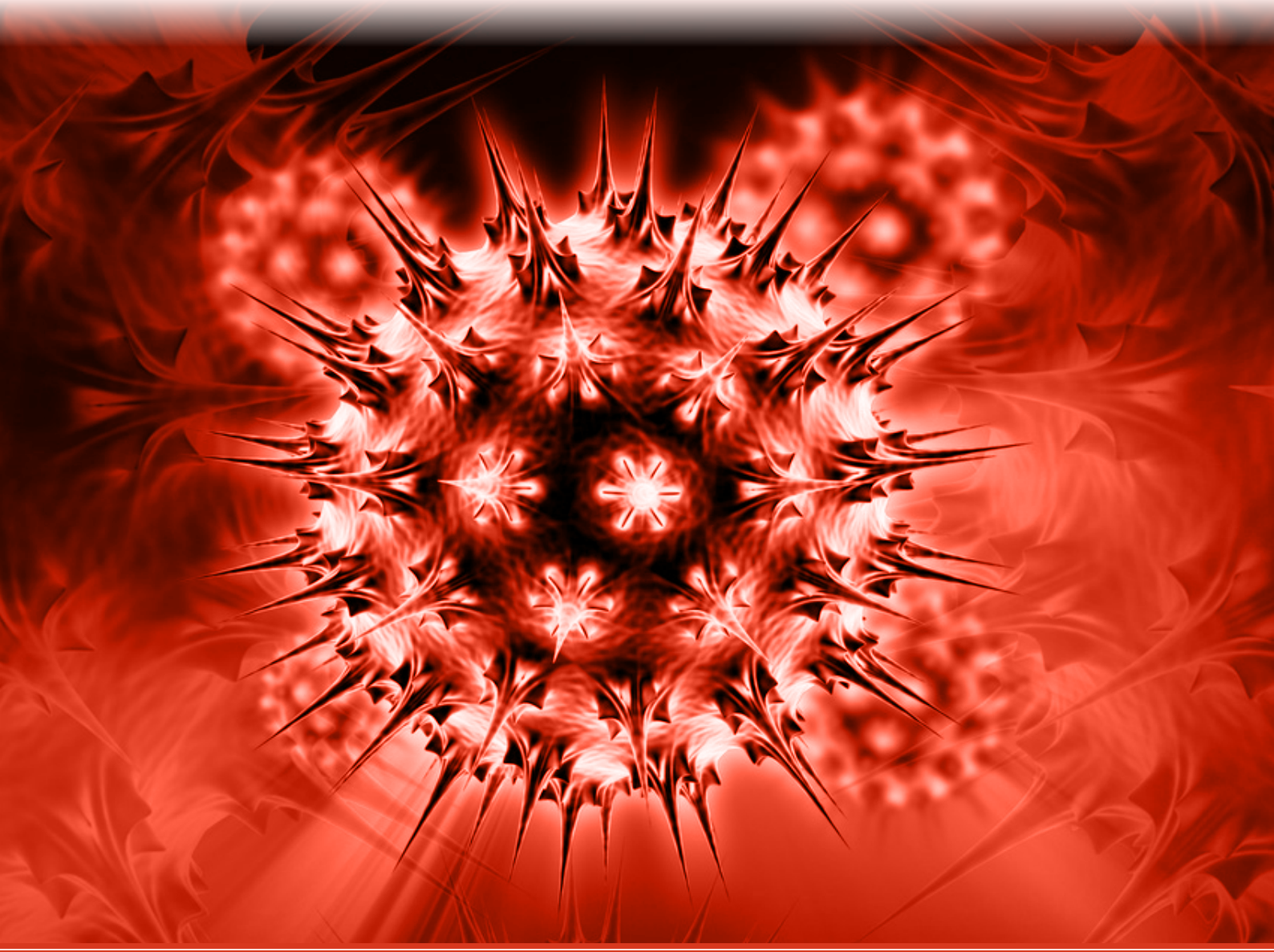
Scientific Program

OMICS Group Conferences
Accelerating Scientific Discovery

2nd International Congress on
Bacteriology & Infectious Diseases

November 17-19, 2014 DoubleTree by Hilton Hotel Chicago-North Shore, 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: *bacteriology2014@omicsgroup.org*

07:00-08:00 Registrations

Versailles - B

OMICS Group Conferences
Accelerating Scientific Discovery

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

Keynote Forum

08:30-08:45 **Introduction**

08:45-09:10 **Gregory A. Buck**
Virginia Commonwealth University, USA

09:10-09:35 **Michael Y. Galperin**
National Center for Biotechnology Information, USA

09:35-10:00 **Ed T Buurman**
AstraZeneca, USA

10:00-10:25 **Massimo Cecaro**
EIC, National Councilor of Italian Medical Press, Italy

Group Photo

Coffee Break 10:25-10:40 @ Versailles Foyer

Track 1: News in Bacterial Structure, Morphology & Metabolism
Track 2: Bacterial Pathogenesis, Virulence & Countermeasures

Session Chair: Phillip E. Klebba, Kansas State University, USA
Session Co-Chair: Abu Salim Mustafa, Kuwait University, Kuwait

Session Introduction

10:40-11:00 **Spectroscopic analyses of Gram-negative bacterial iron transport reactions**
Phillip E. Klebba, Kansas State University, USA

11:00-11:20 **Diagnostic potentials of *M. tuberculosis*-specificproteins and peptides**
Abu Salim Mustafa, Kuwait University, Kuwait

11:20-11:40 **A soluble auto assembling heptameric *Staphylococcus aureus* alpha-hemolysin as a vaccine candidat**
Ilaria Ferlenghi, Novartis Vaccines Research Centre, Italy

11:40-12:00 **The evolution of virulence in *Streptococcus pyogenes***
Francis J. Castellino, University of Notre Dame, USA

12:00-12:20 **Transcriptome analysis identifies *Bacillus anthracis* AtxA as a global transcriptional regulator of genes that respond to carbon dioxide**
Andrei P. Pomerantsev, National Institute of Allergy and Infectious Diseases, USA

12:20-12:40 **Detection of Legionella spp., *L. pneumophila* and *L. pneumophila* serogroup 1 in drinking water system**
Jingrang Lu, US Environmental Protection Agency, USA

12:40-13:00 **Crosstalk between acidic phospholipids present in bacterial membranes and the Initiation of replication at *Escherichia coli* Chromosomal origin (oriC) is beyond nucleotide exchange on DnaA, the initiator protein**
Rahul Saxena, Georgetown University Medical Center, USA

13:00-13:20 ***Pseudomonas aeruginosa*: A bacterial opportunist pathogen with an extremely well conserved genome that shows a variety of pathogenic interactions**
Gloria Soberon-Chavez, National Autonomous University of Mexico, Mexico

Lunch Break 13:20-14:00 @ Monaco

14:00-14:20 **Function of the phased A-tracts upstream of the phospholipase C gene promoter in *Clostridium perfringens***
Seiichi Katayama, Okayama University of Science, Japan

14:20-14:40 **Virulence and transmission of bacteria inducing tooth decay**
Ling Zhan, University of California, USA

14:40-15:00 **Mycobacterial manipulation of the host innate immune response**
Cory M. Robinson, The University of South Carolina School of Medicine, USA

15:00-15:20 **Biological and pathogenic regulatory role of salmonellagidAB operon**
Amin A. Fadl, University of Wisconsin-Madison, USA

15:20-15:40 **From vertical to horizontal transmission, when the Wolbachia endosymbiont turns to a deadly pathogen for its hosts**
Winka LE CLECH, Texas Biomedical Research Institute, USA

15:40-16:00 **The molecular basis of protective immunity against experimental intracellular infection caused by *Francisella tularensis***
Klara Kubelkova, University of Defence, Czech Republic

Coffee Break 16:00-16:15 @ Versailles Foyer

16:15-16:35 **Production and regulation of functional amyloid curli fimbriae by Shiga toxin-producing *Escherichia coli***
Gaylen Uhlich, U.S. Department of Agriculture, USA

16:35-16:55 **Investigating the survival and persistence of the multiple-drug-resistant global opportunistic pathogen, *Stenotrophomonas maltophilia***
Joanna S. Brooke, DePaul University, USA

16:55-17:15 **Metabolic control of virulence potential of the agent of Lyme disease**
Janakiram Seshu, The University of Texas , USA

17:15-17:35 **Bactofection of mammalian cells by an attenuated derivatives of *Pasteurella multocida* B:2**
Sarah Othman, Universiti Putra Malaysia, Malaysia

17:35-17:55 **Leprosy scenario in India**
Abha Aggarwal, ICMR, India

17:55-18:15 **Methodology of collection of spontaneous sputum for microbiological confirmation of the diagnosis of pulmonary tuberculosis, pulmonary disease by non-tuberculous mycobacteria or for folow-up of out- and in-patients under anti-tuberculous the rap**
Zerihun Tesfaye, Addis ababa University, Ethiopia

18:15-18:35 **Phytochemical screening of the exudete of Aloe otallensis and its effect on the *Leishmania aethiopica* and *Leishmania donovani***
David Jamil Hadad, Centre of Infectious Diseases, Brazil

18:35-19:35 Cocktails Sponsored by Journal of Bacteriology and Parasitology @ Versailles Foyer

Day 2 November 18, 2014

Versailles - B

Keynote Forum

09:00-09:10 **Introduction**

09:10-09:35 **Stephen Hanessian**
University of Montreal, Canada

09:35-10:00 **Marcelo E. Tolmasky**
California State University Fullerton, USA

10:00-10:25 **Akira Kaji**
University of Pennsylvania, USA

Coffee Break 10:25-10:40 @ Versailles Foyer

Track 3 : Plant-Microbe Symbiosis & Pathology
Track 4 : Natural Microbial Defenses & Host Immunity
Track 5 : Animal Modeling and Veterinary Bacteriology

Session Chair: Kei Amemiya, US Army Medical Research Institute of Infectious Diseases, USA
Session Co-Chair: Joyce A. Sutcliffe, Tetraphase Pharmaceuticals, USA

Session Introduction

10:40-11:00 **Melioidosis and glanders: Diseases in search of animal models, vaccines, and therapeutics**
Kei Amemiya, US Army Medical Research Institute of Infectious Diseases, USA

11:00-11:20 **Eravacycline, a novel fluorocycline, is highly efficacious in treating tularemia and anthrax in animal models**
Joyce A. Sutcliffe, Tetraphase Pharmaceuticals, USA

11:20-11:40 **Carbon Monoxide: A poison to microbes**
B.Y.Chin, International Medical University, Malaysia

11:40-12:00 **The role of plant metabolites in sensitive analytical detection of food borne illness pathogens**
Alan Olstein, Paradigm Diagnostics, Inc, USA

12:00-12:20 **Isolation and molecular characterization of Mycobacterium avium subspecies paratuberculosis from ruminants and non domestic Non ruminant animals**
Mohamed Salem, King Faisal University, Saudi Arabia

12:20-12:40 **Paratuberculosis in the Kingdom of Saudi Arabia: A review of current situation**
Fadhel Housawi, King Faisal University, Saudi Arabia

Lunch Break 12:40-13:20 @ Monaco

Track 6: Advances in Antimicrobials, Vaccines & Therapeutics

Session Chair: Thea Sesardic, National Institute for Biological Standards and Control, UK
Session Co-Chair: Kwang Poo Chang, Rosalind Franklin University of Medicine and Science, USA

Session Introduction

13:20-13:40 **Bioassays for evaluation of medical products derived from bacterial toxins**
Thea Sesardic, National Institute for Biological Standards and Control, UK

13:40-14:00 **Photodynamic vaccination: Novel strategies of vaccine delivery by intraphagolysosomal parasites and their oxidative inactivation for safe and effective applications**
Kwang Poo Chang, Rosalind Franklin University of Medicine and Science, USA

14:00-14:20 **Structural insights into antibiotic action on the ribosome**
Andrei A. Korostelev, University of Massachusetts Medical School, USA

14:20-14:40 **Mechanisms of antigen uptake at mucosal surfaces and the relevance for vaccine design**
Vjollca H. Konjufca, Southern Illinois University, USA

14:40-15:00 **Antimicrobial activities of natural compounds against susceptible and antibiotic-resistant pathogens in the absence and presence of food**
Mendel Friedman, Western Regional Research Center, USA

15:00-15:20 **Type I toxin-antitoxin systems in *Escherichia coli***
Mitsuoki Kawano, Niigata Univ. of Pharm, Japan

15:20-15:40 **Techniques for the identification and exploitation of novel antimicrobial targets**
Ali Ryan, Kingston University, UK

15:40-16:00 **Bacillus as a source of novel antibiotics**
Patrick Fickers, Universite libre de Bruxelles, Belgium

16:00-16:20 **The Effect of antimicrobial agents on shiga toxin 2 release in *Escherichia coli* O104:H4 and role of the SOS response**
Ghassan M Matar, American University of Beirut, Lebanon

Coffee Break 16:20-16:35 @ Versailles Foyer

16:35-16:55 **Qnr proteins: Structure and properties against quinolone inhibition of DNA gyrase**
María M. Tavío, University of Las Palmas de Gran Canaria, Spain

16:55-17:15 **Angels and demons: Microbes or man?**
Yogandree Ramsamy, University Of Kwa Zulu Natal, South Africa

17:15-17:35 **High prevalence of faecal carriage of bla-SHV type extended spectrum-β lactamases producing Escherichia coli among healthcare workers**
Rasha H. Bassyouni, Fayoum University, Egypt

17:35-17:55 **Towards anti virulence drugs targeting disulfide bond-forming enzyme DsbA**
Prem Lakshmanane, The University of Queensland, Australia

17:55-18:15 **A chimeric protein (mTcd138) comprising the glucosyltransferase and domains of toxin B and the receptor binding domain of toxin A provides full protection against *Clostridium difficile* infection in mice**
Xingmin Sun, Tufts University, USA

15:00-16:15 Poster Presentations @ Versailles Foyer

Poster Judges: Michael Y. Galperin, National Center for Biotechnology Information, USA
Ilaria Ferlenghi, Novartis Vaccines Research Centre, Italy

B-001 **Multi-locus sequence typing of *Campylobacter jejuni* using a novel Polymerase-Chain-Reaction-Microsphere method**
Ross T. Barnard, The University of Queensland, Australia

B-002 **The effect of lowering *S. pneumoniae* MIC: Penicillin/Ampicillin live on as treatment for Pneumonia**
Jennifer Bowes, University of Ottawa, Canada

B-003 **The effect of flavonoids from Malaysian propolis in regulating enterococcus faecalis biofilm virulent gene expressions**
Amalraj Fabian Davamani, International Medical University, Malaysia

B-004 **The effect of mycobacterium vaccae on ultrasonic vocalizations of male mice during anxiety-provoking situations**
Dorothy Matthews, The Sage Colleges, USA

B-005 **Characterising the host response of Balb/c mice to *Burkholderia pseudomalleiusing* RNASeq**
Jonathan David, Biomedical Sciences, UK

B-006 **Understanding the mechanisms underlying bacterial bio-flocculant production**
Arinze Okoli, GenØK-Centre for Biosafety, Norway

B-007 **Comparative in-vitro activities of trimethoprim-sulfamethoxazole and the new fluoroquinolones against confirmed extended spectrum β-Lactamase producing *Stenotrophomonas maltophilia* recovered from the Eastern Cape Province, South Africa**
Anthony Okoh & Uchechukwu Nwodo, University of Fort Hare, South Africa

B-008 **Characterization of bioflocculant produced by actinobacterium sp. mayor**
Leonard Mabinya, University of Fort Hare, South Africa

B-009 **Motif search-aided screening of the *Pseudomonas syringaepv*. maculicolagenome for genes encoding tertiary alcohol ester hydrolases**
Maruping Mangena, University of Johannesburg, South Africa

B-010 **Effects of DNA size on cell transfection**
Benjamin Hornstein, Baylor College of Medicine, USA

B-011 **Varicella-zoster meningitis with a late-onset of skin eruption: a case report**
Sikarin Upala, Bassett Medical Center, USA

B-012 **Candidate gene approaches reveal new target pathways for treating antibiotic-resistant gram-negative bacterial infections**
Zachary C. Conley, Baylor College of Medicine, USA

B-013 **Optimizing a strategy for molecular identification of species from Mycobacterium avium-intracellulare complex**
Dechassa Terefe Lemu, Haramaya University College of Veterinary Medicine, Ethiopia

B-014 **Computer-assisted antibacterial drug design. Searching potential inhibitors of acetohydroxyacid synthase from methicillin resistant *Staphylococcus aureus***
Alfredo Téllez-Valencia, Juárez University of Durango State, México

B-015 **Drug design against nosocomial infections. Homology modeling and Virtual screening in shikimate dehydrogenase from *Enterobacter cloacae* to find potential inhibitors.**
Claudia Isela Avitia-Domínguez, Juárez University of Durango State, México

16:35-18:00 **Poster Presentations @ Versailles Foyer**

Poster Judges: Michael Y. Galperin, National Center for Biotechnology Information, USA
Ilaria Ferlenghi, Novartis Vaccines Research Centre, Italy

B-016 **Novel strategies for the development of heterologous protein production processes based on thepPOX2 promoter in the yeast Yarrowia lipolytica.**
Hosni Sassi, Free University of Brussels, Belgium

B-017 **Identification and characterisation of *Staphylococcus aureus* isolated from nasal swabs obtained from patients and healthcare workers at a tertiary hospital in Nigeria**
Aminat Oluwatoyin Adelowotan, University of Pretoria, South Africa

B-018 **Distinguish, identification and study of antibiotic resistance profile of Nosocomial infectious pathogens**
Tea Koiava, Shota Rustaveli State University, Georgia

B-019 **Draft genome sequences and description new probiotic strain of *Lactobacillus rhamnosus* CLS17**
Samat Kozhakhmetov, The Center for Life Sciences Nazarbayev University, Republic of Kazakhstan

B-020 **Beneficial effects of the new synbiotic dairy product nar on human beings**
Zhanagul Khassenbekova, The Center for Life Sciences Nazarbayev University, Republic of Kazakhstan

B-021 **Synthesis of new fatty acid amides derivates of castor oil with antituberculosisactivity**
Silvia Guzmán-Beltrán, National Institute of Respiratory Diseases, Mexico

B-022 **Nordihydroguaiaretic acid inhibits *Mycobacterium tuberculosis* survival in vitro and in infected human cell line**
Martha Torres Rojas, National Institute of Respiratory Diseases, Mexico

B-023 **Antimicrobial susceptibility of *Staphylococci* isolated from small animals**
Juan David Valencia Bacca, University of Sao Paulo, Brazil

B-024 **Search for adhesins-encoding genes in Staphylococcus spp. isolated from small animals**
Juan David Valencia Bacca & Tatiana Jimenez Villegas, University of Sao Paulo, Brazil

B-025 **Mycobacterium tuberculosis**
Yi Jiang, National Institute of Communicable Disease Control & Prevention Chinese Center for Disease Control & Prevention, P. R. China

B-026 **Bacterial phenylalanyl-tRNA synthetase as an antibacterial target**
Ed T. Buurman, AstraZeneca, USA

B-027 **Malignant sinusitis causing cerebral septic thromboses**
Sharon Joo, University of Nevada, USA

B-028 **Assessment of Genotoxicity of Imidacloprid to freshwater teleost Channa punctatus (Bloch) using Micronucleus assay and Comet assay**
Padma Priya Balijepalli, GITAM University, India

B-029 **Phenotypic characterization of Enterobacteriaceae producing Extended-spectrum-β-lactamase from poultry in Brazil**
Marita Vedovelli Cardozo, Sao Paulo State University, Brazil

18:30-19:30 Cocktails Sponsored by Mycobacterial Diseases @ Versailles Foyer

Day 3 November 19, 2014

Versailles - B

Track 7: Epidemiology, Emerging Infectious Diseases & Public Response Planning
Track 8 : Medical Microbiology - From Benchtop to Clinic
Track 9: Microbial Genomics, Systems Biology and Bioinformatics
Track 10 : Multi-Pathogen Infections & Post-Infection Sequelea
Track 11 : Industrial and Applied Bacteriology

Session Chair: Eric T. Harvill, Penn State University, USA
Session Co-Chair: Wanda C. Reygaert, Oakland University, USA

Session Introduction

09:00-09:20 **CNS complications from acute sinusitis in children**
Pisespong Patamasucon, University of Nevada School of Medicine, USA

09:20-09:40 **How To Handle a Superbug: Insights on diagnosis and treatment of methicillin-resistant *Staphylococcus aureus***
Wanda C. Reygaert, Oakland University, USA

09:40-10:00 **Molecular typing of community acquired MRSA isolated from retail meats by spa typing PFGE and MLST**
Mohamed K Fakhr, The University of Tulsa, USA

10:00-10:20 **Genome analysis of a salmon pathogen *Piscirickettsia salmonis* reveals insight into metabolism and pathogenesis**
Alejandro Yañez, Southern University of Chile, Chile

10:20-10:40 **Single cell RNA seq reveals heterogeneity of *salmonella* and macrophage factors that control infection outcome**
Roi Avraham, Broad Institute of MIT and Harvard, USA

Coffee Break 10:40-10:55 @ Versailles Foyer

10:55-11:15 **Studies of evolution and genetics of metabolic functions by high-throughput methods in bacteria and their hosts**
Joao Marcelo Pereira Alves, University of Sao Paulo, Brazil

11:15-11:35 **Is it cost effective to pool donations for Nucleic Acid Testing for HCV screening in Blood Banks from high prevalence communities?**
Manal M Baddour, Alexandria University Faculty of Medicine, Egypt

11:35-11:55 ***In vivo* monitoring the intracellular pH variation upon Aspergillus fumigatus infection in single apoptotic human monocytes**
Sara Mohebbi, Leibniz-Institute for Natural Product Research and Infection Biology, Germany

11:55-12:15 **Could have Brevibacillus a soil microbe transmuted in to a possible uropathogen?**
Suneeva Sharon Christa A, VIT University, India

12:15-12:35 **Bacteriology and antibiotic sensitivity patterns of urine and biofilm in patients with indwelling urinary catheter in a tertiary hospital in Bangladesh**
Mahabubul Islam Majumder, Comilla Medical College, Bangladesh

Lunch Break 12:35-13:15 @ Monaco

13:15-13:35 **Epidemiology of tinea capitis at primary school children in Fayoum City-Egypt**
Naglaa A. El Sherbiny, Fayoum University, Egypt

13:35-13:55 **Competition between invading pathogens and resident respiratory tract microbiota**
Eric T. Harvill, Penn State University, USA

13:55-14:15 **ß-phenylethylamine as a novel inhibitor of *E. coli* biofilm**
Birgit M Pruss, North Dakota State University, USA

14:15-14:35 **Lantibiotics from *Streptococcus salivarius* as potential antimicrobials**
Koshy Philip, University of Malaya, Malaysia

14:35-14:55 **Nanotechnology incorporated to the development of tests aiming to the detection of bacterial pathogens**
Ikonomopoulos John, Agricultural University of Athens Greece, Greece

14:55-15:15 **3-nitrotoluene biomineralizationby diaphorobacter species**
Gurunath Ramanathan, Indian Institute of Technology Kanpur, India

15:15-15:35 **Genetic diversity, host range and molecular analysis of the virulence determinants of *Escherichia coli* O157:H7 isolated from different sources**
Collins Njie Ateba, North West University-Mafikeng Campus, South Africa

Coffee Break 15:35-15:50 @ Versailles Foyer

Closing Ceremony

Engineering & Applied Sciences

4th International Conference on
Nanotek & Expo
December 01-03, 2014 San Francisco, USA

International Summit on
Industrial Engineering
December 08-10, 2014 San Francisco, USA

Medical Science

3rd International Conference and Exhibition on
Obesity & Weight Management
December 01-03, 2014 San Francisco, USA

Pharmaceutical/Chemistry

2nd International Summit on
Clinical Pharmacy
December 02-03, 2014 San Francisco, USA

3rd International Conference on
Medicinal Chemistry & Computer Aided Drug Designing
December 08-10, 2014 San Francisco, USA

Bookmark your dates

OMICS Group Conferences
Accelerating Scientific Discovery

3rd International Congress on
Bacteriology & Infectious Diseases
August 04-06, 2015 Valencia, Spain

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Europe: 0805-080048

Bookmark your dates

OMICS Group Conferences
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4th International Conference and Exhibition on
Pathology
July 13-15, 2015 New Orleans, LA, USA

OMICS Group Conferences
Accelerating Scientific Discovery

9th American
Biotechnology Congress
August 31-September 02, 2015 Orlando, FL, USA

OMICS Group Conferences
Accelerating Scientific Discovery

4th International Conference and Exhibition on
Immunology
September 28-30, 2015 Houston, TX, USA

OMICS Group Conferences
Accelerating Scientific Discovery

4th International Conference on
Clinical Microbiology & Microbial Genomics
October 5-7, 2015 Philadelphia, PA, USA

OMICS Group Conferences
Accelerating Scientific Discovery

5th American Global summit and Expo on
Vaccines & Vaccination
October 5-7, 2015 San Francisco, CA, USA

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