

76th OMICS Group Conference

Scientific Program



International Conference on

Clinical Microbiology & Microbial Genomics

November 12-14, 2012 Hilton San Antonio Airport, USA



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

OMICS Group Conferences

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08:30-09:00

Opening Ceremony

Keynote Forum

09:00-09:05 Introduction

09:05-09:30 **Bradford Powell**
Cernomics Solutions, USA

09:30-09:55 **Joel K Weltman**
Brown University School of Medicine, USA

09:55-10:20 **Guangming Zhong**
University of Texas, USA

Coffee Break 10:20-10:35

10:35-11:00 **Todd DeSantis**
Second Genome, USA

11:00-11:25 **Victor M. Ibeanusi**
Spelman College, USA

Breakout 1

Track 1: Microbiology-Basic Science

Track 3: Medical Microbiology

Session Introduction

Chair: **Victor M. Ibeanusi**, Spelman College, USACo-Chair: **Ayman M. Noreddin**, Hampton University, USA

11:25-11:45 **Title: Prophylaxis of autoimmune diseases by vaccination against their microbial triggers**
Duncan D Adams, University of Otago Medical School, New Zealand

11:45-12:05 **Title: Sociomicrobiology in microscopically organized landscapes**
Jason Shear, University of Texas, USA

12:05-12:25 **Title: Pharmacodynamic profiling of antibiotics used in the treatment of MRSA-infected ICU patients**
Ayman M. Noreddin, Hampton University, USA

12:25-12:45 **Title: Chlamydia evasion of host defense**
Guangming Zhong, University of Texas, USA

Lunch Break 12:45-13:30

13:30-13:50 **Title: Update on the MRSA war...who's winning?**
Wanda Reygaert, Oakland University, USA

13:50-14:10 **Title: Is it time for hospitals to implement 'Antifungal stewardship'?**
Abhijit M Bal, University Hospital Crosshouse, United Kingdom

14:10-14:30 **Title: Microbial adaptations and protein expressions and evolution in extreme environments**
Victor M. Ibeanusi, Spelman College, USA

14:30-14:50 **Title: Biofilm-associated infections**
Pascal M. Dohmen, University of Leipzig, Germany

14:50-15:10 **Title: Purification and structural characterizations of rhamnolipid surfactant produced by Pseudomonas aeruginosa CICC 10204 on ethanol**

Xin Mingxiu, Beijing Normal University, China

15:10-15:30 **Title: Sucrose independent exopolysaccharide productivity and biofilm formation of oral commensal bacteria as pathogenesis of chronic inflammation in the oral cavity**

Takeshi Yamanaka, Osaka Dental University, Japan

15:30-15:50 **Title: Significance urinary tract infection for the paediatric urologist**
George K Ninan, University of Leicester, United Kingdom

Coffee Break 15:50-16:05

16:05-16:25 **Title: Cupron antifungal fibers and fabrics- A new generation of material in the prevention of mycological infections**
Alastair B Monk, Cupron Inc, USA

16:25-16:45 **Title: Genetic transfer between *Enterococcus faecalis* isolated from food and human microbiota**
Sparo Monica D, Universidad Nacional del Centro, Argentina

16:45-17:05 **Exploring novel mechanistic strategies of antibiotics, which inhibit protein synthesis**
Andrei A. Korostelev, University of Massachusetts Medical School, USA

17:05-17:25 **Title: Effects of pancreatic infections on insulin secretion and possible onset of diabetes**
Dragan M. Nikolic, University of Belgrade, Serbia

17:25-17:45 **Title: Pharmacokinetic and antigenic properties of *Aspergillus flavipes* (JF831014) L-methioninase in vivo**
Ashraf El-Sayed, Zagazig University, Egypt

17:45-18:05 **Title: *Cryptococcus laurentii* respiratory infection in a dog – Case report**
Margarete T. G. Almeida, Faculdade de Medicina de São José do Rio Preto, Brazil

18:05-18:25 **Title: Comparison of the virulence markers of *Helicobacter pylori* and their associated Diseases in patients from Pakistan and Afghanistan**
Wasim Jafri, Aga Khan University, Pakistan

18:25-18:45 **Title: Arthritogenic alphaviruses; Viral persistence and rheumatic inflammation**
Andreas Suhrbier, Queensland Institute of Medical Research, USA

18:45-19:00 Panel Discussion

19:00-20:00 Cocktail: Sponsored by Journal of Microbial & Biochemical Technology

Breakout 2

Track 2: Antimicrobials & Microbial Techniques

Track 4: Infection Control & Immunity

Session Introduction

Chair: Valyi-Nagy, University of Illinois, USA

Co-Chair: K. Iwabuchi, Juntendo University School of Medicine, Japan

11:25-11:45 **Title: Increased resistance of breast, prostate and embryonic carcinoma cells against herpes simplex virus-mediated destruction in three-dimensional cultures**

Valyi-Nagy, University of Illinois, USA

11:45-12:05 **Title: Antimicrobial peptide resistance mechanisms of *Clostridium difficile***

Shonna M. McBride, Emory University School of Medicine, USA

12:05-12:25 **Title: Control CD8 T cell-mediated antiviral immune responses by diacylglycerol kinases**

Xiao-Ping Zhong, Duke University Medical Center, USA

12:25-12:45 **Title: FcγR and CR on blood monocytes in differentiation between sarcoidosis and tuberculosis**

Dubaniewicz Anna, Medical University of Gdansk, Poland

Lunch Break 12:45-13:30

13:30-13:50 **Title: Molecular epidemiology of hepatitis A virus in patients in the ahwaz region of Iran**

Nejati A, Ahwaz Jondi-Shapoor University of Medical Sciences, Iran

13:50-14:10 **Title: Cell type-specific human IL-10 regulation influences disease outcomes in “humanized” IL-10 transgenic mice**

Jay H. Bream, Johns Hopkins Bloomberg School of Public Health, USA

14:10-14:30 **Title: *Actinobaculum schaalii* an often overlooked uropathogen. Methods to increase the detection of *A. schaalii***

Steffen Bank, Viborg Hospital, Denmark

14:30-14:50 **Title: Reducing bacterial virulence with quorum quenching acylases**

Wim J. Quax, University of Groningen, The Netherlands

14:50-15:10 **Title: An antimicrobial sealant to reduce surgical site infection**

Pascal M. Dohmen, University of Leipzig, Germany

15:10-15:30 **Title: Utilizing cupron enhanced biocidal linens in a clinical setting - Initial results of a clinical field trial to combat hospital acquired infection**

Gadi Borkow, Cupron Scientific, Israel

15:30-15:50 **Title: Antimicrobial peptide resistance mechanisms in enterohemorrhagic and enteropathogenic *Escherichia coli***
Herve Le Moual, McGill University, Canada

Coffee Break 15:50-16:05

16:05-16:25 **Title: Role of lactosylceramide in innate immune responses of phagocytes**

K. Iwabuchi, Juntendo University School of Medicine, Japan

- 16:25-16:45** Title: **Postantibiotic Effect (PAE) of linezolid on Staphylococcus aureus, Staphylococcus epidermidis and Enterococcus faecalis**
Sara A. Zahran, Cairo University, Egypt
- 16:45-17:05** Title: **Antimicrobial efficacy of the crude extracts and phytochemicals from Piper betel (Linn.) leaves against the pathogens causing otitis externa**
Chetan Sharma, Kurukshetra University, India
- 17:05-17:25** Title: **Getting to a better understanding of drug – Resistance in three Acinetobacter species isolated from Colombian hospitals by genomic and proteomic analyses**
Emiliano Barreto Hernandez, National University of Colombia, Colombia
- 17:25-17:45** Title: **Modulation of pulmonary immunity and induction of goblet cell hyperplasia and mucus hypersecretion by Pseudomonas aeruginosa exotoxin**
Gee W. Lau, University of Illinois, USA
- 17:45-18:05** Title: **Mechanism of regulation of inflammatory gene expression by microRNAs**
Roopa Biswas, Uniformed Services University of Health Sciences, USA
- 18:05-18:25** Title: **Mycobacterium tuberculosis-induced neutrophil ectosomes decrease macrophage activation**
Tonya Azevedo Duarte, Federal University of Bahia, Brazil

18:25-18:40 Panel Discussion

18:40-19:40 Cocktail: Sponsored by Journal of Microbial & Biochemical Technology

Day 2

November 13, 2012

Breakout 1

Track 5: Diagnostics

Track 6: Clinical & Veterinary Microbiology

Track 7: Infectious Diseases & Public Health

Track 8: Current Topics in the Field of Medical Microbiology

Track 9: Clinical Infectious Diseases

Session Introduction

Chair: Menachem Shoham, Case Western Reserve University, USA

Co-Chair: Jelena Levitskaya, Johns Hopkins University, USA

- 10:00-10:20** Title: **Healthy subjects microbiome: Diversity, networking and metabolic potential**
Jacques Izard, The Forsyth Institute/Harvard School of Dental Medicine, USA

- 10:20-10:40** Title: **Antivirulence agents against bacterial pathogens**
Menachem Shoham, Case Western Reserve University, USA

Coffee Break 10:40-10:55

- 10:55-11:15** Title: **A pharmacological inhibitor of proprotein convertase 6: A potential multi-therapeutic agent**
Mohamad Aljofan, Monash University, Australia
- 11:15-11:35** Title: **Dynamics of the MHC class I antigen presentation in the course of malaria parasite development in human hepatocytes**
Jelena Levitskaya, Johns Hopkins University, USA
- 11:35-11:55** Title: **Poxvirus genomes: Genes and virulence**
Roper Rachel, East Carolina University, USA
- 11:55-12:15** Title: **Disruption of protein-protein interaction as an approach to new antiviral discovery**
Giorgio Palu, University of Padova, Italy
- 12:15-12:35** Title: **Zoonotic genotypes of Giardia intestinalis in urban and rural areas of Argentina**
Molina Nora B, Universidad Nacional de La Plata, Argentina

Lunch Break 12:35-13:05

- 13:05-13:25** Title: **Fecal transplantation of patients with Clostridium difficile associated disease results in the complete replacement of original distal gut microbiota**
Oleg Paliy, Boonshoft School of Medicine, USA
- 13:25-13:45** Title: **Renewed Interest in bacteriophages as antibacterials for MDR pathogens**
Manal M. Baddour, Alexandria University, Egypt
- 13:45-14:05** Title: **Reducing the risk of skin pathologies in diabetics by using copper impregnated socks**
Gadi Borkow, Cupron Scientific, Israel
- 14:05-14:25** Title: **Japanese encephalitis: Not a neglected tropical disease**
Debjani Taraphdar, ICMR Virus Unit, India
- 14:25-14:45** Title: **Human seroprevalence against Borrelia burgdorferi sensu lato in two comparable regions of the eastern Alps (Central Europe) is not correlated to vector infection rates**
Sissy Therese Sonnleitner, Innsbruck Medical University, Austria
- 14:45-15:05** Title: **Identification of songbird dispersed, Borrelia-burgdorferi-infected ticks utilizing DNA barcoding**
Danielle Ondrejicka, McMaster University, Canada

Coffee Break 15:05-15:20

- 15:20-15:40 **Title: Detection of viral gene expression by RNA splicing assays**
Zhi-Ming Zheng, National Institutes of Health, USA
- 15:40-16:00 **Title: Characterization of chlamydia using restriction enzymes**
Lawrence Okoror, Joseph Ayo Babalola University, Nigeria
- 16:00-16:20 **Title: Prediction of antibiotic susceptibility by clonal diagnostics of Escherichia coli**
Evgeni V. Sokurenko, University of Washington, USA
- 16:20-16:40 **Title: Genotypic and insertion sequence pattern on some Nigerian isolates of shiga toxin producing E. coli from cattle and humans in northeast Nigeria**
Anietie E. Moses, University of Uyo, Nigeria
- 16:40-17:00 **Title: Evaluation of nitric oxide and ciprofloxacin against typhoid**
S.S.Haque, Indira Gandhi Institute of Medical Sciences, India

17:00-17:15 Panel Discussion

Breakout 2

Editorial Board Meeting

14:00-16:00 Scientific Partnering

16:00-18:00 Poster Presentations

18:00-19:00 Cocktail: Sponsored by Journal of Medical Microbiology & Diagnosis

Day 3

November 14, 2012

Breakout 1

Track 10: Microbial Genomics

Session Introduction

Chair: Peter D. Karp, SRI Bioinformatics Research Group, USA

Co-Chair: Radhey S. Gupta, McMaster University, Canada

09:00-09:20 **Title: Optimal preparation of difficult samples for systems biology**

Bradford Powell, Cernomics Solutions, USA

09:20-09:40 **Title: Bioinformatic analysis of the 2009-2010 pandemic H1N1 influenza virus**

Joel K Weltman, Brown University School of Medicine, USA

09:40-10:00 **Title: The BioCyc collection of pathway/genome databases**

Peter D. Karp, SRI Bioinformatics Research Group, USA

10:00-10:20 **Title: Life in the heat: Sequenced genomes of Geobacilli reveal secrets of survival**

Phillip J. Brumm, C5-6 Technologies, USA

Coffee Break 10:20-10:35

10:35-10:55 **Title: Effects of clindamycin on the microbiota of syrian hamsters over a challenge timeline**

Todd DeSantis, Second Genome, USA

10:55-11:15 **Title: Modulation of protein-protein interactions by small molecules that effect the expression of pathogenicity determinants in Francisella tularensis**

Graciela L. Lorca, University of Florida, USA

11:15-11:35 **Title: Adaptation of microarray and deep sequencing technologies to clinical virology diagnostics**

Steve Miller, University of California San Francisco, USA

11:35-11:55 **Title: Comparative genome sequence of a Salmonella enterica serovar typhi strain associated with a sporadic case of typhoid fever in Malaysia**

Kwai-Lin Thong, University of Malaya, Malaysia

11:55-12:15 **Title: Cupron enhanced fabrics and fibers for the prevention of bacterial and fungal skin infections**

Alastair Monk, Cupron Inc, USA

12:15-12:35 **Title: PCT, proANP, suPAR - are there any new septic biomarkers in ICU setting?**

Malgorzata Lipinska-Gediga, Medical University Wroclaw, Poland

Lunch Break 12:35-13:05

13:05-13:25 **Title: Conserved signature indels and signature proteins provide novel means for evolutionary and diagnostic studies**

Radhey S. Gupta, McMaster University, Canada

13:25-13:45 **Title: A Systems and genomics approach to pseudomonas derived protein: RahU in host-parasite interactions, pleotropic regulation of biofilm in pseudomonas, and innate immunity in macrophages.**

Ashok R. Amin, Virginia Tech and Rheumatrix Consulting, USA

13:45-14:05 **Title: New approaches to studies of microbial genomics**

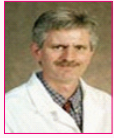
Jennifer Troyer, National Institute of Health, USA

14:05-14:25 **Title: Using an -Omics approach to infer social networks from bacterial sequences: A comparison of MLST and MLSA**

Kashef Qaadri, Biomatters Inc, USA

14:25-14:40 Panel Discussion

Organizing Committee Members



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University of Illinois, USA



Teodor-Doru Brumeanu
Uniformed Services University of
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National Institute of Health
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