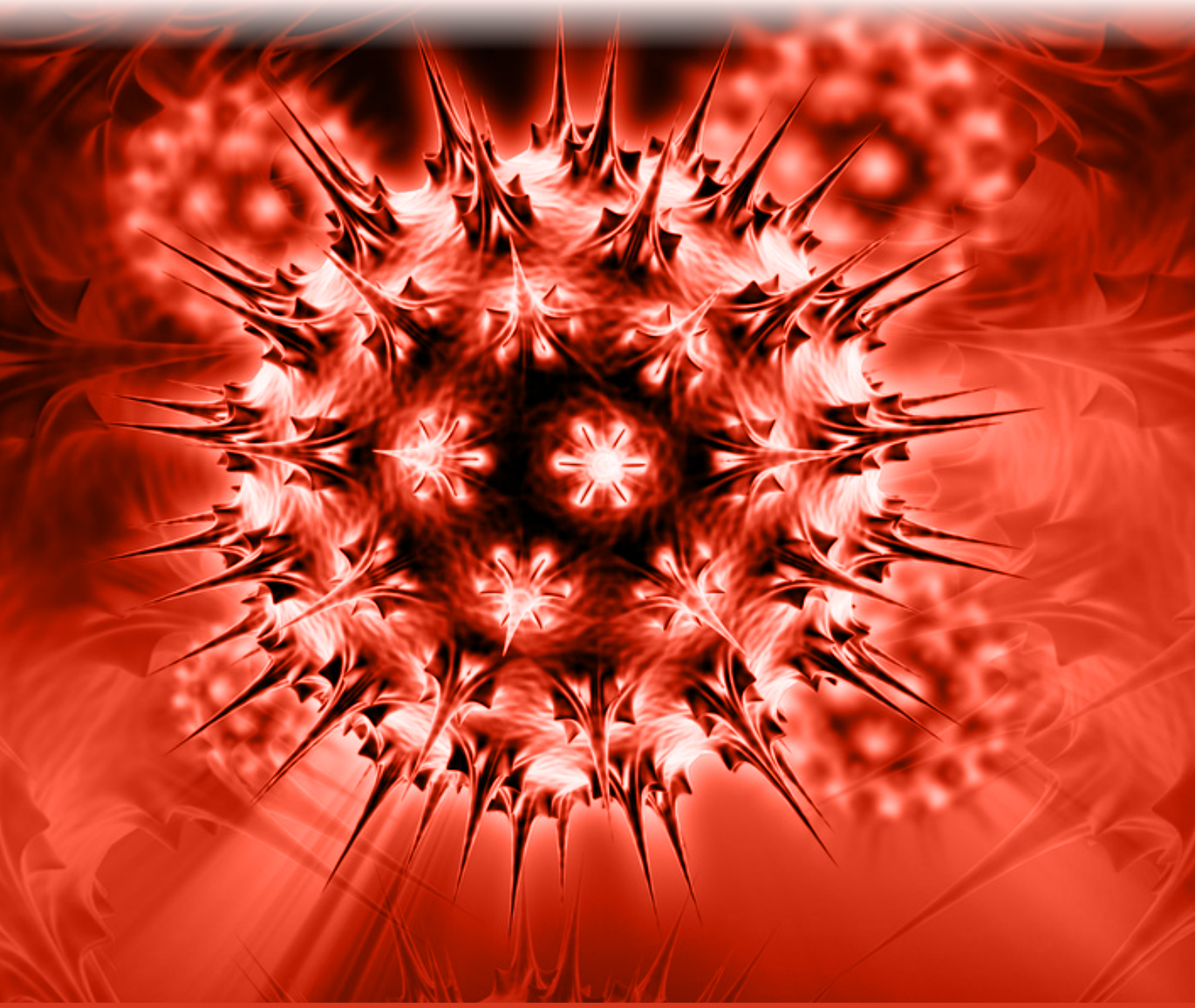


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*Scientific Program*

2<sup>nd</sup> International Congress on  
**Bacteriology & Infectious Diseases**

November 17-19, 2014 DoubleTree by Hilton Hotel Chicago-North Shore, USA



**Conference Series**

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## Versailles - B

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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 &amp; Metabolism

Track 2: Bacterial Pathogenesis, Virulence &amp; 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 **Title: Spectroscopic analyses of Gram-negative bacterial iron transport reactions**

Phillip E. Klebba, Kansas State University, USA

11:00-11:20 **Title: Diagnostic potentials of *M. tuberculosis*-specific proteins and peptides**

Abu Salim Mustafa, Kuwait University, Kuwait

11:20-11:40 **Title: A soluble auto assembling heptameric *Staphylococcus aureus* alpha-hemolysin as a vaccine candidat**

Ilaria Ferlenghi, Novartis Vaccines Research Centre, Italy

11:40-12:00 **Title: The evolution of virulence in *Streptococcus pyogenes***

Francis J. Castellino, University of Notre Dame, USA

12:00-12:20 **Title: 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 **Title: 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 **Title: 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 **Title: *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 **Title: 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 **Title: Virulence and transmission of bacteria inducing tooth decay**

Ling Zhan, University of California, USA

14:40-15:00 **Title: Mycobacterial manipulation of the host innate immune response**

Cory M. Robinson, The University of South Carolina School of Medicine, USA

- 15:00-15:20 **Title: Biological and pathogenic regulatory role of salmonellagidAB operon**  
Amin A. Fadl, University of Wisconsin-Madison, USA
- 15:20-15:40 **Title: 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 **Title: 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 **Title: 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 **Title: 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 **Title: Metabolic control of virulence potential of the agent of Lyme disease**  
Janakiram Seshu, The University of Texas, USA
- 17:15-17:35 **Title: Bactofection of mammalian cells by an attenuated derivatives of Pasteurella multocida B:2**  
Sarah Othman, Universiti Putra Malaysia, Malaysia
- 17:35-17:55 **Title: Leprosy scenario in India**  
Abha Aggarwal, ICMR, India
- 17:55-18:15 **Title: Methodology of collection of spontaneous sputum for microbiological confirmation of the diagnosis of pulmonary tuberculosis, pulmonary disease by non-tuberculous mycobacteria or for follow-up of out- and in-patients under anti-tuberculous the rap**  
Zerihun Tesfaye, Addis ababa University, Ethiopia
- 18:15-18:35 **Title: Phytochemical screening of the exudate 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, Tetrphase Pharmaceuticals, USA

Session Introduction

- 10:40-11:00 **Title: 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 **Title: Eravacycline, a novel fluorocycline, is highly efficacious in treating tularemia and anthrax in animal models**  
Joyce A. Sutcliffe, Tetrphase Pharmaceuticals, USA
- 11:20-11:40 **Title: Carbon Monoxide: A poison to microbes**  
B.Y.Chin, International Medical University, Malaysia
- 11:40-12:00 **Title: The role of plant metabolites in sensitive analytical detection of food borne illness pathogens**  
Alan Olstein, Paradigm Diagnostics, Inc, USA
- 12:00-12:20 **Title: 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 **Title: 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 **Title: Bioassays for evaluation of medical products derived from bacterial toxins**

Thea Sesardic, National Institute for Biological Standards and Control, UK

13:40-14:00 **Title: 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 **Title: Structural insights into antibiotic action on the ribosome**

Andrei A. Korostelev, University of Massachusetts Medical School, USA

14:20-14:40 **Title: Mechanisms of antigen uptake at mucosal surfaces and the relevance for vaccine design**

Vjollca H. Konjufca, Southern Illinois University, USA

14:40-15:00 **Title: 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 **Title: Type I toxin-antitoxin systems in *Escherichia coli***

Mitsuoki Kawano, Niigata Univ. of Pharm, Japan

15:20-15:40 **Title: Techniques for the identification and exploitation of novel antimicrobial targets**

Ali Ryan, Kingston University, UK

15:40-16:00 **Title: *Bacillus* as a source of novel antibiotics**

Patrick Fickers, Universite libre de Bruxelles, Belgium

16:00-16:20 **Title: 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 **Title: 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 **Title: Angels and demons: Microbes or man?**

Yogandree Ramsamy, University Of Kwa Zulu Natal, South Africa

17:15-17:35 **Title: High prevalence of faecal carriage of bla-SHV type extended spectrum- $\beta$  lactamases producing *Escherichia coli* among healthcare workers**

Rasha H. Bassyouni, Fayoum University, Egypt

17:35-17:55 **Title: Towards anti virulence drugs targeting disulfide bond-forming enzyme DsbA**

Prem Lakshmanane, The University of Queensland, Australia

17:55-18:15 **Title: 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 **Title: 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 **Title: The effect of lowering *S. pneumoniae* MIC: Penicillin/Ampicillin live on as treatment for Pneumonia**

Jennifer Bowes, University of Ottawa, Canada

B-003 **Title: The effect of flavonoids from Malaysian propolis in regulating enterococcus faecalis biofilm virulent gene expressions**

Amalraj Fabian Davamani, International Medical University, Malaysia

B-004 **Title: The effect of mycobacterium vaccae on ultrasonic vocalizations of male mice during anxiety-provoking situations**

Dorothy Matthews, The Sage Colleges, USA

B-005 **Title: Characterising the host response of Balb/c mice to *Burkholderia pseudomallei* using RNASeq**

Jonathan David, Biomedical Sciences, UK

B-006 **Title: Understanding the mechanisms underlying bacterial bio-flocculant production**

Arinze Okoli, GenØK-Centre for Biosafety, Norway



- B-007** **Title: Comparative in-vitro activities of trimethoprim-sulfamethoxazole and the new fluoroquinolones against confirmed extended spectrum  $\beta$ -Lactamase producing *Stenotrophomonas maltophilia* recovered from the Eastern Cape Province, South Africa**  
Anthony Okoh & Uchechukwu Nwodo, University of Fort Hare, South Africa
- B-008** **Title: Characterization of bioflocculant produced by actinobacterium sp. mayori**  
Leonard Mabinya, University of Fort Hare, South Africa
- B-009** **Title: Motif search-aided screening of the *Pseudomonas syringae* pv. *maculicola* genome for genes encoding tertiary alcohol ester hydrolases**  
Maruping Mangena, University of Johannesburg, South Africa
- B-010** **Title: Effects of DNA size on cell transfection**  
Benjamin Hornstein, Baylor College of Medicine, USA
- B-011** **Title: Varicella-zoster meningitis with a late-onset of skin eruption: a case report**  
Sikarin Upala, Bassett Medical Center, USA
- B-012** **Title: 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** **Title: 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** **Title: 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** **Title: 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** **Title: Novel strategies for the development of heterologous protein production processes based on the pPOX2 promoter in the yeast *Yarrowia lipolytica*.**  
Hosni Sassi, Free University of Brussels, Belgium
- B-017** **Title: 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** **Title: Distinguish, identification and study of antibiotic resistance profile of Nosocomial infectious pathogens**  
Tea Koiava, Shota Rustaveli State University, Georgia
- B-019** **Title: 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** **Title: 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** **Title: Synthesis of new fatty acid amides derivatives of castor oil with antituberculosis activity**  
Silvia Guzmán-Beltrán, National Institute of Respiratory Diseases, Mexico
- B-022** **Title: 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** **Title: Antimicrobial susceptibility of *Staphylococci* isolated from small animals**  
Juan David Valencia Bacca, University of Sao Paulo, Brazil
- B-024** **Title: 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** **Title: *Mycobacterium tuberculosis***  
Yi Jiang, National Institute of Communicable Disease Control & Prevention Chinese Center for Disease Control & Prevention, P. R. China
- B-026** **Title: Bacterial phenylalanyl-tRNA synthetase as an antibacterial target**  
Ed T. Buurman, AstraZeneca, USA
- B-027** **Title: Malignant sinusitis causing cerebral septic thromboses**  
Sharon Joo, University of Nevada, USA
- B-028** **Title: Assessment of Genotoxicity of Imidacloprid to freshwater teleost *Channa punctatus* (Bloch) using Micronucleus assay and Comet assay**  
Padma Priya Baliyepalli, GITAM University, India
- B-029** **Title: Phenotypic characterization of Enterobacteriaceae producing Extended-spectrum- $\beta$ -lactamase from poultry in Brazil**  
Marita Vedovelli Cardozo, Sao Paulo State University, Brazil

18:30-19:30

Cocktails Sponsored by Mycobacterial Diseases @ Versailles Foyer

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 Sequela

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 **Title: CNS complications from acute sinusitis in children**  
Pisespong Patamasucon, University of Nevada School of Medicine, USA
- 09:20-09:40 **Title: 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 **Title: Molecular typing of community acquired MRSA isolated from retail meats by spa typing PFGE and MLST**  
Mohamed K Fakh, The University of Tulsa, USA
- 10:00-10:20 **Title: 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 **Title: 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 **Title: 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 **Title: 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 **Title: *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 **Title: Could have *Brevibacillus* a soil microbe transmuted in to a possible uropathogen?**  
Suneeva Sharon Christa A, VIT University, India
- 12:15-12:35 **Title: 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 **Title: Epidemiology of tinea capitis at primary school children in Fayoum City-Egypt**  
Naglaa A. El Sherbiny, Fayoum University, Egypt
- 13:35-13:55 **Title: Competition between invading pathogens and resident respiratory tract microbiota**  
Eric T. Harvill, Penn State University, USA
- 13:55-14:15 **Title:  $\beta$ -phenylethylamine as a novel inhibitor of *E. coli* biofilm**  
Birgit M Pruss, North Dakota State University, USA
- 14:15-14:35 **Title: Lantibiotics from *Streptococcus salivarius* as potential antimicrobials**  
Koshy Philip, University of Malaya, Malaysia
- 14:35-14:55 **Title: 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 **Title: 3-nitrotoluene biomineralization by diaphorobacter species**  
Gurunath Ramanathan, Indian Institute of Technology Kanpur, India
- 15:15-15:35 **Title: 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

4<sup>th</sup> 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

3<sup>rd</sup> International Conference and Exhibition on

*Obesity & Weight Management*

December 01-03, 2014 San Francisco, USA

## Pharmaceutical/Chemistry

2<sup>nd</sup> International Summit on

*Clinical Pharmacy*

December 02-03, 2014 San Francisco, USA

3<sup>rd</sup> International Conference on

*Medicinal Chemistry & Computer Aided Drug Designing*

December 08-10, 2014 San Francisco, USA

**Bookmark your dates**

3<sup>rd</sup> International Congress on

**Bacteriology & Infectious Diseases**

August 04-06, 2015 Valencia, Spain