CONFERENCE AGENDA

Sunday, January 30, 2010
(For guests of the Conference Hotel only)

Monday, January 31, 2010
08:00- 19:00     Registration and Information Desk Open
08:00- 09:00     Registration
09:00- 09:20     Welcome and Opening
                 F. Gray Handley, Associate Director for
                 International Research Affairs
                 National Institute of Allergy and Infectious Diseases (NIAID),
                 National Institutes of Health (NIH), Bethesda, Maryland, USA

WORKSHOP I : The NIH Extramural Grant Process
09:20- 10:50     NIH Grant Types, Funding Opportunities and Resources
                 Peter Jackson, Chief of AIDS Review Branch, Division of Extramural
                 Activities, NIAID, NIH, Bethesda, Maryland, USA
                 Successful Electronic Grant Application Submission
                 Annie Walker-Abbey, Scientific Review Officer, Microbiology Review
                 Branch, Division of Extramural Activities, NIAID, NIH, Bethesda,
                 Maryland, USA

        Strategies for Developing and Maintaining Scientific Collaborations
                 Peter Jackson, Chief of AIDS Review Branch, Division of
                 Extramural Activities, NIAID, NIH, Bethesda, Maryland, USA

SPONSORS AND CO-HOSTS
10:50-11:20  **BREAK**

11:20-12:00  **NIAID Research Opportunities Related to Bacterial Waterborne and Emerging Infectious Diseases, from a Project Officer Perspective and**

**NIAID /Division of Microbiology and Infectious Diseases (DMID) Research Opportunities - International Research in Infectious Diseases including AIDS Program (IRIDA)**

*Robert Hall, Program Officer, Division of Microbiology and Infectious Diseases, NIAID, NIH, Bethesda, Maryland, USA*

12:00-12:30  **Additional Funding Opportunities:**

**CRDF Global**

*Stacey Gomelsky, Program Manager, CRDF Global, Arlington, Virginia, USA*

12:30-13:00  **Wrap-up, All Speakers**

*Questions and Answers*

13:00-14:30  **LUNCH**

**WORKSHOP II: SURVEILLANCE OF WATERBORNE DISEASES**

14:30-17:30  **Surveillance of Waterborne Diseases**

*Eric Mintz, Team Lead, Global Water Sanitation and Hygiene Epidemiology, Waterborne Diseases Prevention Branch, National Center for Emerging, Zoonotic, and Infectious Diseases (NCEZID), Centers for Disease Control and Prevention (HHS/CDC), Atlanta, Georgia, USA*

*Marta Guerra, Epidemiologist, Bacterial Special Pathogens Branch, NCEZID, HHS/CDC, Atlanta, Georgia, USA*

- General background on surveillance
- Surveillance of waterborne diseases
- Waterborne disease surveillance in the USA
- Presentation of “case studies” - examples of detection and investigation of outbreaks of waterborne diseases of particular importance, including the cholera outbreak in Haiti, and how they were detected and investigated.
  - Cholera
  - Typhoid
  - Cryptosporidiosis
  - Leptospirosis
Ovine/Caprine Brucellosis: World Distribution and Control/Eradication Strategies in North Africa and the Middle East

Abdelali Benkirane, Professor, Agronomy and Veterinary Institute
Hassan II, Rabat, Morocco

• Discussion

17:30- 19:00 Poster Viewing

20:00 Dinner and Discussion (at the Hotel)

Tuesday, February 1, 2011

08:00- 19:00 Registration and Information Desk Open

08:00- 09:00 Registration

09:00- 10:00 Welcome and Opening

F. Gray Handley, Associate Director for International Research Affairs
National Institute of Allergy and Infectious Diseases (NIAID), National Institutes of Health (NIH), Bethesda, Maryland, USA

His Excellency Christos G. Patsalides,
Minister of Health of the Republic of Cyprus

Susan Delja, Economic/Commercial Officer
Embassy of the United States to the Republic of Cyprus

Konstantinos Makris, Assistant Professor
Cyprus International Institute for Environmental and Public Health
in association with Harvard School of Public Health
Cyprus University of Technology, Limassol, Cyprus

10:00- 10:30 BREAK

SESSION I: CHOLERA

Chair: Muhammad Zakaria
Deputy Executive Director, Jinnah Postgraduate Medical Center, Karachi, Pakistan
Rapporteur: Afsar Ali  
*Research Assistant Professor*  
*University of Florida at Gainesville, Florida, USA*

10:30- 10:50  **Phlogeography of Cholera: Seventh Pandemic Origin and Spread**  
*Judith Johnson, Research Professor of Pathology, University of Florida Emerging Pathogens Institute, Gainesville, Florida, USA*

10:50- 11:10  **Are Outbreaks of Cholera in Africa Related to High Impact Weather Events?**  
*Guillaume Constantin de Magny, Research Associate, University of Maryland Institutes for Advanced Computer Studies, College Park, Maryland, USA*

11:10- 11:30  **How Does *Vibrio cholerae* Get Dispersed Between Water Bodies?**  
*Malka Halpern, Senior Lecturer and Researcher, Department of Biology, University of Haifa - Oranim, Tivon, Israel*

11:30- 11:50  **Cholera Outbreaks in Sudan during 2005- 2006: Epidemiological and Bacteriological Profile of Cases**  
*Mubarak Mustafa El Karsany, Director, National Public Health Laboratory, Federal Ministry of Health, Khartoum, Sudan*

11:50- 12:10  **Molecular Characterization of *Vibrio cholerae* 01 El Tor Isolates from Iraq, 2000-2008**  
*John Klena, Laboratory Chief, International Emerging Infectious Disease Program, US Center for Disease Control and Prevention, Beijing, China*

12:10- 13:45  **LUNCH**

**SESSION I: CHOLERA Continued**

**Chair:** Saif AlGhais  
*Associate Professor, United Arab Emirates (UAE) University and Executive Director for Environment Protection and Development Authority, Ras Al Khaimah Government, UAE*

**Rapporteur:** Chris Waters  
*Assistant Professor, Michigan State University, East Lansing, Michigan, USA*

13:45- 14:05  **Emergence of Highly Virulent Strains of *Vibrio vulnificus* Isolated from Tilapia in Bangladesh**  
*Afsar Ali, Research Assistant Professor, University of Florida, Gainesville, Florida, USA*
14:05- 14:25  First Investigation of Pathogen *V. cholerae* in Ballast Water of Oil Loading Harbor Skhira -Trapsa (Tunisia – Central Mediterranean Sea)
   Monia El Bour, Researcher, Laboratoire de Bactériologie–Pathologie, National Institute of Marine Sciences and Technologies, Salammbô, Tunisia

14:25- 14:45  Molecular Mechanisms of Non-coding Bacterial Small RNAs that Control Virulence and Biofilms in the Vibrio cholerae Quorum Sensing System
   Brian Hammer, Assistant Professor, Georgia Institute of Technology, Atlanta, Georgia, USA

14:45- 15:05  Growth in a Biofilm Induces a Hyperinfectious Phenotype in *Vibrio cholerae*
   Rita Tamayo, Assistant Professor, Department of Microbiology and Immunology, University of North Carolina School of Medicine, Chapel Hill, North Carolina, USA

15:05- 15:40  DISCUSSION

15:40- 16:10  BREAK

**WORKSHOP III- BIOSAFETY**

16:10- 16:20  Welcome and Introductions

16:20- 16:45  BBIC - Developing Biosafety and Biosecurity Strategies for the MENA Region
   Nisreen Al-Hmoud, Assistant Professor of Environmental Management, Princess Sumaya University for Technology, Amman, Jordan

16:45- 17:15  Biosafety Considerations for Collaborations with U.S. Investigators: An Overview of NAMRU-3 Collaborations
   Hanan El-Mohammady, Medical Research Scientist and Biosafety Officer, U.S. Naval Medical Research Unit No. 3 (NAMRU-3), Cairo, Egypt

17:15-17:45  The MENA Region Network of High Containment Labs - Capabilities / special considerations / training opportunities
   John Klena, Laboratory Chief, International Emerging Infections Program (IEIP), Centers for Disease Control and Prevention (HHS/CDC) Laboratories, Beijing, China
17:45-18:30  The Impact of Biosafety on Planning and Construction of High Containment Facilities and SOP compatibility
  Gary Zackowitz, Program Officer/Architect, Office of Biodefense Research Affairs, NIAID, NIH, Bethesda, Maryland, USA

18:30- 19:50  DISCUSSION

**Wednesday, February 2, 2010**

08:00- 19:00  Registration and Information Desk

08:00- 09:00  Registration

LEPTOSPIROSIS LABORATORY and POLICY ISSUES

08:30- 08:45  Leptospirosis: Diagnostics/ Estimating the Burden Of Disease
  Gholamreza Abdollahpour, Associate Professor, Faculty of Veterinary Medicine, University of Tehran, Tehran, Iran

08:45- 9:00  Leptospirosis in Egypt: Past, Present, and Future Perspectives
  Azza El Sherbini, Consultant, Hepatology and Infectious Diseases, Tanta Fever Hospital Research Unit, Ministry of Health of Egypt, Tanta, Egypt

SESSION II: LEPTOSPIROSIS

Chair: Brian Stevenson
  Professor Department of Microbiology, Immunology and Molecular Genetics, University of Kentucky College of Medicine, Lexington, Kentucky, USA

Rapporteur: Rudy Hartskeerl
  Research Coordinator, Department of Biomedical Research, Royal Tropical Institute (KIT), Amsterdam, the Netherlands

09:00- 09:20  Host, Pathogen and Environmental Factors that Contribute to the Clinical Outcome of Leptospira Infection of Humans
  Joseph Vinetz, Professor of Medicine, Division of Infectious Diseases, Department of Medicine, University of California at San Diego (UCSD), School of Medicine, San Diego, California, USA
09:20- 09:40  The Prevalence of Leptospirosis in Patients Within End Stage Renal Failure in Sudan  
   Isam El Jalii, Associate Professor, King Faisal University, Al-Hassa, Saudi Arabia

09:40- 10:00  A Six Year Sero-Bacteriological Study of Leptospirosis in 14 Provinces of Iran  
   Gholamreza Abdollahpour, Associate Professor, Faculty of Veterinary Medicine, University of Tehran, Tehran, Iran

10:00- 10:20  A Proteomic Approach to Elucidate Host-Pathogen Interactions During Persistent Transmission of Leptospires in Clinically Asymptomatic Reservoir Hosts  
   Jarlath Nally, Lecturer, School of Agriculture, Food, Science & Veterinary Medicine, University College Dublin, Dublin, Ireland

10:20- 10:40  BREAK

SESSION II: LEPTOSPIROSIS

Chair: Gholamreza Abdollahpour  
   Associate Professor, Faculty of Veterinary Medicine, University of Tehran, Tehran, Iran

Rapporteur: Joseph Vinetz  
   Professor of Medicine, Division of Infectious Diseases, Department of Medicine, UCSD School of Medicine, San Diego, California, USA

10:40- 11:00  Seroprevalence of Leptospiral Infection Among Veterinary Students in the Veterinary Faculty of Shahid Chamran University of Ahvaz, Iran  
   Mohammad Rahim Haji Hajikolaei, Academic Staff, Department of Clinical Sciences, Faculty of Veterinary Medicine, Shahid Chamran University of Ahvaz, Golestan, Ahvaz, Khouzestan, Iran

11:00 – 11:20  Innate Immune Response to Pathogenic Leptospira is Dependent on Both TLR2 and TLR4 Signaling in Human Whole Blood  
   Rudy Hartskeerl, Research Coordinator, Department of Biomedical Research, Royal Tropical Institute (KIT), Amsterdam, the Netherlands

11:20 – 11:40  Leptospira interrogans uveitis-associated proteins  
   Brian Stevenson, Professor Department of Microbiology, Immunology And Molecular Genetics, University of Kentucky College of Medicine, Lexington, Kentucky, USA

11:40- 12:30  DISCUSSION
12:30- 14:00  LUNCH

SESSION III: TYPHOID

Chair: Maha Mohamed Gaafar
Assistant Professor, Department of Clinical Pathology, University School of Medicine, Cairo, Egypt

Rapporteur: John Klena
Laboratory Chief, International Emerging Infectious Disease Program, U.S. Center for Disease Control and Prevention, Beijing, China

14:00- 14:20  Antibiotic Resistance Patterns of Salmonella and Escherichia Coli in the Groundwater of Cyprus
Konstantinos Makris, Assistant Professor, Cyprus International Institute for Environmental and Public Health in association with the Harvard School of Public Health, Cyprus University of Technology, Limassol, Cyprus

14:20- 14:40  Early Diagnosis and Molecular Epidemiology of Typhoid Fever in Indonesia
Mochammad Hatta, Professor, Department of Clinical Microbiology, Faculty of Medicine, Hasanuddin University, Makassar, South Sulawesi, Indonesia

14:40- 15:00  Outbreak of Paratyphi A Infection in Israeli Travelers to Nepal
Eli Schwartz, Professor of Medicine, Tel Aviv University, and Director of Center of Travel and Tropical Medicine, Sheba Medical Center, Tel Hashomer, Israel

15:00- 15:20  Low-Dose Azithromycin in Comparison to Ceftriaxone for Treatment of Uncomplicated Typhoid Fever
Isabelle Nakhla, Medical Research Scientist, U.S. Naval Medical Research Unit No. 3 (NAMRU-3), Cairo, Egypt

15:20- 15:40  BREAK

SESSION III: TYPHOID  Continued

Chair: Eli Schwartz
Professor of Medicine, Tel Aviv University, and Director of Center of Travel and Tropical Medicine, Sheba Medical Center, Tel Hashomer, Israel
Rapporteur: Isabelle Nakhla
Medical Research Scientist, U.S. Naval Medical Research Unit No. 3 (NAMRU-3) Cairo, Egypt

15:40-16:00 An Oral Vaccine Aimed at Simultaneous Protection Against Typhoid/Paratyphoid Fevers and Shigellosis
Dennis Kopecko, Chief, Laboratory of Enteric and Sexually Transmitted Diseases, Center for Biologics, Evaluation, and Research, U.S. Food and Drug Administration (FDA/HHS), Washington D.C., USA

16:00-16:20 Detection of β-lactamases Production in Human and Avian Salmonella from Egypt and Algeria
Hakim Abdelhakim Aouf, Laboratory of Molecular Cellular Biology, University of Science and Technology, Algiers, Algeria

16:00-16:20 Bacterial Cell-to-Cell-Communication: Implications for Pathogenesis and Novel Therapeutics
Brian Hammer, Assistant Professor, Georgia Institute of Technology, Atlanta, Georgia, USA

16:20-16:40 Salmonella enterica serovar Typhi Infections in Northern Africa and the Middle East: Antibiotic Resistance and Genetic Characterization of Strains
John Klena, Laboratory Chief, International Emerging Infectious Disease Program, US Center for Disease Control and Prevention, Beijing, China

16:40-17:00 High Rates of Antimicrobial Resistance Among Clinical Isolates of Non Typhoidal Salmonella in a Pediatric Teaching Hospital in Egypt
Maha Mohamed Gaafar, Assistant Professor, Department of Clinical Pathology, University School of Medicine, Cairo, Egypt

17:00-17:30 DISCUSSION

THURSDAY, February 3, 2011

SESSION IV: BRUCELLOSIS

Chair: Gary Splitter
Professor, Animal Health and Biomedical Sciences School of Veterinary Medicine, University of Wisconsin at Madison, Madison, Wisconsin, USA
Rapporteur: Thomas Ficht  
Professor, College of Veterinary Medicine and Biological Sciences, Texas A & M University, College Station, Texas, USA

09:00- 09:20  Laboratory Investigation of Human Brucellosis and the Search of Discriminative Markers  
George Araj, Professor and Director of Clinical Microbiology, American University of Beirut Medical Center, Lebanon

09:20- 09:40  Comparison of the Serological Tests Used for the Laboratory Diagnosis of Brucellosis  
Hanan El Mohammady, Medical Research Scientist, U.S Naval Medical Research Unit No. 3 (NAMRU-3), Cairo, Egypt

09:40- 10:00  Genetic Relationship of Brucella Strains Isolated from the African Continent with Global Isolates Based on Extensive MultiloSequence Analysis  
Adrian Whatmore, FAO/WHO Collaborating Centre for Brucellosis OIE Brucellosis Reference Centre, Veterinary Laboratories Agency Addlestone, UK

10:00- 10:20  Brucella Genome Analysis: from Physical Maps to Multiple Complete Genomes  
David O’Callaghan, Research Director, INSERM, University de Montpellier, Nimes, France

10:20- 10:40  BREAK

SESSION IV: BRUCELLOSIS  Continued

Chair: George Araj  
Professor and Director of Clinical Microbiology, American University of Beirut, Beirut, Lebanon

Rapporteur: Adrian Whatmore  
FAO/WHO Collaborating Centre for Brucellosis, OIE Brucellosis Reference Centre, Veterinary Laboratories, Addlestone, UK

10:40- 11:00  Childhood Brucellosis in Jordan: Prevalence and Analysis of Risk Factors  
Ahmad Al-Majali, Dean, Faculty of Veterinary Medicine, Jordan University of Science and Technology (JUST), Faculty of Veterinary Medicine, Irbid, Jordan
11:00- 11:20  **B. melitensis: Using Basic Science to Develop Vaccines**
Gary Splitter, Professor Animal Health and Biomedical Sciences, School of Veterinary Medicine University of Wisconsin, Madison, Wisconsin, USA

11:20- 11:40  **Adjuvant Effects of Particle Delivery Systems**
Allison C. Rice-Ficht, Professor, Department of Molecular and Cellular Medicine, and Director, Center for Microencapsulation and Drug Delivery, Texas A & M University, College Station, Texas, USA

11:40- 12:00  **Particle Delivery Systems Enhance the Efficacy of Brucellosis Vaccines**
Thomas Ficht, Professor, College of Veterinary Medicine and Biological Sciences, Texas A & M University, College Station, Texas, USA

12:00- 12:20  **Vaccination of Mice with Gamma-Irradiated Brucella Neotomae and its Recombinant Strains Induces Protection Against Virulent B. abortus, B. melitensis, and B. suis Challenge**
Ramesh Vemulapalli, Microbiology and Immunology Section Head, Associate Professor of Veterinary Immunology/Microbiology School of Veterinary Medicine Purdue University, West Lafayette, Indiana, USA

12:20- 12:45  DISCUSSION

12:45- 13:00  **CRDF Global Collaboration Grants**
Stacey Gamelsky, Senior Program Manager, CRDF Global, Arlington, Virginia, USA

13:00- 13:15  Closing Remarks and Adjourn

13:15 - 14:30  **LUNCH**