

Joint Conference

Proceedings of

International Conference on

# ENVIRONMENTAL MICROBIOLOGY & MICROBIAL ECOLOGY

International Conference on

## ECOLOGY AND ECOSYSTEMS

September 18-20, 2017 Toronto, Canada

Exhibitor

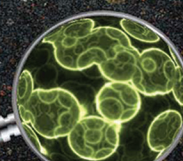
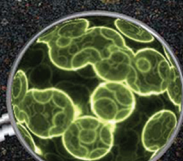


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## Conference Hall

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09:00-09:30

# Opening Ceremony

## Keynote Forum

- Introduction**
- 09:30-10:10 Title: Cautionary tales from the microbiome: Finding what is real and reproducible**  
**Gregory B Gloor**, University of Western Ontario, Canada
- 10:10-10:50 Title: A road map to finding microbiomes that most contribute to plant and soil health**  
**George Lazarovits**, A&L Biologicals, Canada

## Panel Discussion

**Networking & Refreshment Break 10:50-11:10**

- 11:10-11:50 Title: Tick-borne diseases: Challenge in diagnostics and therapies of chronic multiple infections**  
**Armin Schwarzbach**, ArminLabs, Germany

## Panel Discussion & Group Photo

## Workshop

- 11:50-12:20 Title: Analyzing 'omics data using compositional data analysis**  
**Gregory B Gloor**, University of Western Ontario, Canada

## Sessions:

**Microbial Ecology | Soil Microbiology | Microbial Genetics | Plant- Microbe Interaction**

**Session Chair: Lars Mogren**, Swedish University of Agricultural Sciences, Sweden

**Session Co-chair: Shimaila Ali**, A&L Biologicals, Canada

- 12:20-12:50 Title: Identification of the relationship between chemical and biological factors impacting corn productivity**  
**Saveetha Kandasamy**, A&L Biologicals, Canada
- 12:50-13:20 Title: Functional interaction of plant and its microbiome: What are these bacteria doing?**  
**Shimaila Ali**, A&L Biologicals, Canada

## Panel Discussion

**Lunch Break 13:20-14:00**

- 14:00-14:30 Title: Microbial biodiversity in Brazilian semiarid**  
**Fernanda Matias**, Rural Semiarid Federal University, Brazil
- 14:30-15:00 Title: Safe salad—Is it possible to produce safe baby leaves?**  
**Lars Mogren**, Swedish University of Agricultural Sciences, Sweden

## Sessions:

**Environmental Microbiology | Agroecology | Microbial Symbiosis**

**Session Chair: Lars Mogren**, Swedish University of Agricultural Sciences, Sweden

**Session Co-chair: Shimaila Ali**, A&L Biologicals, Canada

- 15:00-15:30 Title: Secondary metabolites with pesticide activity from plant pathogenic**  
**Kumudini M Meepagala**, USDA-ARS, USA
- 15:30-16:00 Title: Diel cycle of the tropical air microbiome**  
**Elena S Gusareva**, Singapore Centre for Environmental Life Sciences Engineering (SCELSE), Singapore

## Panel Discussion

**Networking & Refreshment Break 16:00-16:20**

- 16:20-16:50** Title: *In vitro* co-culture of commensal *Escherichia coli* strains enhances Stx2a production by the German *E. coli* O104:H4 outbreak strain  
Yongxiang Zhang, National Microbiology Laboratory at Lethbridge, Canada
- 16:50-17:20** Title: Prospect of biofuel in Bangladesh: Bioethanol and biodiesel production at local condition  
Mohidus Samad Khan, Bangladesh University of Engineering and Technology, Bangladesh
- 17:20-17:50** Title: Cattle Jaguar (*Panthera onca*) attack distribution in Miranda, Pantanal  
Julio Souza, Federal University of Paraná, Brazil

#### Panel Discussion

**Day 2 September 19, 2017**

#### Conference Hall

#### Keynote Forum

- 09:30-10:10** Title: Biotreatment of textile wastewater with continuous biofilter solutions and the associated microflora  
Jorgen Forss, Linnaeus University, Sweden
- 10:10-10:50** Title : The ecology of tree intercropping systems in southern Ontario, Canada  
Andrew M Gordon, University of Guelph, Canada

#### Panel Discussion

**Networking & Refreshment Break 10:50-11:10**

#### Special Session

- 11:10-11:40** Title: Reference-free shotgun metagenomics for the microbial ecologist  
Nikolaj Sørensen, Clinical-Microbiomics, Denmark

#### Sessions:

**Biodiversity | Ecology | Ecosystems | Antimicrobials | Forest Microbiology | Microbial Biofilms**

**Session Chair:** Carole Ayoub Moubareck, Zayed University, United Arab Emirates

**Session Co-chair:** Bibiana Coppotelli, Centro de Investigación y Desarrollo en Fermentaciones Industriales, Argentina

- 11:40-12:10** Title: Exploring the gut microbiota of Lebanese preterm infants with or without necrotizing enterocolitis  
Carole Ayoub Moubareck, Zayed University, United Arab Emirates
- 12:10-12:40** Title: Effects of bacterial inoculants on soil microbiomes and biodegradation in hydrocarbon contaminated soils  
Bibiana Coppotelli, Centro de Investigación y Desarrollo en Fermentaciones Industriales, Argentina
- 12:40-13:10** Title: Pantanal bird species and their distribution in the Americas  
Julio Souza, Federal University of Paraná, Brazil

#### Panel Discussion

**Lunch Break 13:10-14:00**

- 14:00-14:30** Title: In-situ regeneration of carbon based injectants with endemic biofilms  
Dennis Owens, Sustainable Water Technology, Canada
- 14:30-15:00** Title: Is offsetting a feasible way to mitigate impacts of coastal reclamation on biodiversity? A case study from China  
Shuling Yu, Normal University, China
- 15:00-15:30** Title: Effect of varietal feeding on larval duration and cocoon parameters of six strains of eri silkworm *Samia ricini* Donovan in Nagaland, India  
LN Kakati, Nagaland University, India
- 15:30-16:00** Title: Shifting paradigms in coastal restoration: Six decades' lessons from China  
Ze Zheng Liu, Normal University, China

#### Panel Discussion

**Networking & Refreshment Break 16:00-16:20**



- 16:20-16:50 **Title: Insight into the diversity of soil fungi in Changbai mountain by high-throughput sequencing**  
Guozhong Lyu, Dalian Nationalities University, China
- 16:50-17:20 **Title: Large variations of salinity and dissolved oxygen and their effects on macrobenthic communities in Lake Sihwa, the west coast of Korea**  
Bon Joo koo, Korea Institute of Ocean Science & Technology, South Korea
- 17:20-17:50 **Title: Hexavalent chromium induces testicular dysfunction in small Indian mongoose (*Herpestes javanicus*) inhabiting tanneries areas of Kasur District, Pakistan**  
Shaista Andleeb, Shah-Arid Agriculture University, Pakistan
- 17:50-18:20 **Title: Diversity dynamics of cotton infecting Begomovirus, a serious threat emerged due to assorted Agro-climate of Pakistan**  
Muhammad Javed Iqbal, University of the Punjab, Pakistan

#### Poster Sessions @ 15:30-16:30

Poster Judge: Jorgen Forss, Linnaeus University, Sweden

- P 01 **Title: Efficiency of using seaweed extracts under varying levels of N-P-K on growth, yield and quality of sweet potato (*Ipomoea batatas* L.)**  
Amira Abd El Hamid Helaly Ali, Alexandria University, Egypt
- P 02 **Title: The adaptation of the bacterial plant pathogen *Pseudomonas syringae* onto a novel host through experimental evolution**  
Andrew Jamnik, University of Toronto, Canada
- P 03 **Title: Antagonism of *Pseudomonas* sp. EMM-1 and its potential as biocontrol agent**  
Catherine Cesa-Luna, Benemerita Universidad Autonoma de Puebla, Mexico
- P 04 **Title: Inhibition activity of probiotics supernatants against the cariogenic *Streptococcus mutans***  
María del Pilar Angarita Díaz, Universidad Cooperativa de Colombia, Colombia
- P 05 **Title: Facultative anaerobic bacteria and their relationship to the characteristics of gutta-percha cones**  
María del Pilar Angarita Díaz, Universidad Cooperativa de Colombia, Colombia
- P 06 **Title: Cultural ecosystem services of different landscapes in Ugam Chotqol National Nature Park**  
Madina Bekchanova, Wageningen University (WUR), Netherlands
- P 07 **Title: Effect of different weed management practices on growth and yield of brinjal**  
Summet Singh, Punjab Agricultural University, India
- P 08 **Title: Effect of biofertilizers on nutrient uptake and quality attributes in onion**  
Dilpreet Talwar, Punjab Agricultural University, India
- P 09 **Title: Effect of biofertilizers on microbial count in soil, growth and yield attributes of rainy season tomato**  
Barinderpal Singh, Punjab Agricultural University, India
- P 10 **Title: Micro-irrigation: Technology for efficient use of water In vegetable cultivation - A review**  
Kamalpreet Kaur, Punjab Agricultural University, India
- P 11 **Title: Local uses and management of spices, condiments and non-edible oil crops**  
Zufan Nigusu, Addis Ababa University, UAE
- P 12 **Title: Soil salinization and water quality degradation in Bukhara region, Uzbekistan**  
Mirkhon Asadov, NGO Ecoinvest, Uzbekistan
- P13 **Title: Antifungal activity of essential oil from *Artemisia campestris* L on fungal species development**  
Khaldi A, University of Bechar, Algeria
- P 14 **Title: Antimicrobial activity of *Oliveria decumbens* Vent. extract against isolated microbes from the environment**  
Batool Sadeghi-Nejad, Abadan School of Medical Sciences, Iran
- P 15 **Title: Antimicrobial activity of *Zataria multiflora* extract on *Candida* species isolated from environment**  
Nasrin Amir Rajab, Jundishapur University of Medical Sciences, Iran
- P 16 **Title: Population structure and genetic diversity of an endangered and endemic Moroccan tree (*Argania spinosa* L. Skeels) based on AFLP and IRAP markers**  
Ouafae Pakhrou, Mohammed V University, Morocco

**Panel Discussion**

**Day 3 September 20, 2017**

**Conference Hall**

**Young Researchers Forum**

- 10:00-10:20** **Title: Immobilization of murine noroviruses in a cultivated phaeozem soil and its reversibility**  
**Vincent Tesson, INRA, France**
- 10:20-10:40** **Title: *Bacillus megaterium*: A potential swimmer and an efficient bio-degrader of an organophosphorus pesticide**  
**Shweta Nistala, Pt. Ravishankar Shukla University, India**

**Panel Discussion**

**Networking & Refreshment Break 10:40-11:00**

- 11:00-11:20** **Title: You are what you eat: Get mature faster by foraging on your parents, the discus fish example**  
**Francois-Etienne Sylvain, Laval University, Canada**
- 11:20-11:40** **Title: Biodiversity monitoring in Sno valley (Georgia, Caucasus)**  
**Eter Abulidze, Ilia State University, Georgia**
- 11:40-12:00** **Title: Monoclonal and polyclonal antibodies directed toward *Tsukamurella pulmonis* polysaccharide**  
**Adnan Saeed, Ludwik Hirszfild Institute of Immunology and Experimental Therapy, Poland**

**Panel Discussion**

**Closing and Award ceremony**

**Lunch Break 12:30-13:15**

