

Thursday, November 2, 2006

Morning Plenary Session 3

***Francisella* Genomics, Proteomics, Genetics, and Pathogenesis**
**Chairs: Fran Nano, University of Victoria / Canada, and Åke Forsberg, Swedish
Defence Research Agency / Sweden**

- 8:30 - 9:30 University of Washington, USA
"A systems biology approach to *Francisella* 'Omics'"
- 8:30 - 8:50 Colin Manoil
"A comprehensive defined transposon mutant library
of *F. tularensis* subspecies *novicida*"
- 8:50 - 9:10 Dave Goodlett
"Proteome and lipid A characterization of
Francisella novicida"
- 9:10 - 9:30 Mitch Brittnacher
"Genome comparison studies of *F. tularensis* subspecies using
novicida U112 and *holarctica* FSC200"
- 9:30 - 10:00 Joe Petrosino
Baylor University, USA
"Pathogenomics of *Francisella tularensis*: old questions, new genomes"
- 10:00 - 10:30 Break
- 10:30 - 11:00 Åke Forsberg
Swedish Defence Research Agency, Sweden
"Relevance of Type II secretion and/or type IV pili in *Francisella* pathogenesis"
- 11:00 - 11:30 Karl Klose
University of Texas at San Antonio, USA
"The genetics of *Francisella tularensis* intracellular survival"
- 11:30 - 12:00 Anders Sjöstedt
Umea University, Sweden
"What is unique about type A strains of *Francisella tularensis*?"
- 12:00 - 1:30 Lunch

Thursday, November 2, 2006

Afternoon Workshop Sessions

Workshop Session 4: Human Infection, Epidemiology, and Ecology of Tularemia
Chairs: Mats Forsman, Swedish Defence Research Agency / Sweden, and Jeannine Petersen, CDC / USA

- 1:30 - 1:35 Chair's introduction
- 1:35 - 1:55 Duncan Colquhoun, National Veterinary Institute, Norway
"Characterisation of a novel *Francisella* sp. from farmed Atlantic cod, *Gadus morhua* L."
- 1:55 - 2:15 Henrick Eliasson, Orebro University Hospital, Sweden
"Dermatological manifestations in tularemia"
- 2:15 - 2:35 Kerstin Svensson, FOI NBC Defence, Sweden
"*Francisella tularensis* genotypes correlate with fine scale geographical data during a natural outbreak of human tularemia"
- 2:35 - 2:40 Summary, discussion, wrap up
- 2:40 - 2:55 Break

Workshop Session 5: Genomics, Proteomics, Genetics, and Pathogenesis
Chairs: Tom Kawula, University of North Carolina-Chapel Hill / USA, and Anders Johansson, Umeå University, Sweden

- 2:55 - 3:00 Chair's introduction
- 3:00 - 3:20 Jeff Barker, University of Texas at San Antonio, USA
"Characterization of secreted virulence factors in *Francisella tularensis*"
- 3:20 - 3:40 Tina Guina, University of Washington, USA
"Definition of *Francisella novicida* MglA proteoregulon"
- 3:40 - 4:00 David Weiss, Stanford University, USA
"*In vivo* negative selection screen identifies novel *Francisella* virulence genes"
- 4:00 - 4:20 Girija Ramakrishnan, University of Virginia, USA
"Identification of iron acquisition genes in *Francisella tularensis*"
- 4:20 - 4:40 Anna-Lena Forslund, Swedish Defence Research Agency, Sweden
"Characterization of the Type IV pili system of *Francisella tularensis*"
- 4:40 - 5:00 James Charity, Harvard Medical School, USA
"RNA polymerase-associated proteins control virulence gene expression in *Francisella tularensis*"
- 5:00 - 5:10 Summary, discussion, wrap up
- 6:00 - 7:30 Dinner
- 7:30 - 10:00 Poster Session B - Genomics, proteomics, genetics, and pathogenesis**

Friday, November 3, 2006

Morning Plenary Session 6

***Francisella* Host Response, Animal Models, Immunology, and Vaccines**
Chairs: Wayne Conlan, National Research Council / Canada, and Siobhán Cowley,
CBER – FDA / USA

- 8:30 - 9:00 Rick Titball
Defence Science and Technology Laboratory, United Kingdom
“Identification of immunogenic proteins of *F. tularensis* using a proteome chip”
- 9:00 - 9:30 Wangxue Chen
National Research Council, Canada
“Mouse model of oral infection with virulent Type A *Francisella*”
- 9:30 - 10:00 Tom Kawula
University of North Carolina-Chapel Hill, USA
“*Francisella tularensis* interactions with alveolar Type II epithelial cells”
- 10:00 - 10:30 Break
- 10:30 - 11:00 Jeff Frelinger
University of North Carolina-Chapel Hill, USA
“T cell responses and immunoevasion by *F. tularensis*”
- 11:00 - 11:30 Gary Klimpel
University of Texas Medical Branch at Galveston, USA
“LVS activation of human monocyte-derived dendritic cells”
- 11:30 - 12:00 Jorge Benach
Stony Brook University, USA
“The inflammatory infiltrate in the early hepatic lesions of mice infected with
Francisella tularensis could offer a clue to prognosis”
- 12:00 - 1:30 Lunch

Friday, November 3, 2006

Afternoon Workshop Session 7

Workshop: Host Response, Animal Models, Immunology, and Vaccines
Chairs: Rick Lyons, University of New Mexico / USA, and Dennis Metzger, Albany Medical College / USA

- 1:30 - 1:35 Chair's introduction
- 1:35 - 1:55 Peter Schuff-Werner, University of Rostock, Germany
"Phagocytosis and respiratory burst in human polymorphonuclear leukocytes after coinubation with wild and attenuated strains of different *Francisella tularensis* subspecies"
- 1:55 - 2:15 Bernard Arulanandam, University of Texas at San Antonio, USA
"The contribution of mast cell-derived IL-4 in innate defenses against pulmonary *Francisella tularensis* infection"
- 2:15 - 2:35 Roberto De Pascalis, CBER / US FDA, USA
"Characterization of interferon gamma producing cells in mice vaccinated with *Francisella tularensis* LVS"
- 2:35 - 2:55 Matthew Woolard, University of North Carolina-Chapel Hill, USA
"*Francisella tularensis* skews T cell responses by eliciting prostaglandin E2 from infected antigen presenting cells"
- 2:55 - 3:15 Emily Kampf, Colorado State University, USA
"Protective efficacy of sub-unit vaccines against aerosol challenge with *Francisella tularensis* Schu4"
- 3:15 - 3:45 Phil Felgner, UC Irvine School of Medicine, USA, on behalf of James Eyles, Defence Science and Technology Laboratory, UK
"An adjuvant combination for vaccination against virulent *F. tularensis*"
- Berkay Unal, UC Irvine School of Medicine, USA
"Profiling immunodominant antigens in adjuvanted *F. tularensis* vaccines with proteome microarrays"
- 3:45 - 4:00 Summary, discussion, wrap up
- 4:00 - 6:30 Poster Session C - Host response, animal models, immunology, and vaccines**
- 7:00 Conference Banquet**

Speaker: Dr. David Franz, D.V.M., Ph.D.
Vice president, Midwest Research Institute
Director, National Agricultural Biosecurity Center, KSU
Previously chief inspector, United Nations Special Commission,
biological warfare inspections

"tularensis, the other microbes and us.....in a shrinking world"

Saturday, November 4, 2006

Morning Plenary Session 8

***Francisella* Cell Biology and LPS Structure / Function**

Chairs: Anders Sjöstedt, Umeå University / Sweden, and Dan Clemens, University of California Los Angeles / USA

- 8:00 - 8:25 Dan Clemens
UCLA, USA
“Uptake and intracellular fate of O-antigen deficient *Francisella tularensis* in human macrophages”
- 8:25 - 8:50 Jean Celli
NIAID / RML, USA
“Determinants of *Francisella tularensis* intracellular cycle inside murine macrophages”
- 8:50 - 9:15 Yousef Abu Kwaik
University of Louisville, USA
“Exploitation of macrophages by *Francisella*”
- 9:15 - 9:40 Martha Furie
Stony Brook University, USA
“Pro-inflammatory components of *F. tularensis*”
- 9:40 - 10:05 John Gunn
Ohio State University, USA
“Identification of an orphan response regulator required for *Francisella* virulence”
- 10:05 - 10:30 Joann Prior
Defence Science and Technology Laboratory, United Kingdom
“*Francisella* LPS mutants”
- 10:30 - 10:40 Break

Workshop Session 9: Cell biology and LPS

Chairs: Martha Furie, Stony Brook University / USA, and Helena Lindgren, Umeå University / Sweden

- 10:40 - 10:45 Chair introduction
- 10:45 - 11:00 Lee-Ann Allen, University of Iowa, USA
“*Francisella tularensis* LVS evades killing by human neutrophils via inhibition of the respiratory burst and phagosome escape”
- 11:00 - 11:15 Nrusingh Prasad Mohapatra, Ohio State University, USA
“Construction and characterization of a *Francisella novicida* strain containing multiple acid phosphatase gene deletions”
- 11:15 - 11:30 Subhra Chakraborty, Stony Brook University, USA
“Assembly of type IV pili in *Francisella tularensis* and role in virulence”
- 11:30 - 11:45 Cheryl Ryder, Virginia Polytech, USA
“Comparative analysis of three O-antigen mutants of *Francisella tularensis*”
- 11:45 - 12:00 Meeting wrap up, and invitation to next meeting
- 12:00 - 1:30 Light lunch available, departure

1:15 – 5:30 Optional post-meeting opportunity: Bus tour of Martha’s Vineyard