

**The Fifth Bizan Immunology Symposium at University of Tokushima (BISUT5)
“Immune System Development, Deviation, and Regulation”**

Date:

Thursday 3rd March and Friday 4th March 2016

Venue:

Nichia Medical Hall, Kuramoto Campus, University of Tokushima

Guest speakers:

Graham Anderson (University of Birmingham)

Toshiyuki Fukada (Tokushima Bunri University)

Yoko Hamazaki (Kyoto University)

Norimitsu Kadowaki (Kagawa University)

Christoph Klein (University of Munich)

Tomohiro Kurosaki (Osaka University)

Yoichi Maekawa (Gifu University)

Hiroshi Ohno (RIKEN Center for Integrative Medical Sciences, Yokohama)

Masahiro Ono (Imperial College London)

Satoshi Uematsu (Chiba University)

Host organizers:

Naozumi Ishimaru (Graduate School of Oral Sciences)

Taku Okazaki (Institute for Genome Research)

Mitsuru Matsumoto (Institute for Enzyme Research)

Yoshiyuki Minegishi (Institute for Genome Research)

Tatsuya Saitoh (Institute for Enzyme Research)

Tohru Sakai (Graduate School of Nutrition and Bioscience)

Yousuke Takahama (Institute for Genome Research)

Tetsuo Yamazaki (Graduate School of Pharmaceutical Sciences)

Koji Yasutomo (Graduate School of Medical Sciences)

Contact:

Immunology Program at University of Tokushima (IPUT)

3-18-15 Kuramoto, Tokushima 770-8503, Japan

Phone: +81-88-633-9452

E-mail: takahama@genome.tokushima-u.ac.jp

Sponsored by:

Strategic Project for Innovative Research “IPUT”, University of Tokushima

Co-sponsored by:

MEXT Scientific Research on Analysis and Synthesis of Multidimensional Immune Organ Network
Joint Usage Research Center, Institute for Enzyme Research, University of Tokushima

Thursday 3rd March

13:00-13:10 *Welcome remarks by Sumihare Noji*

Opening remarks by Yousuke Takahama

Session 1. Thymus development

Chaired by Yousuke Takahama

13:10-13:40

Graham Anderson (Birmingham)
Regulation of T-cell development by thymic microenvironments

13:40-14:10

Yoko Hamazaki (Kyoto)
Medullary thymic epithelial stem cells ensuring lifelong T-cell tolerance

14:10-14:25

Junko Morimoto (Tokushima)
Novel Aire-dependent tolerogenic lineage(s) of medullary thymic epithelial cells expressing Ly6 family protein

14:25-14:40

Izumi Ohigashi (Tokushima)
A Foxn1-binding cis-regulatory element for optimal T cell generation

Group photo & coffee

Session 2. Immune regulation

Chaired by Koji Yasutomo

15:10-15:40

Tomohiro Kurosaki (Osaka)
Selection mechanisms of germinal center cells into memory compartment

15:40-16:10

Yoichi Maekawa (Gifu)
Notch controls the maintenance of memory CD4 T cells in health and disease

16:10-16:25

Takumi Maruhashi (Tokushima)
Context-dependent inhibition of antigen-specific T cell activation by LAG-3

16:25-16:40

Xuesong Qian (Chiba)
ICOS-ligand B7-H2, expressed on human type II alveolar epithelial cells, plays a role in pulmonary defense

Break

Session 3. Human immunity

Chaired by Mitsuru Matsumoto

17:00-17:30

Christoph Klein (Munich)
Human immunity - learning from rare patients with primary immunodeficiency disorders

17:30-17:50

Yoshiyuki Minegishi (Tokushima)
Molecular pathogenesis of hyper-IgE syndrome

Isuien dinner

*Hosted by Sumihare Noji
Chaired by Naozumi Ishimaru*

Friday 4th March

Session 4. Gut and nutrition

Chaired by Tohru Sakai

9:00-9:30

Hiroshi Ohno (Yokohama)
Function and differentiation of intestinal epithelial M cells

9:30-10:00

Satoshi Uematsu (Chiba)
Acute and chronic radiation injury in small intestine

10:00-10:15

Tohru Sakai (Tokushima)
Sudachitin, polymethoxylated flavone from Citrus sudachi, regulates antigen-specific immune responses

10:15-10:30

Jun Nishida (Tokushima)
Regulation of Peyer's patch by PTPRK

Coffee

Session 5. Immune homeostasis

Chaired by Taku Okazaki

10:50-11:20

Masahiro Ono (London)
Time-dependent dynamics of regulatory T cell differentiation in vivo

11:20-11:50

Toshiyuki Fukada (Tokushima)
Zinc signaling: An emerging player for epithelial tissue homeostasis

11:50-12:10

Tetsuo Yamazaki (Tokushima)
ER as a potential therapeutic target for protein aggregation disease

12:10-12:25

Kou Motani (Tokushima)
Cyclic GMP-AMP-dependent and -independent cytokine induction by self-DNA

Lunch with students (12:30-13:30)

Organized by Yasusei Kudo & Kensuke Takada

Session 6. Disease regulation

Chaired by Tetsuo Yamazaki

13:30-14:00

Norimitsu Kadowaki (Kagawa)
Combination of targeted therapy and immunotherapy for cancer

14:00-14:15

Takeshi Wada (Tokushima)
Exacerbation of oxazolone-induced atopic dermatitis in mouse model of hyper-IgE syndrome

14:15-14:30

Hitoshi Nishijima (Tokushima)
Augmented expression of the autoimmune regulator (AIRE) induces paradoxical development of polymyositis-like autoimmunity in mice

14:30-14:45

Tomoyuki Kondo (Tokushima)
Acceleration of tumor growth due to dysfunction in M1 macrophages and enhanced angiogenesis in an animal model of autoimmune disease