

*Scientific Program*



Annual Conference on

# **MICROBIAL PATHOGENESIS, INFECTIOUS DISEASE, ANTIMICROBIALS AND DRUG RESISTANCE**

August 23-24, 2017    Toronto, Canada



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## AGENDA

August 23, 2017

08:00-08:45 Registrations & Souvenir Distribution

Opening Ceremony & Introduction 08:45-09:00

### Hall - Algonquin CD

#### Keynote Forum

09:00-09:40

Title: The hollow fiber infection model: Principles and practice

**John J.S. Cadwell**, FiberCell Systems Inc., USA

09:40-10:20

Title: Metadichol® A novel nano lipid: A solution for the post-antibiotic era

**P R Raghavan**, Nanorx Inc, USA

#### Group Photo

Coffee & Networking 10:20-10:35 @ Algonquin Foyer

10:35-11:15

Title: Delayed inflammatory response renders diabetic wound vulnerable to infection and microbiome shift toward pathogenic bacteria

**Sasha Shafikhani**, Rush University Medical Center, USA

11:15-11:55

Title: SYN-004 (ribaxamase), an orally administered  $\beta$ -lactamase for prevention of *Clostridium difficile* infection; colonization by antimicrobial resistant pathogens and preservation of the diversity of the gut microbiome

**John F Kokai-Kun**, Synthetic Biologics, Inc., USA

11:55-12:35

Title: Key role of cutaneous neuropeptides in skin-bacterial communication and virulence

**Marc G J Feuilleux**, Normandy University, France

12:35-13:15

Title: Rapid diagnosis of drug-resistant tuberculosis

**WC Yam**, The University of Hong Kong, Hong Kong

#### Panel Discussion

**Lunch 13:15-13:55 @ Cabinet Room**

**SPEAKER FORUM**

**Major Sessions:**

Antimicrobials | Antimicrobial Resistance | Antibacterial Agents | Antibiotics | Public Health



**Chair: John James Stewart Cadwell**, FiberCell Systems Inc., USA



**Co-Chair: Michael Thompson**, University of Toronto, Canada

**Session Introduction**

- 13:55-14:20 **Title: Rapid detection of bacterial resistance to  $\beta$ -lactam antibiotics using liquid chromatography - tandem mass spectrometry**  
**Michael Thompson**, University of Toronto, Canada
- 14:20-14:45 **Title: Clinical and cost-effectiveness evidence of S53P4 bioactive glass in the eradication of osteomyelitis**  
**Jacobus J C Arts**, Maastricht University Medical Centre, Netherland
- 14:45-15:10 **Title: Development of bacteriophage therapy for novel treatment of antibiotic-resistant bacterial infections**  
**Terry Ann Else**, Touro University Nevada, USA
- 15:10-15:35 **Title: Disulfide bond formation in gastric pathogen *Helicobacter pylori*: An Achilles' heel for secretion of pro-inflammatory virulence proteins**  
**Carole Creuzenet**, The University of Western Ontario, Canada
- 15:35-16:00 **Title: Detection of atypical class 1 integrons in multidrug-resistant *salmonella hadar* from chickens in cameroon**  
**Ariane Nzouankeu**, Centre Pasteur du Cameroun, Cameroon

**Coffee & Networking 16:00-16:15 @ Algonquin Foyer**

**SPEAKER FORUM**

**Major Sessions:**

Fungal Pathogenesis | Applied Diagnostic Microbiology | Bacterial Pathogenesis | Molecular Genetic Pathology



**Chair: Marc G J Feuilloley**, Normandy University, France



**Co-Chair: Sasha Shafikhani**, Rush University Medical Center, USA

- 16:15-16:40 **Title: Proteomics insight into temperature-dependent pathogenicity of *Cochliobolus lunatus* during invasion of potato**  
**Louis Bengyella**, Vaal University of Technology, South Africa
- 16:40-17:05 **Title: Core-bacterial composition and function of ruminant animals based on integrative analysis of metagenomics data**  
**Arghavan Alisoltani**, Vaal University of Technology, South Africa
- 17:05-17:30 **Title: Taxonomic diversity of cucurbit seed associated endophytes**  
**Eman M Khalaf**, University of Guelph, Canada

## AGENDA

August 24, 2017

08:30-9:00 Registrations

### Hall - Algonquin CD

## Keynote Forum

9:00-9:40

Title: Antivirulents vs Antibiotics

**Menachem Shoham**, Case Western Reserve University, USA

9:40-10:20

Title: Progress in replacing antibiotics in farm animal production

**Debabrata Biswas**, University of Maryland, USA

Coffee break 10:20-10:35 @ Algonquin Foyer

### SPEAKER FORUM

Major Sessions:

Antiviral drugs | Antibiotics | Antimicrobial stewardship | Antifungal & Antiparasitic agents | Antibacterial agents | Microbial genomics Antimicrobial resistance | Microbial Vaccines and Drugs | Infectious Diseases | Diagnostic Immunology



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



**Co-Chair: Michael Thompson**, University of Toronto, Canada

### Session Introduction

- 10:35-11:00 **Title: Implementation of antimicrobial stewardship in inpatient and outpatient settings**  
**Karisma Patel**, Children's Mercy Hospital, USA
- 11:00-11:25 **Title: Molecular patterns of multidrug resistance of *Mycobacterium leprae* in India**  
**Mallika Lavania**, The Leprosy Mission Trust, India
- 11:25-11:50 **Title: Incidence and characterization of multi-drug resistance *Acinetobacter baumannii***  
**Mohammad Al-Tamimi**, The Hashemite University, Jordan
- 11:50-12:15 **Title: *Escherichia coli* tetracycline-resistant-genes relative to antibiotics overuse and their impact on the environment**  
**Mahmoud W. Yaish**, Sultan Qaboos University, Oman
- 12:15-12:40 **Title: Introduction of cases of ORF disease in burn wound in Motahari hospital**  
**Mahnoush Momeni**, University Of Medical Sciences, Iran
- 12:40-13:05 **Title: Analysis of bovine tuberculin antigens of different potencies by western blot**  
**Luciene Airy Nagashima**, Institute of Technology of Paraná, Brazil

### Lunch 13:05-13:45 @ Cabinet Room

- 13:45-14:10 **Title: Appropriate use of antimicrobials: The peculiarity of septic patients**  
**Francesco Scaglione**, University of Milan, Italy
- 14:10-14:35 **Title: State of the art antimicrobial stewardship in immunocompromized hosts**  
**Alla Paskovaty**, Memorial Sloan Kettering Cancer Center, USA
- 14:35-15:00 **Title: Imipenem treatment induces expression of important pili genes and phenotypes in a resistant *Acinetobacter baumannii* isolate**  
**G N Dhabaan**, University of Damman, Saudi Arabia



15:00-15:25 **Title: A retrospective cross-sectional study of antibiotic prescribing patterns in an adult inpatient department at a tertiary care setting**

**Ahmad Alharafsheh**, Ministry of Health, Saudi Arabia

**Video Presentations @ 15:25-15:45**

V1 **Title: *Mycobacterium Fortuitum* as a rare etiology of red breast syndrome: A case report and review of literature**

**Benjamin O Lawson**, Honor Health Scottsdale Shea Medical Center, USA

V2 **Title: Antimicrobial resistance in selected bacteria from poultry, in Albania**

**Lindita Molla**, Public Health Institute, Albania

V3 **Title: Antibacterial and antioxidant properties of crude extract, fractions and compounds from the stem bark of *Polyscias fulva Hiern* (Araliaceae)**

**Guy Sedar Singor Njateng**, University of Dschang, Cameroon

V4 **Title: An assessment of antibiotic resistance among *Mycobacterium tuberculosis* isolated from displaced Iraqi patient**

**Mohemid Al Jebouri**, University of Tikrit, Iraq

V5 **Title: Site attachment inhibition therapeutics**

**Simon Raymond**, Melbourne University, Australia

**Coffee Break 15:45-16:00 @ Algonquin Foyer**

**Poster Sessions 16:00-16:45 @ Hall - Algonquin CD**

P 01 **Title: The production of lignin-capped silver nanoparticles with high antimicrobial activity against multidrug resistant bacteria**

**Jason Asnis**, University of British Columbia, Canada

P 02 **Title: The BceABRS four-component system essential for bacitracin sensing and response is required for biofilm formation and virulence of *Streptococcus mutans***

**Yung-Hua Li**, Dalhousie University, Canada

P 03 **Title: A new pheromone-guided antimicrobial peptide HP30 for targeted killing of *Streptococcus mutans* in mixed-culture biofilms**

**Xiao-Lin Tian**, Dalhousie University, Canada

P 04 **Title: PCR amplification of genomic *Mycobacterium leprae* DNA by using different gene targets**  
**Vinay Kumar Pathak**, The Leprosy Mission Community Hospital, India

P 05 **Title: *In-vitro* activities of six antifungal drugs against *Candida glabrata* Isolates: An emerging pathogen**

**Nasrin Amirrajab**, Ahvaz Jundishapur University of Medical Sciences, Iran

P 06 **Title: *In-vitro* antileishmanial activity of *Artemisia dracuncululus* and *Heracleum persicum* extracts in comparison with glucantime**

**Batool Sadeghi-Nejad**, Abadan School of Medical Sciences, Iran

P 07 **Title: Intradermal trivalent influenza vaccine with and without imiquimod in hemodialysis patients**  
**Sara Abolghasemi**, Shahid Beheshti University of Medical Sciences, Iran

P 08 **Title: The reason for the prevalence of non-toxicogenic isolates of *Clostridium difficile* in the clinical samples**

**Mohammad Moradi**, Kerman University of Medical Sciences, Iran

P 09 **Title: Comparative assessment of probiotic attributes of *Lactobacillus Plantarum* Strains Of Ireland and Pakistan**

**Asma Manzoor**, University of the Punjab, Pakistan

**Johar Ali**, Rehman Medical Institute Peshawar, Pakistan

P 10 **Title: *Pseudomonas* phage inhibition of *Candida Albicans***  
**Hasan Nazik**, California Institute for Medical Research, USA

P 11 **Title: Prevalence of microorganisms and their antimicrobial susceptibility profile in blood samples from an university hospital from Vitória, Brazil**

**Moraes Rodrigo**, Santa Casa de Misericórdia de Vitória, Brazil

P 12 **Title: Trend analysis of bacterial uropathogens and their susceptibility pattern: A four-year (2013-2016) study from aseer region, Saudi Arabia**

**Abdulaziz Alamri**, King Khalid University, KSA

**Poster Awards @ 16:45-17:00**

**Closing and Award Ceremony**