The Fourth Bizan Immunology Symposium at University of Tokushima (BISUT4) "Immune System Development, Deviation, and Regulation"

Date: Thursday 29 January and Friday 30 January 2015

Venue:

Fujii Memorial Hall, Kuramoto Campus, University of Tokushima

Guest speakers: Hisashi Arase (Osaka) Isaac Chiu (Boston) Sidonia Fagarasan (Yokohama) Yoshinori Fukui (Fukuoka) Kenya Honda (Tokyo) Yoichiro Iwakura (Tokyo) Gabriel Núñez (Michigan) Takashi Saito (Yokohama) Jonathan Sprent (Sydney)

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) 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)

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Sponsored by: Strategic Project for Innovative Research "iPUT", University of Tokushima

Co-sponsored by:

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

Thursday 29 January

13:00-13:10 *Opening remarks by Yousuke Takahama*

Session 1. TCR-MHC and immune system

Chaired by Tetsuo Yamazaki

13:10-13:40	Jonathan Sprent (Sydney) TCR tuning and self tolerance
13:40-14:10	Takashi Saito (Yokohama) Spacial regulation of T cell activation at Immune synapse
14:10-14:30	Yousuke Takahama (Tokushima) Positive selection conditions TCR responsiveness in T cells
14:30-15:00	Hisashi Arase (Osaka) Cellular misfolded proteins complexed with MHC class II molecules are targets for autoimmune diseases
Short talks 1	Chaired by Il-mi Okazaki
15:00-15:10	Kyoko Masuda (Kyoto) Segregation of γδ T cell progenitors prior to TCRβ chain gene rearrangement independently of TCR-mediated signals
15:10-15:20	Izumi Ohigashi (Tokushima) Adult thymus medullary epithelium is maintained and regenerated by lineage restricted cells rather than bipotent progenitors
15:20-15:30	Erdenezaya Odkhuu (Aichi) The search for endogenous ligand of RP105/MD1 receptor complex on B cells

Group photo & coffee

Session 2. Autoimmune mechanisms

Chaired by Mitsuru Matsumoto

16:00-16:30	Yoshinori Fukui (Fukuoka) A novel mechanism controlling Aire protein expression in the thymus
16:30-16:50	Mitsuru Matsumoto (Tokushima) Transgenic Aire expression at the ectopic sites to elucidate the unique function of Aire
16:50-17:20	Yoichiro Iwakura (Tokyo) Pathogenic mechanisms of rheumatoid arthritis revealed by animal models
17:20-17:40	Koji Yasutomo (Tokushima) Genetic dissection of autoinflammatory disorders
Short talks 2	Chaired by Tohru Sakai
17:40-17:50	Aoi Akitsu (Tokyo) IL-1 receptor antagonist-deficient mice develop autoimmune arthritis due to an intrinsic defect in IL-17-producing gamma delta T cells
17:50-18:00	Yumiko Nishikawa (Tokushima) Dysregulation of IgE homeostasis in hyper-IgE syndrome
18:00-18:10	Lynett Danks (Tokyo) RANKL expressed on synovial fibroblasts is primarily responsible for bone erosions during joint inflammation
18:10-18:20	II-mi Okazaki (Tokushima) Genetic reconstitution of autoimmune diseases in mice.

Dinner at Isuien (19:00-21:00) Hosted by Sumihare Noji, Vice President, University of Tokushima

MC by Naozumi Ishimaru

Friday 30 January

Session 3. Inflammation and regulation

Chaired by Koji Yasutomo

09:00-09:30	Gabriel Núñez (Michigan) Sensing pathogenic and commensal bacteria via the inflammasomes in the gut
09:30-10:00	Sidonia Fagarasan (Yokohama) Regulation of gut microbiota by Foxp3+ T cells and IgA
10:00-10:20	Yoshiyuki Minegishi (Tokushima) Molecular mechanisms and therapeutic approaches to hyper-IgE syndrome

Coffee

Session 4. Immune defense

Chaired by Taku Okazaki

10:40-11:10	Isaac Chiu (Boston) The role of nociceptive sensory neurons in neuro-immune modulation and host defense
11:10-11:40	Kenya Honda (Tokyo) Regulation of T cells by the gut microbiota
11:40-12:00	Taku Okazaki (Tokushima) Regulation of autoimmunity by immuno-inhibitory receptors
12:00-12:20	Tetsuo Yamazaki (Tokushima) Manipulation of the ER: a novel strategy against protein deposition disease
Short talks 3	Chaired by Yoshiyuki Minegishi
12:20-12:30	Takashi Kanaya (Yokohama) IL-22BP affects the properties of the follicle-associated epithelium of Peyer's patches through inhibiting IL-22 signaling
12:30-12:40	Takahiro Furukawa (Tokushima) Delta1 regulates CD4T cell survival

	Hiroshi Kawano (Tokushima) Aire expression in medullary thymic epithelial cells is conditional
12:50-13:00	Tomoyuki Kondo (Tokushima) Crosstalk between tumor immunity and autoimmunity
13:00-13:10	Tohru Sakai (Tokushima) Soy isoflavone regulates immune responses

Lunch with students (13:30-14:30)

Organized by Yasusei Kudo & Kensuke Takada