



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

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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

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List of speakers and chairs for Session and Special symposium

I-1, Innate immunity against infection (Day 2, August 17, 9:30-11:30, Hall A)

Chairs: Takashi Onodera, Artur Summerfield

9:30-10:30 Kaisho Tsuneyasu, Japan “How dendritic cells respond to nucleic acid adjuvants”

10:30-11:30 Jayne Hope, UK “Innate immune interactions of bovine WC1+ gamma delta T cells”

I-2, Host defence against intracellular pathogens (Day 2, August 17, 16:00-17:30, Hall A)

Chairs: Gregers Jungersen, Jayne Hope

16:00-16:30 Richard Whittington, Australia “Mycobacterial infection- lessons from tuberculosis and paratuberculosis”

16:30-17:00 Masao Mitsuyama, Japan “Lysteriolysin O, a key factor of *Listeria monocytogenes* in the induction of immune responses of the infected host”

17:00-17:30 Yolanda Revilla, Spain “Regulation of host translational machinery and immune evasion by African swine fever virus”

I-3, Immune regulation (Day 4, August 19, 9:30-11:30, Hall A)

Chairs: Bruce Wilkie, Hirohide Uenishi

9:30-10:00 Joan Lunney, USA “Immune pathways regulating swine responses to porcine reproductive and respiratory syndrome virus infections”



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10:00-10:30 Eman Hamza, Switzerland “Characterization of equine CD4+CD25+ lymphocytes expressing Treg transcription factor FoxP3 and their role in insect bite hypersensitivity”

10:30-11:00 Tobias Kaeser, Austria “Porcine regulatory T cells: mechanisms and T-cell targets of suppression”

11:00-11:30 Bruce Wilkie, Canada “Practical immunoregulation: neonatal anti-allergic prophylaxis in a pig model of food allergy”

I-4, New strategies for disease prevention (Day 5, August 20, 13:00-14:30, Hall A)

Chairs: Richard Whittington, Paul Wood

13:00-13:30 Ramon Juste, Spain “Slow infection control by vaccination: paratuberculosis”

13:30-14:00 Mark Estes, USA “Regulation of humoral response in cattle”

14:00-14:30 Shigeki Inumaru, Japan “Current developments of advanced veterinary biologics in Japan”

II-1, Mucosal immunity (Day 2, August 17, 11:30-13:00, Hall A)

Chairs: Ecic Cox, Hiroshi Kodama

11:30-12:00 Eric Cox, Belgium “How far are we away from oral dead vaccines? Insights from oral vaccinations with F4 and F18 from *E. coli* in the pig”

12:00-12:30 Jean-Piere Scheerlinck, Australia “Mucosal vaccination: lung versus nose”

12:30-13:00 Renukaradhya J Gourapura, USA “Mucosal vaccine to protect against porcine reproductive and respiratory syndrome: a new perspective”



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II-2, Immune responses to virus infections (Day 2, August 17, 11:30-13:05, Hall B)

Chairs: Federico Zuckermann, Chieko Kai

11:30-12:00 Federico Zuckermann, USA “Overview of studies on the disparate levels of protective immunity elicited by porcine herpesvirus versus arterivirus vaccines”

12:00-12:30 Chieko Kai, Japan “Viral proteins affect host responses in Nipah virus infection”

12:30-12:45 Hana M Weingartl, Canada “Effect of Nipah virus infection on cells of porcine immune system”

12:45-13:05 Artur Summerfield, Switzerland “Factors involved in aberrant interferon responses during virus infection”

II-3, Immune responses to bacterial infections (Day 2, August 17, 17:30-19:00, Hall A)

Chair: Ramon Juste, Tsutomu Sekizaki

17:30-18:00 Gregers Jungersen, Denmark “Measuring cell-mediated immunity against bacterial infection”

18:00-18:30 Sergio Costa Oliveria, Brazil “The role of innate immune receptors in resistance of susceptibility to *Burucella abortus* infection”

18:30-19:00 Masahisa Watarai, Japan “Interferon- γ promotes abortion due to *Burucella* infection in pregnant mice”

II-4, Immune responses to protozoa, helminthes and ectoparasites (Day 2, August 17, 17:30-19:00, Hall B)



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Chairs: Adrian Smith, Misao Onuma

17:30-18:00 Adrian Smith, UK “Protective antigen discovery using parasite genetics”

18:00-18:30 Itabaraja Vas Junior, Brazil “*Phipicephalus microplus* embryo proteins as a target for tick vaccine”

18:30-18:40 Alessandra Torina, Italy “Expression of tick protective antigen, subolesin, in naturally infected ticks”

18:40-18:50 Sofia E Magnusson, Sweden “Immune response at experimental *Eimeria tenella* infection of naïve and immune chicken”

18:50-19:00 Satoru Konnai, Japan “Pro-inflammatory cytokine storm in *Theileria parva* infected cattle”

II-5, Immunology of food animal species (Day 3, August 18, 9:30-10:30, Hall A)

Chairs: Elizabeth Glass, Isabel Santos

9:30-10:00 Elizabeth Glass, UK “Living with enemy: functional genomics of host resistance traits to a protozoan parasite in cattle”

10:00-10:15 Sean Wattedgera, UK “Defining the role of Indoleamine 2,3-dioxygenase in the pathogenesis of ovine chlamydial abortion”

10:15-10:30 Andrey P Lage, Brazil “*Campylobacter fetus* subsp *venerealis* stimulates CXCL8 mRNA in infected epithelial”

II-6, Genetic control of immune responses (Day 3, August 18, 9:30-11:00, Hall B)

Chairs: Shirley Ellis, Yoko Aida

9:30-10:00 Shirley Ellis, UK “The impact of MHC diversity on cattle T cell responses”



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10:00-10:30 Claire Rogel-Gaillard, France “A genetic and functional analysis of innate and adaptive immunity in pigs”

10:30-11:00 Isabel Santos, Brazil “Global gene expression profiling of tick-infested skin in contrasting phenotypes of infestations in bovines”

II-7, Immunology of Companion animals (Day 5, August 20, 9:30-11:00, Hall A)

Chairs: Ken-ichi Masuda, Toshiro Iwasaki

9:30-10:00 Greg Dean, USA “Feline immunology: Lessons learned through the study of feline immunodeficiency virus infection”

10:00-10:30 Koji Nishifuji, Japan “Autoantibodies against desmosomal components in canine pemphigus”

10:30-11:00 Meret F Ricklin, Switzerland “Characterization of canine dendritic cells in healthy, atopic and non-allergic inflamed skin”

II-8, Pathogen recognition molecules and host defense (Day 5, August 20, 9:30-11:00, Hall B)

Chairs: Joan Lunney, Falko Steinbach

9:30-10:00 Andrew G Bean, Australia “The immune responses to influenza virus in the chicken”

10:00-10:30 Hirohide Uenishi, Japan “Polymorphisms in pattern recognition receptors and their relationship to infections in pigs”

10:30-11:00 George K Mutwiri, Canada “Immune mechanisms and therapeutic potential of Toll-like receptor agonists”



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Foot and mouth disease special workshop (Day 3, August 18, 10:30- 12:30, Hall A)

Chairs: Bryan Charleston, Takashi Onodera

10:30-10:50 Wilai LinchongSubongkoch, Thailand “Foot-and-Mouth disease in Asian countries”

10:50-11:10 Aurtur Summerfield, Switzerland “Innate immune response against foot and mouth disease”

11:10-11:30 Bryan Charleston, UK “Interaction of foot-and-mouth disease virus with specific cells of the immune system”

11:30-11:50 William T Golde, USA “Development of new vaccine approaches in formation and delivery for foot-and-mouth disease”

11:50-12:10 Shiro Yoshimura, Japan “Current outbreak of foot-and-mouth disease in cattle and pigs”

12:10-12:30 General discussion

VIC Toolkit Workshop (Day 3, August 18, 11:00-12:30, Hall B)

11:00-11:15 Gary Entrican, UK “Introduction and summary of BBSRC/RERAD Toolbox”

11:15-11:30 Joan Lunney , USA “Swine Toolkit progress for the US Veterinary Immune Reagent Network”

11:30-11:45 Bettina Wagner, USA “The US Veterinary Immune Reagent Network: Update on reagents for the horse”



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11:45-12:00 Wilhelm. Gerner, Austria “Sensitive detection of Foxp3 expression in bovine peripheral blood lymphocytes by flow cytometry”

12:00-12:15 Andrey P Lage, Brazil “Identification of monoclonal antibodies that cross-react with cytokines from cattle”

12:15-12:30 Panel discussion, future directions and closing remarks

Infectious Disease in animal and food safety in East Asia

Chairs: Takashi Onodera (Day 4, August 19, 13:00-14:00, Hall A)

Gianluigi Zanusso, Italy “Advances in atypical bovine spongiform encephalopathies”

Chairs: Yong Ho Park, Yasumobu Matsumoto (Day 4, August 19, 14:00-17:30, Hall A)

14:00-14:30 Hyun Joo Sohn, Korea “Chronic wasting disease (CWD) in deer and food safety”

14:30-15:00 Tsutomu Sekizaki, Japan “Streptococcus infections”

15 :00 15 :30 Hye Cheong Koo, Korea “Recent research on ante mortem diagnosis and immunopathogenesis of bovine tuberculosis”

15:30-16:00 Young Ju Lee, Korea “Comparison of in vitro virulence in Campylobacter spp. Isolated from chickencarcasses”

16:30-17:00Yong Ho Park, Korea “Immunomodulation of bovine mammary gland by staphylococcal enterotoxin superantigen”



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17:30-18:00 General discussion

VIC comparative MHC workshop (Day 4, August 19, 14:00-18:00, Hall B)

14:00-14:10 Opening address: Dr. Keith Ballingall

An Overview on Progress in Populating the IPD-MHC Databases

14:10-15:10 Comparative MHC -Polymorphism and Structure

Chair: Shirley Ellis, Hidetoshi Inoko

14:10-14:25 Takashi Shiina, Japan “Comparative genome analysis of the MHC regions in various species”

14:25-14:40 Kazuyoshi Hosomichi, Japan “Re-sequencing of the human MHC region toward to biomedical application for various animal genomes”

14:40-14:55 Keith Ballingall, UK “Trans-Species Polymorphism and Selection in the MHC class II *DRA* Genes of Domestic Sheep”

14:55-15:10 Shirley Ellis, UK “MHC class I diversity in intensively selected dairy cattle”

15:10-16:10 Disease Associations and Immunological Reactions

Chair: Keith Ballingall, Yoko Aida

15:10-15:25 Claire Rogel-Gaillard, France “Analysis of the non classical MHC class I genes in the pig species”

15:25-15:40 Asako Ando, Japan “Association of SLA-class II types and biological traits in selectively bred Landrace pigs”

15:40-15:55 Chris Davies, Japan “The Next Generation of MHC Typing: High Resolution Roche 454 Pyrosequencing Reveals Bovine MHC Haplotype Structure”

15:55-16:10 Shin-nosuke Takeshima, Japan “Bovine MHC class II and infectious diseases”



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Break for refreshments: 20 minutes

16:30-17:45 Functional Approach

Chair: William T. Golde, Teruyuki Nakanishi;

16:30-16:45 Johannes M. Dijkstra, Japan “MHC in salmonid fish and its linkage associations with disease resistance and social behavior”

16:45-17:00 Chun Xia, China “MHC Class I Presentation and Regulation by IFN in Bony Fish and Chicken”

17:00-17:15 Lasse Pedersen, Denmark “CTL epitopes of FMDV determined by NetMHCpan-driven predictions of SLA/peptide binding, confirmed by tetramer staining”

17:15-17:30 Junzo Norimine, USA “Bovine MHC class II tetramers”

17:30-17:45 Tetsuro Matano, Japan “Vaccine-based SIV control in a group of Burmese rhesus macaques sharing a MHC class I haplotype”

Closing remarks and thanks: Keith Ballingall, Yoko AIDA