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Scientific Program

International Congress on

Bacteriology & Infectious Diseases

November 20-22, 2013 DoubleTree by Hilton Baltimore-BWI Airport, MD, USA



Conference Series

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Keynote Forum

- 09:00-09:05 Introduction**
- 09:05-09:30 Gregory A. Buck**
Virginia Commonwealth University, USA
- 09:30-09:55 Fernando Villalta**
Meharry Medical College, USA
- 09:55-10:20 Jean Pierre Changeux**
Pasteur Institute, France
- 10:20-10:45 Dennis J. Helfrich**
U.S. Army Research Laboratory, USA

Coffee Break 10:45-11:00 @ Ballroom Foyer

Track 1: Bacterial Pathogenesis, Virulence & Countermeasures

Session Chair: Menachem Shoham, Case Western Reserve University, USA
Session Co-Chair: Abu Salim Mustafa, Kuwait University, Kuwait

Session Introduction

- 11:00-11:20 Title: Antivirulence agents against bacterial pathogens**
Menachem Shoham, Case Western Reserve University, USA
- 11:20-11:40 Title: Towards a mechanistic understanding of the roles of HipA and HipB in bacterial multidrug tolerance and persistence**
Richard G. Brennan, Duke University School of Medicine, USA
- 11:40-12:00 Title: From environment to man: is *Aeromonas* infection an accident or a stopover on the adaptation road?**
Brigitte Lamy, Montpellier University, France
- 12:00-12:20 Title: Mycobacterial manipulation of the host innate immune response**
Cory M. Robinson, University of South Carolina, USA
- 12:20-12:40 Title: A new paradigm for genus *Mycobacterium* population structure**
Paul Jeffrey Freidlin, The National Public Health Laboratory, Israel
- 12:40-13:00 Title: *Stenotrophomonas maltophilia*: A world-wide emerging multiple-drug-resistant opportunistic pathogen**
Joanna S. Brooke, DePaul University, USA
- 13:00-13:20 Title: Hydrogen-stimulated carbon catabolism in enteric pathogens *Salmonella* and *Shigella***
Robert J. Maier, University of Georgia, USA

Lunch Break 13:20-14:05 @ Eden's Landing Restaurant

- 14:05-14:25 Title: FOXA2 inactivation by bacterial pathogens and excessive mucus in chronic airway diseases**
Gee W Lau, University of Illinois at Urbana Champaign, USA
- 14:25-14:45 Title: Phenotypic and immunologic characteristics of *Salmonella* lacking RNA modification enzymes**
Amin A Fadl, University of Wisconsin Madison, USA
- 14:45-15:05 Title: Physiological role of the mycobacterial pup proteasome**
Eyal Gur, Ben Gurion University of the Negev, Israel
- 15:05-15:25 Title: Modulation of immunization via cholinergic nervous system using HI-6**
Miroslav Pohanka, University of Defense, Czech Republic
- 15:25-15:45 Title: Identification and characterization of a putative mega polysaccharide gene cluster in *Enterococcus faecium***
Turkan Sakinc, University of Freiburg Medical Center, Germany
- 15:45-16:05 Title: Carbon monoxide: A bactericidal molecule**
B.Y.Chin, Sun way University, Malaysia

Coffee Break 16:05-16:20 @ Ballroom Foyer

- 16:20-16:40 Title: Contribution of host thrombosis and fibrinolytic cascades to the pathogenesis of gram-positive infections**
Peter Panizzi, Auburn University, USA
- 16:40-17:00 Title: Antibody orientation at bacterial surfaces has implications for both mild and severe infections**
Pontus Nordenfelt, Harvard University, USA
- 17:00-17:20 Title: T-helper 1, T-helper 2, pro-inflammatory and anti-inflammatory cytokines in tuberculosis**
Abu Salim Mustafa, Kuwait University, Kuwait
- 17:20-17:40 Title: Role of the polysaccharide capsule in *Bordetella pertussis* virulence: A novel capsule-mediated virulence mechanism in a bacterial pathogen**
Sylvie Alonso, National University of Singapore, Singapore
- 17:40-18:00 Title: The use of different laboratory methods in diagnosis of *Helicobacter pylori* infection a comparative study**
Nermin H. Ibrahim, King Saud University, Saudi Arabia
- 18:00-18:20 Title: Acquired Immune Deficiency Syndrome (AIDS), Diabetes Mellitus and Tuberculosis; A challenging scenario**
Amer Hayat Khan, Universiti Sains Malaysia, Malaysia
- 18:20-18:40 Title: Investigating the role of natural killer cells during *Mycobacterium tuberculosis* infection by using a mouse model of subcutaneous infection of *Bacillus Calmette Guerin* (BCG)**
Min Fang, CAS Key Laboratory, P.R.China

Billie Holiday

Track 2: News in Bacterial Structure Morphology & Metabolism

Track 3: Natural Microbial Defenses & Host Immunity

Track 4: Plant-Microbe Symbiosis & Pathology

Session Chair: Jean Pierre Changeux, Pasteur Institute, France

Session Co-Chair: Antonio Molinaro, European Carbohydrate Organization, Italy

Session Introduction

14:05-14:25 **Title: Microbial cell wall glycoconjugates as elicitors and suppressors of eukaryotic innate immunity**
Antonio Molinaro, European Carbohydrate Organization, Italy

14:25-14:45 **Title: Gut microbiota regulation of host cell response as revealed using functional metagenomics**
Herve M. Blottiere, INRA, France

14:45-15:05 **Title: Transmembrane signaling through a heme or hemophore receptor**
Nadia Izadi Pruneyre, Institut Pasteur, France

15:05-15:25 **Title: Intercellular and intracellular signaling systems of the rice pathogenic bacterium *Burkholderia glumae***
Jong Hyun Ham, Louisiana State University Agricultural Center, USA

15:25-15:45 **Title: Emerging Superbugs: Are ESBLs and CREs the new MRSA?**
Wanda C. Reygaert, Oakland University, USA

15:45-16:05 **Title: Myeloid KLF2 regulate host response to infection**
Ganapati H. Mahabaleshwar, Case Western Reserve University, USA

Coffee Break 16:05-16:20 @ Ballroom Foyer

16:20-16:40 **Title: Understanding crosstalk between acidic phospholipids present in bacterial membranes and DnaA, the initiator of *Escherichia coli* chromosomal replication**
Rahul Saxena, Georgetown University Medical Center, USA

16:40-17:00 **Title: Genetic variation in *Clostridium botulinum* types of botulism in France**
Michel R Popoff, Institut Pasteur, France

17:00-17:20 **Title: Bacterial microbe associated molecular patterns (MAMPs) elicitors of plant innate immunity: Recognition and signal transduction in *Arabidopsis***
Mari Anne Newman, University of Copenhagen, Denmark

17:20-17:40 **Title: Fluorescence labeling of proteins involved in pyoverdine dependent iron uptake pathway in *Pseudomonas aeruginosa***
Laurent Guillon, Strasbourg University, France

18:40-19:40 Cocktails Sponsored by Journal of Bacteriology and Parasitology @ Eden's Landing Restaurant

Day 2 November 21, 2013

Harbor Room

Track 5: Multi-Pathogen Infections & Post-Infection Sequelea

Track 6: Epidemiology Emerging Infectious Diseases & Public Response Planning

Track 7: Medical Microbiology - From Benchtop to Clinic

Session Chair: John G Thomas, West Virginia University, USA

Session Co-Chair: Steven D. Goodman, Nationwide Children's Hospital, USA

Session Introduction

09:00-09:20 **Title: New frontiers in bacteriology 2013: Biofilms , the international language of infectious diseases**
John G Thomas, West Virginia University, USA

09:20-09:40 **Title: The DNABII family of proteins: Diagnostic markers and therapeutic targets of bacterial biofilms**
Steven D. Goodman, Nationwide Children's Hospital, USA

09:40-10:00 **Title: Microbiological environment in the lower airway of the infants and young child with cystic fibrosis**
Kathryn S Moffett, West Virginia School of Medicine, USA

10:00-10:20 **Title: Fecal transplantation of patients with *Clostridium difficile* associated disease results in the complete replacement of original distal gut microbiota**
Oleg Paliy, Wright State University, USA

10:20-10:40 **Title: A chemical genetic approach to identifying essential functions in non-replicating *Mycobacterium tuberculosis***
Sarah Schmidt Grant, Brigham and Womens Hospital, USA

10:40-11:00 **Title: Two component systems and biofilm lifestyle in *Pseudomonas aeruginosa***
Sophie de Bentzmann, Aix Marseille University, France

Coffee Break 11:00-11:15 @ Ballroom Foyer

11:15-11:35 **Title: Disseminated BCG itis in children with primary immunodeficiency**
Daifulah ALZahrani, King Abdulaziz Medical City, Saudi Arabia

11:35-11:55 **Title: Occurrence of feco oral and blood borne hepatitis virus infection among children in North India**
Hitender Gautam, Chacha Nehru Bal Chikitsalaya, India

11:55-12:15 **Title: Mycobacterial infection in the livestock and wildlife interface of Katavi Rukwa ecosystem, Tanzania**
Makondo E. Zachariah, Sokoine University of Agriculture, Tanzania

12:15-12:35 **Title: The risk factors for and effects of visceral leishmaniasis in graft and renal transplant recipients**
Avelar Alves Da Silva, Federal University of Paul, Brazil

12:35-12:55 **Title: An epidemic of *Aeromonas hydrophila* in catfish: Has an emerging bacterial pathogen been introduced via invasive carp?**
Mohammad J. Hossain, Auburn University, USA

Lunch Break 12:55-13:40 @ Eden's Landing Restaurant

13:40-14:00 **Title: Treatment of cutaneous leishmaniasis by topical application of honey**
Mahasen Wadi, King Saud University, Saudi Arabia

14:00-14:20 **Title: Ethyl alcohol metabolism by oral *Streptococcus* sp. produces adherence, HPV16 entry and malignant phenotype changes in oral keratinocytes**
Joel Schwartz, University of Illinois, USA

14:20-14:40 **Title: Ribosome recycling is catalyzed by RRF which moves inter-subunits space like tRNA using the energy of GTP**
Akira Kaji, University of Pennsylvania, USA

14:40-15:00 **Title: Autophagy mediated clearance of *Burkholderia cenocepacia* in cystic fibrosis**
Benjamin T Kopp, Nationwide Childrens Hospital, USA

15:00-15:20 **Title: Neurological complications to botulinum toxin A therapy**
Anna Hristova, Institute for Future Sciences and Medicine, USA

Coffee Break 15:20-15:35 @ Ballroom Foyer

15:35-15:55 **Title: Does the companion diagnostics approach work for antibiotics?**
Philip Onigman, Grand Street Consulting, USA

15:55-16:15 **Title: Hygiene practices adopted by meat sellers in Owerri municipal local government area, Imo State, Nigeria**
Inikori Ogechi Rosemary, Imo State University Owerri, Nigeria

- 16:15-16:35 **Title: Bacterial ureases and its role in long lasting human diseases**
Wieslaw Kaca, Jan Kochanowski University, Poland
- 16:35-16:55 **Title: The Th17 response triggered by *Helicobacter pylori* involves the cytokine BAFF**
Marina de Bernard, University of Padova, Italy

17:00-18:00 Poster Presentations @ Billie Holiday

18:20-19:20 Cocktails Sponsored by **Journal of Infectious Diseases and Therapy @ Eden's Landing Restaurant**

Day 3 November 22, 2013

Harbor Room

Track 8: Animal Modeling and Veterinary Bacteriology
 Track 9: Advances in Antimicrobials Vaccines & Therapeutics
 Track 10: Microbial Genomics Systems Biology and Bioinformatics
 Track 11: Industrial and Applied Bacteriology

Session Chair: **Jacques H. Grosset**, Johns Hopkins University School of Medicine, USA

Session Co-Chair: **Jay H. Bream**, Johns Hopkins Bloomberg School of Public Health, USA

Session Introduction

- 09:00-09:20 **Title: From the past to the future: Clofazimine in the treatment of MDR-TB**
Jacques H. Grosset, Johns Hopkins University School of Medicine, USA
- 09:20-09:40 **Title: *Helicobacter*-induced colitis is reversed in "humanized" IL-10 transgenic mice**
Jay H. Bream, Johns Hopkins Bloomberg School of Public Health, USA
- 09:40-10:00 **Title: Appraisal of the current methicillin resistant *Staphylococcus aureus* (MRSA) treatment: Pharmacokinetic and pharmacodynamic approach**
Ayman M. Noreddin, Hampton University, USA
- 10:00-10:20 **Title: Development of ELISA and real time PCR for the diagnosis of strangles in horses**
Sergey C. Artiushin, University of Kentucky, USA
- 10:20-10:40 **Title: *Staphylococcus aureus* and ruminant mastitis: Staphylococcal factors involved in the infection acuteness and ecological factors modulating virulence expression in the mammary context**
Yves Le Loir, French National Institute for Agricultural Research, France

Coffee Break 10:40-11:00 @ Ballroom Foyer

- 11:00-11:20 **Title: Isolation of toxigenic *Clostridium difficile* from raw bovine milk and the environment: a risk for public health?**
Vincenza Romano, Parthenope University, Italy
- 11:20-11:40 **Title: Within host infection dynamics in bacterial immunology and vaccine development**
Pietro Mastroeni, University of Cambridge, United Kingdom
- 11:40-12:00 **Title: Development of vaccines to control chlamydial infection and disease : Are we making any progress ?**
Peter Timms, Queensland University of Technology, Australia
- 12:00-12:20 **Title: Bacteriophage therapy against antibiotic resistant bacterial infections**
Mzia Kutateladze, G. Eliava Institute, Georgia
- 12:20-12:40 **Title: Antimicrobial peptides as novel alternative agents for treatment of infectious diseases**
Margit Mahlapuu, Pergamum AB, Sweden
- 12:40-13:00 **Title: Structural and functional investigation of MexA/MexB/OprM, a multidrug efflux pump from *Pseudomonas aeruginosa***
Martin Picard, Universite Paris Descartes, France

Lunch Break 13:00-13:45 @ Eden's Landing Restaurant

- 13:45-14:05 **Title: New face of an old drug: Celecoxib as an antibacterial agent**
Arunasree M. Kalle, University of Hyderabad, India
- 14:05-14:25 **Title: Surveillance and stewardship: Sense and sensibility**
Yogandree Ramsamy, University of KwaZulu Natal, South Africa
- 14:25-14:45 **Title: Genome characteristics of a *Campylobacter jejuni* 63A isolated from california gull excreta**
Jingrang Lu, S.U.S. EPA National Exposure Research Laboratory, USA
- 14:45-15:05 **Title: Impact of next generation sequencing formats on microbial genomics**
Manohar R. Furtado, Biology for Global Good Consulting, USA
- 15:05-15:25 **Title: A bacteria strain as a model for screening the antitumor materials**
Xin Mingxiu, Beijing Normal University, P. R. China
- 15:25-15:45 **Title: Antimicrobial activity of a newly synthesized methylsulfanyl-triazoloquinazoline derivatives**
Rashad Al-Salahi, King Saud University, Saudi Arabia
- 15:45-16:05 **Title: New paradigm in treatment of biofilm-associated infections: Applications to *Pseudomonas aeruginosa* as a biofilm model organism**
Walid F. Elkhatib, Hampton University, USA

Award Ceremony

Coffee Break 16:05-16:20 @ Ballroom Foyer

Bookmark your dates

2nd International Congress on Bacteriology & Infectious Diseases

November 17-19, 2014 Chicago, USA

