OMICS Group Conferences
Accelerating Scientific Discovery

Scientific Program

International Congress on

Bacteriology & Infectious Diseases

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



"Organize your Events at OMICS Group Conferences"

Proposals are invited for organizing Symposia/Workshops at OMICS Group Conferences or OMICS Group will sponsor small events at your universities in related areas under the title of your own. These proposals can be sent to respective conference mail ids or to *symposia@omicsonline.org*

OMICS Group Conferences
5716 Corsa Ave., Suite 110, Westlake Los Angeles, CA 91362-7354, USA
Phone: +1-650-268-9744, Fax: +1-650-618-1414, Toll free: +1-800-216-6499
Email: *bacteriology2013@omicsgroup.net*

Day 1 November 20, 2013

08:00-08:30 **Registrations**

Harbor Room

OMICS Group Conferences
Accelerating Scientific Discovery

08:30-09:00 **Opening Ceremony**

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. Helfritch**
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 **Antivirulence agents against bacterial pathogens**
Menachem Shoham, Case Western Reserve University, USA

11:20-11:40 **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 **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 **Mycobacterial manipulation of the host innate immune response**
Cory M. Robinson, University of South Carolina, USA

12:20-12:40 **A new paradigm for genus *Mycobacterium* population structure**
Paul Jeffrey Freidlin, The National Public Health Laboratory, Israel

12:40-13:00 ***Stenotrophomonas maltophilia:* A world-wide emerging multiple-drug-resistant opportunistic pathogen**
Joanna S. Brooke, DePaul University, USA

13:00-13:20 **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 **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 **Phenotypic and immunologic characteristics of Salmonella lacking RNA modification enzymes**
Amin A Fadl, University of Wisconsin Madison, USA

14:45-15:05 **Physiological role of the mycobacterial pup proteasome**
Eyal Gur, Ben Gurion University of the Negev, Israel

15:05-15:25 **Modulation of immunization via cholinergic nervous system using HI-6**
Miroslav Pohanka, University of Defense, Czech Republic

15:25-15:45 **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 **Carbon monoxide: A bactericidal molecule**
B.Y.Chin, Sun way University, Malaysia

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

16:20-16:40 **Contribution of host thrombosis and fibrinolytic cascades to the pathogenesis of gram-positive infections**
Peter Panizzi, Auburn University, USA

16:40-17:00 **Antibody orientation at bacterial surfaces has implications for both mild and severe infections**
Pontus Nordenfelt, Harvard University, USA

17:00-17:20 **T-helper 1, T-helper 2, pro-inflammatory and anti-inflammatory cytokines in tuberculosis**
Abu Salim Mustafa, Kuwait University, Kuwait

17:20-17:40 **Role of the polyscaccharide 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 **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 **Acquired Immune Deficiency Syndrome (AIDS), Diabetes Mellitus and Tuberculosis; A challenging scenario**
Amer Hayat Khan, Universiti Sains Malaysia, Malaysia

18:20-18:40 **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 **Microbial cell wall glycoconjugates as elicitors and suppressors of eukaryotic innate immunity**
Antonio Molinaro, European Carbohydrate Organization, Italy

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

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

15:05-15:25 **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 **Emerging Superbugs: Are ESBLs and CREs the new MRSA?**
Wanda C. Reygaert, Oakland University, USA

15:45-16:05 **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 **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 **Genetic variation in *Clostridium botulinum* types of botulism in France**
Michel R Popoff, Institut Pasteur, France

17:00-17:20 **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 **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 **New frontiers in bacteriology 2013: Biofilms , the international language of infectious diseases**
John G Thomas, West Virginia University, USA

09:20-09:40 **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 **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 **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 **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 **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 **Disseminated BCG itis in children with primary immunodeficiency**
Daifulah ALZahrani, King Abdulaziz Medical City, Saudi Arabia

11:35-11:55 **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 **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 **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 **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 **Treatment of cutaneous leishmaniasis by topical application of honey**
Mahasen Wadi, King Saud University, Saudi Arabia

14:00-14:20 **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 **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 **Autophagy mediated clearance of *Burkholderia cenocepacia* in cystic fibrosis**
Benjamin T Kopp, Nationwide Childrens Hospital, USA

15:00-15:20 **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 **Does the companion diagnostics approach work for antibiotics?**
Philip Onigman, Grand Street Consulting, USA

15:55-16:15 **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 **Bacterial ureases and its role in long lasting human diseases**
Wieslaw Kaca, Jan Kochanowski University, Poland

16:35-16:55 **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 **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 ***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 **Appraisal of the current methicillin resistant *Staphylococcus aureus* (MRSA) treatment: Pharmacokinetic and pharmacodynamic approach**
Ayman M. Noreddin, Hampton University, USA

10:00-10:20 **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 ***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 **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 **Within host infection dynamics in bacterial immunology and vaccine development**
Pietro Mastroeni, University of Cambridge, United Kingdom

11:40-12:00 **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 **Bacteriophage therapy against antibiotic resistant bacterial infections**
Mzia Kutateladze, G. Eliava Institute, Georgia

12:20-12:40 **Antimicrobial peptides as novel alternative agents for treatment of infectious diseases**
Margit Mahlapuu, Pergamum AB, Sweden

12:40-13:00 **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 **New face of an old drug: Celecoxib as an antibacterial agent**
Arunasree M. Kalle, University of Hyderabad, India

14:05-14:25 **Surveillance and stewardship: Sense and sensibility**
Yogandree Ramsamy, University of KwaZulu Natal, South Africa

14:25-14:45 **Genome characteristics of a *Campylobacter jejuni* 63A isolated from california gull excreta**
Jingrang Lu, SU.S. EPA National Exposure Research Laboratory, USA

14:45-15:05 **Impact of next generation sequencing formats on microbial genomics**
Manohar R. Furtado, Biology for Global Good Consulting, USA

15:05-15:25 **A bacteria strain as a model for screening the antitumor materials**
Xin Mingxiu, Beijing Normal University, P. R. China

15:25-15:45 **Antimicrobial activity of a newly synthesized methylsulfanyl-triazoloquinazoline derivatives**
Rashad Al-Salahi, King Saud University, Saudi Arabia

15:45-16:05 **New paradigm in treatment of biofilm-associated infections: Applications to *Pseudomonas aeruginosa* as a biofilm model organism**
Walid F. Elkhatib, Hampton University, USA

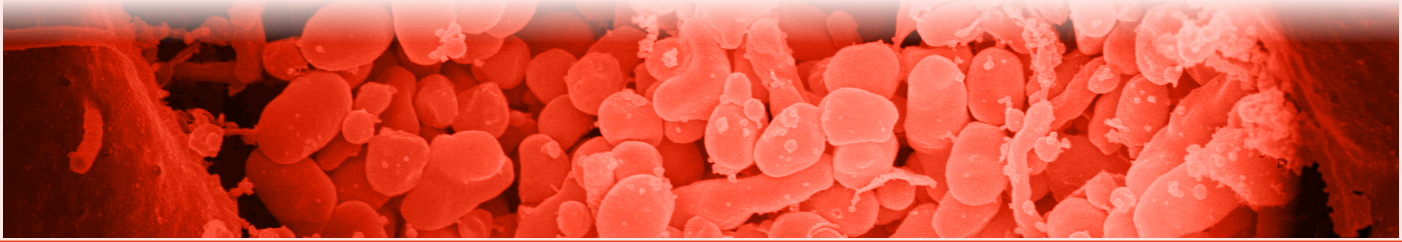
Award Ceremony

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

Bookmark your dates

OMICS Group Conferences
Accelerating Scientific Discovery

2nd International Congress on
Bacteriology & Infectious Diseases
November 17-19, 2014 Chicago, USA



OMICS Group Inc.
2360 Corporate Circle, Suite 400
Henderson, NV 89074-7722, USA
Ph: +1-888-843-8169
Fax: +1-650-618-1417
omicsonline@omicsonline.com

OMICS Publishing Group
5716 Corsa Ave., Suite 110, Westlake
Los Angeles, CA 91362-7354, USA
Ph: +1-650-268-9744
Fax: +1-650-618-1414
omicsonline@omicsonline.org

OMICS Group
SEZ Unit, Building No. 20, 9th Floor
APIIC Layout, HITEC City
Hyderabad-500081, AP, INDIA
Ph: 040-40131823, 040-47482222
omicsgroup@omicsgroup.org

Toll free
USA & Canada: 1-800-216-6499
Australia: 1-800-651-097
Europe: 0805-080048