



9th International Veterinary Immunology Symposium August 16-20, 2010, Tokyo

<http://www.frc.a.u-tokyo.ac.jp/>

Faculty of Agriculture, The University of Tokyo
1-1-1 Yayoi, Bunkyo-ku, Tokyo 113-8657, Japan Tel:+81-3-5841-5196, FAX: -5196
The Institute of Medical Science, The University of Tokyo
4-6-1 Shirokanedai, Minato-ku, Tokyo 108-8639, Japan Tel:+81-3-5449-5497, FAX: -5379

Regular Workshops

The Local Organizing Committee selected these topics from poster abstracts. All the speaker in 9th IVIS Workshop must prepare poster to explain their story.

1, Innate immunity: Chair: Takashi Onodera, Yasunobu Matsumoto (Day 3 Aug 18, 11:00 am- 12:30 , Room A)

11:00-11:10 Livia Moscani, Italy “Innate immunity of pigs under field conditions”

11:10-11:20 Kazue Ohishi , Japan “Cetacean-specific residue of Toll like receptor 4 (TLR4) and possible interaction with lipopolysaccharide (LPS)”

11:20-11:30 Eric S Pringle, Canada “Bos Taurus Cr2 encodes for complement receptors by alternative splicing”

11:30-11:40 Rumi Tsunashima , Japan “Nitric oxide-independent early parasite-killing of *Leishmania major* in cytokine-treated murine macrophage”

11:40-11:50 Mei-Li Wu, Taiwan “Characteristics of dectin-1 and expression of dectin-1/CR3 modulated by fungal soluble beta-glucans in vivo”

11:50-12:00 Chun-Li Wang, Taiwan “Chemical characteristics of soluble beta-glucans extracted from fungi and their immunomodulatory activities”

12:00-12:10 Yoshie Kametani, Japan “Analysis of hematologic progenitor cells of common marmoset”

2, Immune regulation: Chair: Hirohide Uenishi (Day 3 Aug 18, 11:00 am- 12:30, Room B)

11:00-11:10 Marek Sinkora, Czech Republic “Development and maturation of porcine B cells in circulation”



9th International Veterinary Immunology Symposium August 16-20, 2010, Tokyo

<http://www.frc.a.u-tokyo.ac.jp/>

Faculty of Agriculture, The University of Tokyo
1-1-1 Yayoi, Bunkyo-ku, Tokyo 113-8657, Japan Tel:+81-3-5841-5196, FAX: -5196
The Institute of Medical Science, The University of Tokyo
4-6-1 Shirokanedai, Minato-ku, Tokyo 108-8639, Japan Tel:+81-3-5449-5497, FAX: -5379

11:10-11:20 Akira Matsuda, Japan “Inhibition of NF-kappa B activity restored glucocorticoid sensitivity in lymphocytes and mast cells”

11:20-11:30 Sanipa Sursdhat, Thailand “ The role of IL-10 on the development of CD4⁺CD25⁺FoxP3⁺ cells from PRRSV-infected monocyte-derived dendritic cells”

11:30-11:40 Julie D Schmied, Canada “Alteration of immune response bias by defined bacterial components in a neonatal swine model of allergy”

11:40-11:50 Karren M Plain, Australia “Role of indoleamine 2,3-dioxygenase (IDO) in the response to *Mycobacterium avium subspecies paratuberculosis* infection”

11:50-12:00 Bettina Wagner, USA “Induction of interleukin-4 production in neonatal IgE⁺ cells after crosslinking of maternal IgE”

12:00-12:10 Tomoko Ogawa, Japan “Structure of the swine genomic region carrying V_H, D_H and J_H gene segments of IgH”

12:00-12:20 Hiroki Shinkai, Japan “TLR4 polymorphism observed in *Sus scrofa* and impairment of LPS signaling by one of the detected SNPs”

3, Genetic Control of Immune Responses: Chair: Yoko Aida, Asako Ando (Day 3 Aug 18, 11:00 am- 12:30, Room C)

11:00-11:10 Tomi T. Tsuda, Japan “Genome diversity in the MHC region of genguin species and its biological significance in evolution and immune-response”

11:10-11:20 Wilhelm Gerner, Austria “Characterization of SLA polymorphism reveals a breed-specific constriction of SLA gene diversity in Pietrain pigs”

11:20-11:30 Keith T. Ballingall, UK “Progress in population the sheep MHC immuno-polymorphism database”



9th International Veterinary Immunology Symposium August 16-20, 2010, Tokyo

<http://www.frc.a.u-tokyo.ac.jp/>

Faculty of Agriculture, The University of Tokyo
1-1-1 Yayoi, Bunkyo-ku, Tokyo 113-8657, Japan Tel:+81-3-5841-5196, FAX: -5196
The Institute of Medical Science, The University of Tokyo
4-6-1 Shirokanedai, Minato-ku, Tokyo 108-8639, Japan Tel:+81-3-5449-5497, FAX: -5379

11:30-11:40 Takeya Morozumi, Japan “Polymorphism of porcine CD163 involved in interaction of the porcine reproductive and respiratory syndrome virus”

11:40-11:50 Guillermo Giovambattista, Argentina “Advances on gene-specific genotyping method for equine MHC polymorphisms”

11:50-12:00 Taku Miyasaka, Japan “Diversity of BoLA class II DRB3 and DQA1 alleles among different herds of Japanese Black and Holstein cattle in Japan”

12:00-12:10 Shin-nosuke Takeshima, Japan “Distribution of major histocompatibility complex *DRB3* allelic frequencies in the South American breeds of cattle”

12:10-12:20 Heloisa M Rutigliano, USA “Trophoblast MHC class I expression is associated with immune-mediated abortion of bovine fetus produced by cloning”

12:20-12:30 Yoko Aida, Japan “BoLA-DR molecules play a key role in bovine leukemia virus-induced lymphoma”

4, Wild animal immunology, fish immunology: Chair: Teruyuki Nakanishi (Day 3 Aug 18, 11:00 am- 12:30, Room D)

11:00-11:10 Fumio Takizawa, Japan “Phenotypic differences between non-mucosal and mucosal CD8alpha positive T-cells in rainbow trout (*Oncorhynchus mykiss*)”

11:10-11:20 Fischer Uwe, Germany “Interbranchial lymphoid tissue (ILT) of salmonid gills – an ancient form of mucosa-associated lymphoid tissue (MALT)”

11:20-11:30 Hideaki Toda, Japan “Conserved perforin/ granzyme-mediated cytolytic mechanism in killing by CD8 positive T cells in teleost”

11:30-11:40 Hiroshi Kodama, Japan “Protection against fish infectious diseases by oral administration of a co-cultured product of bacterial and yeast”



9th International Veterinary Immunology Symposium August 16-20, 2010, Tokyo

<http://www.frc.a.u-tokyo.ac.jp/>

Faculty of Agriculture, The University of Tokyo
1-1-1 Yayoi, Bunkyo-ku, Tokyo 113-8657, Japan Tel:+81-3-5841-5196, FAX: -5196
The Institute of Medical Science, The University of Tokyo
4-6-1 Shirokanedai, Minato-ku, Tokyo 108-8639, Japan Tel:+81-3-5449-5497, FAX: -5379

11:40-11:50 Subramaniam Renuka, USA “Decreased clearance of *M. haemolytica* from the lungs of bighorn sheep is primarily due to lower number of functional PMNs”

11:50-12:00 Subramaniam Renuka, USA “Identification and characterization of MHC class II DRB extracellular domain alleles in a captive bighorn sheep herd”

12:00-12:10 Subramaniam Srikumaran, USA “*Mannheimia haemolytica* infection in bighorn sheep and domestic sheep: transfer of passive immunity”

12:10-12:20 Shiro Murata, Japan “Regulation of the interferon gamma expression by an oncoprotein of Marek’s disease virus in wild waterfowls and chickens”

12:20-12:30 Livia Moscati, Italy “Innate immunity of free ranging and farmed wild boar”

5, Immune response to virus infections: Chair: Chieko Kai (Day 4, Aug 19, 14:00 pm- 16:00 pm, Room B)

14:00-14:10 Bettina Wagner, USA “Infection of PBMC with neuropathogenic equine herpesvirus type 1 Ab4 strain down-regulated interferon-alpha production”

14:10-14:20 Andrzej Kowalczyk, Poland “Serological surveillance for swine influenza antibodies in Poland”

14:20-14:30 Tufaria Mussa, Spain “Influenza virus infection or poly :IC stimulates up regulate surface markers and cytokine secretion on porcine DC”

14:30-14:40 Simon P Graham, UK “Vaccine-induced T cell IFN-gamma responses correlate with rapid protection against classical swine fever viruses”

14:40-14:50 Yukiko Sassa, Japan “The anti-PrP antibody production detected at terminal stage of scrapie-affected mice”



9th International Veterinary Immunology Symposium August 16-20, 2010, Tokyo

<http://www.frc.a.u-tokyo.ac.jp/>

Faculty of Agriculture, The University of Tokyo
1-1-1 Yayoi, Bunkyo-ku, Tokyo 113-8657, Japan Tel:+81-3-5841-5196, FAX: -5196
The Institute of Medical Science, The University of Tokyo
4-6-1 Shirokanedai, Minato-ku, Tokyo 108-8639, Japan Tel:+81-3-5449-5497, FAX: -5379

14:50-15:00 Takushi Nomura, Japan “Vaccine-based SIV control in a group of Burmese rhesus macaques sharing a MHC class I haplotype”

15:00-15:10 Mariluz Arainga, Japan “Characterization of bovine leukemia virus Tax protein and its mutants”

15:10-15:20 Rosane Oliveira, USA “Knock-down of the BLV Tax gene and transcripition profiling reveal regulatory pathways of cell transformation”

15:20-15:30 Sanipa Suradhat, Thailand “The effects of PRRSV-N protein on induction of IL-10 in porcine pulmonary alveolar macrophages”

15:30-15:40 Maria Montoya, Spain “EU H1N1 swine influenza virus cross-protects pigs from an infection with the 2009 pandemic H1N1 human influenza virus”

15:40-15:50 Ryoyo Ikebuchi, Japan “Molecular characterization of immune inhibitory factors PD-1/PD-L1 in bovine leukemia virus-infected cattle”

6, New strategies for disease prevention: Chair: Shigeki Inumaru (Day 4, Aug 19, 14:00 pm- 16:00 pm, Room C)

14:00-14:10 Eva Nagy, Canada “Multimerized scFV neutralize bovine herpes virus-1 with higher efficacy”

14:10-14:20 Yoshio Kiku, Japan “Intramammary infusion of rbGM-CFS that have potential as a therapeutic agent for subclinical mastitis”

14:20-14:30 Tomoko Tajima, Japan “Application of liposome-entrapped vaccine against canine monocytic ehrlichiosis”

14:30-14:40 Takehisa Hebishima, Japan “The effects of fusogenic polymer-modified liposome as a carrier of antigenic proteins”



9th International Veterinary Immunology Symposium August 16-20, 2010, Tokyo

<http://www.frc.a.u-tokyo.ac.jp/>

Faculty of Agriculture, The University of Tokyo
1-1-1 Yayoi, Bunkyo-ku, Tokyo 113-8657, Japan Tel:+81-3-5841-5196, FAX: -5196
The Institute of Medical Science, The University of Tokyo
4-6-1 Shirokanedai, Minato-ku, Tokyo 108-8639, Japan Tel:+81-3-5449-5497, FAX: -5379

14:40-14:50 Wilhelm Gerner, Austria “A VP1-epitope FMDV contained in hepatitis B core virus-like particles elicits strong immune responses in cattle”

14:50-15:00 Sevierine Cauchard, France “Co-immunization with lactococci secreting the VapA protein of *R. Rqui* and leptin elicits a protective immune responses”

15:00-15:10 Bent Aasted, Denmark “CAF01 adjuvant increases the protection conferred by a commercially available influenza split vaccine in a ferret model”

15:10-15:20 Yasumobu Matsumoto, Japan “Generation of *Ascaris suum* protective AS16 protein-producing rice seeds as a plant-based edible vaccine”

15:20-15:30 Elisa Crisci, Spain “Calicivirus-like particles modulate porcine dendritic cells in vitro”

15:30-15:40 Yoshihiro Shimoji, Japan “*Erysipelothrix rhusiopathiae* strains as vectors for mucosal vaccination”

7, Immunology of food animal species: Chair: Naotaka Ishiguro (Day 4, Aug 19, 14:00 pm- 16:00 pm, Room D)

14:00-14:10 Nicola Lacetera, Italy “Relationship between responses to LPS, genetic characteristics and incidence of infections in periparturient dairy cows”

14:10-14:20 Massimo Amadori, Italy “Metabolic stress and interleukin-6 responses in high-yielding periparturient dairy cows”

14:20-14:30 Azad K Kaushik, Canada “Restricted VJ recombinations encode the most lambda-light chain repertoire in cattle”

14:30-14:40 Anna Ekman, Finland “B-cell development in bovine fetus proceeds via a pre-B like cell in bone marrow and lymph node”



9th International Veterinary Immunology Symposium August 16-20, 2010, Tokyo

<http://www.frc.a.u-tokyo.ac.jp/>

Faculty of Agriculture, The University of Tokyo
1-1-1 Yayoi, Bunkyo-ku, Tokyo 113-8657, Japan Tel:+81-3-5841-5196, FAX: -5196
The Institute of Medical Science, The University of Tokyo
4-6-1 Shirokanedai, Minato-ku, Tokyo 108-8639, Japan Tel:+81-3-5449-5497, FAX: -5379

14:40-14:50 Rikako Ariyoshi, Japan “Study on vaccination programs against various serotypes of infectious bronchitis virus”

14:50-15:00 Corinna Seldak, Austria “Phenotypic and functional characterization of porcine gamma/ delta T cells”

15:00-15:10 Yoichi Takahagi, Japan “Selective breeding for immune traits in a swine grandparent farm”

15:10-15:20 Javier Dominguez, Spain “Chemokine receptor expression in porcine monocyte subsets”

15:20-15:30 Fumiya Kawahara, Japan “Acquired immunity against bovine *Eimeria* is species-specific but not cross-protective”

8, Mucosal immunity: Chair: Hiroshi Kodama (Day 4, Aug 19, 16:30 pm- 18:00 pm, Room B)

16:30-16:40 Kana Tozaki, Japan “Monoclonal antibodies to the follicle-associated epithelium in cat Peyer’s patch”

16:40-16:50 Eva H Wattrang, Sweden “Secretory IgA and IgG in horse saliva with special reference to equine dental caries”

16:50-17:00 Fumihiro Gen, Japan “The site of infection influences the performance of Leish-111f intranasal immunization in *Leishmania major* infection”

17:00-17:10 Vesna Melkebeek, Belgium “Polymer degradation influences the adjuvant effect of Gantrez nanoparticles on oral vaccination of pigs and mice with F4”

17:10-17:20 Natsumi Takeyama, Japan “Oral delivery of enteric-coated TGE vaccine protects piglets from TGE by passive transfer of maternal antibodies”



9th International Veterinary Immunology Symposium August 16-20, 2010, Tokyo

<http://www.frc.a.u-tokyo.ac.jp/>

Faculty of Agriculture, The University of Tokyo
1-1-1 Yayoi, Bunkyo-ku, Tokyo 113-8657, Japan Tel:+81-3-5841-5196, FAX: -5196
The Institute of Medical Science, The University of Tokyo
4-6-1 Shirokanedai, Minato-ku, Tokyo 108-8639, Japan Tel:+81-3-5449-5497, FAX: -5379

9, Immune responses to bacterial infections: Chair: Tsutomu Sekizaki, Eiichi Momotani (Day 4, Aug 19, 16:30 pm- 18:00 pm, Room C)

16:30-16:40 Kumudika de Silva, Australia “Immune profile and faecal shedding of *Mycobacterium avium paratuberculosis* vary with lesion severity in Johne’s disease”

16:40-16:50 Vidya Bhardwaj, Australia “Innate and adaptive immunity in sheep with footrot”

16:50-17:00 Ramon A Juste, Spain “Age and immunopathological forms of paratuberculosis in slaughtered cattle”

17:00-17:10 Tae Ho Kim, Korea “Analyzing the role of *Bartonella henselae* and *DadA* as a pathogen causing cat scratch disease and bacillary angiomatosis”

17:10-17:20 Erika Abe, Japan “Brucella-infection in the testes of common minke whales (*Balaenoptera acutorostrata*) inhabiting western North Pacific”

17:20-17:30 Ulla Riber, Denmark “IFN-gamma and TNF- α producing CD4+ T-cells in the blood after *Mycobacterium hyosynoviae* challenge of vaccinated pigs”

17:30-17:40 Daisy Vanrompay, Belgium “Ovotransferrin, a natural anti-microbial protein against *Chlamydophila psittaci* in poultry: from the lab to the farm”

17:40-17:50 Bryce M Buddle, New Zealand “Evasion of protective immune responses by *Mycobacterium avium subsp. Patatuberculosis* in the gut tissues of cattle”

17:50-18:00 Botond Siklodi, Hungary “*Coxiella burnetii* phase-1 vaccine induces Th1 while phase-2 vaccine induces Th2 immune response in mice”



9th International Veterinary Immunology Symposium August 16-20, 2010, Tokyo

<http://www.frc.a.u-tokyo.ac.jp/>

Faculty of Agriculture, The University of Tokyo
1-1-1 Yayoi, Bunkyo-ku, Tokyo 113-8657, Japan Tel:+81-3-5841-5196, FAX: -5196
The Institute of Medical Science, The University of Tokyo
4-6-1 Shirokanedai, Minato-ku, Tokyo 108-8639, Japan Tel:+81-3-5449-5497, FAX: -5379

10. Immunology of companion animals: Chair: Masahiro Sakaguchi (Day 4, Aug 19, 16:30 pm- 18:00 pm, Room D)

16:30-16:40 Shinpei Kawarai, Japan “Potential immunostimulant of K-type CpG-ODNs enhanced the cell proliferation and IL-6 mRNA expression in canine B cells”

16:40-16:50 Masato Fujimura, Japan “Flow cytometric analysis of lymphocyte proliferative responses to food allergens in dogs with food allergy”

16:50-17:00 Tadashi Iwasaki, Japan “Low doses lambda-carrageenan intake activates contact hypersensitivity caused by picryl chloride-repeated application”

17:00-17:10 Falko Steinbach, UK “Analysis of a normalized equine cDNA library using deep sequencing”

17:10-17:20 Samaneh Yavari, Iran “Early stage diagnosis and therapeutic aspects of canine asthma as an important pat allergy”