Program

Monday, November 14 (Day 1)

8:30-9:30  Registration

9:30-9:40  Welcoming Address by Hironobu Fujiwara

Session 1: Epithelial structure and function
Chair: Yoshiaki Hirako

9:40-10:10  S1-1  
Spatiotemporal orchestration of epidermal cell turnover based on Kelvin’s tetrakaidecahedron cell shape  
Akiharu Kubo (Keio University School of Medicine, Japan)

10:10-10:30  S1-2*  
Initiation of cornification is regulated by Ca\(^{2+}\) and pH in isolated mouse stratum granulosum cells  
Takeshi Matsui (RIKEN Center for Integrative Medical Sciences, Japan)

10:30-11:00  S1-3  
Epithelium - an intelligent tissue  
Hisao Honda (Kobe University Graduate School of Medicine, Japan)

11:00-11:20  Coffee Break

Keynote Lecture I
Chair: Daisuke Nanba

11:20-12:10  K1-1  
TBA  
Yann Barrandon (EPFL, Switzerland, Singapore A-STAR, Singapore)

12:10-13:10  Lunch

*Selected Talks
Session 2: Organization of functional units I
Chair: Emi Nishimura

13:10-13:40  S2-1
Melanosome transfer from melanocytes to keratinocytes is mediated by plasma membrane vesicles
Yoshiko Takahashi (Kyoto University, Japan)

13:40-14:00  S2-2*
Visible light activates hair follicle stem cells through a neural circuit initiated from intrinsically photosensitive retinal ganglion cells
Sung-Jan Lin (National Taiwan University, Taiwan)

14:00-14:30  S2-3
Hair follicle epidermal stem cells define a niche for tactile sensation
Hironobu Fujiwara (RIKEN Center for Developmental Biology, Japan)

14:30-14:40  Short Break

Session 3: Organization of functional units II
Chair: Mariko Moriyama

14:40-15:10  S3-1
Diversity of organ-specific vascular patterning
Yoshiaki Kubota (Keio University, Japan)

15:10-15:40  S3-2
Thermoregulatory role of juxtapositional aligned arterial and venous vessels in the skin
Hiroyasu Kidoya (Osaka University, Japan)

15:40-16:10  Group Photo & Coffee Break

*Selected Talks
Session 4: Therapeutics
Chair: Akiharu Kubo

16:10-16:40  S4-1
Stratum corneum as the forefront barrier of the skin
Masayuki Amagai (Keio University School of Medicine, RIKEN Center for Integrative Medical Sciences, Japan)

16:40-17:10  S4-2
Live imaging of skin immune responses
Kenji Kabashima (Kyoto University, Japan)

Poster Session
17:10-18:00  Odd numbered posters
18:00-18:50  Even numbered posters

18:50-20:50 Banquet at CDB Salon

*Selected Talks
Tuesday, November 15 (Day 2)

Session 5: Maintenance, regeneration and aging I
Chair: Ken Natsuga

9:30-10:00  S5-1
A mechanistic principle of multilayered structure formation from single human epidermal stem cells
Daisuke Nanba (Tokyo Medical and Dental University, Japan)

10:00-10:20  S5-2*
Defining the stem cell lineages in the mouse inter-follicular epidermis
Aiko Sada (University of Tsukuba, Japan)

10:20-10:50  S5-3
Mathematical modeling of the barrier function of the stratum corneum
Masaharu Nagayama (Hokkaido University, Japan)

10:50-11:10  Coffee Break

Keynote Lecture II
Chair: Hironobu Fujiwara

11:10-12:00  K2-1
Evo-Devo of skin appendages: Multiplicity as the body Surface tactics
Cheng-Ming Chuong (University of Southern California, USA)

12:00-13:00  Lunch

*Selected Talks
Session 6: Maintenance, regeneration and aging II  
Chair: Hironobu Fujiwara

13:00-13:30  
S6-1  
**Stem cellsorchestrates hair follicle aging program**  
Emi K. Nishimura (Tokyo Medical and Dental University, Japan)

13:30-13:50  
S6-2*  
**Stem and transit-amplifying cells orchestrate abdominal skin expansion during pregnancy**  
Ryo Ichijo (Kyoto University, Japan)

13:50-14:20  
S6-3  
**Melanocyte stem cells in regeneration and cancer**  
Mayumi Ito (New York University School of Medicine, USA)

14:20-14:40  
Coffee Break

Session 7: New technologies  
Chair: Daisuke Nanba

14:40-15:10  
**Spatial propagation of radial ERK activity distribution (SPREAD) in the epidermis**  
Michiyuki Matsuda (Kyoto University, Japan)

15:10-15:40  
**Functional regeneration of hair follicle and integumentary organ system**  
Takashi Tsuji (RIKEN Center for Developmental Biology, Japan)

15:00-15:10  
Closing Remarks by Emi Nishimura

*Selected Talks