7th International Conference and Exhibition on

Bacteriology & Antibiotics

April 24-25, 2019   Vancouver, Canada

Theme:
Challenges and New Concepts in Bacteriology & Antibiotics Research

Past 6 years Scientific Program

Conference Secretariat
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https://bacteriology.conferenceseries.com/
Opening Ceremony

Keynote Forum

Gregory A. Buck
Virginia Commonwealth University, USA

Fernando Villalta
Meharry Medical College, USA

Jean Pierre Changeux
Pasteur Institute, France

Dennis J. Helfrich
U.S. Army Research Laboratory, USA

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

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

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

Title: Contribution of host thrombosis and fibrinolytic cascades to the pathogenesis of gram-positive infections
Peter Panizzi, Auburn University, USA
Title: Antibody orientation at bacterial surfaces has implications for both mild and severe infections
Pontus Nordenfelt, Harvard University, USA
Title: T-helper 1, T-helper 2, pro-inflammatory and anti-inflammatory cytokines in tuberculosis
Abu Salim Mustafa, Kuwait University, Kuwait
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
Title: The use of different laboratory methods in diagnosis of Helicobacter pylori infection a comparative study
Nermin H. Ibrahim, King Saud University, Saudi Arabia
Title: Acquired Immune Deficiency Syndrome (AIDS), Diabetes Mellitus and Tuberculosis; A challenging scenario
Amer Hayat Khan, Universiti Sains Malaysia, Malaysia
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
Day 2  November 21, 2013

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

Title: New frontiers in bacteriology 2013: Biofilms , the international language of infectious diseases
John G Thomas, West Virginia University, USA
Title: The DNABII family of proteins: Diagnostic markers and therapeutic targets of bacterial biofilms
Steven D. Goodman, Nationwide Children's Hospital, USA
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
Title: Fecal transplantation of patients with Clostridium difficile associated disease results in the complete replacement of original distal gut microbiota
Oleg Polty, Wright State University, USA
Title: A chemical genetic approach to identifying essential functions in non-pathogenic Mycobacterium tuberculosis
Sarah Schmidt Grant, Brigham and Womens Hospital, USA
Title: Two component systems and biofilm lifestyle in Pseudomonas aeruginosa
Sophie de Bentzmann, Aix Marseille University, France

Title: Disseminated BCG itis in children with primary immunodeficiency
Daifulah ALZahrani, King Abdulaziz Medical City, Saudi Arabia
Title: Occurrence of feco oral and blood borne hepatitis virus infection among children in North India
Hitender Gautam, Chaucha Nehru Bai Chikhilatoya, India
Title: Mycobacterial infection in the livestock and wildlife interface of Katavi Rukwa ecosystem, Tanzania
Makanda E. Zachariak, Sokoline University of Agriculture, Tanzania
Title: The risk factors for and effects of visceral leishmaniasis in graft and renal transplant recipients
Avael Alves Da Silva, Federal University of Paul, Brazil
Title: An epidemic of Aeromonas hydrophila in catfish: Has an emerging bacterial pathogen been introduced via invasive carp?
Mohammad J. Hossain, Auburn University, USA

Title: Treatment of cutaneous leishmaniasis by topical application of honey
Mahasen Wadi, King Saud University, Saudi Arabia
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
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
Title: Autophagy mediated clearance of Burkholderia cenocepacia in cystic fibrosis
Benjamin T Kopp, Nationwide Childrens Hospital, USA
Title: Neurological complications to botulinum toxin A therapy
Anna Hristova, Institute for Future Sciences and Medicine, USA

Title: Does the companion diagnostics approach work for antibiotics?
Philip Onigman, Grand Street Consulting, USA
Title: Hygiene practices adopted by meat sellers in Owerri municipal local government area, Imo State, Nigeria
Inikori Ogechi Rosemary, Imo State University Owerri,Nigeria
Title: Bacterial ureases and its role in long lasting human diseases
Wieslaw Kaca, Jan Kochanowski University, Poland
Title: The Th17 response triggered by Helicobacter pylori involves the cytokine BAFF
Marina de Bernard, University of Padova, Italy
Day 3  November 22, 2013

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

Title: From the past to the future: Clofazimine in the treatment of MDR-TB
Jacques H. Grosset, Johns Hopkins University School of Medicine, USA

Title: Helicobacter-induced colitis is reversed in "humanized" IL-10 transgenic mice
Jay H. Bream, Johns Hopkins Bloomberg School of Public Health, USA

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

Title: Development of ELISA and real time PCR for the diagnosis of strangles in horses
Sergey C. Artiushin, University of Kentucky, USA

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

Title: Isolation of toxigenic Clostridium difficile from raw bovine milk and the environment: a risk for public health?
Vincenza Romano, Parthenope University, Italy

Title: Within host infection dynamics in bacterial immunology and vaccine development
Pietro Mastroeni, University of Cambridge, United Kingdom

Title: Development of vaccines to control chlamydial infection and disease: Are we making any progress?
Peter Timms, Queensland University of Technology, Australia

Title: Bacteriophage therapy against antibiotic resistant bacterial infections
Mzia Kutateladze, G. Eliava Institute, Georgia

Title: Antimicrobial peptides as novel alternative agents for treatment of infectious diseases
Margit Mahlapuu, Pergamum AB, Sweden

Title: Structural and functional investigation of MexA/MexB/OprM, a multidrug efflux pump from Pseudomonas aeruginosa
Martin Picard, Universite Paris Descartes, France

Title: New face of an old drug: Celecoxib as an antibacterial agent
Arunasree M. Kalle, University of Hyderabad, India

Title: Surveillance and stewardship: Sense and sensibility
Yogandree Ramsamy, University of KwaZulu Natal, South Africa

Title: Genome characteristics of a Campylobacter jejuni 63A isolated from california gull excreta
Jingrang Lu, S.U.S. EPA National Exposure Research Laboratory, USA

Title: Impact of next generation sequencing formats on microbial genomics
Manohar R. Furtado, Biology for Global Good Consulting, USA

Title: A bacteria strain as a model for screening the antitumor materials
Xin Mingxiu, Beijing Normal University, P. R. China

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

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
Opening Ceremony

Keynote Forum

Introduction
Gregory A. Buck
Virginia Commonwealth University, USA
Michael Y. Galperin
National Center for Biotechnology Information, USA
Ed T Buurman
AstraZeneca, USA
Massimo Cecaro
EIC, National Councilor of Italian Medical Press, Italy

Session Introduction

Title: Spectroscopic analyses of Gram-negative bacterial iron transport reactions
Phillip E. Klebba, Kansas State University, USA

Title: Diagnostic potentials of M. tuberculosis-specific proteins and peptides
Abu Salim Mustafa, Kuwait University, Kuwait

Title: A soluble auto assembling heptameric Staphylococcus aureus alpha-hemolysin as a vaccine candidate
Ilaria Ferlenghi, Novartis Vaccines Research Centre, Italy

Title: The evolution of virulence in Streptococcus pyogenes
Francis J. Castellino, University of Notre Dame, USA

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

Title: Detection of Legionella spp., L. pneumophila and L. pneumophila serogroup 1 in drinking water system
Jingrang Lu, US Environmental Protection Agency, USA

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

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

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

Title: Virulence and transmission of bacteria inducing tooth decay
Ling Zhan, University of California, USA

Title: Mycobacterial manipulation of the host innate immune response
Cory M. Robinson, The University of South Carolina School of Medicine, USA

Group Photo

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
Introduction

Stephen Hanessian  
University of Montreal, Canada

Marcelo E. Tolmasky  
California State University Fullerton, USA

Akira Kaji  
University of Pennsylvania, USA

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

Title: Melioidosis and glanders: Diseases in search of animal models, vaccines, and therapeutics
Kei Amemiya, US Army Medical Research Institute of Infectious Diseases, USA
Title: Eravacycline, a novel fluorocycline, is highly efficacious in treating tularemia and anthrax in animal models
Joyce A. Sutcliffe, Tetraphase Pharmaceuticals, USA
Title: Carbon Monoxide: A poison to microbes
B.Y. Chin, International Medical University, Malaysia
Title: The role of plant metabolites in sensitive analytical detection of food borne illness pathogens
Alan Olstein, Paradigm Diagnostics, Inc, USA
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
Title: Paratuberculosis in the Kingdom of Saudi Arabia: A review of current situation
Fadhel Housawi, King Faisal University, Saudi Arabia
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

Title: Bioassays for evaluation of medical products derived from bacterial toxins
Thea Sesardic, National Institute for Biological Standards and Control, UK

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

Title: Structural insights into antibiotic action on the ribosome
Andrei A. Korostelev, University of Massachusetts Medical School, USA

Title: Mechanisms of antigen uptake at mucosal surfaces and the relevance for vaccine design
Vjolca H. Konjufca, Southern Illinois University, USA

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

Title: Type I toxin-antitoxin systems in Escherichia coli
Mitsuoki Kawano, Niigata Univ. of Pharm, Japan

Title: Techniques for the identification and exploitation of novel antimicrobial targets
Ali Ryan, Kingston University, UK

Title: Bacillus as a source of novel antibiotics
Patrick Pickers, Universite libre de Bruxelles, Belgium

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

Title: Qnr proteins: Structure and properties against quinolone inhibition of DNA gyrase
Maria M. Tavio, University of Las Palmas de Gran Canaria, Spain

Title: Angels and demons: Microbes or man?
Yogandree Ramsamy, University Of Kwa Zulu Natal, South Africa

Title: 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

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

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

Poster Presentations

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

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

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

Title: The effect of flavonoids from Malaysian propolis in regulating enterococcus faecalis biofilm virulent gene expressions
Amalraj Fabian Davamani, International Medical University, Malaysia

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

Title: Characterising the host response of Balb/c mice to Burkholderia pseudomallei using RNASeq
Jonathan David, Biomedical Sciences, UK

Title: Understanding the mechanisms underlying bacterial bio-flocculant production
Arinze Okoli, GenØK-Centre for Biosafety, Norway

Title: 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
Title: Characterization of bioflocculant produced by actinobacterium sp. mayor
Leonard Mabinya, University of Fort Hare, South Africa

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

Title: Effects of DNA size on cell transfection
Benjamin Hornstein, Baylor College of Medicine, USA

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

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

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

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

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

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

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

Title: Distinguish, identification and study of antibiotic resistance profile of Nosocomial infectious pathogens
Tea Koiava, Shota Rustaveli State University, Georgia

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

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

Title: Synthesis of new fatty acid amides derivatives of castor oil with antituberculosis activity
Silvia Guzmán-Beltrán, National Institute of Respiratory Diseases, Mexico

Title: Nordihydroguaiaretic acid inhibits Mycobacterium tuberculosis survival in vitro and in infected human cell line
Martha Torres Rojas, National Institute of Respiratory Diseases, Mexico

Title: Antimicrobial susceptibility of Staphylococci isolated from small animals
Juan David Valencia Bacca, University of Sao Paulo, Brazil

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

Title: Mycobacterium tuberculosis
Yi Jiang, National Institute of Communicable Disease Control & Prevention Chinese Center for Disease Control & Prevention, P. R. China

Title: Bacterial phenylalanyl-tRNA synthetase as an antibacterial target
Ed T. Buurman, AstraZeneca, USA

Title: Malignant sinusitis causing cerebral septic thromboses
Sharon Joo, University of Nevada, USA

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

Title: Phenotypic characterization of Enterobacteriaceae producing Extended-spectrum-β-lactamase from poultry in Brazil
Marita Vedovelli Cardozo, Sao Paulo State University, Brazil
Title: **CNS complications from acute sinusitis in children**
Pisespong Patamasucon, University of Nevada School of Medicine, USA

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

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

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

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

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

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

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

Title: **Could have Brevibacillus a soil microbe transmuted in to a possible uropathogen?**
Suneeva Sharon Christa A, VIT University, India

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

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

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

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

Title: **Lantibiotics from Streptococcus salivarius as potential antimicrobials**
Koshy Philip, University of Malaya, Malaysia

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

Title: **3-nitrotoluene biomineralization by diaphorobacter species**
Gurunath Ramanathan, Indian Institute of Technology Kanpur, India

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
Scientific Program

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

Current innovations & Advancement against Bacterial Infection and Therapeutics

Meliá Valencia
Avenida Cortes Valencianas 52
Valencia 46015
Spain
Opening Ceremony

Keynote Forum

Introduction
A proposed new selective growth medium for the isolation of enteroaggregative shiga-toxigenic strains of the emerging pathogen Escherichia coli O104:H4
Kei Amemiya, US Army Medical Research Institute for Infectious Diseases, USA

Stress response in Mycobacteria: Cell shape and survival
Leif A. Kirsebom, Uppsala University, Sweden

In vivo studies with overlapping ORF junction reveal that the major function of RRF (ribosome recycling factor) is to release ribosomes from the termination codon of post-termination complex
Akira Kaji, University of Pennsylvania, USA

Group Photo
Title: Diversity, Bioactivity, and Secondary Metabolite profiles of bacteria isolated from different tissue of the Mollusk Gastropod Truncatella sp.
Malem Flores, University of the Philippines, Philippines

Title: Host-Helicobacter interactions in the mucus niche
Médea Padra, University of Gothenburg, Sweden

Title: Extreme antibiotic resistant Acinetobacter baumannii-related Pneumonia in a regional hospital
Enayatollah Kalantar, Alborz University of Medical Sciences, Iran

Title: Occurrence of Vibriocholerae in fish and water from a reservoir and a neighboring channel in Ouagadougou, Burkina Faso
Oumar Traore, National Laboratory of Public Health, Burkina Faso

Title: Immune responses to Mycobacterium avium infection and the role of MAPK pathway in regulation of signal transduction during the infection
Mohammed Shukur, University of Nottingham, United Kingdom

Title: Bacteriology & chemical analysis of Sulfur spring water in I Al-Qurayyat city
Meshref A. Al-ruwaili, Al-Jouf University, Saudi Arabia

Title: Assessment of Bacteriological contamination of groundwater used for drinking in Zolozolo, Nkhorongo and Ndirande Townships in Blantyre and Mzuzu Cities
John F. Kamanula, Mzuzu University, Malawi

Title: Antibacterial properties of new bacterium isolated from date palm leaves affected by the brittle leaf disease
Mouna Jrad, University of Sfax, Tunisia

Title: Recombination in the substrate recognition domain of TcdB confers a variant glucosyltransferase activity and a distinctive cytopathic effect to a Clostridium difficile strain from the hypervirulent clade II
Quesada-Gómez C, Universidad de Costa Rica, Costa Rica

Panel Discussion
Day 2 August 05, 2015

Keynote

Introduction

Keynote Speech

Track 5: Clinical Aspects of Bacterial Infections
Track 6: Epidemiology, Emerging Infectious Diseases and Public Response Planning
Track 7: Medical Microbiology - From Benchtop to Clinic

Session Chair: Ashraf M. Ahmed, King Saud University, Saudi Arabia
Session Co-chair: Antonio Fasanella, Anthrax Reference Centre of Italy, Italy

Title: Bacterial challenge in the control measures of mosquito-borne diseases: The battle against mosquito vectors
Ashraf M. Ahmed, King Saud University, Saudi Arabia

Title: Bacillus anthracis strains circulating in Albania
Emanuele Campese & Antonio Fasanella, Anthrax Reference Centre of Italy, Italy

Title: The parental use of antibiotics in children in Saudi Arabia
Arwa Alumran, Queensland University of Technology, Australia

Title: Prevalence of Diabetes type-2 & Pulmonary Tuberculosis among Filipinos and Treatment outcomes: A surveillance study in Eastern Saudi Arabia
Liaqat Ali Chaudhry, Chairman Internal Medicine, Saudi Arabia

Title: Bacterial infections and emerging resistance in renal transplant recipients
Inam Danish, Armed Forces Medical College, India

Title: Antibacterial activity of Sudanese bee honey: Laboratory and Clinical Evaluation
Mahasin Wadi, Dar Aluloom University, Saudi Arabia

Title: Profile of viral hepatitis in Saudi Arabia
Abdullah Bin Salamah, King Saud University college of Medicine, Saudi Arabia

Title: Low serum vitamin D in North Indian multi-drug resistant pulmonary tuberculosis patients: the role of diet and sunlight
Jaishriram Rathored, Aix-Marseille University, France

Title: Multiresistant Elizabethkingia Meningoseptica infections in tertiary care
Inam Danish, Armed Forces Medical College, India

Title: Knowledge, attitudes and practice of primary healthcare physicians concerning the occupational risks of hepatitis B virus in Al Jouf Province, Saudi Arabia
Ahmad Homoud Al-Hazmi, AL Jouf University, Saudi Arabia
Title: Association of genetic polymorphism of the DNA base excision repair gene (APE-1 Asp/148 Glu) and HPV type (16/18) with the risk of cervix cancer in north Indian population
M. Shekari, Hormozgan University of Medical Science, Iran

Title: Yellow Fever Outbreak in Obomeng, Ghana - December, 2013
Joseph K. Opare, School of Public Health, Ghana

Title: Modeling the Nigerian Public Health Care Competencies in Developing Responsive Public Health Care Systems in Early Filovirus (Ebola) Outbreaks in Developing Africa.
Augustine Omena Akeni, University of Benin, Nigeria

Title: Incidence of human rabies exposure and associated factors at Gondar Health Center, Ethiopia: a three-years retrospective study
Meseret Yibrah Yeebio, University of Gondar, Ethiopia

Title: Dissemination of IncF-type plasmids in multiresistant CTX-M-15-producing Enterobacteriaceae isolates from surgical-site infections in Bangui, Central African Republic (CAR)
Thierry Frank, Institut Pasteur de Bangui, Central African Republic

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**Poster Presentations**

**Panel Discussion**

**Day 3**
**August 06, 2015**

**Introduction**

**Track 8: Animal Bacterial Diseases**

**Track 9: Advances in Antimicrobials, Vaccines and Therapeutics**

**Track 10: Diagnostic Pathology of Infectious Disease**

**Session Chair:** Promod Mehta, Maharshi Dayanand University, India

**Session Co-chair:** Tony Velkov, Monash University, Australia

**Session Introduction**

**Title:** Comparing several gene targets of *Mycobacterium Tuberculosis* for designing Multiplex-PCR: Its implications for diagnosis of Extra Pulmonary Tuberculosis
Promod Mehta, Maharshi Dayanand University, India

**Title:** Development of novel antimicrobial lipopeptides against MDR Gram-negative 'superbugs'
Tony Velkov, Monash University, Australia

**Title:** New Antibacterial agents against Gram-negative Pathogens from a Fundacion MEDINA's microbial natural products collection screening
C. Diaz, Fundación MEDINA, Spain

**Title:** Impact of putative Bacteriocins against multidrug resistant clinical isolates
Samyia Abrar, University of the Punjab, Pakistan

**Title:** Amplification, cloning and expression of *Brucella melitensis* bp26 gene (OMP28) isolated from Markazi province (Iran) and purification of Bp26 Protein
Seyed Davood, Razi vaccine & Serum Research institute, Iran

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**Title:** Serum trace elements in active Pulmonary Tuberculosis by atomic absorption spectrophotometer
Zainab Manzoor Memon, Liaquat University of Medical & Health Sciences, Pakistan

**Title:** Comparison for encapsulated gentamicin efficiency within different neutral and negative charged liposomal formulations for treating pathogenic lung bacteria
Majed A. Majrash, King Abdulaziz city for Science and Technology, Saudi Arabia

**Title:** Antiibiogram of *Salmonella serotype Typhi and Paratyphi* isolated from patients suspected of Enteric fever
Mahendra Maharjan, Tribhuvan University, Nepal

**Title:** Antimicrobial peptide novicidin synergises with rifampicin, ceftriaxone and ceftazidime against antibiotic-resistant Gram-negative Enterobacteriaceae in vitro
Yanmin Hu, St George’s, University of London, United Kingdom

**Title:** Effective protection by high efficiency bicistronic DNA vaccine against anthrax expressing protective antigen and catalytically inactivated lethal factor
Bincy Joseph, College of Veterinary and Animal sciences, India

**Title:** Common non-steroidal anti-inflammatory drugs (NSAIDs) in the fight against tuberculosis (TB)
Sanjib Bhakta, University of London, United Kingdom

**Title:** Antimicrobial Activity of The Saponin Extract of Sansevieria trifasciata var. Golden Hahnii
Whika Febria Dewatisari, Universitas Terbuka, Indonesia

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**Title:** A Descriptive Analysis of Nontuberculous Mycobacterial Infections (NTM) of the Upper Extremity
Moataz Al-Khawy, Division of Infectious Diseases, Mayo Clinic, USA

**Title:** Novel approach to investigate syphilis pathogenesis, a neglected but devastating infectious disease
Nikhat Parveen, Rutgers New Jersey Medical School, USA
Title: DENV3 envelope protein of Dengue Virus: A potential target for the vaccine designing
Arun G Ingale, North Maharashtra University, India

Title: Accuracy of the Kato-Katz method in diagnosis of the diagnosis of S. Mansoni and soil transmitted Helminths infection in Zimbabwe
Nyandoro George, University of Zimbabwe, Zimbabwe

Title: Investigation and molecular typing of Brucella isolated from dairy cattle herd immunized with Brucella abortus RB51 vaccine in Egypt
Gamal Wareth, Institute of Bacterial Infections and Zoonoses, Germany

Title: Cloning, sequencing, expression, and purification of Staphylococcus simulans lysostaphin enzyme gene
Hossein Vazini, Islamic Azad University, Iran

Title: Unraveling the mechanistic details underlying the antimicrobial and antibiofilm activity of metal compounds
Joe A. Lemire, University of Calgary, USA
Scientific Program

Opening Ceremony

Keynote Forum

Introduction

Title: Extending the gut-brain axis: the curious case of *Helicobacter pylori*
Steven R Blanke, University of Illinois, USA

Title: The vaginal microbiome during pregnancy, what do we know?
George L. Mendz, The University of Notre Dame, Australia

Title: New non-synthetic antibacterial agents challenging the active and persistent forms of *Borrelia* ssp.
Anna Goc, Dr. Rath Research Institute BV, USA

Sessions

Track 1: Bacterial Morphology and Metabolism
Track 2: Bacterial Clinical Studies
Track 4: Emerging Infectious Diseases
Track 5: Bacterial Pathogenesis
Track 10: Microbial Genomics
Track 11: Industrial and Applied Bacteriology

Session Chair: George L. Mendz, The University of Notre Dame, Australia
Session Co-Chair: Steven R Blanke, University of Illinois, USA

Session Introduction

Title: Mutans *Streptococci* genomic sequencing: Potential applications for precision medicine to prevent tooth decay
Ling Zhan, University of California, USA

Title: Hydrocarbon-omics of bacterial appendages for controlling their pathogenic activities
Yan-Yeung Luk, Syracuse University, USA

Title: Quality of life among leprosy affected persons – A study in a rural block in Tamilnadu, India
G. Dinesh Kumar, SRM University, India

Title: Molecular study on *Streptococcus pneumoniae* isolated from patients suffering from respiratory tract infection using RAPD-PCR technique
Maysaa Mohammedawi, AL Nahrain University, Iraq
Special Session by

Title: The ins and outs of a new plague vaccine against an old disease
Kei Amemiya, US Army Medical Research Institute of Infectious Diseases, USA

Title: Characterization and kinetics study for rhamnolipids produced by an environmental Pseudomonas aeruginosa isolate
Mervat Kassem, Alexandria University, Egypt

Special Session - Video Presentation (Replacement Talk)

Title: Biosecurity in public health and how bacteria fight their war to infect new hosts
Stef Stienstra, Dutch Armed Forces / Royal Dutch Navy, Netherlands

Title: Specific chemicals induce phenotype reversal and inhibit alginate production by mucoid Pseudomonas aeruginosa
Yan-Yeung Luk, Syracuse University, USA

Title: Enhancement of strength and durability of concrete by bacterial calcite precipitation
Krishna Priya, SNS College of Technology, India

Title: Emerging infectious disease
Stevenson Many, Institut D’enseignement Chretien Siloe Medical Technology, Haiti

Day 2
May 17, 2016

Keynote Forum

Title: Interactions of the bacterial and host systems in the persistence of group A-streptococcal infections in humans
Francis J. Castellino, University of Notre Dame, USA

Title: Host-pathogen interactions by clinical strains of Burkholderia pseudomallei in a murine model of melioidosis
Kei Amemiya, US Army Medical Research Institute of Infectious Diseases, USA

Sessions

Track 3: Bacterial Identification Methods
Track 7: Veterinary Bacteriology
Track 8: Natural Microbial Defenses and Immunity

Session Chair: Francis J. Castellino, University of Notre Dame, USA

Session Co-Chair: Kei Amemiya, US Army Medical Research Institute of Infectious Diseases, USA

Session Introduction

Title: Systematically analysis antibacterial activity of CHAP catalytic domain of Staphylococcus aureus phage lysin Ply187
Qingshan Huang, Fudan University, China

Title: Comparative diversity of bacterial population and phylogenetic analysis of K99 fimbrial gene of ETEC isolated from healthy and diarrheic calves, Punjab, Pakistan
Tahir Yaqub, University of Veterinary & Animal Sciences, Pakistan
Title: Host micro RNAs contribute to immunity and development of pathology in *Chlamydia trachomatis* infection  
Rishein Gupta, University of Texas at San Antonio, USA

Title: Macrolide susceptibility of *Bordetella pertussis* in the United States, 2011-2015  
Brunilís Burgos-Rivera, Center for Disease Control and Prevention, USA

Title: Antimicrobial resistance genes in *Salmonella* isolates from poultry drinking water  
Nadia Mukhtar, University of Veterinary & Animal Sciences, Pakistan

Title: Potential use of biopolymer from *Bacillus subtilis* WD161 as mucoadhesive film for proliferation of oral cancer cell lines  
Iracheta Villarreal Jesús Mario, Ciudad Universitaria, Mexico

Title: Foodborne pathogens in retail meats: from detection to genomics  
Mohamed Fakhr, University of Tulsa, USA

Title: Lyme disease. Novel composition of phytochemicals as an approach against Lyme Disease  
Anna Goc, Dr. Rath Research Institute BV, USA

Title: The prediction of long-term creep data of fibrous polymer composites based on short term experiments  
Qian Li, Third Military Medical University, China

Title: Prevalence of *Bovine* rota virus in calves in Punjab province, Pakistan and vaccine preparation  
Nadia Mukhtar, University of Veterinary & Animal Sciences, Pakistan

Title: The clinical characteristics and outcome of H1N1 pneumonia patients with acute renal injury  
Essam Saad Abdel-Rahim Badawy, Minia University, Egypt

Title: Influence of gelatin-thrombin matrix tissue sealant on bacterial colony formation and risk of pelvic infection  
Michael J Jarrett, University of Colorado School of Medicine, USA

Title: Gender dynamics and socio-cultural determinants of MERS-CoV in Saudi Arabia  
Muhanad Ali, University of Toronto Scarborough Campus, Canada

Title: Potential Use of Biopolymer from *Bacillus subtilis* WD161 as Mucoadhesive Film for Proliferation of Oral Cancer Cell Lines  
Poonsuk Prasertsan, Prince of Songkla University, Thailand

Title: Evaluation of quinolones in treatment of burn patients of at Al-Imam Al- Hussein hospital in Thi-Qar province  
Ali Taher Abbas, Thi Qar University, Iraq

Title: Effects of natural products and essential oils on pathogenic fungi  
Awatif Al-Judaibi, King Abdulaziz University, Saudi Arabia

Title: Evaluation of an accelerated micro-method for the detection, identification and antimicrobial susceptibility of urogenital mycoplasmas.  
Nadia Maria Rodríguez Preval, Pedro Kourí Tropical Medicine Institute, Cuba

Title: Hemorrhagic fever with renal syndrome  
Rista Elvana, Hygeia Hospital Tirana, Albania
Keynote Forum

**Title: The vaginal microbiome of gravidae in health and disease**
George L Mendz, The University of Notre Dame, Australia

**Title: Molecular Characterization of Staphylococci isolated from retail mushrooms**
Mohamed Fakhr, University of Tulsa, USA

Track 6: Plant Microbe Pathology
Track 12: Medical Microbiology

**Session Chair: Mohamed Fakhr, University of Tulsa, USA**

**Session Introduction**

**Title: Anti-plasmodial agents from a cameroonian medicinal plant**
Perez Bawoh, Francis Higher Institute of Nursing and Midwifery, Cameroon

**Title: Anti-inflammatory and Antimicrobial active macrocyclic complexes of main group metal with their in vitro, in vivo and in silico studies**
Ekta Rawat, Kurukshetra University, India

**Title: Molecular diagnosis of human metapneumovirus**
Essam Saad Abdel-Rahim Badawy, Minia University, Egypt

**Title: Analytical validation of three alternative PCR master mixes for Bordetella species real-time PCR detection**
Brunilis Burgos-Rivera, Center for Disease Control and Prevention, USA
Opening Ceremony

Keynote Forum

Introduction

Title: Bacterial infections and cancer therapy  
Ananda M Chakrabarty, University of Illinois at Chicago, USA

Title: Small and large animal models for melioidosis and glanders  
Kei Amemiya, US Army Medical Research Institute of Infectious Diseases, USA

Title: Composition of plant-derived compounds as an alternative approach for Lyme patients. A Lesson from the pre-clinical study  
Anna Goc, Dr Rath Research Institute BV, USA

Sessions:

Bacterial Morphology and Metabolism | Bacterial Clinical Studies | Emerging Infectious Diseases | Bacterial Pathogenesis | Multi Pathogen Infections | Microbial Genomics | Industrial and Applied Bacteriology

Session Chair: Shobhona Sharma, Tata Institute of Fundamental Research, India

Session Introduction

Title: Targeting ribosomal protein to impair cell division and growth of the malaria parasite Plasmodium falciparum  
Shobhona Sharma, Tata Institute of Fundamental Research, India

Title: Novel approach for treating complicated intra-abdominal infection (cIAI) and sepsis  
Suchismita Acharya, AyuVis Research LLC, USA

Title: Early clinical and biochemical predictors of bleeding and complications in dengue hemorrhagic fever in children  
Maria Saify, VMMC & Safdarjung Hospital, India

Title: Chromosome mediated colistin resistance in clinical isolates of klebsiella pneumoniae  
Kashi Nath Prasad, Sanjay Gandhi Postgraduate Institute of Medical Sciences, India

Title: Differentiation of tox-bearing Corynebacterium species directly from clinical specimens  
Katherine Bowden, Centers for Disease Control and Prevention, USA

Title: Predictors of mortality in HIV patients with severe PCP admitted to medical ICI: A systematic review  
Amanuel Abera Lomencho, College of Health Science, Ethiopia

Day 2 | May 26, 2017

Exhibitor

Title: Bringing Them Home-The Transportation of a High-Consequence Infectious Disease Patient  
Gary Hall, AirBoss Defense, USA

Special Session

Title: The innate immune response in pathogenesis and vaccination  
Kei Amemiya, US Army Medical Research Institute of Infectious Diseases, USA

Award Ceremony
### Keynote Forum

**Introduction**

**Title:** A one stop solution for microbial infections with Metadichol®

P R Raghavan, Nanorx Inc, USA

**Title:** Antibiotic resistance patterns of coagulase-negative *Staphylococcus* strains isolated from hospitalized patients in Cluj-Napoca, Romania

Lia Monica Junie, University of Medicine and Pharmacy, Romania

### Panel Discussion

**Medical Microbiology | Natural Microbial Defences & Immunity | Emerging Infectious Diseases**

**Session Chair:** P R Raghavan, Nanorx Inc, USA

**Session Co-chair:** Hyonok Yoon, Gyeongsang National University, Republic of Korea

**Title:** Antimicrobial activity of apple cider vinegar against methicillin resistant *Staphylococcus aureus* and resistant *E. coli*

Darshna Yagnik, Middlesex University, UK

**Title:** Repositioning of synthetic emetine analogues as potential anti-malarial drugs and use of molecular modelling tools to aid in drug discovery

Priyanka Panwar, University of Salford, UK

**Title:** Linezolid overcame resistance to *Tosulfoxacin* in a patient with cystitis

Hyonok Yoon, Gyeongsang National University, Republic of Korea

**Panel Discussion**

**Title:** Detection of bacterial pathogens in hands of rural school children across different age groups and emphasizing the importance of handwash

Rohit Vishwanath, Chettinad Hospital and Research Institute, India

**Title:** Antenatal testing and *Hepatitis B* virus in Australia

Chukwunonso Ogemdi Ashibuogwu, Torrens University, Australia

**Poster Presentations**

**Poster Judge:** Hyewon Park, Seegene Medical Foundation, South Korea

**Title:** Prevalence of macrolide-resistant *Mycoplasma pneumoniae* in South Korea

Hyewon Park, Seegene Medical Foundation, South Korea

**Title:** Effectiveness of quick sequential organ failure assessment (qSOFA) as sepsis screening tool in the emergency department (ED)

Ajibola K Ibironke, University of Maryland, USA

**Title:** Targeting host signalling AKT kinase pathway to overcome *Mycobacterium tuberculosis* infection

Nikhila Meda, BITS-Pilani, India

**Title:** Knowledge, attitude and practice of health care providers toward Ebola virus disease in hotspots in Khartoum and White Nile State, Sudan, 2014

Musaab M Alfaki, St. George’s University, Grenada
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<th>Day 2 May 22, 2018</th>
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| **Title**: Ribosome recycling process in prokaryotes: Recent advances  
*Akira Kaji*, University of Pennsylvania, USA  
*Hideko Kaji*, Jefferson Medical College, USA  
**Title**: General dynamic theory quantitates “synergism” of two drugs in animals or in clinical trials with only ten data points by computer simulation  
*Ting-Chao Chou*, PD science LLC, USA |

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<th><strong>Panel Discussion</strong></th>
<th><strong>Networking &amp; Refreshment Break</strong></th>
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<td><strong>Video Presentation</strong></td>
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| **Title**: Extended spectrum beta lactamase producing *Enterobacteriaceae* isolates in patients with urinary tract infection and their antibiotic susceptibility pattern in Northern Iran  
*Mana Baziboroun*, Babol University of Medical Sciences, Iran |

| **Networking** | **Lunch Break & Closing Ceremony** |