

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Immunity to Veterinary Pathogens: Informing Vaccine Development (A3)

January 20-25, 2015 • Keystone Resort • Keystone, Colorado, USA

Scientific Organizers: William T. Golde, Wendy C. Brown and Ivan Morrison

Supported by the Directors' Fund

Abstract & Scholarship Deadline: September 29, 2014 / Abstract Deadline: October 21, 2014 / Discounted Registration Deadline: November 19, 2014

TUESDAY, JANUARY 20

Registration

WEDNESDAY, JANUARY 21

Keynote Address

Peter C. Doherty, University of Melbourne, Australia
Vaccines Then and Now: A Perspective on Analyzing the Immune Response to Vaccination

The Role of gamma/delta T Cells in Innate and Acquired Immunity

*Wendy C. Brown, Washington State University, USA
Mark Jutila, Montana State University, USA
Enhancing the Innate Lymphocyte Response with Plant Derived Polyphenols and Polysaccharides
Randy E. Sacco, National Animal Disease Center, USDA, USA
Influence of gamma/delta T cells on the Immunopathology of Bovine Respiratory Syncytial Virus (bRSV) infection
Janice C. Telfer, University of Massachusetts, USA
Function of the WC1 Proteins on gamma/delta T Lymphocytes of Cattle
Short Talk(s) Chosen from Abstracts

Workshop 1: High-Throughput Antigen Identification for Vaccine Formulations

*Vish Nene, International Livestock Research Institute, Kenya
Short Talks Chosen from Abstracts

Innate Responses to Infection

*William T. Golde, Plum Island Animal Disease Center, USA
Artur Summerfield, Institute of Virology and Immunoprophylaxis, Switzerland
Plasmacytoid Dendritic Cells in the Early Response to Infection
John Hammond, Pirbright Institute, UK
Genetics of Natural Killer Cell Receptors in Cattle
David Hume, University of Edinburgh, UK
Role of Macrophages in Innate Immunity Following Infection
Short Talk Chosen from Abstracts

Poster Session 1

THURSDAY, JANUARY 22

Mucosal Immune Responses to Infection

*Peter C. Doherty, University of Melbourne, Australia
Linda J. Saif, Ohio State University, USA
Using the Gnotobiotic Pig Model to Evaluate Enteric Viral Vaccines
Massimo Amadori, Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia-Romagna, Italy
Immunoprophylaxis in Intensive Farming Systems: The Way Forward
David Pascual, University of Florida, USA
Mucosal Vaccines for Brucellosis
Armin Saalmüller, Veterinärmedizinische Universität Wien, Austria
Immune Response of Porcine CD4+ T Cells Following Infection with Influenza or PRRSV
Short Talk(s) Chosen from Abstracts

Immune Responses to Swine and Avian Influenza

*Armin Saalmüller, Veterinärmedizinische Universität Wien, Austria
Kristien Van Reeth, Universiteit Ghent, Belgium
Cross-Protection Studies with Diverse Swine Influenza Viruses: A Case for Revising Cross-Protective Immunity between Influenza A Viruses
Maria Montoya, Centre de Recerca en Sanitat Animal, Spain
Immune Response to Influenza Infection of Swine
Jesus Hernandez, Centro de Investigación en Alimentación y Desarrollo, Mexico
H1N1 and H5N1 Transmission in Swine and Birds
Short Talk Chosen from Abstracts

Poster Session 2

FRIDAY, JANUARY 23

Analysis of Immune Responses to Vector-Borne Pathogens

Ivan Morrison, University of Edinburgh, UK
CD8 T Cells Mediate Protective Immunity in Cattle that Survive Theileria parva Infection
Jayne Raper, Hunter College, USA
Introducing Genetic Resistance for Trypanosomiasis into Sheep and Cattle
Robert H. Mealey, Washington State University, USA
Identifying Determinants of Protective Immunity Against Theileria equi
Wendy C. Brown, Washington State University, USA
Dysfunctional CD4 T-Cell Responses during Anaplasma Marginale Infection
Short Talk(s) Chosen from Abstracts

Workshop 2: Assessment of Adaptive Immune Responses in Analyzing Vaccine Performance

Short Talks Chosen from Abstracts

Immunodeficiency Virus Infections in Veterinary Species

Simon M. Barratt-Boyes, University of Pittsburgh, USA
Immunopathology of Simian Immunodeficiency Virus Infection
Brian J. Willett, University of Glasgow Vet School, UK
Host and Viral Factors in Immunity to Feline Immunodeficiency Virus
Speaker to be Announced
Short Talk Chosen from Abstracts

Poster Session 3

SATURDAY, JANUARY 24

Immune Responses to Mycobacterium Infection

H. Martin Vordermeier, Animal Health & Veterinary Laboratories Agency, UK
Protective Antigens of M. bovis

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Paul M. Coussens, Michigan State University, USA
Regulatory T Cell Response of Cattle to Infection with Mycobacterium avium, Subspecies, Paratuberculosis

Jayne C. Hope, University of Edinburgh, UK
Innate Immune Responses in Mycobacterial Disease

Ray Waters, National Animal Disease Center, USA
Vaccine Approaches for Bovine Tuberculosis: Correlates of Protection and Relevance to Human Tuberculosis

Short Talk(s) Chosen from Abstracts

Veterinary Vaccines for the 21st Century

*Ivan Morrison, University of Edinburgh, UK
William T. Golde, Plum Island Animal Disease Center, USA
Rapid Identification of Effective Adaptive Immune Responses Following Vaccination of Cattle and Swine for Foot-and-Mouth Disease Virus (FMDV)

Tim Connelley, University of Edinburgh, UK
Tracking T Cell Responses on a Clonal Level Following T. parva Vaccination of Cattle

Vish Nene, International Livestock Research Institute, Kenya
Design of Recombinant Vaccines for East Coast Fever (ECF) via Reverse Immunology

Short Talk Chosen from Abstracts

SUNDAY, JANUARY 25

Departure