



APPL MICROB 2023

Oct 09-10 | London, UK



5<sup>th</sup> International Conference on

# Applied Microbiology and Beneficial Microbes

October 09-10, 2023 | London, UK



**Theme:** Advanced Innovations in Microbiology and Research on  
Beneficial Microbes

**Email:** [bryanthomas@crgconferences.org](mailto:bryanthomas@crgconferences.org)

<https://crgconferences.com/appliedmicrobiology/>

## 5<sup>th</sup> International Conference on **Applied Microbiology and Beneficial Microbes**

Day 1 - October 09, 2023

Meeting Hall: **Event 2&3**

09:00 - 09:30 Registrations

09:30 - 09:45 Introduction

### Keynote Presentations

9.45 - 10:25 *Entamoeba histolytica*-Gut Microbiota Interaction: Unveiling Hidden Complexities  
**Ankri Serge**, Ruth and Bruce Rappaport Faculty of Medicine, Israel

10:25 - 11:05 Chicken Gut and Environmental Microbiota  
**Rychlík Ivan**, Veterinary Research Institute, Czech Republic

Networks & Refreshments 11.05 - 11.20 @ Foyer

### Oral Presentations

Chairs  
**Igor Morozov**, Coventry University, United Kingdom  
**Ankri Serge**, Ruth and Bruce Rappaport Faculty of Medicine, Israel  
**Rychlík Ivan**, Veterinary Research Institute, Czech Republic

Sessions  
Microbial Biodeterioration of Materials, Bioremediation, Agricultural Microbiology, Environmental Microbiology, Food Microbiology, Microbial Biotechnology, Prebiotics & Probiotics

11:20 - 11:50 Deterioration of Vulcanized Rubber Sheets Accompanied by Loss of Calcium Carbonate Filler by Wood-Decay Fungi *Trichaptum biforme* and *Trichaptum abietinum*  
**Shin Sato**, Tottori University of Environmental Studies, Japan

11:50 - 12:20 Application of Environmental Metagenomics and Metabolomics as Tools of Culture Independent Approach to Predict Effective Microbial Groups for a Bioremediation System  
**Karabelo Moloantoa**, University of Kwa-Zulu Natal, South Africa

12:20 - 12:50 Fungicide Sensitivity in *Pyrenophora teres* t. *teres* Estonian Population  
**Andres Mäe**, Centre of Estonian Rural Research and Knowledge (METK), Estonia

Group Photo 12:50 - 13:05

Lunch 13:05 - 14:00 @ Gallery

14:00-14:30 Isolation and Identification of Bacteria from three Geothermal Sites of the Atacama Desert and Their Plant Beneficial Characteristics  
**Patricio Alberto Muñoz-Torres**, Universidad de Tarapacá, Chile

14:30 - 15:00 Comparative Study of Intestinal and Spleen Microbiota Composition of Healthy and Diseased Fish Species  
**Tamir Ofek**, Ministry of Agriculture, Israel

15:00 - 15:30 Mitigating Antibiotic Pollution Using Cyanobacteria: Removal Efficiency, Pathways and Metabolism  
**Minmin Pan**, Helmholtz Centre for Environmental Research, Germany

15:30 - 16:00 Protection Mechanism of *Monascus* Vinegar against Liver Inflammation in High-Fat-Diet Rats by Regulating Intestinal Flora  
**Min Wang**, Tianjin University of Science and Technology, China

5<sup>th</sup> International Conference on

## **Applied Microbiology and Beneficial Microbes**

16:00-16:30 Sex Pilus-Specific Bacteriophages Drives Microbial Evolution towards Plasmid Loss and Loss of Antimicrobial Resistance

**Paul Barrow**, University of Surrey, United Kingdom

**Networks & Refreshments 16:30 - 17:00 @ Foyer**

17:00 - 17:30 Analyzing the Nitrogen Cycle in Soil by Quantifying Microbial Transcript Directly in Soil Using RT-Qpcr and Totalrna Sequencing

**Carsten Suhr Jacobsen**, Aarhus University, Denmark

17:30 - 18:00 Production and Characterization of Biosurfactant Synthesized by Novel Strain *Rhodococcus* sp. SP1d and it's Potential for Environmental Applications

**Marco Andreolli**, Università di Verona, Italy

18:00 - 18:30 Antibacterial Activity of Lactic Acid Bacteria Strains against Enterobacterial Strains Responsible for Urinary Tract Infections Concerning Children of Bejaia Algeria

**Samia Faradji Hamma**, University of Bejaia, Algeria

**Day 1 Concludes followed by Awards Ceremony**

## 5<sup>th</sup> International Conference on **Applied Microbiology and Beneficial Microbes**

### Day 2- October 10, 2023

#### Meeting Hall: **Event 2&3**

#### Keynote Presentations

09:00 - 09:40 *Active Gut Microbiota, the Missing Link in Colorectal Cancer: Molecular Analysis of Active Gut Microbiota in Hospital Setting*  
**Igor Morozov**, Coventry University, United Kingdom

09:40 - 10:20 *Investigating the Dynamics of Host-Phage Interaction: Towards Effective Phage Therapy!*  
**Manal Mohammed**, University of Westminster, United Kingdom

#### Oral Presentations

Chairs **Igor Morozov**, Coventry University, United Kingdom  
**Ankri Serge**, Ruth and Bruce Rappaport Faculty of Medicine, Israel  
**Rychlík Ivan**, Veterinary Research Institute, Czech Republic

Sessions *Microbial Bioinformatics, Microbial Biotechnology, Microbial Genetics, Molecular Microbiology, Medical Microbiology, Prebiotics & Probiotics*

10:20 - 10:50 *Thauera sp. Sel9 a polyhydroxyalkanoates-Storing Bacterial Strain as a Potential Ingredient for Aquaculture Feed: the Safety Assessment*  
**Marco Andreoli**, Università di Verona, Italy

#### Networks & Refreshments 10.50 - 11.10 @ Foyer

11:10 - 11:40 *Horizontal Gene Transfer Network in Chicken Gut Microbiome*  
**Darina Cejkova**, Brno University of Technology, Czech Republic

11:40 - 12:10 *Synthetic Biology Tools and Technologies Applied on Bacteriocins to Modulate Microbiomes*  
**Philippe Gabant**, Syngulon, Belgium

12:10 - 12:40 *Enhancing the Antibacterial Function of Probiotic *Escherichia coli* Nissle: When less is more*  
**Emma Bartram**, Imperial College London, United Kingdom

12:40 - 13:10 *Professional vs. Generalist: A Comparison of the Specificity of the Antirestriction Enzymes ArdA and ArdB*  
**Anna Kudryavtseva**, MIPT, Russia

#### Lunch 13:10 - 14:00 @ Gallery

14:00-14:30 *The Photorhabdus Virulence Cassette: How Bacteria Load Their Missiles*  
**Rhys Evans**, University of Warwick, United Kingdom

14:30 - 15:00 *Investigations on Antimicrobial Efficacy of Light and Nanoparticles for ESKAPE Pathogens*  
**Sarabjot Kaur**, CSIR-Central Scientific Instruments Organisation, India

15:00 - 15:30 *Antimicrobial Activity Characterization of Novel Lactobacillus Species Isolated from Dairy Products*  
**Betül Ceylaner**, Acibadem Mehmet Ali Aydinlar University, Turkey

5<sup>th</sup> International Conference on  
**Applied Microbiology and Beneficial Microbes**

15:30 - 16:00 Exploration of Photo-Responsive Microbial Pigments for Antimicrobial Photodynamic Therapy (aPDT)

**Vemuluri Venkata Ramana**, CSIR-Institute of Microbial Technology, India

**Networks & Refreshments 16:00 - 16:30 @ Foyer**

16:30 - 17:00 Potential Use of Beneficial Salt Tolerant Bacteria for Improving Wheat Productivity Grown in Salinized Soil

**Wael Y Ali**, Kafr El Sheikh University, Egypt

17:00 - 17:30 Characterization of *Lactobacillus* Spp. from Tiger and Leopard Feces and Assessment of their Pharmacognostic Properties

**Irish Atiq**, Ghazi University, Pakistan

### Poster Presentations

AMBM-P1 The Identifications of the Origin of Triploids Gynogens *C. Gibelio* by Using Microbiology 'Molecular Cloning Technique'

**Reem AL-Haidose**, Ministry of Municipality, Qatar

AMBM-P2 Prevalence of Brucellosis among Goats and Cows in Khartoum State

**Amira E F Osman**, University of Alzaiem Alazhari, Sudan

AMBM-P3 Variety of Novel Species in Qatar Marine Ecosystem

**Fawzia Akbar Juma Ramadan**, Ministry of Municipalaty, Qatar

AMBM-P4 Study the Effect of Tartrazine and its Biodegradation Products on the Liver and Kidney of Female Albino Rats

**Fatimah Alshehrei**, Umm ALQura University, Saudi Arabia

AMBM-P5 Genetic Diversity of VTEC Isolated from Food Products in Poland

**Elzbieta Mackiw**, National Institute of Public Health NIH - National Research Institute, Poland

### E-Poster Presentations

AMBM-EP1 Antagonistic Activity of Lactobionic Acid

**Kamila Goderska**, Poznan University of Life Sciences, Poland

AMBM-EP2 Study of Maternal Risk Factors and the Incidence of Congenital Chagas in Mendoza, Argentina

**María Cristina Vanrell**, IHEM-CONICET FCM-UNCUYO, Argentina

### Day 2 Concludes

**Panel Discussion - Awards & Closing Ceremony followed by Vote of Thanks**