sup>1</sup>, Takashi Taniguchi<sup>1</sup>, Ayumi Yoshizaki<sup>1</sup>, Maria Trojanowska<sup>2</sup>, Shinichi Sato<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, University of Tokyo, Tokyo, Japan, <sup>2</sup>Arthritis Center, Boston University School of Medicine, Boston, Massachusetts
- P01-04 [II-1]** **A unique CD9<sup>+</sup>CD80<sup>+</sup> regulatory B cell inhibits contact hypersensitivity response**  
 ○ Takashi Matsushita<sup>1</sup>, Doanh Le Huu<sup>1</sup>, Tadahiro Kobayashi<sup>1</sup>, Yasuhiro Hamaguchi<sup>1</sup>, Minoru Hasegawa<sup>2</sup>, Manabu Fujimoto<sup>3</sup>, Kazuhiko Takehara<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Kanazawa University, Kanazawa, Japan, <sup>2</sup>Department of Dermatology, University of Fukui, Fukui, <sup>3</sup>Department of Dermatology, University of Tsukuba, Tsukuba
- P01-05 [C01-1]** **C-terminal cleavage of collagen XVII induces neopeptides which can be recognized by autoantibodies of linear IgA bullous dermatosis**  
 ○ Ellen Toyonaga, Wataru Nishie, Kentaro Izumi, Hideyuki Ujiie, Hiroshi Shimizu  
 Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan
- P01-06 [C01-4]** **Essential requirement for interferon regulatory factor 7 in autoantibody production but not development of nephritis in murine lupus**  
 ○ Fumi Miyagawa, Hideo Asada  
 Department of Dermatology, Nara Medical University, Nara, Japan
- P01-07 [C10-1]** **Establishment of a novel murine model of psoriasis by activating p38 MAPK pathway**  
 ○ Kenji Sakurai, Teruki Dainichi, Reiko Matsumoto, Yuri Nakano, Kenji Kabashima  
 Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan
- P01-08 [C01-2]** **Immunomodulatory effects of periostin on CD163<sup>+</sup> skin-resident macrophages in pemphigus vulgaris and bullous pemphigoid.**  
 ○ Kayo Tanita, Taku Fujimura, Aya Kakizaki, Sadanori Furudate, Setsuya Aiba  
 The Department of Dermatology, Tohoku university Graduate School of Medicine, Sendai, Japan
- P01-09 [C10-6]** **Blockade of perforin prevents mucocutaneous injury in a murine model of interface dermatitis**  
 ○ Akimasa Saito, Naoko Okiyama, Noriko Kubota, Yosuke Ishitsuka, Rei Watanabe, Manabu Fujimoto  
 Department of Dermatology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan
- P01-10 [C01-6]** **Cyclophosphamide improves vascular abnormalities in endothelial cell-specific *Fli1* knockout mice mimicking scleroderma-related vasculopathy**  
 ○ Takashi Yamashita<sup>1</sup>, Yoshihide Asano<sup>1</sup>, Takuya Miyagawa<sup>1</sup>, Megumi Hirabayashi<sup>1</sup>, Kouki Nakamura<sup>1</sup>, Ryosuke Saigusa<sup>1</sup>, Tetsuo Toyama<sup>1,2</sup>, Takehiro Takahashi<sup>1</sup>, Yohei Ichimura<sup>1</sup>, Takashi Taniguchi<sup>1</sup>, Ayumi Yoshizaki<sup>1</sup>, Maria Trojanowska<sup>2</sup>, Shinichi Sato<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, University of Tokyo, Tokyo, Japan, <sup>2</sup>Arthritis Center, Boston University School of Medicine, Boston, MA, USA.
- P01-11 [C10-2]** **Genetic prediction of the effectiveness of anti-TNF-α therapy for psoriasis patients**  
 ○ Rika Nishikawa<sup>1</sup>, Hiroshi Nagai<sup>1</sup>, Toshinori Bito<sup>2</sup>, Tetsuya Ikeda<sup>3</sup>, Tatsuya Horikawa<sup>4</sup>, Atsuko Adachi<sup>5</sup>, Tsukasa Matsubara<sup>6</sup>  
<sup>1</sup>Division of Dermatology, Department of Internal Related, Faculty of Medicine, Kobe University Graduate School of Medicine, Hyogo, Japan, <sup>2</sup>Bito Dermatology Clinic, Hyogo, Japan, <sup>3</sup>Department of Dermatology, Kobe City Hospital Organization Kobe City Medical Center West Hospital, <sup>4</sup>Department of Dermatology, Nishikobe Medical Center, <sup>5</sup>Department of Dermatology, Hyogo Prefectural Kakogawa Medical Center, <sup>6</sup>Matsubara Mayflower Hospital, Hyogo, Japan

- P01-12 [C01-3]** **Intravenous immunoglobulin suppresses disease activity in mouse models of bullous pemphigoid**  
○ Hideyuki Ujiie<sup>1</sup>, Tetsumasa Sasaoka<sup>1,2</sup>, Wataru Nishie<sup>1</sup>, Ken Natsuga<sup>1</sup>, Satoru Shinkuma<sup>1</sup>, Hiroshi Shimizu<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, <sup>2</sup>Pharmaceutical Research Laboratory, Nihon Pharmaceutical Co. Ltd., Narita, Chiba, Japan
- P01-13 [C10-3]** **Self-genomic double-stranded DNA is a potential trigger of keratinocyte hyperproliferation in psoriasis**  
○ Yuqian Luo<sup>1,2</sup>, Takeshi Hara<sup>2</sup>, Yuko Ishido<sup>1,2</sup>, Norihisa Ishii<sup>2</sup>, Takeshi Kambara<sup>3</sup>, Koichi Suzuki<sup>1,2</sup>  
<sup>1</sup>Department of Clinical Laboratory Science, Faculty of Medical Technology, Teikyo University, Tokyo, Japan, <sup>2</sup>Leprosy Research Center, National Institute of Infectious Diseases, <sup>3</sup>Department of Dermatology, Yokohama City University Medical Center
- P01-14 [C10-4]** **High fat diet exacerbates psoriasis-like skin lesion induced by imiquimod through inducing IL-17A and inflammasomes in mice**  
○ Yuko Higashi<sup>1</sup>, Munekazu Yamakuchi<sup>2</sup>, Tomoko Fukushige<sup>1</sup>, Teruto Hashiguchi<sup>2</sup>, Takuro Kanekura<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, University of Kagoshima, Kagoshima, Japan, <sup>2</sup>Department of Laboratory and Vascular Medicine, University of Kagoshima, Kagoshima, Japan
- P01-15 [C10-7]** **The pathogenic ceramide metabolizing enzyme sphingomyelin deacylase in atopic dermatitis is identical to the beta-subunit of acid ceramidase**  
Yasuhiro Teranishi<sup>1</sup>, Hiroshi Kuwahara<sup>1</sup>, Makoto Kawashima<sup>2</sup>, Genji Imokawa<sup>3</sup>, ○ Mari Nogami-Itoh<sup>4,5</sup>  
<sup>1</sup>Innovative Drug Discovery Laboratories, Sumitomo Dainippon Pharma, <sup>2</sup>The Department of Dermatology, Tokyo Women's Medical University, <sup>3</sup>Research Institute for Biological Functions, Chubu University, <sup>4</sup>Itoh Immunology and Allergy Institute, <sup>5</sup>National Institutes of Biomedical Innovation, Health and Nutrition
- P01-16 [C10-5]** **CD26/DPPIV-mediated regulation of pruritus in psoriasis.**  
○ Eriko Komiya<sup>1,2</sup>, Ryo Hatano<sup>1</sup>, Haruna Otsuka<sup>1</sup>, Takumi Itoh<sup>1</sup>, Taketo Yamada<sup>3</sup>, Mitsutoshi Tominaga<sup>2</sup>, Kenji Takamori<sup>2</sup>, Kei Ohnuma<sup>1</sup>, Chikao Morimoto<sup>1</sup>  
<sup>1</sup>Department of Therapy Development and Innovation for Immune Disorders and Cancers, Graduate School of Medicine, Juntendo University, Tokyo, Japan, <sup>2</sup>Institute for Environmental and Gender Specific Medicine, Graduate School of Medicine, Juntendo University, Chiba, Japan, <sup>3</sup>Department of Pathology, Saitama Medical University, Saitama, Japan
- P01-17 [C01-5]** **Inhibitory regulation of MFG-E8 on fibrosis in systemic sclerosis**  
○ Chisako Fujiwara, Akihito Uehara, Yoko Yokoyama, Akihiko Uchiyama, Akiko Sekiguchi, Sachiko Ogino, Osamu Ishikawa, Sei-ichiro Motegi  
Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi, Gunma, Japan
- P01-18 [C01-7]** **Single B cell analysis can reveal distinct cytokine profile of autoreactive B cells in systemic sclerosis**  
○ Takemichi Fukasawa<sup>1</sup>, Ayumi Yoshizaki<sup>1</sup>, Satoshi Toyama<sup>1</sup>, Satoshi Ebata<sup>1</sup>, Kouki Nakamura<sup>1</sup>, Ryosuke Saigusa<sup>1</sup>, Takashi Yamashita<sup>1</sup>, Yohei Ichimura<sup>1</sup>, Takehiro Takahashi<sup>1</sup>, Takashi Taniguchi<sup>1</sup>, Yoshihide Asano<sup>1</sup>, Yutaka Kazoe<sup>2</sup>, Kazuma Mawatari<sup>2</sup>, Takehiko Kitamori<sup>2</sup>, Shinichi Sato<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, University of Tokyo, Tokyo, Japan, <sup>2</sup>The Department of Applied Chemistry, University of Tokyo, Tokyo, Japan
- P01-19 [O1-01]** **Efficacy and Safety of Apremilast in Japanese Patients With Moderate to Severe Psoriasis: 68-Week Results From a Phase 2b Randomized Trial**  
○ Mayumi Komine<sup>1</sup>, Mamitaro Ohtsuki<sup>1</sup>, Yukari Okubo<sup>2</sup>, Shinichi Imafuku<sup>3</sup>, Robert M. Day<sup>4</sup>, Peng Chen<sup>4</sup>, Allan Maroli<sup>4</sup>, Osamu Nemoto<sup>5</sup>  
<sup>1</sup>Jichi Medical University, <sup>2</sup>Tokyo Medical University, <sup>3</sup>Fukuoka University, <sup>4</sup>Celgene Corporation, <sup>5</sup>Kojinkai Sapporo Skin Clinic
- P01-20 [O1-02]** **Binding Affinity and Interaction of LL-37 with HLA-C\*06:02 in Psoriasis**  
○ Tomotaka Mabuchi<sup>1</sup>, Noriaki Hirayama<sup>2</sup>  
<sup>1</sup>Department of Dermatology, Tokai University School of Medicine, Kanagawa, Japan, <sup>2</sup>Institute of Advanced Biosciences, Tokai University, Kanagawa, Japan
- P01-21 [O1-03]** **GMA decreases serum pro-inflammatory cytokines and increases frequency of peripheral MDSCs in patients with neutrophilic dermatoses**  
○ Masanao Sakanoue, Yuko Higashi, Takuro Kanekura  
The Department of Dermatology, University of Kagoshima, Kagoshima, Japan
- P01-22 [O1-04]** **Involvement of opioid systems in itch-related behavior of imiquimod-induced psoriasis-like dermatitis model**  
○ Nobuaki Takahashi<sup>1</sup>, Mitsutoshi Tominaga<sup>1</sup>, Yayoi Kamata<sup>1</sup>, Yoshie Umehara<sup>1</sup>, Hironori Matsuda<sup>1</sup>, Yasushi Suga<sup>2</sup>, Hideoki Ogawa<sup>1</sup>, Kenji Takamori<sup>1,2</sup>  
<sup>1</sup>Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, Japan, <sup>2</sup>Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan
- P01-23 [O1-05]** **Enhanced phosphorylation of Janus kinase 1 in Nakajo-Nishimura syndrome**  
○ Yutaka Inaba, Yumi Nakatani, Kayo Kunimoto, Fukumi Furukawa, Nobuo Kanazawa  
Department of Dermatology, Wakayama Medical University

- P01-24 [O1-06] Combinational effects of maxacalcitol and betamethasone butyrate propionate on imiquimod-induced psoriasis-like dermatitis in mice**  
 ○ Kei Hashimoto, Hideya Uratsuji, Yoshihito Yamada, Takamichi Kitano, Yusuke Kumagai, Tatsumi Matsumoto  
 Pharmacological Research Group, Drug Development Laboratories, Maruho Co., Ltd.
- P01-25 [O1-07] Dissecting the mechanism of itch induced by sorafenib—can sorafenib effect on mast cells?—**  
 ○ Yukari Mizukami, Koji Sugawara, Daisuke Tsuruta  
 Department of Dermatology, Osaka City University Graduate School of Medicine, Osaka, Japan
- P01-26 [O1-08] Role of sulfated cholecystokinin 8 in spinal itch transmission.**  
 ○ Fumiya Kusube<sup>1</sup>, Mitsutoshi Tominaga<sup>1</sup>, Hiroaki Kawasaki<sup>1</sup>, Fumiyuki Yamakura<sup>1</sup>, Hisashi Naito<sup>4</sup>, Hideki Ogawa<sup>1</sup>, Yasuhiro Tomooka<sup>2,5</sup>, Kenji Takamori<sup>3</sup>  
<sup>1</sup>Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, Japan, <sup>2</sup>Department of Biological Science and Technology, Faculty of Industrial Science and Technology, Tokyo University of Science, Tokyo, Japan, <sup>3</sup>Juntendo University School of Health Care and Nursing, Chiba, Japan, <sup>4</sup>Institute of Health and Sports Science & Medicine, Juntendo University, Chiba, Japan, <sup>5</sup>Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan
- P01-27 [O1-09] Correlation analysis among plasma granzyme B level, pruritus and severity score in patients with atopic dermatitis**  
 ○ Yayoi Kamata<sup>1</sup>, Utako Kimura<sup>2</sup>, Hironori Matsuda<sup>1</sup>, Suhandy Tenggara<sup>1</sup>, Yasushi Suga<sup>2</sup>, Hideoki Ogawa<sup>1</sup>, Mitsutoshi Tominaga<sup>1</sup>, Kenji Takamori<sup>1,2</sup>  
<sup>1</sup>Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, Japan, <sup>2</sup>Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan
- P01-28[SE] [O1-10] The ex vivo-induced regulatory B cells ameliorate tissue fibrosis and autoimmunity via an anti-oxidative effect in systemic sclerosis**  
 ○ Ayumi Yoshizaki, Takemichi Fukasawa, Satoshi Ebata, Shinichi Sato  
 Department of Dermatology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, Tokyo, Japan
- P01-29 [O1-11] Therapeutic and immunomodulatory effects of adipose-derived stromal cells on psoriasis animal model**  
 ○ Yasushi Matsuzaki, Akiko Rokunohe, Daiki Rokunohe, Eiko Makita, Hajime Nakano, Daisuke Sawamura  
 Department of Dermatology, Hirosaki University Graduate School of Medicine, Hirosaki, Japan
- P01-30 [O1-12] α2AP regulates vascular alteration by inhibiting VEGF signaling in systemic sclerosis**  
 ○ Yosuke Kanno<sup>1</sup>, En Shu<sup>2</sup>, Hiroyuki Kanoh<sup>2</sup>, Ayaka Matsuda<sup>1</sup>, Mariko Seishima<sup>2</sup>  
<sup>1</sup>Doshisha Women Collage of Liberal Arts, <sup>2</sup>Gifu University Graduate School of Medicine
- P01-31 [O1-13] Serum lipocalin-2 is a potential biomarker for pruritus in patients with psoriasis**  
 ○ Mitsutoshi Tominaga<sup>1</sup>, Nobuaki Takahashi<sup>1</sup>, Utako Kimura<sup>2</sup>, Yayoi Kamata<sup>1</sup>, Yoshie Umehara<sup>1</sup>, Yasushi Suga<sup>2</sup>, Hideoki Ogawa<sup>1</sup>, Kenji Takamori<sup>1,2</sup>  
<sup>1</sup>Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, Japan, <sup>2</sup>Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan
- P01-32 [O1-14] Decreased IL-10-producing B cell level in patients with pemphigus but not with pemphigoid**  
 ○ Miho Kabuto, Noriki Fujimoto, Toshifumi Takahashi, Takeshi Nakanishi, Toshihiro Tanaka  
 Department of Dermatology, Shiga University of Medical Science, Shiga, Japan
- P01-33 [O1-15] Dimethylhonokiol inhibits PDE4 activity that impedes neutrophil activation and protects against imiquimod-induced psoriasis**  
 ○ Tsong-Long Hwang  
 College of Human Ecology, Chang Gung University of Science and Technology, Taiwan
- P01-34 [O1-16] Comparative study of cutaneous adverse reactions induced by a proteasome inhibitor with skin eruptions in Nakajo-Nishimura syndrome**  
 ○ Kayo Kunimoto<sup>1</sup>, Nobuo Kanazawa<sup>1</sup>, Fukumi Furukawa<sup>1</sup>, Keiko Manabe<sup>2</sup>, Kenji Asagoe<sup>2</sup>, Osamu Yamasaki<sup>3</sup>, Takeshi Kabahara<sup>4</sup>, Miwa Kanaoka<sup>5</sup>, Michiko Aihara<sup>5</sup>, Yuichi Teraki<sup>6</sup>, Seiichi Izaki<sup>6</sup>, Ryuhei Okuyama<sup>7</sup>, Toshiyuki Yamamoto<sup>8</sup>, John Hanna<sup>9</sup>  
<sup>1</sup>The Department of Dermatology, Wakayama Medical University, Wakayama, Japan, <sup>2</sup>Department of Dermatology, National Hospital Organization Okayama Medical Center, Okayama, Japan, <sup>3</sup>Department of Dermatology, Okayama University, Okayama, Japan, <sup>4</sup>Department of Dermatology, Yokohama City University Medical Center, Yokohama, Japan, <sup>5</sup>Department of Dermatology, Yokohama City University School of Medicine, Yokohama, Japan, <sup>6</sup>Department of Dermatology, Saitama Medical Center, Saitama, Japan, <sup>7</sup>Department of Dermatology, Shinsyu University, Nagano, Japan, <sup>8</sup>Department of Dermatology, Fukushima Medical University, Fukushima, Japan, <sup>9</sup>Department of Pathology, Brigham and Women's Hospital, Boston, USA
- P01-35 [O1-17] Inhibitory role of A20 on inflammatory reaction of epidermal keratinocytes**  
 ○ Chang Deok Kim, Kyung-Cheol Sohn, Seung Ju Back, Sue Jeong Kim, Dae-Kyoung Choi, Jung-Min Shin, Myung Im, Young Lee, Young-Joon Seo, Jeung-Hoon Lee  
 Department of Dermatology, Chungnam National University, Daejeon, Korea

- P01-36 [O1-18] Protease allergen and tape-stripping cooperatively promote epidermal barrier dysfunction and proinflammatory gene expression in mice**  
○ Punyada Suchiva<sup>1,2</sup>, Toshiro Takai<sup>2</sup>, Hideo Iida<sup>1,2</sup>, Sakiko Shimura<sup>1,2</sup>, Hirono Ochi<sup>1,2</sup>, Izumi Nishioka<sup>1,2</sup>, Shigaku Ikeda<sup>1,2</sup>, Hideoki Ogawa<sup>1,2</sup>  
<sup>1</sup>Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, Japan, <sup>2</sup>Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan
- P01-37 [O1-19] IgE-independent pathophysiology of severe atopic dermatitis demonstrated in an IgE-deficient patient**  
○ Yasushi Ogawa, Michihiro Kono, Mina Tsujikawa, Hiromi Tsujiuchi, Masashi Akiyama  
Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan
- P01-38 [O1-20] Role of autophagy in bleomycin-induced murine scleroderma**  
○ Tatsuhiko Mori, Toshiyuki Yamamoto  
The Department of Dermatology, Fukushima Medical University, Fukushima, Japan
- P01-39 [O1-21] Localization of IgG against *D. farina*-tropomyosin in dorsal root ganglia of NC/Nga mice with atopic dermatitis-like symptoms**  
○ Ayaka Otsu<sup>1,2</sup>, Hiroaki Kawasaki<sup>1</sup>, Mitsutoshi Tominaga<sup>1</sup>, Ayako Shigenaga<sup>3</sup>, Kyoichi Iizumi<sup>1</sup>, Takeshi Baba<sup>4</sup>, Hisashi Naito<sup>3</sup>, Hideoki Ogawa<sup>1</sup>, Tadaaki Nakajima<sup>2</sup>, Yasuhiro Tomooka<sup>2</sup>, Fumiyuki Yamakura<sup>5</sup>, Kenji Takamori<sup>1,6</sup>  
<sup>1</sup>Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, Japan, <sup>2</sup>Department of Biological Science and Technology, Faculty of Industrial Science and Technology, Tokyo University of Science, Tokyo, Japan, <sup>3</sup>Institute of Health and Sports Science & Medicine, Juntendo University, Chiba, Japan, <sup>4</sup>Juntendo University School of Medicine, Chiba, Japan, <sup>5</sup>Juntendo University Faculty of International Liberal Arts, Tokyo, Japan, <sup>6</sup>Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan
- P01-40 [O1-22] Reduction of long-chain fatty acid ceramides in dermatitis caused by repeated exposure to house-dust mite in NC/Nga mice**  
○ Hiroyuki Kanoh<sup>1</sup>, Asako Ishitsuka<sup>1</sup>, Etsuko Fujine<sup>1</sup>, Mitsuhiro Nakamura<sup>2</sup>, Shuhei Matsuhaba<sup>3</sup>, Naoki Inagaki<sup>1</sup>, Yoshiko Banno<sup>1</sup>, Mariko Seishima<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Gifu University, Gifu, Japan, <sup>2</sup>Laboratory of Drug Informatics, Gifu Pharmaceutical University, Gifu, Japan, <sup>3</sup>Laboratory of Pharmacology, Gifu Pharmaceutical University, Gifu, Japan
- P01-41 [O1-23] The role of ATP-stimulated three-dimensional normal human epidermal keratinocytes in skin inflammation revealed by DNA microarray analysis**  
○ Hiroshi Ohara<sup>1</sup>, Rumiko Saito<sup>2</sup>  
<sup>1</sup>Department of Clinical Pharmacy, School of Pharmaceutical Sciences, Ohu University of Fukushima, Japan, <sup>2</sup>Department of Integrative Genomics, Tohoku Medical Megabank Organization, Tohoku University
- P01-42 [O1-24] Toll-like receptor 3 increases chronic contact hypersensitivity induced by repeated application of hapten**  
○ Risa Yasuike<sup>1</sup>, Risa Tamagawa-Mineoka<sup>1</sup>, Mayumi Ueta<sup>2</sup>, Naomi Nakamura<sup>1</sup>, Shigeru Kinoshita<sup>2</sup>, Norito Katoh<sup>1</sup>  
<sup>1</sup>The Departments of Dermatology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Kyoto, Japan, <sup>2</sup>The Departments of Frontier Medical Science and Technology for Ophthalmology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Kyoto, Japan
- P01-43 [O1-25] Impact of nicotine treatment on cultured human sweat gland cells.**  
○ Mari Kishibe<sup>1</sup>, Masamoto Murakami<sup>2</sup>, Takuro Kurosu<sup>1</sup>, Takashi Shibuya<sup>1</sup>, Nao Saito<sup>1</sup>, Saomi Igawa<sup>1</sup>, Jiro Uehara<sup>1</sup>, Masaru Honma<sup>1</sup>, Katherine A Radek<sup>3</sup>, Akemi Ishida-Yamamoto<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Asahikawa Medical University, Hokkaido, Japan, <sup>2</sup>Department of Dermatology, Ehime University Graduate School of Medicine, Ehime, Japan, <sup>3</sup>Department of Surgery, Burn Shock and Trauma Institute, Health Science Division, Loyola University Chicago, Maywood, USA
- P01-44 [O1-26] The anti-inflammatory effects of potassium iodide in SDS-induced inflammatory murine skin**  
○ Shujiro Hayashi, Yoichiro Hamasaki, Atsushi Hatamochi  
Department of Dermatology, Dokkyo Medical University, School of Medicine, Mibu, Tochigi, Japan
- P01-45 [O1-27] The Therapeutic Potential and Molecular Mechanism of Isoflavone Extracts on Anti-Psoriatic Activity**  
○ Chi-Feng Hung<sup>1</sup>, Hsin-Ju Li<sup>2</sup>  
<sup>1</sup>School of Medicine, Fu Jen Catholic University, New Taipei City, Taiwan, <sup>2</sup>Department of Chemistry, Fu Jen Catholic University, New Taipei City, Taiwan
- P01-46 [O1-28] A case of bullous pemphigoid which shows negative serum anti-BP180 antibody by commercial ELISA**  
○ Tie Duerna, Tokiko Yoshida, Yuko Chinuki, Eishin Morita  
The Department of Dermatology, Shimane University Faculty of Medicine, Izumo, Shimane, Japan.
- P01-47 [O1-29] Lactobacillus pentosus GMNL-77 Inhibits Skin Lesions in Imiquimod-Induced Psoriasis-Like Mice**  
○ Chieh-Shan Wu<sup>1</sup>, Wen-Ho Chuo<sup>2</sup>, Yi-Hsing Chen<sup>3</sup>, Ya-Husan Chao<sup>3</sup>, Chi-Chen Lin<sup>3,4</sup>, Yi-Rong Li<sup>4</sup>, Wan-Hua Tsai<sup>5</sup>, Yu-Kuo Chen<sup>6</sup>  
<sup>1</sup>Department of Dermatology, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan, <sup>2</sup>Department of Pharmacy, Tajen University, Pingtung, Taiwan, <sup>3</sup>Institute of Biomedical Science, National Chung-Hsing University, Taichung, Taiwan, <sup>4</sup>Department of Medical Research and Education, Taichung Veterans General Hospital, Taichung, Taiwan, <sup>5</sup>Research and Development Department, GenMont Biotech Incorporation, Taiwan, <sup>6</sup>Department of Food Science, National Pintung University of Science and Technology, Pintung, Taiwan



**P01-48 The Therapeutic Potential and Molecular Mechanism of Flavonoid HCF-A on Inflammatory Skin Diseases****[O1-30]**○ Hsin-Ju Li<sup>1</sup>, Chi-Feng Hung<sup>2</sup><sup>1</sup>Department of Chemistry, Fu Jen Catholic University, New Taipei City, Taiwan, <sup>2</sup>School of Medicine, Fu Jen Catholic University, New Taipei City, Taiwan**Category 2 (P02): Carcinogenesis/Growth Factors/Signal Transduction/Cancer Genetics****P02-01 Mechanistic insight into the ATP-induced fibrosis in systemic sclerosis****[I-1]**

○ Buddhini Perera, Akihiko Uchiyama, Akihito Uehara, Kazuya Yamada, Sachiko Ogino, Yoko Yokoyama, Osamu Ishikawa, Sei-ichiro Motegi

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

**P02-02 Overexpression of heat shock protein 90 as a potential therapeutic target for angiosarcoma****[C12-1]**○ Saori Yamada-Kanazawa<sup>1</sup>, Ikko Kajihara<sup>1</sup>, Satoshi Fukushima<sup>1</sup>, Masatoshi Jinnin<sup>1</sup>, Mamiko Masuzawa<sup>2</sup>, Mikio Masuzawa<sup>3</sup>, Yasuyuki Amoh<sup>2</sup>, Daichi Hoshina<sup>4</sup>, Riichiro Abe<sup>5</sup>, Hironobu Ihn<sup>1</sup><sup>1</sup>Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan, <sup>2</sup>Department of Dermatology, Kitasato University School of Medicine, <sup>3</sup>Department of Molecular Diagnostics, School of Allied Health Sciences, Kitasato University, <sup>4</sup>Department of Dermatology, Hokkaido University Graduate School of Medicine, <sup>5</sup>Department of Dermatology, Niigata University Graduate School of Medical and Dental Sciences**P02-03 Class III phosphoinositide 3-kinase Vps34 is essential for epidermal homeostasis****[C12-2]**○ Takuya Nagai<sup>1</sup>, Shin-Ichi Osada<sup>1</sup>, Yuta Mizusawa<sup>1</sup>, Tomoko Suzuki<sup>1</sup>, Satoshi Eguchi<sup>2</sup>, Junko Sasaki<sup>2</sup>, Takehiko Sasaki<sup>2</sup>, Motomu Manabe<sup>1</sup><sup>1</sup>Department of Dermatology and Plastic Surgery, Akita University Graduate School of Medicine, Akita, Japan, <sup>2</sup>Department of Medical Biology, Akita University Graduate School of Medicine**P02-04 Tumor-suppressive effects of interferon- $\beta$  through interleukin-24 in melanoma****[C12-3]**

○ Yoshinori Watanabe, Yoshimasa Nobeyama, Munenari Itoh, Hidemi Nakagawa

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

**P02-05 High expression of activation induced deaminase in recurrent or metastatic squamous cell carcinoma****[C12-4]**

○ Takashi Yamaguchi, Daisuke Omoto, Yu Sawada, Sanehito Haruyama, Manabu Yoshioka, Etsuko Okada, Motonobu Nakamura

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

**P02-06 Putative driver mutations of Kaposiform hemangioendothelioma detected by exome sequence analysis****[C12-5]**

○ Sho Egashira, Masatoshi Jinnin, Miho Harada, Shinichi Masuguchi, Satoshi Fukushima, Hironobu Ihn

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

**P02-07 Lesion-specific detection of Merkel cell polyomavirus and induction of APOBEC3 in the carrier patients with Merkel cell carcinoma****[C12-6]**○ Yuri Nakano<sup>1</sup>, Kousho Wakae<sup>2</sup>, Kaori Shima<sup>1</sup>, Teruki Dainichi<sup>1</sup>, Masamichi Muramatsu<sup>2</sup>, Kenji Kabashima<sup>1</sup><sup>1</sup>Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, <sup>2</sup>Department of Molecular Genetics, Kanazawa University Graduate School of Medicine, Kanazawa, Japan**P02-08 Strong sunshine in Okinawa can be another provocative factor of ATL: UV-B irradiation activates Tax in HTLV-I infected T cells****[C12-7]**○ Takuya Miyagi<sup>1</sup>, Sayaka Yamaguchi<sup>1</sup>, Yoshiaki Takahashi<sup>2</sup>, Hideki Fujii<sup>2</sup>, Yuetu Tanaka<sup>2</sup>, Kenzo Takahashi<sup>1</sup><sup>1</sup>The Department of Dermatology, University of the Ryukyus, Okinawa, Japan, <sup>2</sup>The Department of Immunology, University of the Ryukyus**P02-09 Novel role of ASC as a regulator of metastatic phenotype****[O1-31]**○ Nagisa Okada<sup>1,2</sup>, Chifumi Fujii<sup>2,3</sup>, Tomio Matsumura<sup>2</sup>, Masato Kitazawa<sup>2,4</sup>, Shunichiro Taniguchi<sup>2,5</sup>, Shigeaki Hida<sup>6</sup>, Hisashi Ubara<sup>1</sup>, Ryuhei Okuyama<sup>1</sup><sup>1</sup>Department of Dermatology, Shinshu University, Matsumoto, Japan, <sup>2</sup>Department of Molecular Oncology, Institute of Pathogenesis and Disease Prevention, Graduate School of Medicine, Shinshu University, Matsumoto, Japan, <sup>3</sup>Department of Advanced Medicine for Health Promotion, Institute for Biomedical Sciences, Interdisciplinary Cluster for Cutting Edge Research, Shinshu University, Matsumoto, Japan, <sup>4</sup>Department of Surgery, School of Medicine, Shinshu University, Matsumoto, Japan, <sup>5</sup>Department of Comprehensive Cancer Therapy, School of Medicine, Shinshu University, Matsumoto, Japan, <sup>6</sup>Department of Molecular and Cellular Health Science, Graduate School of Pharmaceutical Sciences, Nagoya City University, Nagoya, Japan**P02-10 Strong FGF1 signaling inhibits the proliferative and invasive capability of murine angiosarcoma cell line ISOS-1****[O1-32]**○ Fumiaki Nakayama<sup>1</sup>, Sachiko Umeda<sup>1</sup>, Mayumi Fujita<sup>1</sup>, Takeshi Yasuda<sup>1</sup>, Kaori Imadome<sup>1</sup>, Mitsuko Kawano<sup>1</sup>, Sachiko Koike<sup>2</sup>, Mikio Masuzawa<sup>3</sup>, Takashi Imai<sup>4</sup><sup>1</sup>Department of Basic Medical Sciences for Radiation Damages, National Institute of Radiological Sciences (NIRS), Chiba, Japan, <sup>2</sup>Department of Accelerator and Medical Physics, National Institute of Radiological Sciences (NIRS), Chiba, Japan, <sup>3</sup>Department of Molecular Diagnostics, School of Allied Health Sciences, Kitasato University, Sagami-hara, Japan, <sup>4</sup>Medical Databank Section, NIRS Hospital, National Institute of Radiological Sciences (NIRS), Chiba, Japan

- P02-11 [O1-33] IL-33 plays a role in HB-EGF-mediated keratinocyte migration via controlling STAT3 activation**  
○ Xiuju Dai, Ken Shiraiishi, Mikiko Tohyama, Masamoto Murakami, Koji Sayama  
The Department of Dermatology, Ehime University Graduate School of Medicine, Ehime, Japan
- P02-12 [O1-34] Aberrant expression of activation-induced cytidine deaminase in the epidermis induces skin cancer**  
○ Kazutoshi Harada<sup>1,2</sup>, Takashi Inozume<sup>2</sup>, Tatsuo Maeda<sup>1</sup>, Shinji Shimada<sup>2</sup>, Ryoji Tsuboi<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Tokyo Medical University, Tokyo, Japan, <sup>2</sup>Department of Dermatology, Faculty of Medicine, University of Yamanashi, Yamanashi, Japan
- P02-13 [O1-35] Regulation of endothelial cell proliferation of infantile hemangioma through mTORC2 and NDRG1 signaling pathways**  
○ Ji Won Byun<sup>1</sup>, Hyo Jin Kim<sup>1</sup>, Seung Dohn Yeom<sup>1</sup>, Heon Joo Park<sup>2</sup>  
<sup>1</sup>Department of Dermatology, Inha University School of Medicine, Incheon, South KOREA, <sup>2</sup>Hypoxia-related Disease Research Center and Department of Microbiology, School of Medicine, Inha University, Incheon, South KOREA
- P02-14 [O1-36] The role of High-mobility group box 1 (HMGB1) in Angiosarcoma**  
○ Takashi Ueda, Masuzawa Mamiko, Yuko Hamada, Noriko Nemoto, Yasuyuki Amoh  
Department of Dermatology, Kitasato University School of Medicine, Kanagawa, Japan
- P02-15 [O1-37] Immunomodulatory effects of classical chemotherapeutic agents for melanoma on M2 macrophages**  
○ Yumi Kambayashi, Taku Fujimura, Aya Kakizaki, Sadanori Furudate, Setsuya Aiba  
The Department of Dermatology, Tohoku University Graduate School of Medicine
- P02-16 [O1-38] Smurfs E3 ubiquitin ligases negatively regulate TGF- $\beta$  signaling in keratinocytes**  
○ Ken Shiraiishi<sup>1</sup>, Masamoto Murakami<sup>1</sup>, Mikiko Tohyama<sup>1</sup>, Xiuju Dai<sup>1</sup>, Takeshi Imamura<sup>2</sup>, Koji Sayama<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Ehime University Graduate School of Medicine, Ehime, Japan, <sup>2</sup>Department of Molecular Medicine for Pathogenesis, Ehime University Graduate School of Medicine, Ehime, Japan
- P02-17 [O1-39] Immunological background of mycosis fungoides develops from inflammatory to steady states.**  
○ Sadanori Furudate, Taku Fujimura, Aya Kakizaki, Setsuya Aiba  
The Department of Dermatology, Tohoku university graduate school of medicine, Sendai, Japan
- P02-18 [O1-40] Sox9 is a  $\beta$ -catenin-regulated transcription factor and enhances colony-forming activity of SCC cells**  
○ Jeung-Hoon Lee, Xue Mei Li, Kyung-Cheol Sohn, Jeong-Min Ha, Myung Im, Young Lee, Young-Joon Seo, Chang Deok Kim  
Department of Dermatology, Chungnam National University, Daejeon, Korea
- P02-19 [O1-41] Analysis of Oncostatin M Signaling in Hemangiosarcoma Cell Line and Regulation of IL-33 Expression**  
○ Hidetoshi Tsuda<sup>1,2,3</sup>, Mayumi Komine<sup>1,2</sup>, Meijuan Jin<sup>1</sup>, Naomi Nakano<sup>1</sup>, Shin-ichi Tominaga<sup>2</sup>, Mikio Masuzawa<sup>3</sup>, Mamitaro Ohtsuki<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Jichi Medical University, Tochigi, Japan, <sup>2</sup>Department of Biochemistry, Jichi Medical University, Tochigi, Japan, <sup>3</sup>Department of Molecular Diagnostics, School of Allied Health Sciences, Kitasato University, Kanagawa, Japan
- P02-20 [O1-42] Roles of Rap2 signaling in cutaneous function**  
○ Kimiko Takei<sup>1,2</sup>, Tsuyoshi Asato<sup>2</sup>, Masato Umikawa<sup>2</sup>, Minoru Oshiro<sup>2</sup>, Ken-ichi Kariya<sup>2</sup>  
<sup>1</sup>Department of Dermatology, Graduate School of Medicine, University of the Ryukyus, Okinawa, Japan, <sup>2</sup>Department of Medical chemistry, Graduate School of Medicine, University of the Ryukyus
- P02-21 [O1-43] Gold nanoparticles induce cell death and inhibit migration of melanoma cells**  
○ Nan-Lin Wu<sup>1</sup>, Po-Hsuan Lu<sup>2</sup>, Hsin-Ju Li<sup>3</sup>, Chia-Chun Wu<sup>4</sup>, Sheng-Fen Wang<sup>5</sup>, Chi-Feng Hung<sup>6</sup>  
<sup>1</sup>Department of Dermatology, Mackay Memorial Hospital, Taipei, Taiwan, <sup>2</sup>Department of Dermatology, Far Eastern Memorial Hospital, Taiwan, <sup>3</sup>Dermatology of Chemistry, Fu Jen Catholic University, New Taipei City, Taiwan, <sup>4</sup>Ph.D. Program in Nutrition and Food Sciences, Fu Jen Catholic University, New Taipei City, Taiwan, <sup>5</sup>Graduate Institute of Basic Medicine, Fu Jen Catholic University, New Taipei City, Taiwan, <sup>6</sup>School of Medicine, Fu Jen Catholic University, New Taipei City, Taiwan

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

- P03-01 [I-2] p38MAPK contributes to loss of cell adhesion through clustering of desmoglein 1 but is not required for blistering in pemphigus foliaceus.**  
○ Kenji Yoshida<sup>1,4</sup>, Ken Ishii<sup>1</sup>, Atsushi Shimizu<sup>1</sup>, Mariko Yokouchi<sup>2</sup>, Masayuki Amagai<sup>2</sup>, John R. Stanley<sup>3</sup>, Akira Ishiko<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, Toho University School of Medicine, Tokyo, Japan, <sup>2</sup>The Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, <sup>3</sup>The Department of Dermatology, University of Pennsylvania, Philadelphia, PA, USA, <sup>4</sup>The Department of Dermatology, Japan Community Health care Organization Tokyo Takanawa Hospital, Tokyo, Japan
- P03-02 [O1-44] IQGAP1 serves a role on erlotinib-related purpuric dermatitis**  
○ Yi-Shuan Sheen<sup>1,2</sup>, Ming-Hsien Lin<sup>3,4</sup>, Tzue-Shuh Jou<sup>3,5</sup>, Chia-Yu Chu<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, National Taiwan University, Taipei, Taiwan, <sup>2</sup>Graduate Institute of Pathology, College of Medicine, National Taiwan University, Taipei, Taiwan, <sup>3</sup>Graduate Institute of Clinical Medicine, College of Medicine, National Taiwan University, Taipei, Taiwan, <sup>4</sup>Department of Surgery, National Taiwan University Hospital Hsin-Chu Branch, Hsin-Chu, Taiwan, <sup>5</sup>Graduate Institute of Molecular Medicine, College of Medicine, National Taiwan University, Taipei, Taiwan

- P03-03**  
**[O1-45]**      **Hyaluronan expression in seborrheic keratosis**  
○ Yukari Fujita, Jun Muto, Daisuke Watanabe  
Department of dermatology, Aichi Medical University, Nagakute, Japan

## Category 4 (P04): Human Clinical Research and Therapeutics

- P04-01**  
**[I-6]**      **IL-10-producing regulatory B cells are decreased in patients with atopic dermatitis and are inversely correlated with disease severity.**  
○ Yuki Yoshihara, Koichi Yanaba, Mitsuha Hayashi, Miki Chiba, Yozo Ishiujii, Takaoki Ishiji, Hidemi Nakagawa  
The Jikei University School of Medicine, Department of Dermatology, Tokyo, Japan
- P04-02**  
**[I-5]**      **A novel small compound that antagonizes TGF- $\beta$ /Smad signaling ameliorates bleomycin-induced skin fibrosis**  
○ Vu H. Luong<sup>1</sup>, Takenao Chino<sup>1</sup>, Atsushi Tokuriki<sup>1</sup>, Noritaka Oyama<sup>1</sup>, Yoko Sasaki<sup>2</sup>, Dai Ogura<sup>2</sup>, Sinichiro Niwa<sup>2</sup>, Mikako Fujita<sup>3</sup>, Yoshinari Okamoto<sup>4</sup>, Masami Otsuka<sup>4</sup>, Hironobu Ihn<sup>5</sup>, Minoru Hasegawa<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Fukui Univ., <sup>2</sup>Link Genomics, Co., Ltd., <sup>3</sup>Center for Drug Discovery, Kumamoto Univ., <sup>4</sup>Department of Bioorganic Medicinal Chemistry, Kumamoto Univ., <sup>5</sup>Department of Dermatology and Plastic Surgery, Kumamoto Univ.
- P04-03**  
**[I-4]**      **Oral cancer treatment by targeted drug delivery system with an anti-desmoglein monoclonal antibody**  
○ Michiyoshi Kouno<sup>1</sup>, Masaki Minabe<sup>2</sup>, Tetsuhiko Tachikawa<sup>3</sup>, John R. Stanley<sup>4</sup>  
<sup>1</sup>Department of Dermatology, Tokyo Dental College Ichikawa General hospital, Chiba, Japan, <sup>2</sup>Department of Oral Medicine, Tokyo Dental College Ichikawa General hospital, Chiba, Japan, <sup>3</sup>Division of Molecular Diagnosis and Cancer Prevention, Saitama Cancer Center, Saitama, Japan, <sup>4</sup>Department of Dermatology, University of Pennsylvania, Philadelphia, PA
- P04-04**  
**[C06-1]**      **Efficacy of the injection of botulinum toxin B on Raynaud's phenomenon in patients with systemic sclerosis: single-blind, randomized trial**  
○ Sei-ichiro Motegi<sup>1</sup>, Kazuya Yamada<sup>1</sup>, Akihito Uehara<sup>1</sup>, Akiko Sekiguchi<sup>1</sup>, Yuki Date<sup>2</sup>, Tetsuya Nakamura<sup>2</sup>, Osamu Ishikawa<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi, Japan, <sup>2</sup>Clinical Investigation and Research Unit, Gunma University Graduate School of Medicine, Maebashi, Japan.
- P04-05**  
**[C11-1]**      **Activated regulatory T cells are increased in patients with alopecia areata for suppressing disease activity.**  
○ Ryoji Kubo, Shinnosuke Muramatsu, Yoko Sagawa, Chiyo Saito, Saori Kasuya, Akiko Nishioka, Emi Nishida, Akimichi Morita  
Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan
- P04-06**  
**[C06-3]**      **Impedance based living cell analysis for clinical diagnosis of type I allergy**  
○ Reiko Irifuku, Yuhki Yanase, Tomoko Kawaguchi, Kaori Ishii, Takaaki Hiragun, Michihiro Hide  
Department of Dermatology, Graduate School of Biomedical and Health Science, Hiroshima University, Hiroshima, Japan
- P04-07**  
**[C06-7]**      **Topical application of vitamin D3 analogue to psoriatic skin preferentially suppresses Th17 cells by both direct and indirect mechanisms**  
○ Toshiharu Fujiyama<sup>1</sup>, Taisuke Ito<sup>1</sup>, Takatsune Umayahara<sup>1</sup>, Kazuki Tatsuno<sup>1</sup>, Shigeki Ikeya<sup>1</sup>, Atsuko Funakoshi<sup>1</sup>, Hideo Hashizume<sup>2</sup>, Yoshiki Tokura<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Hamamatsu University School of Medicine, <sup>2</sup>Shimada Municipal Hospital
- P04-08**  
**[C11-4]**      **Markedly elevated EBV DNA load in plasma predicts the occurrence of HPS in hydroa vacciniforme and hypersensitivity to mosquito bites**  
○ Tomoko Miyake<sup>1,2</sup>, Takenobu Yamamoto<sup>1,3</sup>, Yoji Hirai<sup>1</sup>, Keiji Iwatsuki<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Japan, <sup>2</sup>Department of Dermatology, National Sanatorium Nagashima-Aiseien, <sup>3</sup>Department of Dermatology, Kawasaki medical school
- P04-09**  
**[C06-4]**      **Collagen tripeptide may modulate inflammations of atopic dermatitis**  
○ Amiko Hakuta<sup>1</sup>, Yukie Yamaguchi<sup>1</sup>, Tomoko Okawa<sup>1</sup>, Yasuo Sakai<sup>2</sup>, Shoko Yamamoto<sup>2</sup>, Michiko Aihara<sup>1</sup>  
<sup>1</sup>Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, Yokohama, Japan, <sup>2</sup>Central Research Institute, Jellice Co., Ltd.
- P04-10**  
**[C06-2]**      **Serum soluble TIM-3 levels are increased in patients with diffuse cutaneous systemic sclerosis**  
○ Miki Chiba, Koichi Yanaba, Mitsuha Hayashi, Yuki Yoshihara, Hidemi Nakagawa  
The Department of Dermatology, The Jikei University School of Medicine, Tokyo, Japan
- P04-11**  
**[C11-3]**      **Mast cell activation promotes possible transient hypermelanosis of the perilesional skin in rhododendrol induced-leukoderma**  
○ Aya Takahashi, Fei Yang, Lingli Yang, Noriko Arase, Atsushi Tanemura, Mari Wataya-Kaneda, Ichiro Katayama  
The Department of Dermatology, University of Osaka, Japan

- P04-12 [C06-8] Elongated Silica microparticles for enhanced delivery of tailorable nanoemulsion as a potential platform for transdermal drug delivery**  
○ Miko Yamada<sup>1</sup>, Hossam Tayeb<sup>2</sup>, Hequn Wang<sup>3</sup>, Nhung Dang<sup>1</sup>, Anthony Raphael<sup>3</sup>, Paul J. Belt<sup>4</sup>, Peter H. Soyer<sup>1</sup>, Conor L. Evans<sup>3</sup>, Frank Sainsbury<sup>2</sup>, Tarl Prow<sup>1</sup>  
<sup>1</sup>University of Queensland. School of Medicine, Dermatology Research Centre, Translational Research Institute, Brisbane, <sup>2</sup>Australian Institute for Bioengineering and Nanotechnology, The University of Queensland, Princess Alexandra Hospital, Brisbane, Australia., <sup>3</sup>Wellman Centre for Photomedicine, Massachusetts General Hospital, Harvard Medical School, Boston, USA, <sup>4</sup>Department of Plastic and Reconstructive Surgery and Orthopaedic Surgery, Princess Alexandra Hospital, Brisbane, Australia.
- P04-13 [C06-5] Metabolomic analysis of sweat revealed glucose as a biomarker of atopic dermatitis**  
○ Emi Ono<sup>1</sup>, Hiroyuki Murota<sup>1</sup>, Yuki Mori<sup>2</sup>, Yoshichika Yoshioka<sup>2</sup>, Ichiro Katayama<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, University of Osaka, Osaka, Japan, <sup>2</sup>Biofunctional Imaging Lab. Immunology Frontier Research Center (IFReC), Osaka University, Osaka, Japan
- P04-14 [C11-5] Up-regulation of HHV-6 microRNAs in the serum 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
- P04-15 [C11-6] Impact of therapeutic PD-1 blockade on T cell profile in advanced malignant melanoma: a possible link between PD-1<sup>+</sup>CD4<sup>+</sup> cell and prognosis**  
○ Ryo Takahashi<sup>1</sup>, Yohei Sato<sup>2</sup>, Momoko Kimishima<sup>2</sup>, Tetsuo Shiohara<sup>1,2</sup>, Manabu Ohyama<sup>1,2</sup>  
<sup>1</sup>Flow Cytometry Core Facility, Kyorin University Graduate School of Medicine, Tokyo, Japan, <sup>2</sup>Department of Dermatology, Kyorin University School of Medicine, Tokyo, Japan
- P04-16 [C11-2] Search for early predictive factors for recovery from rapidly-progressive alopecia areata after intravenous corticosteroid pulse therapy**  
○ Yohei Sato<sup>1</sup>, Ryo Takahashi<sup>2</sup>, Momoko Kimishima<sup>1</sup>, Yoshimi Yamazaki<sup>1</sup>, Tetsuo Shiohara<sup>1,2</sup>, Manabu Ohyama<sup>1,2</sup>  
<sup>1</sup>Department of Dermatology, Kyorin University School of Medicine, <sup>2</sup>Flow Cytometry Core Facility, Kyorin University Graduate School of Medicine
- P04-17 [C11-7] Presence of anti-phosphatidylserine-prothrombin complex antibodies and anti-moesin antibodies in patients with polyarteritis nodosa**  
○ Tamihiko Kawakami<sup>1</sup>, Tatsuro Okano<sup>1</sup>, Sora Takeuchi<sup>1</sup>, Yoshinao Soma<sup>1</sup>, Koya Suzuki<sup>2</sup>, Sachiko Tsukita<sup>2</sup>, Akihiro Ishizu<sup>3</sup>, Kazuo Suzuki<sup>4</sup>  
<sup>1</sup>Department of Dermatology, St. Marianna University School of Medicine, Kawasaki, Japan, <sup>2</sup>Laboratory of Biological Science and Laboratory of Biosciences, Graduate School of Frontier Biosciences, Osaka University, Osaka, Japan, <sup>3</sup>Department of Pathology/Pathophysiology, Division of Pathophysiological Science, Hokkaido University Graduate School of Medicine, Sapporo, Japan, <sup>4</sup>Department of Health Protection, Graduate School of Medicine, Teikyo University Asia International Institute of Infectious Disease Control, Japan
- P04-18 [O2-01] CCR9 expression levels in psoriatic skin negatively correlates with clinical outcome to infliximab.**  
○ Ikko Kajihara, Aiko Koga, Saori Yamada, Satoshi Fukushima, Masatoshi Jinnin, Hironobu Ihn  
Department of Dermatology and Plastic Surgery, Kumamoto University, Kumamoto, Japan
- P04-19 [O2-02] Topical N-acetylcysteine can restore skin barrier function in healthy volunteers and atopic dermatitis patients**  
○ Koza Nakai, Ayako Nishiura, Emiko Ishikawa, Junko Moriue, Tetsuya Moriue, Yasuo Kubota  
Department of Dermatology, Kagawa University, Kagawa, Japan
- P04-20 [O2-03] Withdrawn**
- P04-21 [O2-04] The characteristics of patients with persistent HHV-6 infection after drug-induced hypersensitivity syndrome (DIHS)**  
○ Yuki Nakamura, Kazuya Miyashita, Rie Onmori, Fumi Miyagawa, Hiroaki Azukizawa, Hideo Asada  
The Department of Dermatology, Nara Medical University School of Medicine, Nara, Japan
- P04-22 [O2-05] Higher frequency of sensitive skin in extrinsic type of atopic dermatitis than intrinsic type as assessed by lactic acid stinging test**  
○ Tsuyoshi Yatagai<sup>1</sup>, Hayato Yamaguchi<sup>2</sup>, Masahiro Aoshima<sup>1</sup>, Shigeki Ikeya<sup>1</sup>, Kazuki Tatsuno<sup>1</sup>, Takatoshi Shimauchi<sup>1</sup>, Toshiharu Fujiyama<sup>1</sup>, Taisuke Ito<sup>1</sup>, Yoshiki Tokura<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, Japan, <sup>2</sup>Department of Dermatology, Self-Defense Forces Central Hospital, Tokyo, Japan
- P04-23 [O2-06] Long-term sequelae of DRESS and SJS/TEN: a prospective comparative study**  
○ Che-Wen Yang, Chia-Yu Chu  
The Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, Taiwan

- P04-24 [C06-6] Effect of dupilumab on Eczema Area Severity Index by body region in patients with moderate-to-severe atopic dermatitis in a phase 2b study**  
 ○ Thomas Bieber<sup>1</sup>, Makoto Kawashima<sup>2</sup>, Eric L. Simpson<sup>3</sup>, Kazuhiko Arima<sup>4</sup>, Aki Kuroki<sup>4</sup>, Toshio Kimura<sup>5</sup>, Marius Ardeleanu<sup>6</sup>  
<sup>1</sup>University of Bonn, Bonn, Germany, <sup>2</sup>Tokyo Women's Medical University, Tokyo, Japan, <sup>3</sup>Oregon Health and Science University, Portland, Oregon, United States, <sup>4</sup>Sanofi K.K., Tokyo, Japan, <sup>5</sup>Regeneron Pharmaceuticals, Inc., Basking Ridge, New Jersey, United States, <sup>6</sup>Regeneron Pharmaceuticals, Inc., Tarrytown, New York, United States
- P04-25 [O2-07] Skin manifestations in patients with immunodeficiency due to anti-interferon-gamma autoantibody.**  
 ○ Pawinee Rerknimitr<sup>1</sup>, Prattana Sittiwattanawong<sup>1</sup>, Jettanong Kleawsongkram<sup>2</sup>, Kamonwan Jutiworakul<sup>3</sup>  
<sup>1</sup>Division of Dermatology, Department of Medicine, Faculty of Medicine, Chulalongkorn University, <sup>2</sup>Division of Clinical Immunology, Department of Medicine, Faculty of Medicine, Chulalongkorn University, <sup>3</sup>Division of Infectious Disease, Department of Medicine, Faculty of Medicine, Chulalongkorn University
- P04-26 [O2-08] The assessment of vascularity in subcutaneous tumors by ultrasonography**  
 ○ Chinatsu Shobatake<sup>1</sup>, Toshiko Hirai<sup>2</sup>, Kohei Ogawa<sup>1</sup>, Fumi Miyagawa<sup>1</sup>, Hiroaki Azukizawa<sup>1</sup>, Hideo Asada<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Nara Medical University, Japan, <sup>2</sup>Department of General Diagnostic Imaging, Nara Medical University, Japan
- P04-27 [O2-09] Comparative analysis of the lesion and non-lesion of both pellagra and biotin deficiency model mice.**  
 ○ Sayaka Yamaguchi<sup>1</sup>, Atsushi Utani<sup>2</sup>, Kenzo Takahashi<sup>1</sup>  
<sup>1</sup>Department of Dermatology, University of the Ryukyus, Okinawa, Japan, <sup>2</sup>Department of Dermatology, Nagasaki University, Nagasaki, Japan
- P04-28 [O2-10] Herpes zoster as a risk factor for osteoporosis**  
 Ying Yi Lu<sup>1,2</sup>, Chun Ching Lu<sup>3</sup>, ○ Chieh Hsin Wu<sup>2,4</sup>  
<sup>1</sup>Department of Dermatology, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan, <sup>2</sup>Graduate Institute Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan, <sup>3</sup>Department of Orthopedics, Taipei Veterans General Hospital, Taipei, Taiwan, <sup>4</sup>Division of Neurosurgery, Department of Surgery, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung, Taiwan
- P04-29 [O2-11] C-reactive protein and serum amyloid A levels are objective parameters for psoriasis arthritis in Japanese patients.**  
 ○ Emi Nishida, Kyoko Ikumi, Shinnosuke Muramatsu, Ryoji Kubo, Akimichi Morita  
 Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences
- P04-30 [O2-12] The effect of topical tacrolimus on the treatment of acquired perforating dermatosis.**  
 ○ Manao Kinoshita, Youichi Ogawa, Tatsuyoshi Kawamura, Shinji Shimada  
 Departments of Dermatology, Faculty of Medicine, University of Yamanashi, Yamanashi, Japan
- P04-31 [O2-13] Cocoa flavanol supplementation improves photoaged skin in women: a 24-week double-blind, randomized, controlled trial**  
 ○ Hyun-Sun Yoon<sup>1,2</sup>, Gyeong Yul Park<sup>1,2</sup>, Dong Hun Lee<sup>2</sup>, Jin Ho Chung<sup>2</sup>  
<sup>1</sup>Department of Dermatology, Seoul National University Boramae Hospital, Seoul, Korea, <sup>2</sup>Department of Dermatology, Seoul National University College of Medicine, Seoul, Korea
- P04-32 [O2-14] Characteristics of microbial flora of scalp lesion on atopic dermatitis**  
 ○ Yukiko Sumimura, Hiroyuki Murota, Ichiro Katayama  
 The Department of Dermatology, University of Osaka, Osaka, Japan
- P04-33 [O2-15] HLA-B\*46 associates with psoriasis susceptibility**  
 ○ Kyoko Ikumi<sup>1</sup>, Shigeto Kobayashi<sup>2</sup>, Naoto Tamura<sup>3</sup>, Hisashi Inoue<sup>4</sup>, Emi Nishida<sup>1</sup>, Akimichi Morita<sup>1</sup>  
<sup>1</sup>Department of Geriatric and Environmental Dermatology, Nagoya City University, Nagoya, Aichi, Japan, <sup>2</sup>Department of Rheumatology, Juntendo Koshigaya Hospital, Saitama, Japan, <sup>3</sup>Department of Rheumatology, Juntendo University, Tokyo, Japan, <sup>4</sup>Department of Orthopedic Surgery, Juntendo University, Tokyo, Japan
- P04-34 [O2-16] A close correlation of bone mineral density and body mass index in Japanese psoriasis patients**  
 ○ Takashi Shibuya<sup>1</sup>, Shin Inuma<sup>1</sup>, Nao Saito<sup>1</sup>, Mari Kishibe<sup>1</sup>, Hidetoshi Takahashi<sup>2</sup>, Masaru Honma<sup>1</sup>, Akemi Ishida-Yamamoto<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Asahikawa Medical University, Asahikawa, Japan, <sup>2</sup>Obihiro City
- P04-35 [O2-17] Patient disease activity of moderate-to-severe atopic dermatitis in a phase 2b trial: comparison between Japanese and overall population**  
 ○ Makoto Kawashima<sup>1</sup>, Atsuyuki Igarashi<sup>2</sup>, Takafumi Etoh<sup>3</sup>, Mamitaro Ohtsuki<sup>4</sup>, Kazuhiko Arima<sup>5</sup>, Aki Kuroki<sup>5</sup>, Toshio Kimura<sup>6</sup>, Marius Ardeleanu<sup>7</sup>  
<sup>1</sup>Tokyo Women's Medical University, Tokyo, Japan, <sup>2</sup>NTT Medical Center, Tokyo, Japan, <sup>3</sup>Tokyo Postal Services Agency Hospital, Tokyo, Japan, <sup>4</sup>Jichi Medical University, Tochigi, Japan, <sup>5</sup>Sanofi K.K., Tokyo, Japan, <sup>6</sup>Regeneron Pharmaceuticals, Inc., Basking Ridge, New Jersey, United States, <sup>7</sup>Regeneron Pharmaceuticals, Inc., Tarrytown, New York, United States

- P04-36 [O2-18] Deep cutaneous fungal infection in tropical regions: a retrospective study from a referral center in southern Taiwan**  
○ Wen-chien Tsai, Kwei-lan Liu, Chih-Hung Lee  
The Department of Dermatology, Kaohsiung Chang Gung Memorial Hospital and Chang Gung University College of Medicine, Kaohsiung, Taiwan
- P04-37 [O2-19] The classification of atopic dermatitis patients using machine learning method, based on the therapeutic outcome for the proactive treatment**  
○ Hiroshi Kawasaki<sup>1,2</sup>, Hiroko Kasai<sup>3</sup>, Takaho A Endo<sup>4</sup>, Koichi Ashizaki<sup>5</sup>, Fumiyo Yasuda<sup>1</sup>, Masayuki Amagai<sup>1,2</sup>, Tamotsu Ebihara<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, <sup>2</sup>Laboratory for Skin Homeostasis, IMS-RCAI RIKEN, <sup>3</sup>Department of Dermatology, Keiyu Hospital, <sup>4</sup>Integrative genomics group, IMS-RCAI RIKEN, <sup>5</sup>Laboratory for Disease Systems Modeling, IMS-RCAI RIKEN
- P04-38 [O2-20] Assessment of serum biomarkers in patients with plaque psoriasis after switching from cyclosporine A to secukinumab (Ph4 study)**  
○ Hiroyuki Fujita<sup>1</sup>, Ayako Fujishige<sup>1</sup>, Masako Yamaguchi<sup>1</sup>, Mamitaro Ohtsuki<sup>2</sup>, Akimichi Morita<sup>3</sup>, Yumiko Tani<sup>1</sup>, The JP01 Study group  
<sup>1</sup>Novartis Pharma K.K., <sup>2</sup>Jichi Medical University, <sup>3</sup>Nagoya City University
- P04-39 [O2-21] Histopathological and polymerase chain reaction-based analyses of Buruli ulcer caused by *Mycobacterium ulcerans* subspecies *shinshuense***  
○ Toshifumi Takahashi, Noriki Fujimoto, Miho Kabuto, Takeshi Kato, Takeshi Nakanishi, Toshihiro Tanaka  
The Department of Dermatology, Shiga University of Medical Science, Shiga, Japan
- P04-40 [O2-22] The clinical effect of combinations of hydroquinone and glycolic acid for the treatment of melasma and solar lentigo in Asians**  
○ Chikako Kaminaka<sup>1,2</sup>, Hiroshi Matsunaka<sup>1</sup>, Fukumi Furukawa<sup>1</sup>, Yuki Yamamoto<sup>1,2</sup>  
<sup>1</sup>Departments of Dermatology, Wakayama Medical University, <sup>2</sup>Departments of Cosmetic Dermatology and Photomedicine, Wakayama Medical University
- P04-41 [O2-23] Influence of therapeutic intervention by anti-TNF agents on serum levels of KL-6, SP-D, and ADAM17 in patients with psoriasis**  
○ Mitsuha Hayashi, Koichi Yanaba, Yoshinori Umezawa, Akihiko Asahina, Hidemi Nakagawa  
Department of Dermatology, The Jikei University School of Medicine, Tokyo, Japan

## Category 5 (P05): Epidermal Structure and Function

- P05-01 [II-6] Real time 3D in vivo pH imaging of stratum corneum revealed complex morphology-based regulation in mice**  
○ Yuki Furuichi<sup>1,2</sup>, Takeshi Matsui<sup>2</sup>, Masayuki Amagai<sup>1,2</sup>  
<sup>1</sup>Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, <sup>2</sup>Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, Kanagawa, Japan
- P05-02 [II-5] Essential role of epithelial TRAF6 in the determination of Th17 polarization**  
○ Reiko Matsumoto, Teruki Dainichi, Kenji Sakurai, Takashi Nomura, Kenji Kabashima  
Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan
- P05-03 [C02-2] Basophils require interaction with CD49b(+)/c-kit(+) cells through L-selectin for induction of IgE-mediated chronic allergic inflammation**  
○ Takahiro Ishikawa<sup>1</sup>, Takahiro Satoh<sup>1</sup>, Kazumi Saeki<sup>2</sup>, Hiroo Yokozeki<sup>2</sup>  
<sup>1</sup>Department of Dermatology, National Defense Medical College, <sup>2</sup>Department of Dermatology, Graduate School, Tokyo Medical and Dental University
- P05-04 [C07-4] Image-Based Transcription Factor siRNA Screen Reveals Novel Regulators of Epidermal Differentiation**  
○ Jeffrey B. Cheng<sup>1</sup>, Paymann Harirchian<sup>1</sup>, John Greer<sup>2</sup>, Maddy Parsons<sup>3</sup>, Laura M. Heiser<sup>4</sup>, Thea Mauro<sup>1</sup>, Raymond J. Cho<sup>1</sup>  
<sup>1</sup>Department of Dermatology, University of California, San Francisco, San Francisco, California, USA, <sup>2</sup>Department of Medicine, University of California, San Francisco, San Francisco, California, USA, <sup>3</sup>Randall Division of Cell and Molecular Biophysics, King's College London, London, UK, <sup>4</sup>Department of Biomedical Engineering, Oregon Health and Science University, Portland, Oregon, USA
- P05-05 [C02-5] Permeability barrier function in STAT6-deficient mice is superior to that in wild-type mice**  
○ Wei Zhang, Takashi Sakai, Haruna Matsuda-Hirose, Yutaka Hatano  
Department of Dermatology, Faculty of Medicine, Oita University, Yufu, Japan
- P05-06 [C07-1] ER stress and S1P orchestrate a novel stress-specific signals to stimulate cathelicidin antimicrobial peptide production**  
Kyungho Park<sup>1</sup>, Hiroko Ikushiro<sup>2</sup>, Ho Seong Seo<sup>3</sup>, Kyong-Oh Shin<sup>4</sup>, Young il Kim<sup>1</sup>, Yong-Moon Lee<sup>1,4</sup>, Takato Yano<sup>2</sup>, Walter M. Holleran<sup>1</sup>, Peter M. Elias<sup>1</sup>, ○Yoshikazu Uchida<sup>1</sup>  
<sup>1</sup>Dept. of Dermatology, Univ. of California, San Francisco, San Francisco, USA, <sup>2</sup>Dept. of Biochemistry, Osaka Med. College, Takatsuki, Osaka, Japan, <sup>3</sup>Korea Atomic Energy Res. Inst. Jeongju, Korea, <sup>4</sup>Chungbuk Natl. Univ., Cheongju, Korea

- P05-07 [C02-3] Galectin-7 is extracellularly released from epidermal keratinocytes in atopic dermatitis and serves as immunomodulator of Langerhans cells**  
 ○ Takatsune Umayahara, Jun-ichi Sakabe, Takatoshi Shimauchi, Yoshiki Tokura  
 The Department of Dermatology, Hamamatsu University School of Medicine, Shizuoka, Japan
- P05-08 [C07-2] Heparinoid facilitates functional expression of extracellular syntaxin-4 on keratinocyte cornification**  
 ○ Nanako Kadono<sup>1,2</sup>, Tomoatsu Horigome<sup>1</sup>, Hiroko Yano<sup>3</sup>, Ayumi Nakashima<sup>3</sup>, Yohei Hirai<sup>1</sup>  
<sup>1</sup>The Department of Bioscience, Science and Technology, Kwansei Gakuin University, Hyogo, Japan, <sup>2</sup>Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Science, Kanagawa, Japan, <sup>3</sup>Kobayashi Pharmaceutical Co., Ltd., Osaka, Japan
- P05-09 [C02-4] Compound heterozygotes for filaggrin gene mutations do not always show severe atopic dermatitis**  
 ○ Atsuko Sekiya<sup>1</sup>, Michihiro Kono<sup>1</sup>, Hiromi Tsujuchi<sup>1</sup>, Tomoko Kobayashi<sup>1</sup>, Toshifumi Nomura<sup>2</sup>, Maki Kitagawa<sup>3</sup>, Noriyuki Suzuki<sup>4</sup>, Keiichi Yamanaka<sup>5</sup>, Hirohiko Sueki<sup>3</sup>, W. H. Irwin McLean<sup>6</sup>, Hiroshi Shimizu<sup>2</sup>, Masashi Akiyama<sup>1</sup>  
<sup>1</sup>Departments of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, <sup>2</sup>Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, <sup>3</sup>Department of Dermatology, Showa University School of Medicine, Tokyo, Japan, <sup>4</sup>Department of Dermatology, Toyohashi Municipal Hospital, Toyohashi, Japan, <sup>5</sup>Department of Dermatology, Mie University School of Medicine, Tsu, Japan, <sup>6</sup>Centre for Dermatology and Genetic Medicine, College of Life Sciences and College of Medicine, Dentistry & Nursing, University of Dundee, Dundee, UK
- P05-10 [C02-1] Three dimensional ultrastructural analysis of lamellar granule in stratum granulosum by focused ion beam scanning electron microscopy.**  
 ○ Haruyo Yamanishi<sup>1</sup>, Tsutomu Soma<sup>1</sup>, Akemi Ishida-Yamamoto<sup>2</sup>, Toshihiko Hibino<sup>1</sup>  
<sup>1</sup>Shiseido Global Innovation Center, Yokohama, Japan, <sup>2</sup>Department of Dermatology, Asahikawa Medical University, Asahikawa, Japan
- P05-11 [C07-3] The Precise Structures and Stereochemistry of Trihydroxy-Linoleates Esterified in Human and Porcine Epidermis**  
 ○ Takahito Chiba<sup>1</sup>, Alan R. Brash<sup>2</sup>, Masutaka Furue<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Kyushu University School of Medicine, <sup>2</sup>Departments of Pharmacology, Vanderbilt University School of Medicine
- P05-12 [O2-24] Characterization of simple intercellular lipid model of atopic dermatitis stratum corneum containing sphingosine and sphinganine**  
 ○ Yasuko Obata<sup>1</sup>, Hiromu Sano<sup>1</sup>, Noboru Ohta<sup>2</sup>, Taro Moriwaki<sup>2</sup>, Kenya Ishida<sup>3</sup>, Yoshikazu Uchida<sup>4</sup>, Kozo Takayama<sup>1</sup>  
<sup>1</sup>Department of Pharmaceutics, Hoshi University, Tokyo, Japan, <sup>2</sup>Spring-8/JASRI, <sup>3</sup>Takasago International Corporation, <sup>4</sup>UCSF School of Medicine
- P05-13 [O2-25] An underling mechanism of the sensitive skin development initiated by oxidative stress**  
 ○ Yukiko Izutsu<sup>1</sup>, Misaki Hirayama<sup>2</sup>, Yumiko Yamawaki<sup>2</sup>, Shoichi Yahagi<sup>1</sup>, Hitoshi Masaki<sup>2</sup>  
<sup>1</sup>NIKKOL GROUP COSMOS TECHNICAL CENTER CO., LTD, <sup>2</sup>Tokyo University of Technology, School of Bionics
- P05-14 [O2-26] Propionibacterium acnes may modify the barrier properties of the skin**  
 ○ Beata Sz. Bolla<sup>1</sup>, Lilla Erdei<sup>1</sup>, Gabor Tax<sup>1</sup>, Edit Urban<sup>2</sup>, Lajos Kemeny<sup>1,3</sup>, Kornelia Szabo<sup>3</sup>  
<sup>1</sup>Department of Dermatology and Allergology, University of Szeged, Hungary, <sup>2</sup>Institute of Clinical Microbiology, University of Szeged, Hungary, <sup>3</sup>MTA-SZTE Dermatological Research Group, Szeged, Hungary
- P05-15 [O2-27] The expression of serine protease inhibitors in epidermal keratinocytes is increased by calcium, but not 1,25(OH)<sub>2</sub> vitamin D<sub>3</sub> or retinoic acid**  
 ○ Mina Kobashi, Shin Morizane, Saeko Sugimoto, Satoru Sugihara, Keiji Iwatsuki  
 The Department of Dermatology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences
- P05-16[SE] [O2-28] Characterization of non-hemidesmosomal collagen XVII in basal keratinocytes**  
 ○ Ken Natsuga, Mika Watanabe, Wataru Nishie, Hiroshi Shimizu  
 Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan
- P05-17 [O2-29] Different therapeutic effects between topical corticosteroid and tacrolimus application on pruritus in atopic dermatitis**  
 ○ Atsushi Noguchi<sup>1</sup>, Mitsutoshi Tominaga<sup>2</sup>, Kyi Chan Ko<sup>2</sup>, Hironori Matsuda<sup>2</sup>, Yasushi Suga<sup>1</sup>, Hideoki Ogawa<sup>2</sup>, Kenji Takamori<sup>1,2</sup>  
<sup>1</sup>Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan, <sup>2</sup>Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine
- P05-18 [O2-30] Disrupted constitution of stratum corneum intercellular lipids contribute to barrier disruption in glycosylated epidermis**  
 ○ Mami Yokota<sup>1</sup>, Hitoshi Masaki<sup>2</sup>, Yoshihiro Tokudome<sup>1</sup>  
<sup>1</sup>Laboratory of Dermatological Physiology, Faculty of Pharmaceutical Sciences, Josai University, Saitama, Japan, <sup>2</sup>School of Bioscience and Biotechnology, Tokyo University of Technology, Tokyo, Japan
- P05-19 [O2-31] Maackia amurensis seed lectin can suppress IL-22-induced hyperproliferative reconstituted epidermis**  
 ○ Masaru Honma, Takashi Shibuya, Mizue Fujii, Shin Iinuma, Nao Saito, Mari Kishibe, Akemi Ishida-Yamamoto  
 The Department of Dermatology, Asahikawa Medical University

- P05-20 [O2-32] Roles of intracellular carbonylated protein and oxidized protein hydrolase on reconstruction of basement membrane**  
○ Ryota Mori<sup>1</sup>, Masamichi Ishigami<sup>1</sup>, Masanori Okada<sup>1</sup>, Hitoshi Masaki<sup>2</sup>  
<sup>1</sup>R&D Laboratory, Septem Soken Co., Ltd., Kanagawa, Japan, <sup>2</sup>School of Bioscience and Biotechnology, Tokyo University of Technology, Tokyo, Japan
- P05-21 [O2-33] The recovery rate of skin temperature after cold stress but not blood flow in a resting state is related to dry skin conditions**  
○ Yasuko Amano<sup>3</sup>, Tomoko Nomura<sup>2</sup>, Yoshinori Sugiyama<sup>1</sup>, Kayoko Iwata<sup>3</sup>, Yuko Higaki<sup>4</sup>, Masanori Tanahashi<sup>1</sup>  
<sup>1</sup>Health Beauty Products, Kao Corporation, Tokyo, Japan, <sup>2</sup>Biological Science Laboratory, Kao Corporation, Tochigi, Japan, <sup>3</sup>Lifestyle Research Center, Kao Corporation, Tokyo, Japan, <sup>4</sup>Institute of Women's Health, Tokyo Women's Medical University, Tokyo, Japan
- P05-22 [O2-34] Relationships between transepidermal water Loss, cutaneous microcirculatory function and autonomic nerve activity**  
○ Tomoko Nomura<sup>1</sup>, Yasuko Amano<sup>2</sup>, Kenichiro Yoshida<sup>2</sup>, Akihiko Fujii<sup>1</sup>, Masanori Tanahashi<sup>2</sup>, Yoshinori Sugiyama<sup>2</sup>, Kayoko Iwata<sup>3</sup>, Takatoshi Murase<sup>1</sup>  
<sup>1</sup>Biological Science Laboratory, Kao Corporation, Tochigi, Japan, <sup>2</sup>Health Beauty Products, Kao Corporation, Tokyo, Japan, <sup>3</sup>Lifestyle Research Center, Kao Corporation, Tokyo, Japan
- P05-23 [O2-35] High glucose activates claudin-1 and filaggrin expression: possible mechanism of the anti-inflammatory effect by repairing the skin barrier**  
○ Kiyoko Yamada  
The Department of Dermatology, Kagoshima University Graduate School of Medicine and Dental Science
- P05-24 [O2-36] Minimally-Invasive Transepidermal Potentiometry with Microneedle Salt Bridge for Evaluation of The Skin Barrier Repair**  
○ Yuina Abe<sup>1</sup>, Kuniaki Nagamine<sup>1</sup>, Mayu Nakabayashi<sup>1</sup>, Hiroyuki Kai<sup>1</sup>, Takeshi Yamauchi<sup>2</sup>, Kenshi Yamasaki<sup>2</sup>, Matsuhiko Nishizawa<sup>1</sup>  
<sup>1</sup>School of Engineering, Tohoku University, Sendai, Japan, <sup>2</sup>School of Medicine, Tohoku University, Sendai, Japan
- P05-25 [O2-37] Protective Effect of Moisturizers on Photoaging**  
○ Seung Phil Hong<sup>1</sup>, Sung Jay Choe<sup>2</sup>, Jiyeon Yoo<sup>1,2</sup>, Eun Mi Jin<sup>1</sup>, Hee Seok Seo<sup>1</sup>, Sung-Ku Ahn<sup>2</sup>  
<sup>1</sup>Department of Dermatology, Dankook University College of Medicine, Cheonan, South Korea, <sup>2</sup>Department of Dermatology, Yonsei University Wonju College of Medicine, Wonju, South Korea
- P05-26 [O2-38] Protective effects of distilled extracts from *Alpinia intermedia* Gagnep on skin conditions of NC/Tnd mice**  
○ Yosuke Amagai<sup>1,2</sup>, Tetsuyoshi Hamasaki<sup>1</sup>, Yoshihiro Nomura<sup>1</sup>, Hiroshi Matsuda<sup>1</sup>, Akane Tanaka<sup>1</sup>  
<sup>1</sup>Tokyo University of Agriculture and Technology, <sup>2</sup>Research Fellow of the Japan Society for the Promotion of Science, <sup>3</sup>GRAY ART, Co., Ltd.

## Category 6 (P06): Epidemiology/Health Service Research

- P06-01 [O2-39] Evaluation of the clinical characteristics of pruritus in patients with psoriasis using the Japanese version of the 5-D itch scale**  
○ Yoza Ishiiji<sup>1</sup>, Yoshinori Umezawa<sup>1</sup>, Norie Aizawa<sup>1</sup>, Sanae Inokuchi<sup>1</sup>, Akihiko Asahina<sup>1</sup>, Koichi Yanaba<sup>1</sup>, Toshiya Ebata<sup>2</sup>, Hidemi Nakagawa<sup>1</sup>  
<sup>1</sup>Department of Dermatology, The Jikei University School of Medicine, Tokyo, Japan, <sup>2</sup>Department of Dermatology, Chitofuna Dermatology Clinic, Tokyo, Japan
- P06-02 [O2-40] Quality of Life in Adult Patients with Atopic Dermatitis at Dermatology Hospital of Ho Chi Minh City**  
○ Trinh Ngo Binh  
The Department of Dermatology Hospital at Ho Chi Minh City
- P06-03 [O2-41] Barriers to Human Papillomavirus (HPV) vaccine uptake in Asia: a pilot study**  
○ Mingjuan Tan, T Thirumoorthy  
Duke-NUS Medical School, Singapore

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

- P07-01 [III-2] Gentamicin-induced restoration of SERPINB7 by readthrough of a prevalent nonsense mutation c.796C>T in Nagashima-type palmoplantar keratosis**  
○ Yuka Ohguchi<sup>1</sup>, Toshifumi Nomura<sup>1</sup>, Shotaro Suzuki<sup>1</sup>, Masae Takeda<sup>1</sup>, Toshinari Miyauchi<sup>1</sup>, Osamu Mizuno<sup>1</sup>, Satoru Shinkuma<sup>1</sup>, Yasuyuki Fujita<sup>1</sup>, Kota Ono<sup>2</sup>, W. H. Irwin McLean<sup>3</sup>, Hiroshi Shimizu<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, <sup>2</sup>Department of Biostatistics, Hokkaido University Graduate School of Medicine, Sapporo, Japan, <sup>3</sup>Dermatology and Genetic Medicine, Colleges of Life Sciences and Medicine, Dentistry and Nursing, University of Dundee, Dundee, UK



- P07-02 [C08-2] Mutations in SDR9C7 gene encoding an enzyme for vitamin A metabolism underlie autosomal recessive congenital ichthyosis**  
 ○ Yohya Shigehara<sup>1</sup>, Shujiro Okuda<sup>2</sup>, Georges Nemer<sup>3</sup>, Adele Chedraoui<sup>4</sup>, Ryota Hayashi<sup>1</sup>, Fadi Bitar<sup>5</sup>, Hiroyuki Nakai<sup>6</sup>, Ossama Abbas<sup>7</sup>, Laetitia Daou<sup>8</sup>, Riichiro Abe<sup>1</sup>, Maria Bou Sleiman<sup>7</sup>, Abdul Ghani Kibbi<sup>7</sup>, Mazen Kurban<sup>3,7,9</sup>, Yutaka Shimomura<sup>1</sup>  
<sup>1</sup>Divisions of Dermatology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, <sup>2</sup>Bioinformatics, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, <sup>3</sup>Biochemistry & molecular genetics, American University of Beirut Medical Center, Beirut, Lebanon, <sup>4</sup>Department of Dermatology, Lebanese American University-Hospital Rizk, Beirut Lebanon, <sup>5</sup>Department of Pediatrics, American University of Beirut Medical Center, Beirut, Lebanon, <sup>6</sup>Faculty of Agriculture, Niigata University, Niigata, Japan, <sup>7</sup>Department of Dermatology, American University of Beirut Medical Center, Beirut, Lebanon, <sup>8</sup>Department of Laboratory medicine, American University of Beirut Medical Center, Beirut, Lebanon, <sup>9</sup>Department of Dermatology, Columbia University, New York, U.S.A.
- P07-03 [C08-3] The type2 sarco/endoplasmic reticulum Ca<sup>2+</sup>-ATPase is required for TIP39 induced-long term differentiation of keratinocyte**  
 ○ Emi Sato<sup>1</sup>, Michael R Williams<sup>1</sup>, James A Sanford<sup>1</sup>, Takekuni Nakama<sup>2</sup>, Shinichi Imafuku<sup>3</sup>, Richard L. Gallo<sup>1</sup>  
<sup>1</sup>Department of Dermatology, University of California, San Diego, <sup>2</sup>Department of Dermatology, Kurume University, Fukuoka, Japan, <sup>3</sup>Department of Dermatology, Fukuoka University, Fukuoka, Japan
- P07-04 [C08-1] Clinical associations in PRP with underlying CARD14 mutations**  
 ○ Takuya Takeichi<sup>1,2</sup>, Kazumitsu Sugiura<sup>3</sup>, Toshifumi Nomura<sup>4</sup>, Taiko Sakamoto<sup>5</sup>, Yasushi Ogawa<sup>1</sup>, Yasushi Suga<sup>6</sup>, Hiroshi Shimizu<sup>4</sup>, John A. McGrath<sup>7</sup>, Masashi Akiyama<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, <sup>2</sup>St Johns Institute of Dermatology, Kings College London, Guys Hospital, London, UK, <sup>3</sup>Department of Dermatology, Fujita Health University School of Medicine, Toyoake, Japan, <sup>4</sup>Department of Dermatology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, <sup>5</sup>Sakamoto Clinic, Fujieda, Japan, <sup>6</sup>Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu, Japan
- P07-05 [O2-43] The Efficacy of rapamycin against the neuropathic pain for Fabry disease**  
 ○ Yang Pan, Mari Wataya-Kaneda, Ichiro Katayama  
 Department of Dermatology, Graduate school of medicine, Osaka University, Suita, Osaka, Japan
- P07-06 [O2-44] A founder deletion of corneodesmosin gene (CDSN) is prevalent in Japanese patients with peeling skin disease: identification of 2 new cases**  
 ○ Kwesi Teye<sup>1</sup>, Yasushi Suga<sup>2</sup>, Sanae Numata<sup>1</sup>, Mikiko Soejima<sup>3</sup>, Norito Ishii<sup>4</sup>, Rafal\_P Krol<sup>1</sup>, Chika Ohata<sup>4</sup>, Mitsuhiro Matsuda<sup>4</sup>, Masaru Honma<sup>5</sup>, Akemi Ishida-Yamamoto<sup>5</sup>, Takahiro Hamada<sup>4</sup>, Yoshiro Koda<sup>3</sup>, Takashi Hashimoto<sup>1</sup>  
<sup>1</sup>Kurume University Institute of Cutaneous Cell Biology, <sup>2</sup>Department of Dermatology, Juntendo University Urayasu Hospital, Urayasu, Chiba, Japan, <sup>3</sup>Department of Forensic Medicine and Human Genetics, Kurume University School of Medicine, Kurume, Fukuoka, Japan, <sup>4</sup>Department of Dermatology, Kurume University School of Medicine, Kurume, Fukuoka, Japan, <sup>5</sup>Department of Dermatology, Asahikawa Medical University, Asahikawa, Japan
- P07-07 [O2-45] Behavior of melanocytes and keratinocytes in reticulate acropigmentation of Kitamura**  
 ○ Ken Okamura, Yuko Abe, Yuta Araki, Yutaka Hozumi, Masakazu Kawaguchi, Tamio Suzuki  
 Department of Dermatology, Yamagata University Faculty of Medicine, Yamagata, Japan
- P07-08 [O2-46] A mild case of Cockayne syndrome**  
 ○ Mariko Tsujimoto<sup>1</sup>, Eiji Nakano<sup>1</sup>, Taro Masaki<sup>1</sup>, Fumio Kanda<sup>2,3</sup>, Yuka Nakazawa<sup>4,5</sup>, Tomoo Ogi<sup>4,5</sup>, Chikako Nishigori<sup>1</sup>  
<sup>1</sup>Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe, Japan, <sup>2</sup>Division of Neurology, Kobe University Graduate School of Medicine, Kobe, Japan, <sup>3</sup>Integrated Clinical Education Center, Kobe University Hospital, Kobe, Japan, <sup>4</sup>Nagasaki University Research Center for Genomic Instability and Carcinogenesis, Nagasaki, Japan, <sup>5</sup>Department of Genetics, Research Institute of Environment of Medicine, Nagoya University, Nagoya, Japan

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

- P08-01 [III-6] A new animal model of systemic sclerosis exhibits delayed wound healing due to accelerated angiogenesis and defective vasculogenesis.**  
 ○ Kouki Nakamura<sup>1</sup>, Yoshihide Asano<sup>1</sup>, Takuya Miyagawa<sup>1</sup>, Megumi Hirabayashi<sup>1</sup>, Takashi Yamashita<sup>1</sup>, Ryosuke Saigusa<sup>1</sup>, Shunsuke Miura<sup>1</sup>, Tetsuo Toyama<sup>1,2</sup>, Takehiro Takahashi<sup>1</sup>, Yohei Ichimura<sup>1</sup>, Takashi Taniguchi<sup>1</sup>, Ayumi Yoshizaki<sup>1</sup>, Maria Trojanowska<sup>2</sup>, Shinichi Sato<sup>1</sup>  
<sup>1</sup>Department of Dermatology, University of Tokyo Graduate School of Medicine, Tokyo, Japan., <sup>2</sup>Arthritis Center, Boston University School of Medicine, Boston, MA, USA.
- P08-02 Withdrawn**
- P08-03 [C03-1] Hair follicle aging is driven by transepidermal elimination of stem cells via COL17A1 proteolysis**  
 ○ Hiroyuki Matsumura<sup>1</sup>, Yasuaki Mohri<sup>1</sup>, Hironobu Morinaga<sup>1</sup>, Makoto Fukuda<sup>1</sup>, Sotaro Kurata<sup>2</sup>, Emi K Nishimura<sup>1</sup>  
<sup>1</sup>Department of Stem cell medicine, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan, <sup>2</sup>Beppu Garden-Hill Clinic, Kurata Clinic, Beppu city, Oita, Japan.

- P08-04 [C03-2] Tbx3-dependent proliferation of transit-amplifying cells drives interfollicular epidermal expansion during pregnancy and regeneration**  
○ Ryo Ichijo<sup>1</sup>, Hiroki Kobayashi<sup>1</sup>, Saori Yoneda<sup>1</sup>, Yui Iizuka<sup>1</sup>, Shigeru Matsumura<sup>1</sup>, Tetsuya Honda<sup>2</sup>, Fumiko Toyoshima<sup>1</sup>  
<sup>1</sup>Department of Cell Biology, Lab. of Subcellular Biogenesis Institute for Virus Research, <sup>2</sup>Department of Dermatology and Center for Innovation in Immunoregulative Technology and Therapeutics, Kyoto University Graduate School of Medicine
- P08-05 [C03-3] Immunomodulatory activities of novel synthetic host defense peptide, angiogenic peptide (AG)-30/5C, in human keratinocytes**  
○ François Niyonsaba<sup>1,2</sup>, Chanisa Kiatsurayanon<sup>1,3,4</sup>, Panjit Chieosilapatham<sup>1,3</sup>, Ko Okumura<sup>1</sup>, Shigaku Ikeda<sup>1,3</sup>, Hideoki Ogawa<sup>1</sup>  
<sup>1</sup>Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan, <sup>2</sup>Faculty of International Liberal Arts, Juntendo University, Tokyo, Japan, <sup>3</sup>Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, Japan, <sup>4</sup>Institute of Dermatology, Department of Medical Services, Ministry of Public Health, Bangkok, Thailand
- P08-06 [C03-4] Defining the stem cell lineages in the mouse inter-follicular epidermis**  
○ Aiko Sada<sup>1,2</sup>, Fadi Jacob<sup>2</sup>, Eva Leung<sup>2</sup>, Sherry Wang<sup>2</sup>, Brian S. White<sup>2,3</sup>, David Shalloway<sup>2</sup>, Tudorita Tumber<sup>2</sup>  
<sup>1</sup>Life Science Center, Tsukuba Advanced Research Alliance, University of Tsukuba, Japan, <sup>2</sup>Department of Molecular Biology and Genetics, Cornell University, USA, <sup>3</sup>McDonnell Genome Institute, Washington University, USA
- P08-07 [C03-5] Cutaneous wound healing is exclusively slow and poor in human compared to those of other mammals including evolutionarily related primates**  
○ Daisuke Utsumi<sup>1</sup>, Akiko Matsumoto<sup>2</sup>, Ngalla Jillani<sup>3</sup>, Daniel Chai Chivastasi<sup>3</sup>, Atunga Nyachieo<sup>3</sup>, Kenzo Takahashi<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, University of the Ryukyus, Okinawa, Japan, <sup>2</sup>Department of Tourism Sciences and Industrial Management, University of the Ryukyus, Okinawa, Japan, <sup>3</sup>Institute of Primate Research, Nairobi, Kenya
- P08-08 [C03-7] Botulinum toxin B suppresses oxidative stress and the formation of decubitus-like ulcer in cutaneous ischemia-reperfusion injury mouse model**  
○ Akiko Sekiguchi<sup>1</sup>, Akihiko Uchiyama<sup>1</sup>, Chisako Fujiwara<sup>1</sup>, Sachiko Ogino<sup>1</sup>, Yoko Yokoyama<sup>1</sup>, Ryoko Akai<sup>2</sup>, Takao Iwawaki<sup>2</sup>, Osamu Ishikawa<sup>1</sup>, Sei-ichiro Motegi<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Gunma University Graduate School of Medicine, Maebashi, Gunma, Japan, <sup>2</sup>Department of Life Science, Kanazawa Medical University, Kanazawa, Japan
- P08-09 [O2-48] Evaluation of endothelial cells derived from induced pluripotent stem cells from collagen disease patients.**  
○ Takaaki Hanafusa, Ken Igawa, Hiroo Yokozeki  
Department of Dermatology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University
- P08-10 [O2-47] Epidermal and dermal CD271+ stem cells are closely associated with wound healing process**  
○ Yohei Iwata<sup>1</sup>, Yuichi Hasebe<sup>2,3</sup>, Seiji Hasegawa<sup>1,2,3</sup>, Satoru Nakata<sup>2</sup>, Hirohiko Akamatsu<sup>4</sup>, Kazumitsu Sugijura<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Fujita Health University School of Medicine, Aichi, Japan, <sup>2</sup>Research Laboratories, Nippon Menard Cosmetic Co., Ltd., <sup>3</sup>MENARD Collaborative Research Chair, Nagoya University Graduate School of Medicine, <sup>4</sup>Department of Applied Cell and Regenerative Medicine, Fujita Health University School of Medicine
- P08-11 [C03-6] Wnt3a modulate self-maintained Muse cell population in human adipose derived stem cells.**  
○ Takeshi Yamauchi, Kenshi Yamasaki, Kenichiro Tsuchiyama, Saaya Koike, Setsuya Aiba  
Department of Dermatology, Tohoku University Graduate School of Medicine, Miyagi, Japan
- P08-12 [O2-49] Regulation of scar model cell behaviors: impacts of sulfated glycosaminoglycans and extracellular epimorphin**  
○ Tomoatsu Horigome<sup>1,2</sup>, Shinya Takumi<sup>2</sup>, Ayumi Nakashima<sup>2</sup>, Hiroko Yano<sup>2</sup>, Yohei Hirai<sup>1</sup>  
<sup>1</sup>Department of Bioscience, School of Science and Technology, Kwansei Gakuin University, Hyogo, Japan, <sup>2</sup>Kobayashi Pharmaceutical Co., Ltd.
- P08-13 [O2-50] Human hair-follicle associated pluripotent (HAP) stem cells differentiate to cardiac muscle cells**  
○ Netsuko Tohgi<sup>1</sup>, Koya Obama<sup>1</sup>, Yuko Hamada<sup>1</sup>, Nobuko Arakawa<sup>1</sup>, Masateru Yashiro<sup>1</sup>, Sumiyuki Mii<sup>1</sup>, Ryoichi Aki<sup>1</sup>, Robert M. Hoffman<sup>2,3</sup>, Yasuyuki Amoh<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, Kitasato University School of Medicine, <sup>2</sup>AntiCancer, Inc., San Diego, CA, <sup>3</sup>Department of Surgery, University of California San Diego, CA
- P08-14 [O2-51] To clarify the effect of the filaggrin gene mutation in keratinocytes by using CRISPR/Cas9 system and human induced pluripotent stem cells.**  
○ Ken Igawa, Hiroo Yokozeki  
Department of Dermatology, Tokyo Medical and Dental University, Tokyo, Japan
- P08-15 [O2-52] Hair follicle associated pluripotent (HAP) stem cell from young mice have the greatest potential to differentiate to cardiac muscle cells**  
○ Aiko Yamazaki<sup>1</sup>, Yuko Hamada<sup>1</sup>, Nobuko Arakawa<sup>1</sup>, Masateru Yashiro<sup>1</sup>, Sumiyuki Mii<sup>1</sup>, Ryoichi Aki<sup>1</sup>, Katsumasa Kawahara<sup>2,3</sup>, Robert M. Hoffman<sup>4,5</sup>, Yasuyuki Amoh<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Kitasato University school of Medical Sciences, <sup>2</sup>Department of Physiology, Kitasato University School of Medicine, <sup>3</sup>Department of Cellular & Molecular Physiology, Kitasato University Graduate school of Medical Sciences, <sup>4</sup>AntiCancer, Inc., San Diego, CA, <sup>5</sup>Department of Surgery, University of California San Diego, CA

- P08-16**  
[O2-53] **Differentiation potential of adipose derived stem/stromal cells into keratinocytes**  
○ Yuichiro Maeda, Toshio Hasegawa, Akino Wada, Hideo Iida, Atsushi Sakamoto, Tatsuo Fukai, Shigaku Ikeda  
Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine
- P08-17**  
[O2-54] **The role of collagen type 5 in the dermal stem cell niche**  
○ Yuichi Hasebe<sup>1,2</sup>, Seiji Hasegawa<sup>1,2,3</sup>, Yasushi Date<sup>1,2</sup>, Yuichirou Ogata<sup>1</sup>, Satoru Nakata<sup>1</sup>, Yohei Iwata<sup>3</sup>, Akiko Yagami<sup>3</sup>, Kazumitsu Sugiura<sup>3</sup>, Hirohiko Akamatsu<sup>4</sup>  
<sup>1</sup>NIPPON MENARD COSMETIC CO., LTD, <sup>2</sup>MENARD Collaborative Research Chair, Nagoya University Graduate School of Medicine, <sup>3</sup>Department of Dermatology, Fujita Health University School of Medicine, Aichi, Japan, <sup>4</sup>Department of Applied Cell and Regenerative Medicine, Fujita Health University School of Medicine
- P08-18**  
[O2-55] **Hepatocyte growth factor reduces CXCL10 expression in keratinocytes**  
○ Mitsuhiro Hisadome<sup>1</sup>, Tomokazu Ohnishi<sup>2</sup>, Kyoko Kakimoto<sup>2</sup>, Joji Kusuyama<sup>2</sup>, Kenjiro Bandow<sup>2</sup>, Takuro Kanekura<sup>1</sup>, Tetsuya Matsuguchi<sup>2</sup>  
<sup>1</sup>The Department of Dermatology, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan, <sup>2</sup>The Department of Oral Biochemistry, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan

## Category 9 (P09): Hair and Cutaneous Development

- P09-01**  
[III-3] **Generation of iPS-derived model cells for the analysis of hair development**  
○ Takumi Kido, Yohei Hirai  
Department of Bioscience, School of Science and Technology, Kwansei Gakuin University
- P09-02**  
[C02-6] **Human dermal  $\delta$ 1<sup>+</sup>T-cells recognize “stressed” HFs and may induce alopecia areata**  
○ Youhei Uchida<sup>1,2</sup>, Jennifer Gherardini<sup>1</sup>, Majid Alam<sup>3</sup>, Aviad Keren<sup>4</sup>, Haiping Zhang<sup>1,5</sup>, Jérémy Chéret<sup>3</sup>, Akiko Arakawa<sup>6</sup>, Alfredo Rossi<sup>7</sup>, Amos Gilhar<sup>4</sup>, Takuro Kanekura<sup>2</sup>, Marta Bertolini<sup>1,3</sup>, Ralf Paus<sup>1,8</sup>  
<sup>1</sup>Department of Dermatology, University of Münster, Münster, Germany, <sup>2</sup>Department of Dermatology, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan, <sup>3</sup>Monasterium Laboratory, Münster, Germany, <sup>4</sup>Skin Research Laboratory, Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, Israel, <sup>5</sup>Department of Dermatology and Venereology, Xuanwu Hospital, Capital Medical University, Beijing, China, <sup>6</sup>Department of Dermatology, University of Munich, Munich, Germany, <sup>7</sup>Department of Internal Medicine and Medical Specialties, University “La Sapienza”, Rome, Italy, <sup>8</sup>Centre for Dermatology Research, Institute of Inflammation and Repair, University of Manchester, Manchester, UK
- P09-03**  
[C07-8] **Claudin-3 in sweat glands prevents the leakage of sweat**  
○ Kosuke Yamaga<sup>1,2</sup>, Hiroyuki Murota<sup>1</sup>, Atsushi Tamura<sup>2</sup>, Hirofumi Miyata<sup>3</sup>, Junichi Kikuta<sup>4</sup>, Masato Ohmi<sup>3</sup>, Masaru Ishii<sup>4</sup>, Sachiko Tsukita<sup>2</sup>, Ichiro Katayama<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Osaka University, Osaka, Japan, <sup>2</sup>Laboratory of Biological Science, Osaka University, Osaka, Japan, <sup>3</sup>Department of Medical Physics, Osaka University, Osaka, Japan, <sup>4</sup>Department of Immunology and Cell biology, Osaka University, Osaka, Japan
- P09-04**  
[C07-6] **BMP signaling in the hair follicle stem cell niche regulates hair growth and skin pigmentation**  
○ Carlos Clavel<sup>1,2</sup>, Delia Quek<sup>1</sup>, Jamien Lim<sup>3</sup>, Shuan Yong Teo<sup>4</sup>  
<sup>1</sup>A\*Star, Institute of Medical Biology, Singapore, Singapore, <sup>2</sup>Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore, Singapore, <sup>3</sup>School of Biological Science, Nanyang Technological University, Singapore, Singapore, <sup>4</sup>Life Science, National University of Singapore, Singapore
- P09-05**  
[C02-7] **Plasmacytoid dendritic cells is a possible key player for the initiation of alopecia areata in the C3H/HeJ mouse**  
○ Taisuke Ito<sup>1</sup>, Takahiro Suzuki<sup>2</sup>, Jun-ichi Sake<sup>2</sup>, Atsuko Funakoshi<sup>1</sup>, Toshiharu Fujiyama<sup>1</sup>, Yoshiki Tokura<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Hamamatsu University School of Medicine, <sup>2</sup>Fujinomiya City General Hospital, <sup>3</sup>Agency for Science, Technology and Research, Singapore
- P09-06**  
[C07-5] **Hair follicle stem cells define a niche for tactile sensation via secretion of a specialized ECM**  
Chun-Chun Cheng<sup>1</sup>, Ko Tsutsui<sup>1</sup>, Toru Taguchi<sup>2</sup>, Noriko Ban-Sanzen<sup>1</sup>, Kisa Kakiguchi<sup>3</sup>, Shigenobu Yonemura<sup>3</sup>, Shigehiro Kuraku<sup>4</sup>, Fiona Watt<sup>5</sup>, ○ Hironobu Fujiwara<sup>1</sup>  
<sup>1</sup>Laboratory for Tissue Microenvironment, RIKEN Center for Developmental Biology (CDB), <sup>2</sup>Department of Neuroscience II, Research Institute of Environmental Medicine, Nagoya University, <sup>3</sup>Ultrastructural Research Team, RIKEN Center for Life Science Technologies (CLST), <sup>4</sup>Phyloinformatics Unit, Center for Life Science Technologies (CLST), <sup>5</sup>Centre for Stem Cells and Regenerative Medicine, Kings College London
- P09-07**  
[C07-7] **Enhanced Survival of Hair Follicle Allografts by Anti-ICAM-1 Antibody in Nonhuman Primates**  
Jin Yong Kim<sup>1,2</sup>, Su-Cheol Han<sup>3</sup>, Wooseok Koh<sup>4</sup>, Kyeong Cheon Jung<sup>5</sup>, Kyu Han Kim<sup>1,2</sup>, ○ Ohsang Kwon<sup>1,2</sup>  
<sup>1</sup>Department of Dermatology, Seoul National University College of Medicine, Seoul, Korea, <sup>2</sup>Laboratory of Cutaneous Aging and Hair Research, Seoul National University Hospital, Institute of Human-Environment Interface Biology, Seoul National University, Seoul, Korea, <sup>3</sup>Non-Human Primate Center, Jeonbuk Department, Korea Institute of Toxicology, Jeongeup, Korea, <sup>4</sup>JMO Dermatology, Seoul, Korea, <sup>5</sup>Transplantation Research Institute, Seoul National University College of Medicine, Seoul, Korea
- P09-08**  
[O3-01] **BNIP3 upregulation via stimulation of ERK and JNK activity is required for the protection of keratinocytes from UVB-induced apoptosis**  
○ Mariko Moriyama, Takashi Morita, Takao Hayakawa, Hiroyuki Moriyama  
Pharmaceutical Research and Technology Institute, Kindai University, Osaka, Japan

- P09-09 [O3-02] An underlying mechanism of hair loss in acrodermatitis enteropathica**  
○ Youichi Ogawa, Tatsuyoshi Kawamura, Shinji Shimada  
Department of Dermatology, University of Yamanashi, Yamanashi, Japan
- P09-10 [O3-03] The substantial role of asymmetric hair follicle differentiation in determining hair shape with ethnic/racial related diversity**  
○ Naoki Oya<sup>1</sup>, Akira Hachiya<sup>1</sup>, Azumi Nagasawa<sup>1</sup>, Daiki Murase<sup>1</sup>, Anita Stepp<sup>2</sup>, Tsutomu Fujimura<sup>1</sup>, Shigeru Moriwaki<sup>1</sup>, Yoshinori Takema<sup>3</sup>, Cheng Ming Chuong<sup>4</sup>  
<sup>1</sup>Biological Science Laboratories, Kao Corporation, Tochigi, Japan, <sup>2</sup>Biological Science Americas Laboratory, Kao Corporation, Cincinnati, USA, <sup>3</sup>Research and Development Global, Kao Corporation, Sumida, Tokyo, Japan, <sup>4</sup>Department of Pathology, University of Southern California, Los Angeles, USA
- P09-11 [O3-04] Oculodentodigital syndrome diagnosed from hypotrichosis**  
○ Tomoki Taki<sup>1</sup>, Takuya Takeichi<sup>1</sup>, Kazumitsu Sugiura<sup>2</sup>, Masashi Akiyama<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, University of Nagoya, Aichi, Japan, <sup>2</sup>Department of Dermatology, Fujita Health University, Aichi, Japan
- P09-12 [O3-05] Comparison of comedolytic effect of benzoyl peroxide and adapalene in rhino mice**  
○ Keisuke Tabara<sup>1</sup>, Rie Tamura<sup>1</sup>, Kazuaki Okamoto<sup>1</sup>, Takamichi Kitano<sup>1</sup>, Yusuke Kumagai<sup>1</sup>, Shoji Kanayama<sup>1</sup>, Tomo Sasaki<sup>2</sup>, Takayasu Moroki<sup>2</sup>, Sachi Mori<sup>1</sup>, Fumiaki Ikeda<sup>1</sup>, Tatsumi Matsumoto<sup>1</sup>  
<sup>1</sup>Pharmacological Research Group, Drug Development Research Laboratories, Maruho Co., Ltd., <sup>2</sup>Toxicological Research Group, Drug Development Research Laboratories, Maruho Co., Ltd.
- P09-13 [O3-06] The effect of flavonoids on regenerated hair follicles with pigmentation.**  
○ Nobuhiko Taguchi<sup>1,2</sup>, Minoru Yuriguchi<sup>2</sup>, Takumi Honma<sup>1</sup>, Toshihiro Hata<sup>1</sup>, Emi Kamiya<sup>1</sup>, Ai Kobayashi<sup>1</sup>, Ryosuke Kitai<sup>2</sup>, Hitomi Aoki<sup>2</sup>, Takahiro Kunisada<sup>2</sup>  
<sup>1</sup>General Research & Development Institute, Hoyo Co., Ltd., <sup>2</sup>Department of Tissue and Organ Development, Gifu University Graduate School of Medicine

## Category 10 (P10): Immunology 1: Adaptive Immunity

- P10-01 [I-3] Dual aspects of B cells in tumor immunity; B cells are capable of positive and negative regulation for tumor immunity against B16 melanoma**  
○ Tadahiro Kobayashi<sup>1</sup>, Takashi Matsushita<sup>1</sup>, Yasuhiro Hamaguchi<sup>1</sup>, Minoru Hasegawa<sup>2</sup>, Manabu Fujimoto<sup>3</sup>, Kazuhiko Takehara<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Faculty of Medicine, Institute of Medical, Pharmaceutical, and Health Sciences, Kanazawa University, Ishikawa, Japan, <sup>2</sup>Dermatology, University of Fukui, Fukui, Japan, <sup>3</sup>Dermatology, University of Tsukuba, Tsukuba, Japan
- P10-02 [C09-1] PD-1, TIGIT, and LAG-3 signals synergistically suppress the anti-melanoma CTL response in the effector phase**  
○ Takashi Inozume<sup>1</sup>, Tomonori Yaguchi<sup>2</sup>, Tatsuyoshi Kawamura<sup>1</sup>, Yutaka Kawakami<sup>2</sup>, Shinji Shimada<sup>1</sup>  
<sup>1</sup>Department of Dermatology, University of Yamanashi, Yamanashi, Japan, <sup>2</sup>Division of Cellular Signaling, Institute for Advanced Medical Research, Keio University School of Medicine
- P10-03 [C09-2] Functional redundancy of dermal dendritic cell subsets for T cell activation in the elicitation phase of a murine contact hypersensitivity**  
○ Sachiko Ono, Tetsuya Honda, Kenji Kabashima  
The Department of Dermatology, University of Kyoto, Kyoto, Japan
- P10-04 [C09-3] Essential role of PD-1/PD-L1 pathway to regulate CD8+ T-cell activation in murine contact hypersensitivity**  
○ Tomoko Hirano<sup>1</sup>, Tetsuya Honda<sup>2</sup>, Koji Tamada<sup>2</sup>, Lieping Chen<sup>3</sup>, Kenji Kabashima<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Kyoto University Graduate School of Medicine, <sup>2</sup>Department of Immunology, Yamaguchi University Graduate School of Medicine, <sup>3</sup>Department of Immunobiology, Yale University School of Medicine
- P10-05 [C09-4] Prolonged incubation period after initial HIV infection is mediated by CTL activation and Treg cell suppression induced by Langerhans cells**  
○ Takamitsu Matsuzawa, Tatsuyoshi Kawamura, Youichi Ogawa, Shinji Shimada  
Dermatology, University of Yamanashi, Yamanashi, Japan
- P10-06 [C09-5] Air pollution activates Aryl hydrocarbon receptor in murine epidermis, leading to Atopic dermatitis-like pathologies**  
○ Takanori Hidaka<sup>1</sup>, Eri H Kobayashi<sup>2</sup>, Takafumi Suzuki<sup>2</sup>, Masayuki Yamamoto<sup>2</sup>  
<sup>1</sup>The Department of Dermatology, University of Tohoku, Sendai, Japan, <sup>2</sup>The Department of Medical Biochemistry, University of Tohoku, Sendai, Japan
- P10-07 [C09-6] Regulatory T cells in the skin suppress percutaneous sensitization by regulating dermal dendritic cell function**  
Sho Hanakawa, ○ Akihiko Kitoh, Kenji Kabashima  
Department of Dermatology, Kyoto University Graduate School of Medicine

- P10-08 [C09-7] Deficiency of Bach2 results in improved tumor immunity by enhancing effector function in CD8+ T cells**  
 ○ Yuki Sato<sup>1,2</sup>, Miki Watanabe-Matsu<sup>2</sup>, Daniel R. Sharda<sup>3</sup>, Kazuhiko Igarashi<sup>2</sup>, Ryuhei Okuyama<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Shinshu University Graduate School of Medicine, <sup>2</sup>Department of Biochemistry, Tohoku University Graduate School of Medicine, <sup>3</sup>Department of Biological Sciences, School of Life and Health Sciences, Olivet Nazarene University
- P10-09 [O3-07] Notch signaling contributes to differentiation of mucosal mast cells and development of experimental food allergy**  
 ○ Nobuhiro Nakano<sup>1</sup>, Asuka Honjo<sup>2</sup>, Ko Okumura<sup>1</sup>, Hideoki Ogawa<sup>1,3</sup>, Shigaku Ikeda<sup>1,3</sup>  
<sup>1</sup>Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan, <sup>2</sup>Department of Pediatrics and Adolescent Medicine, Juntendo University Graduate School of Medicine, Tokyo, Japan, <sup>3</sup>Department of Dermatology and Allergology, Juntendo University Graduate School of Medicine, Tokyo, Japan
- P10-10 [O3-08] Commensal microbe-derived short-chain fatty acids regulate cutaneous immunity via IL-10 releasing regulatory T cells**  
 ○ Schwarz Agatha, Anika Bruhs, Thomas Schwarz  
 Department of Dermatology, University Kiel, Kiel, Germany
- P10-11 [O3-09] Possible immunomodulatory effects of tumor-associated macrophages in RANKL expressing apocrine-origin cancers**  
 ○ Yota Sato, Sadanori Furudate, Taku Fujimura, Yumi Kambayashi, Aya Kakizaki, Setsuya Aiba  
 The Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan
- P10-12 [O3-10] Evaluation of in-vitro diagnostic methods for identifying the culprit drugs in drug hypersensitivity**  
 ○ Kenichi Kato<sup>1</sup>, Hiroaki Azukizawa<sup>2</sup>, Takaaki Hanafusa<sup>3</sup>, Yukinobu Nakagawa<sup>1</sup>, Ichiro Katayama<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Course of Integrated Medicine, Osaka University, Osaka, Japan, <sup>2</sup>Department of Dermatology, Nara Medical University, Nara, Japan, <sup>3</sup>Department of Dermatology, Tokyo Medical and Dental University, Tokyo, Japan
- P10-13 [O3-11] IL-10 producing plasmablasts that increase at an acute phase of herpes zoster**  
 ○ Kensuke Fukuchi, Kazuki Tatsuno, Takatoshi Shimauchi, Yoshiki Tokura  
 The Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, Shizuoka, Japan
- P10-14 [O3-12] Proposal of the existence of an inducible skin-associated lymphoid tissue (iSALT) in the cutaneous lesion of secondary syphilis**  
 ○ Toshiaki Kogame<sup>1</sup>, Takashi Nomura<sup>1</sup>, Tatsuki R Kataoka<sup>2</sup>, Masahiro Hirata<sup>2</sup>, Chiyuki Ueshima<sup>2</sup>, Kenji Kabashima<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, <sup>2</sup>Department of Diagnostic Pathology, Kyoto University Hospital

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

- P11-01 [III-5] Evolutionary risk management of agr locus is important for S. aureus adaptation in the skin of atopic dermatitis**  
 ○ Yuumi Nakamura<sup>1</sup>, Hiroki Takahashi<sup>2</sup>, Akiko Takaya<sup>3</sup>, Yuzaburo Inoue<sup>4</sup>, Fumiya Yamada<sup>4</sup>, Rena Oguma<sup>1,4</sup>, Yuki Katayama<sup>1</sup>, Yoko Kusuya<sup>2</sup>, Naoki Shimojo<sup>4</sup>, Gabriel Nunez<sup>5</sup>, Hiroyuki Matsue<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, Chiba University, Chiba, Japan, <sup>2</sup>Division of Bio-resources, Medical Mycology Research Center, Chiba University, Chiba, Japan, <sup>3</sup>Department of Microbiology and Molecular Genetics, Graduate School of Pharmaceutical Sciences, Chiba University, Chiba, Japan, <sup>4</sup>Department of Pediatrics, Chiba University Graduate School of Medicine, Chiba, Japan, <sup>5</sup>Department of Pathology, University of Michigan Medical School, Ann Arbor, MI, USA
- P11-02 [III-4] Staphylococcus PSM $\alpha$  induces IL-17-dependent skin inflammation through IL-36 and IL-1 secretion from keratinocytes**  
 ○ Seitaro Nakagawa<sup>1,2</sup>, Yuumi Nakamura<sup>1</sup>, Rena Ovum<sup>1</sup>, Yuki Katayama<sup>1</sup>, Masanori Matsumoto<sup>2</sup>, Gabriel Nunez<sup>2</sup>, Hiroyuki Matsue<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, University of Chiba, Chiba, Japan, <sup>2</sup>Pathology and Comprehensive Cancer Center, University of Michigan, MI, USA
- P11-03 [C05-1] TRPV4 is a key driver for mast cell activation in LL37-mediated skin inflammation**  
 ○ Anna Di\_Nardo, Nicholas Mascarenhas, Zhenping Wang  
 Department of Dermatology, University of California San Diego, La Jolla, USA
- P11-04 [C05-2] Cell-to-cell contact with HTLV-1-infected T cell reduces dendritic cell immune functions and contributes to infection in trans.**  
 ○ Takatoshi Shimauchi<sup>1</sup>, Stephan Caucheteux<sup>2</sup>, Jocelyn Turpin<sup>3</sup>, Katja Finsterbusch<sup>2</sup>, Charles RM Bangham<sup>3</sup>, Yoshiki Tokura<sup>1</sup>, Vincent Piguet<sup>2</sup>  
<sup>1</sup>Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, Japan, <sup>2</sup>Department of Dermatology, Institute of Infection & Immunity, Cardiff University, Cardiff, UK, <sup>3</sup>Section of Virology, Department of Medicine, Imperial College London, London, UK
- P11-05 [C05-3] The crosstalk between peripheral nerves and immune cells in the pathogenesis of pruritic skin diseases.**  
 ○ Chisa Nakashima, Atsushi Otsuka, Kenji Kabashima  
 Department of Dermatology, Kyoto University Graduate School of Medicine

- P11-06 [C05-4] Homeostasis of peripheral macrophages are tuned by c-Kit<sup>+</sup>CD11b<sup>+</sup> multipotent progenitor-like cells derived from mast cells.**  
○ Seiichiro Wakabayashi, Yuumi Nakamura, Hiroyuki Matsue  
Dermatology, Chiba University, Chiba, Japan
- P11-07 [C05-5] A structure-function analysis of cathelicidin to further define mechanism of action in human skin**  
○ Toshiya Takahashi, Ling-juan Zhang, Richard L. Gallo  
The Department of Dermatology, University of California, San Diego
- P11-08 [C05-6] Benzopyrene mobilizes Langerhans cells and polarizes Th2/17 responses in epicutaneous protein sensitization via aryl hydrocarbon receptor**  
○ Chien-Hui Hong<sup>1,2</sup>, Chih-Hung Lee<sup>3,4</sup>, Hsin-Su Yu<sup>5,6</sup>, Shau-Ku Huang<sup>5</sup>  
<sup>1</sup>Department of Dermatology, National Yang Ming University, Taipei, Taiwan, <sup>2</sup>Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan, <sup>3</sup>Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan, <sup>4</sup>Chang Gung University College of Medicine, Taoyuan, Taiwan, <sup>5</sup>National Environmental Research Center, National Health Research Institutes, Zhunan, Taiwan, <sup>6</sup>Kaohsiung Medical University, Kaohsiung, Taiwan
- P11-09 [C05-7] Hyperglycemia facilitates staphylococcal infection in diabetic skin wounds**  
Yanchun Quan, ○ Yuping Lai  
School of Life Sciences, East China Normal University, Shanghai, China
- P11-10 [C05-8] Molecular signatures for antimicrobial and innate defense responses activated in skin with transglutaminase 1 deficiency**  
○ Yasutomo Imai<sup>1</sup>, Takashi Haneda<sup>1</sup>, Ryosuke Uchiyama<sup>2</sup>, Orié Jitsukawa<sup>1</sup>, Kiyofumi Yamanishi<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Hyogo College of Medicine, Nishinomiya, Japan, <sup>2</sup>Department of Microbiology, Hyogo College of Medicine, Nishinomiya, Hyogo, Japan
- P11-11 [O3-13] TLR signaling regulates the expression of serine protease inhibitors in epidermal keratinocytes**  
○ Saeko Sugimoto, Shin Morizane, Satoru Sugihara, Mina Kobashi, Keiji Iwatsuki  
The Department of Dermatology, University of Okayama, Okayama, Japan
- P11-12 [O3-14] Insights into the role of immunosenescence during varicella zoster virus infection (shingles) in the aging cell model**  
JiAe Kim<sup>1</sup>, Seulki Park<sup>1</sup>, Mukesh Kumar<sup>2</sup>, Chanhee Lee<sup>3</sup>, ○ Ok Sarah Shin<sup>1</sup>  
<sup>1</sup>The Department of Biomedical Science, Korea University School of Medicine, Seoul, Korea, <sup>2</sup>Department of Tropical Medicine, Medical Microbiology and Pharmacology, University of Hawaii at Manoa, Honolulu, HI, USA, <sup>3</sup>Department of Microbiology, Chungbuk National University, Republic of Korea
- P11-13 [O3-15] Topical treatment with nano-sized particles of cyanoacryl polymer ameliorates experimental dermatitis through bactericidal effect.**  
○ Mayuko Yamamoto<sup>1</sup>, Michiyuki Kasai<sup>2</sup>, Ayano Kawaguchi<sup>3</sup>, Katsuhide Suzuki<sup>3</sup>, Reiko Kamijima<sup>1</sup>, Shoichi Shirotake<sup>4</sup>, Keiko Udaka<sup>2</sup>, Shigetoshi Sano<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Kochi Medical School, Kochi University, Nankoku, Japan, <sup>2</sup>Department of immunology, Kochi Medical School, Kochi University, <sup>3</sup>Department of Innovative Medicine Course, Kochi Medical School, Kochi University, <sup>4</sup>Department of Center for Innovative and Translational Medicine, Kochi Medical School, Kochi University
- P11-14 [O3-16] Eosinophil infiltration and Kallikrein 5 are involved in itching of mycosis fungoides**  
○ Kyoko Shimizu<sup>1</sup>, Tsugunobu Andoh<sup>2</sup>, Yoko Yoshihisa<sup>1</sup>, Megumi Mizawa<sup>1</sup>, Teruhiko Makino<sup>1</sup>, Tadamichi Shimizu<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan, <sup>2</sup>The Department of Applied pharmacology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan
- P11-15 [O3-17] Antimicrobial peptide derived from IGFBP-5 (AMP-IBP5) stimulates various functions of human keratinocytes**  
○ Panjit Chieosilapatham<sup>1,2</sup>, François Niyonsaba<sup>1</sup>, Chanisa Kiatsurayanon<sup>1,2</sup>, Ko Okumura<sup>1</sup>, Shigaku Ikeda<sup>1,2</sup>, Hideoki Ogawa<sup>1</sup>  
<sup>1</sup>Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan, <sup>2</sup>Department of Dermatology and Allergy, Juntendo University Graduate School of Medicine, Tokyo, Japan
- P11-16 [O3-18] Investigating the role of Langerhans cells in primary cutaneous melanoma**  
○ Judith Seidel, Atsushi Otsuka, Kenji Kabashima  
Department of Dermatology, Kyoto University
- P11-17 [O3-19] The double-stranded RNA induces IL-33 expression through activation of EGFR, ERK, p38 and TBK-1 in normal human epidermal keratinocytes**  
○ Meijuan Jin<sup>1</sup>, Mayumi Komine<sup>1</sup>, Hidetoshi Tsuda<sup>1</sup>, Shin-ichi Tominaga<sup>2</sup>, Mamitaro Ohtsuki<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, Jichi Medical University, Tochigi, Japan, <sup>2</sup>The Department of Pathology, Jichi Medical University, Tochigi, Japan

- P11-18 [O3-20] Malleable liposome targeting to hair follicle for eradicating MRSA**  
 ○ Jia-You Fang<sup>1</sup>, Shih-Chun Yang<sup>1,2</sup>, Yi-Han Weng<sup>1</sup>  
<sup>1</sup>Graduate Institute of Natural Products, Chang Gung University, Taoyuan, Taiwan, <sup>2</sup>Research Center for Industry of Human Ecology, Chang Gung University of Science and Technology, Taoyuan, Taiwan
- P11-19 [O3-21] Effects of antimicrobial peptide LL-37 on expression of natural moisturizing factor-generating proteases in epidermal keratinocytes**  
 ○ Yoshie Umehara<sup>1</sup>, Yayoi Kamata<sup>1</sup>, Mitsutoshi Tominaga<sup>1</sup>, François Niyonsaba<sup>2,3</sup>, Azumi Sakaguchi<sup>1</sup>, Hideoki Ogawa<sup>1,2</sup>, Kenji Takamori<sup>1,4</sup>  
<sup>1</sup>Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, Japan, <sup>2</sup>Atopy (Allergy) Research Center, Juntendo University School of Medicine, Tokyo, Japan, <sup>3</sup>Faculty of International Liberal Arts, Juntendo University, Tokyo, Japan, <sup>4</sup>Department of Dermatology, Juntendo University Urayasu Hospital, Chiba, Japan
- P11-20 [O3-22] Herpes simplex virus type 1 entry and replication in the keratinocytes depends on extracellular calcium concentration**  
 ○ Takenobu Yamamoto, Yoshiko Yamamoto, Wataru Fujimoto  
 Department of Dermatology, Kawasaki medical school, Kurashiki, Japan
- P11-21 [O3-23] Semi-automated quantitative analysis of the human skin microbiome diversity**  
 ○ Chihiro Kumagai<sup>1</sup>, Yukuto Sato<sup>2</sup>, Riu Yamashita<sup>3</sup>, Masao Nagasaki<sup>3</sup>, Kenshi Yamasaki<sup>1</sup>, Setsuya Aiba<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, University of Tohoku, Miyagi, Japan, <sup>2</sup>Organization for Research Promotion, University of Ryukyus, Okinawa, Japan, <sup>3</sup>Tohoku Medical Megabank Organization, Miyagi, Japan
- P11-22 [O3-24] Tropomyosin is minor but distinct allergen in the patients with shrimp allergies**  
 ○ Onon Tsendendorj<sup>1</sup>, Yuko Chinuki<sup>1</sup>, Kiyoe Ueda<sup>1</sup>, Hitoshi Takahashi<sup>1</sup>, Atsuko Adachi<sup>2</sup>, Eishin Morita<sup>1</sup>  
<sup>1</sup>The Department of Dermatology, University of Shimane, Izumo, Japan, <sup>2</sup>The Department of Dermatology, Hyogo Prefectural Kakogawa Hospital, Kakogawa, Japan
- P11-23 [O3-25] In Vitro Antifungal Activity of Kampo Medicine against Dermatophytes**  
 ○ Xia Da, Eishin Morita  
 Department of Dermatology, Shimane University Faculty of Medicine, Shimane, Japan
- P11-24 [O3-26] Protothecosis in tertiary referral medical centers in Taiwan**  
 ○ Han-Chi Tseng<sup>1</sup>, Hsin-Wei Huang<sup>1</sup>, Chun-Bing Chen<sup>2</sup>, Pei-Lun Sun<sup>2</sup>, Wen-Hung Chun<sup>2</sup>, Tseng-Tong Kuo<sup>3</sup>, Yu-Wen Cheng<sup>1</sup>, Chih-Hung Lee<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Chang Gung Memorial Hospital-Kaohsiung Medical Center, Chang Gung University College of Medicine, Kaohsiung, Taiwan, <sup>2</sup>Department of Dermatology, Chang Gung Memorial Hospital; Linkou Medical Center, Chang Gung University College of Medicine, Taoyuan, Taiwan, <sup>3</sup>Department of Pathology, Chang Gung Memorial Hospital; Linkou Medical Center, Chang Gung University College of Medicine, Taoyuan, Taiwan
- P11-25 [O3-27] Is neutrophil the dominant IL-17 producer in psoriasis?**  
 ○ Keiichi Yamanaka, Akisa Yamagiwa, Tomoko Akeda, Hitoshi Mizutani  
 The Department of Dermatology, Mie University, Graduate School of Medicine
- P11-26 [O3-28] Pytirosporom folliculitis presenting as targetoid lesions in Polycythemia vera: A Case Report in a 52 year old Filipino male**  
 ○ Troy Michael P. Dizon, Johannes Dayrit, Ma. Luisa Concepcion  
 Department of Internal Medicine, De La Salle University Medical Center, Dasmariñas City, Cavite

## Category 12 (P12): Photobiology

- P12-01 [C08-7] Long non-coding RNAs regulate cellular responses to ultraviolet light in a wavelength-dependent manner**  
 ○ Kazuyuki Yo<sup>1,2</sup>, Thomas M Ruenger<sup>2</sup>  
<sup>1</sup>Skin Research Department, POLA Chemical Industries Inc., Yokohama, Japan, <sup>2</sup>Department of Dermatology, Roger Williams Medical Center and Boston University School of Medicine, Providence, USA
- P12-02 [C08-8] An endogenous tryptophan photo-product, FICZ, is an integral part of photo-aging by reducing TGF-β-induced collagen maintenance**  
 ○ Mika Murai-Mizote<sup>1</sup>, Gaku Tsuji<sup>1,2</sup>, Chikage Mitoma<sup>1,2</sup>, Akiko Hashimoto-Hachiya<sup>1</sup>, Makiko Nakahara<sup>1,3</sup>, Takeshi Nakahara<sup>1,3</sup>, Hiroshi Uchi<sup>1</sup>, Masutaka Furue<sup>1,2,3</sup>  
<sup>1</sup>Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, <sup>2</sup>Research and Clinical Center for Yusho and Dioxin, Kyushu University Hospital, <sup>3</sup>Division of Skin Surface Sensing, Graduate School of Medical Sciences, Kyushu University
- P12-03 [C08-6] Filaggrin abundance cannot compensate the loss of loricerin in UVB photoprotectoin**  
 ○ Yosuke Ishitsuka<sup>1,2</sup>, Shaun Bevers<sup>3</sup>, Robert\_H Rice<sup>4</sup>, Neil Box<sup>2</sup>, Dennis\_R Roop<sup>2</sup>  
<sup>1</sup>Department of Dermatology, Faculty of Medicine, University of Tsukuba, Tsukuba, Ibaraki, Japan, <sup>2</sup>Department of Dermatology and Charles C. Gates Center for Regenerative Medicine and Stem Cell Biology, University of Colorado Denver, Aurora, CO, <sup>3</sup>Biophysics Core, Department of Biochemistry and Molecular Genetics, University of Colorado Denver, Aurora, CO, <sup>4</sup>Department of Environmental Toxicology, University of California, Davis, CA

- P12-04 [C08-5] Enhancement of UVB-induced apoptosis and elimination of DNA damages by irradiation of IPL does not depend on the repair of DNA damages**  
○ Shizuka Okazaki, Yoko Funasaka, Seiji Kawana, Hidehisa Saeki  
Department of Dermatology, Nippon Medical School, Tokyo, Japan
- P12-05 [O3-29] Interaction of fibroblasts with ECM via integrin might induce plasmin and more activate MMP-1 in real skin.**  
○ Aska Sonoki, Shuhei Takemura, Megumi Konishi, Yuichiro Yoshitake  
OPPEN COSMETICS CO., LTD.
- P12-06 [O3-30] Decreased repair function of radiation-induced DNA damage on cultured fibroblasts derived from patients with xeroderma pigmentosum variant.**  
○ Toshihiro Otsuka<sup>1</sup>, Hideaki Tanizaki<sup>1</sup>, Teruo Kurokawa<sup>1</sup>, Shinichi Moriwaki<sup>1</sup>, Asako Nakamura<sup>2</sup>  
<sup>1</sup>The Department of Dermatology, Osaka Medical College, Osaka, Japan, <sup>2</sup>College of Science, Ibaraki University, Mito, Japan
- P12-07 [C08-4] Identification of a novel marker for cellular senescence**  
○ Oliver Dreesen<sup>1,4</sup>, Audrey Shimei Wang<sup>1</sup>, Peh Fern Ong<sup>1</sup>, Louis Peter Hor<sup>1</sup>, Alexandre Chojnowski<sup>3</sup>, Aya Wada<sup>1</sup>, Carlos Clavel<sup>2,4</sup>  
<sup>1</sup>Cell Ageing, Institute of Medical Biology, <sup>2</sup>Hair Pigmentation, Institute of Medical Biology, Singapore, <sup>3</sup>Developmental and Regenerative Biology, Institute of Medical Biology, Singapore, <sup>4</sup>Lee Kong Chian School of Medicine, Nanyang Technological University
- P12-08 [O3-31] Ultraviolet irradiation induced inhibition of adipokine production in subcutaneous fat aggravates dermal matrix degradation in human skin**  
Eun Ju Kim<sup>1,2,3</sup>, Yeon Kyung Kim<sup>1,2,3</sup>, Min-Kyoung Kim<sup>1,2,3</sup>, Sungsoo Kim<sup>1,2,3</sup>, Jin Yong Kim<sup>1,2,3</sup>, ○ Dong Hun Lee<sup>1,2,3</sup>, Jin Ho Chung<sup>1,2,3,4</sup>  
<sup>1</sup>Department of Dermatology, Seoul National University College of Medicine, <sup>2</sup>Laboratory of Cutaneous Aging Research, Biomedical Research Institute, Seoul National University Hospital, Seoul, Republic of Korea, <sup>3</sup>Institute of Human-Environment Interface Biology, Seoul National University, Seoul, Republic of Korea, <sup>4</sup>Institute on Aging, Seoul National University, Seoul, Republic of Korea
- P12-09 [O3-32] Co-regulation of Cxcl1 and versican in inflammatory response in UVB induced reactive oxygen species in the skin**  
○ Chihiro Takemori<sup>1</sup>, Makoto Kunisada<sup>1</sup>, Flandiana Yogianti<sup>1,2</sup>, Sugako Oka<sup>3</sup>, Kunihiro Sakumi<sup>3</sup>, Ryusuke Ono<sup>1</sup>, Yusaku Nakabeppu<sup>3</sup>, Chikako Nishigori<sup>1</sup>  
<sup>1</sup>Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe, Japan, <sup>2</sup>Department of Dermatology and Venereology, Faculty of Medicine, Gadjah Mada University, Yogyakarta, Indonesia, <sup>3</sup>Division of Neurofunctional Genomics, Medical Institute of Bioregulation, Kyusyu University, Fukuoka, Japan
- P12-10 [O3-33] Apigenin inhibit UV-induced melanogenesis through activation of MIF and PAR-2 expression in keratinocytes**  
○ Yoko Yoshihisa<sup>1</sup>, Kenji Matsunaga<sup>1</sup>, Mati Ur Rehman<sup>2</sup>, Tadamichi Shimizu<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan, <sup>2</sup>Department of Radiological Sciences, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan
- P12-11 [O3-34] Differential immunological effects of infrared irradiation and its associated heat in vivo**  
○ Chih-Hung Lee<sup>1,2</sup>, Chien-Hui Hong<sup>3,4</sup>, Wei-Ting Liao<sup>5</sup>, Hsin-Su Yu<sup>5,6</sup>  
<sup>1</sup>Department of Dermatology, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan, <sup>2</sup>Chang Gung University College of Medicine, Taoyuan, Taiwan, <sup>3</sup>National Yang Ming University, Taipei, Taiwan, <sup>4</sup>Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan, <sup>5</sup>Kaohsiung Medical University, Kaohsiung, Taiwan, <sup>6</sup>National Environmental Research Center, National Health Research Institutes, Zhunan, Taiwan
- P12-12 [O3-35] A novel UVA1 phototherapy using light-emitting diodes for scleroderma treatment**  
○ Hideyuki Masuda<sup>1</sup>, Makoto Kimura<sup>2</sup>, Akimichi Morita<sup>1</sup>  
<sup>1</sup>Department of Geriatric and Environmental Dermatology, Nagoya City University, Graduate School of Medical Sciences, Nagoya, Japan, <sup>2</sup>USHIO INC.
- P12-13 [O3-36] Comparison of gene expression profiles of keratinocytes irradiated with narrow-band UVB and excimer light**  
Mayuko Tahara, ○ Yukinobu Nakagawa, Hiroyuki Murota, Ichiro Katayama  
The Department of Dermatology, Osaka University, Suita, Japan
- P12-14 [O3-37] Mitotic genes are transcriptionally upregulated in the fibroblast irradiated with very low doses of UV-C**  
○ Seiji Takeuchi<sup>1</sup>, Toshiro Matsuda<sup>2</sup>, Ryusuke Ono<sup>1</sup>, Mariko Tsujimoto<sup>1</sup>, Chikako Nishigori<sup>1</sup>  
<sup>1</sup>Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe, Japan, <sup>2</sup>Kindai University Atomic Energy Research Institute
- P12-15 [O3-38] Persistent inflammation in photo-aged skin**  
○ Masaki Yoshida<sup>1,2</sup>, Shunji Itoh<sup>3</sup>, Ikuji Hatamura<sup>3</sup>, Nobuo Nagai<sup>1</sup>  
<sup>1</sup>Nagahama Institute of Bio-science and Technology, <sup>2</sup>Kracie Pharma LTD, <sup>3</sup>Kansai University of Health Science



## Category 13 (P13): Pigmentation and Melanoma

- P13-01 [III-1] Peripheral blood Th9 cells as a possible pharmacodynamics biomarker of nivolumab treatment efficacy in metastatic melanoma**  
 ○ Yumi Nonomura, Atsushi Otsuka, Chisa Nakashima, Judith A. Seidel, Kenji Kabashima  
 Department of Dermatology, Kyoto University Graduate School of Medicine
- P13-02 [C04-1] Melanoma spheroid culture identifies miR-519d as an oncogene in melanoma**  
 ○ Yi-Hua Liao<sup>1</sup>, Chun-Ju Lin<sup>1</sup>, Shiou-Hwa Jee<sup>2</sup>  
<sup>1</sup>Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, Taiwan, <sup>2</sup>Department of Dermatology, Cathay General Hospital, Taipei, Taiwan
- P13-03 [C04-2] IFN- $\beta$  augments the anti-tumor effects of PD-1 Abs in melanoma: the possible immunotherapy for metastatic melanoma.**  
 ○ Aya Kakizaki, Taku Fujimura, Sadanori Furudate, Yumi Kambayashi, Setsuya Aiba  
 Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan
- P13-04 [C04-3] Intratumoral expression levels of PD-L1, GZMA, and HLA-A along with oligoclonal T cell expansion associate with response to nivolumab**  
 ○ Satoshi Fukushima<sup>1</sup>, Hiroyuki Inoue<sup>2</sup>, Jae-Hyun Park<sup>2</sup>, Kazuma Kiyotani<sup>2</sup>, Makda Zewde<sup>2</sup>, Azusa Miyashita<sup>1</sup>, Masatoshi Jinnin<sup>1</sup>, Yukiko Kuniwa<sup>2</sup>, Yasuhiro Fujisawa<sup>3</sup>, Hiroshi Kato<sup>3</sup>, Jun Asai<sup>4</sup>, Kenji Yokota<sup>5</sup>, Hironobu Ihn<sup>1</sup>, Yusuke Nakamura<sup>2</sup>  
<sup>1</sup>Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan, <sup>2</sup>Department of Medicine, The University of Chicago, Chicago, USA, <sup>3</sup>Department of Dermatology, Shinshu University School of Medicine, Matsumoto, Japan, <sup>4</sup>Department of Dermatology, Faculty of Medicine, The University of Tsukuba, Tsukuba, Japan, <sup>5</sup>Department of Geriatric and Environmental Dermatology, Nagoya City University, Graduate School of Medical Sciences, Nagoya, Japan, <sup>6</sup>Department of Dermatology, Kyoto Prefectural University of Medicine, Graduate School of Medical Science, Kyoto, Japan, <sup>7</sup>Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan
- P13-05 [C04-4] Acquired resistance to dabrafenib and trametinib co-treatment in cutaneous melanoma involves endothelin-1 (ET-1) and Akt activation**  
 ○ Chia-Yu Chu, Yi-Shuan Sheen, Yi-Xuan Chen  
 Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, Taiwan
- P13-06 [C04-5] The significance of over-expression of NUA2 on the survival of patients with acral melanomas and its relevance with DNA copy number gain**  
 ○ Takeshi Namiki<sup>1</sup>, Kohei Nojima<sup>1</sup>, Masato Funazumi<sup>1</sup>, Masashi Ishikawa<sup>2</sup>, Yasuhiko Kaneko<sup>3</sup>, Atsushi Tanemura<sup>4</sup>, Ichiro Katayama<sup>4</sup>, Taisuke Mori<sup>5</sup>, Naoya Yamazaki<sup>6</sup>, Hiroo Yokozeki<sup>1</sup>, Vincent J. Hearing<sup>7</sup>  
<sup>1</sup>The Department of Dermatology, Tokyo Medical and Dental University, Tokyo, Japan, <sup>2</sup>The Department of Dermatology, Saitama Cancer Center, Saitama, Japan, <sup>3</sup>Research Institute for Clinical Oncology, Saitama Cancer Center, Saitama, Japan, <sup>4</sup>The Department of Dermatology, Osaka University, Osaka, Japan, <sup>5</sup>The Department of Pathology, National Cancer Center Hospital, Tokyo, Japan, <sup>6</sup>The Department of Dermatologic Oncology, National Cancer Center Hospital, Tokyo, Japan, <sup>7</sup>Laboratory of Cell Biology, National Cancer Institute, National Institutes of Health, MD, USA
- P13-07 [C04-6] TLR3 Agonists Poly(I:C) Enhances Melanosome Uptake by Normal Human Epidermal Keratinocytes.**  
 ○ Saaya Koike, Kenshi Yamasaki, Takeshi Yamauchi, Kenichiro Tsutiyama, Setsuya Aiba  
 Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan
- P13-08 [C04-7] Studies on phagocytic activity of human dermal fibroblast (HDF) activated with macrophage activating factors.**  
 ○ Haruka Kohda<sup>1</sup>, Mika Fukuda<sup>2</sup>, Yuma Arata<sup>2</sup>, Mami Ishikawa<sup>1</sup>, Hirokazu Ishii<sup>3</sup>, Hideya Ando<sup>4</sup>, Masamitsu Ichihashi<sup>5</sup>, Masahiro Ishizuka<sup>6</sup>, Hitoshi Nakagawa<sup>6</sup>, Yuya Kitajima<sup>6</sup>, Takahito Nishikata<sup>2</sup>  
<sup>1</sup>Graduate of Frontiers of Innovative Research in Science and Technology (FIRST), Konan University, Kobe, Japan, <sup>2</sup>Frontiers of Innovative Research in Science and Technology (FIRST), Konan University, Kobe, Japan, <sup>3</sup>Marine Biological Laboratory, Woods Hole, MA, USA, <sup>4</sup>Department of Applied Chemistry and Biotechnology, Okayama University of Science, Okayama, Japan, <sup>5</sup>SAISEI MIRAI Clinic Kobe, Kobe, Japan, <sup>6</sup>SBI Pharmaceuticals Co., Ltd., Kobe, Japan
- P13-09 [O3-39] 3-O-Hexylglyceryl ascorbate suppresses melanogenesis through the inhibition of melanosome transfer**  
 ○ Yushi Katsuyama<sup>1</sup>, Norihisa Taira<sup>1</sup>, Sayaka Nakamura<sup>1</sup>, Hitoshi Masaki<sup>2</sup>, Masato Yoshioka<sup>1</sup>  
<sup>1</sup>SEIWA KASEI CO., LTD, Osaka, Japan, <sup>2</sup>School of Bioscience and Biotechnology, Tokyo University of Technology, Tokyo, Japan
- P13-10 [O3-40] Transient receptor potential cation channel 3 (TRPC3) regulates tumor proliferation and migration of BRAF wild type human malignant melanoma**  
 ○ Kayoko Oda<sup>1</sup>, Masanari Umemura<sup>2</sup>, Itaru Sato<sup>2</sup>, Akane Nagasako<sup>2</sup>, Chiaki Oyamada<sup>2</sup>, Mayumi Katsumata<sup>2</sup>, Rina Nakakagi<sup>2</sup>, Masatoshi Narikawa<sup>2</sup>, Taisuke Akimoto<sup>2</sup>, Makoto Ohtake<sup>2</sup>, Yukie Yamaguchi<sup>1</sup>, Michiko Aihara<sup>1</sup>, Yoshihiro Ishikawa<sup>2</sup>  
<sup>1</sup>Department of Environmental Immuno-Dermatology, Yokohama City University Graduate School of Medicine, <sup>2</sup>Cardiovascular Research Institute, Yokohama City University Graduate School of Medicine

- P13-11 [O3-41] Subcellular localization of tyrosinase R77Q, H211Y and P431L mutants in lentivirus transfected HeLa cells**  
○ Ayako Teramae<sup>1</sup>, Yui Kobayashi<sup>1</sup>, Kazuyoshi Fukai<sup>1</sup>, Hiroyuki Kunimoto<sup>2</sup>, Koichi Nakajima<sup>2</sup>, Daisuke Tsuruta<sup>1</sup>  
<sup>1</sup>Dermatology, Osaka City University, <sup>2</sup>Immunology, Osaka City University
- P13-12 [O3-42] Effect of riluzole, caffeine, forscolin, and rolipram on melanomagenesis in metabotropic glutamate receptor 1 transgenic mouse**  
○ Yoko Funasaka<sup>1</sup>, Abdel-Daim Mohamed<sup>2</sup>, Hidehisa Saeki<sup>1</sup>, Chikako Nishigori<sup>2</sup>  
<sup>1</sup>Department of Dermatology, Nippon Medical School, <sup>2</sup>Department of Dermatology, Kobe University Graduate School of Medicine
- P13-13 [O3-43] Impact of skin color on phenotypes of dyschromatosis symmetrica hereditaria and Aicardi-Goutières syndrome 6 caused by ADAR1 mutations**  
○ Michihiro Kono<sup>1</sup>, Fumihiko Matsumoto<sup>2</sup>, Yasuhiro Suzuki<sup>2</sup>, Mutsumi Suganuma<sup>1</sup>, Hiroto Saito<sup>3</sup>, Yasutomo Ito<sup>4</sup>, Sakuhei Fujiwara<sup>5</sup>, Shinichi Moriwaki<sup>6</sup>, Kazuhiko Matsumoto<sup>7</sup>, Naomichi Matsumoto<sup>3</sup>, Yasushi Tomita<sup>1</sup>, Kazumitsu Sugiura<sup>1</sup>, Masashi Akiyama<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Nagoya University Graduate School of Medicine, Nagoya, Japan, <sup>2</sup>Department of Pediatric Neurology, Osaka Medical Center and Research Institute for Maternal and Child Health, Izumi, Japan, <sup>3</sup>Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan, <sup>4</sup>Division for Medical Research Engineering, Nagoya University Graduate School of Medicine, Nagoya, Japan, <sup>5</sup>Department of Dermatology, Oita University Faculty of Medicine, Yufu, Japan, <sup>6</sup>Department of Dermatology, Osaka Medical College, Takatsuki, Japan, <sup>7</sup>Department of Dermatology, Shinshu University School of Medicine, Matsumoto, Japan
- P13-14 [O3-44] Peroxisome proliferator-activated receptor gamma coactivator-1 $\alpha$  in melanoma**  
○ Ying Yi Lu<sup>1,2</sup>, Chun Ching Lu<sup>3</sup>, Chieh Hsin Wu<sup>2,4</sup>  
<sup>1</sup>Department of Dermatology, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan, <sup>2</sup>Graduate Institute Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan, <sup>3</sup>Department of Orthopedics, Taipei Veterans General Hospital, Taipei, Taiwan, <sup>4</sup>Division of Neurosurgery, Department of Surgery, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung, Taiwan
- P13-15 [O3-45] Analysis of NY-ESO-1 cancer/testis antigen expression in Japanese malignant melanoma patients**  
○ Mami Momose, Munenari Itoh, Yoshimasa Nobeyama, Hidemi Nakagawa  
The Department of Dermatology, The Jikei University school of Medicine, Tokyo, Japan
- P13-16 [O3-46] Novel imaging and quantification methods for the evaluation of disease severity in vitiligo and chemical leukoderma**  
○ Masahiro Hayashi<sup>1</sup>, Ken Okamura<sup>1</sup>, Yuta Araki<sup>1</sup>, Masami Suzuki<sup>2</sup>, Tomoyo Tanaka<sup>2</sup>, Yutaka Hozumi<sup>1</sup>, Shoko Nakano<sup>1</sup>, Junko Yoshizawa<sup>1</sup>, Masukazu Inoue<sup>2</sup>, Tamio Suzuki<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Yamagata University School of Medicine, Yamagata, Japan, <sup>2</sup>Japan Tissue Engineering Co., Ltd.
- P13-17 [O3-47] Immunological analysis of the patients with vitiligo vulgaris and rhododendronl-induced leukoderma**  
○ Noriko Arase<sup>1</sup>, Atsushi Tanemura<sup>1</sup>, Lingli Yang<sup>1</sup>, Hui Jin<sup>2</sup>, Megumi Nishioka<sup>1</sup>, Fei Yang<sup>1</sup>, Yumi Aoyama<sup>4</sup>, Tadahiro Suenaga<sup>2,3</sup>, Hisashi Arase<sup>2,3</sup>, Ichiro Katayama<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Graduate School of Medicine, Osaka University, Osaka, Japan, <sup>2</sup>Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, <sup>3</sup>Laboratory of Immunochemistry, WPI Immunology Frontier Research Center, Osaka University, <sup>4</sup>Kawasaki hospital, Kawasaki medical school
- P13-18 [O3-48] Dynamic visualization of dendritic cells in the skin from patients with vitiligo or rhododendrol-induced leukoderma**  
○ Fei Yang, Mari Wataya-Kaneda, Lingli Yang, Atsushi Tanemura, Ichiro Katayama  
Department of Dermatology, Course of Integrated Medicine, Graduate School of Medicine, Osaka University
- P13-19 [O3-49] Endoplasmic reticulum stress in melanocytes in hypomelanosis of Ito**  
○ Naoki Oiso, Akira Kawada  
Department of Dermatology, Kindai University Faculty of Medicine

## Late Breaking Abstract

- L-01 [O2-56] DERMOSCOPE: DERMAVISION WITH BRILLANCE**  
○ Krishnakant B Pandya  
Consultant Dermatologist, The Rejuveneclinic, Rajkot, INDIA
- L-02 [O1-46] Distinct wave patterns of ERK MAPK activation control epidermal proliferation and migration in vivo**  
○ Toru Hiratsuka, Fiona M Watt  
King's College London, Centre for Stem Cells and Regenerative Medicine
- L-03 [O1-47] Selective alteration of hemidesmosomal antigens in lichen sclerosus skin: an immunohistochemical study on confocal laser scanning microscope**  
○ Natsuko Utsunomiya, Noritaka Oyama, Takenao Chino, Akira Utsunomiya, Minoru Hasegawa  
Department of Dermatology, Faculty of Medical Sciences, University of Fukui, Fukui, Japan

- L-04 [O3-50] Repeated application of different types of haptens drives immunologically distinct chronic contact hypersensitivity**  
 ○ Tae-Gyun Kim<sup>1,2</sup>, Jeyun Park<sup>1,2</sup>, Sung Hee Kim<sup>2</sup>, Minseok Lee<sup>2</sup>, Jae Won Lee<sup>2</sup>, Hae-Jin Lee<sup>2</sup>, Min-Geol Lee<sup>1,2</sup>  
<sup>1</sup>BK21 Project for Medical Science, Yonsei University College of Medicine, Seoul, Korea, <sup>2</sup>Cutaneous Biology Research Institute, Department of Dermatology, Yonsei University College of Medicine, Seoul, Korea
- L-05 [O1-48] Local cortisol activation is involved in EGF-induced immunosuppression**  
 ○ Sayaka Matsumura<sup>1</sup>, Mika Terao<sup>2</sup>, Satoshi Itami<sup>2</sup>, Ichiro Katayama<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Osaka University Graduate School of Medicine, <sup>2</sup>Department of Regenerative Dermatology, Osaka University Graduate School of Medicine
- L-06 [O1-49] Dermokine  $\beta/\gamma$  deficiency causes the selective impairment of epidermal barrier function in mice**  
 ○ Akira Utsunomiya<sup>1</sup>, Takenao Chino<sup>1</sup>, Atsushi Tokuriki<sup>1</sup>, Vu Huy Loung<sup>1</sup>, Noritaka Oyama<sup>1</sup>, Kiyoshi Higashi<sup>2</sup>, Koichi Saito<sup>2</sup>, Minoru Hasegawa<sup>1</sup>  
<sup>1</sup>Department of Dermatology, University of Fukui, Fukui, Japan, <sup>2</sup>Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd., Osaka, Japan
- L-07 [O2-57] Ambrisentan moderately, but not significantly, improved impaired wound healing by bleomycin treatment in mice**  
 ○ Masato Ishikawa, Toshiyuki Yamamoto  
 Department of Dermatology, Fukushima Medical University
- L-08 [O3-51] Enhancement of macrophage functions by flavonoid glucuronides via deconjugation and agonism for nuclear estrogen receptors in macrophages**  
 ○ Atsushi Kaneko<sup>1</sup>, Setsuya Aiba<sup>2</sup>, Kenshi Yamasaki<sup>2</sup>  
<sup>1</sup>Tsumura Research Laboratories, Tsumura & Co., Ibaraki, Japan, <sup>2</sup>Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan
- L-09 [O3-52] Loss of epidermal PLC $\gamma$ 1 induced sebaceous gland hyperplasia and sparse hair**  
 ○ Takatsugu Fukuyama<sup>1</sup>, Chiho Toyoda<sup>1</sup>, Yoshikazu Nakamura<sup>1,2,3</sup>, Kiyoko Fukami<sup>1,3</sup>  
<sup>1</sup>Laboratory of Genome and Biosignals, School of Life Sciences, Tokyo University of Pharmacy and Life Sciences, <sup>2</sup>PRIME, AMED, <sup>3</sup>AMED-CREST
- L-10 [O1-50] Adiponectin inhibits melanogenesis through a novel pathway of AMPK/CREB regulated transcriptional coactivator**  
 Seunghyun Bang<sup>1</sup>, Kwang Hee Won<sup>1</sup>, Hye-Rim Moon<sup>1</sup>, ○ Hanju Yoo<sup>2</sup>, Youngsup Song<sup>2</sup>, Sung Eun Chang<sup>1</sup>  
<sup>1</sup>Department of Dermatology, Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea, <sup>2</sup>Department of Biomedical Sciences, University of Ulsan College of Medicine, Asan Institute for Life Sciences, Asan Medical Center, Seoul, Korea
- L-11 [O2-58] Effects of a novel PPAR $\delta$  agonist NCP-1046 on the wound healing in animal models**  
 ○ Toshitake Hirai, Takaichi Hamano, Tomio Yamakawa  
 Nippon Chemiphar Co., Ltd.
- L-12 [O1-51] HSP47, a collagen-specific chaperone protein, is a limiting factor for type I collagen secretion in aged skin**  
 ○ MinJu Pyo<sup>1</sup>, Jun Sang Park<sup>1</sup>, Young Hun Lee<sup>1</sup>, Dong Hun Lee<sup>2</sup>, Jin Ho Chung<sup>2</sup>, Seung-Taek Lee<sup>1</sup>  
<sup>1</sup>Department of Biochemistry, College of Life Science and Biotechnology, Yonsei University, Seoul, Republic of Korea, <sup>2</sup>Department of Dermatology, Seoul National University College of Medicine, Seoul, Republic of Korea
- L-13 [O1-52] Expression of tenascin-C is down-regulated during intrinsic skin aging**  
 ○ Jun Sang Park<sup>1</sup>, Young Hun Lee<sup>1</sup>, Dong Hun Lee<sup>2</sup>, Jin Ho Chung<sup>2</sup>, Seung-Taek Lee<sup>1</sup>  
<sup>1</sup>Department of Biochemistry, College of Life Science and Biotechnology, Yonsei University, Seoul, Republic of Korea, <sup>2</sup>Department of Dermatology, Seoul National University College of Medicine, Seoul, Republic of Korea
- L-14 [O1-53] Leucine-rich alpha-2-glycoprotein 1 modulates expression of matrix metalloproteinase-1 and type 1 collagen in human dermal fibroblasts**  
 ○ So Yun Ahn<sup>1</sup>, Dong Hun Lee<sup>2</sup>, Jin Ho Chung<sup>2</sup>, Seung-Taek Lee<sup>1</sup>  
<sup>1</sup>Department of Biochemistry, College of Life Science and Biotechnology, Yonsei University, Seoul, Republic of Korea, <sup>2</sup>Department of Dermatology, Seoul National University College of Medicine, Seoul, Republic of Korea
- L-15 [O3-53] Evaluation of 14 Thai herbs with free radical scavenging activity and enzyme inhibitory behavior**  
 ○ Moragot Chatatikun<sup>1</sup>, Anchalee Chiabchalard<sup>2</sup>  
<sup>1</sup>Ph.D. Program in Clinical Biochemistry and Molecular Medicine, Department of Clinical Chemistry, Faculty of Allied Health Sciences, Chulalongkorn University, Bangkok, Thailand, <sup>2</sup>Center for Excellence in Omics-Nano Medical Technology Development Project, Department of Clinical Chemistry, Faculty of Allied Health Sciences, Chulalongkorn University, Bangkok, Thailand
- L-16 [O1-54] Basal cell carcinoma response to imiquimod is associated with the ratio of Gli1/Gli3 expression**  
 ○ Yukihiko Kato<sup>1,2</sup>, Ayano Kanzaki<sup>1,3</sup>, Yoshihiro Umebayashi<sup>2</sup>, Ryoji Tsuboi<sup>3</sup>  
<sup>1</sup>Department of Dermatology, Tokyo Metropolitan Tama Medical Center, <sup>2</sup>Department of Dermatology, Tokyo Medical University Hachioji Medical Center, <sup>3</sup>Department of Dermatology, Tokyo Medical University

- L-17**  
**[O3-54]**      **TPA inhibits melanoma growth through inactivation of STAT3 through protein tyrosine phosphatases**  
○ Tetsushi Iwasaki<sup>1,2,3</sup>, Miwa Yamauchi<sup>1</sup>, Zhu Liang<sup>2</sup>, Ayano Itai<sup>3</sup>, Masanobu Sakaguchi<sup>4</sup>, Taiki Nagano<sup>1</sup>, Shinji Kamada<sup>1,2,3</sup>, Masahiro Oka<sup>4</sup>  
<sup>1</sup>Biosignal Research Center, Kobe University, <sup>2</sup>Department of Biology, Graduate School of Science, Kobe University, <sup>3</sup>Department of Biology, Faculty of Science, Kobe University, <sup>4</sup>Divisions of Dermatology, Faculty of Medicine, Tohoku Medical and Pharmaceutical University
- L-18**  
**[O1-55]**      **The expression of serine protease inhibitors are induced by TNF- $\alpha$  and IL-17A in skin inflammatory diseases**  
○ Satoru Sugihara, Shin Morizane, Saeko Sugimoto, Mina Kobashi, Keiji Iwatsuki  
Department of Dermatology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences
- L-19**  
**[O3-55]**      **Can skin microbes predispose you to eczema?**  
Kern Rei Ng<sup>1</sup>, Angeline Tay<sup>2</sup>, Chanhao Li<sup>1</sup>, Amanda Ng<sup>1</sup>, Bani Kaur Suri<sup>3</sup>, Sri Anusha Matta<sup>3</sup>, Colin Wong<sup>2</sup>, Andreas Wilm<sup>1</sup>, Birgit Lane<sup>2</sup>, Fook Tim Chew<sup>3</sup>, Niranjan Nagarajan<sup>1</sup>, ○ John Common<sup>2</sup>  
<sup>1</sup>Genome Institute of Singapore, <sup>2</sup>Institute of Medical Biology, <sup>3</sup>National University of Singapore
- L-20**  
**[O1-56]**      **E7 protein of cutaneous human papillomavirus causing warts can attenuate the expression of viperin in human keratinocytes**  
○ Hyeon Soo Lee, Ji Hyun Lee, Young Min Park  
Department of Dermatology, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea
- L-21**  
**[O3-56]**      **The effect of Rosa Roxburghii extract on imparting relief from sun induced irritation and inflammation**  
S Takayama<sup>1</sup>, R Sapna<sup>2</sup>, R Shilpakar<sup>2</sup>, M. Sachdev<sup>2</sup>, ○ A Iddamalghoda<sup>1</sup>  
<sup>1</sup>Ichimaru Pharcos Co., Ltd, Gifu, Japan, <sup>2</sup>MS Clinical Research Pvt. Ltd, Bangalore, India