Infectious Disease and One Health: Vaccines and Therapeutics

February 2, 2011

Location: Emory University, Rollins School of Public Health
Claudia Nance Rollins Building, Klamon Room (CNR 8030)
1518 Clifton Road Atlanta, Georgia 30322

Continental Breakfast from 8:00 – 8:45 am
Opening remarks 8:45 – 9:00 am
Seminar from 9:00 – 5:00 pm
Discussion and Networking 5:00 – 6:00 pm

Vaccine Dinner Club 6:00 – 8:15 pm (lecture by Peter Openshaw) in Claudia Nance Rollins Building Plaza and Auditorium

On February 2 2011, the British Consulate will host a collaborative one-day workshop to explore the topic of Infectious Disease and One Health: Vaccines and Therapeutics. This event will be held at Emory University, and will bring together UK experts with scholars from the Emory University Vaccine Center, The Center for Influenza Research and Surveillance (Emory, UGA), the Animal Health Research Center at the University of Georgia (UGA) and scientists from the US Centers for Disease Control and Prevention (CDC). Presentations will focus on disease intervention strategies for emerging infectious diseases at the animal–human–ecosystems interface, including latest developments in therapeutics and vaccines.

Welcome
Time: 8:45am-9:00am
Kerry Norton, Vice Consul, Science and Innovation, British Consulate General
Stefan Winkler, Life Science Sector Advisor for North America
UK Trade & Investment
Susan Shows, Senior Vice President, Georgia Research Alliance

Session Outline
Session 1: Vaccinating Animal Populations to Protect Human Health
Time: 9am-10:30am
Moderator:
Ben Beard, CDC
Speakers:
Alicia Anderson, CDC, topic: Q Fever as an Example of One Health
Donald Harn, UGA, topic: Vaccinating cattle for Schistosomiasis in China
Sally Cutler, University of East London, topic: One Health Control of Bacterial Zoonoses

Session 2: New Tools to Identify Pathogens and Patterns: What’s new in therapeutics and vaccines?
Time: 10:30am-12pm
Moderator: Eddie Ades CDC
Speakers:
Ralph Tripp, GRA, UGA, topic: Rapid, Sensitive and Selective Biodetection Based on Surface-Enhanced Raman Spectroscopy (SERS)
Stephen Gordon, Liverpool School of Tropical Medicine, UK, topic: Mucosal responses to pneumococcal carriage and infection
James Stewart, University of Liverpool, topic: Lessons from a natural model of gammaherpesvirus infection
Andrew L. Mellor, Medical College of Georgia, topic: Regulatory T cells: An unexpected source of help to prime CD8 T cell responses

Lunch 12pm – 12:45pm

Session 3: Human Immune Responses
Time: 1:00pm-3:00pm
Moderator: Ralph Tripp, GRA, UGA
Speakers:
Eddie Ades, CDC, topic: Augmented Passive Immune Therapy to Treat Fulminant Bacterial Infections
Peter Openshaw, Imperial College, topic: UK-wide studies of pandemic influenza and the role of host response in pathogenesis
Rafi Ahmed, Emory University topic: The intricacies of long-term immune memory
Maria Zambon, UK Health Protection Agency, topic: Susceptibility vs disease: Introduction of a new influenza virus into the human population

Break 3pm – 3:15pm

Session 4: Ecological Perspectives and Infectious Disease
Time: 3:15pm-5:00pm
Moderator: Darin Carroll, CDC, topic: Chasing Jenner’s Vaccine: Revisiting Cowpox Classification
Speakers:
Daniel Streicker, UGA, topic: Linking the enzootic persistence and cross-species emergence of bat rabies
Michael Begon, University of Liverpool, topic: Co-infection, susceptibility and survival in natural populations
Andrew Park, UGA, topic: Epidemiological modeling of influenza immune escape: from amino acids to populations
Ben Beard, CDC, topic: Plague ecology, prevention and control

General Discussion (with wine, beer, hors d'oeuvres)
Time: 5:00-6:00pm