CONFERENCE PROGRAMME

"Single Cell Technology meets Microbiomics 2021"
https://www.microbiomics2021.org/
5th – 6th July 2021

Time zones:
9:00 am/London; 10:00 am/Brussels; 16:00 pm/Beijing; 17:00 pm/Seoul.
13:30 pm/New Delhi

Day 1- 5th July 2021

8:30	**Virtual platform opens**
8:50 -9:00	**Welcome**: **Professor Huabing Yin (conference Chair)**
9:00- 9:40	**Keynote Speaker:** **Professor Petra S. Dittrich, ETH Zurich, Switzerland** *Single-cell analysis in nanoliter compartments*
	Session 1: Single cell technologies (I)
9:45-10:10	**Dr Stefano Pagliara, University of Exeter, UK** *Dissecting the mechanisms underlying molecular accumulation and antibiotic efficacy in gram-negative bacteria*
10:10-10:35	**Professor Shuangjiang Liu, Institute of microbiology, Chinese Academy of Science** *Microdroplets for microbial cell culture*
10:35-10:50	**Dr Yanqing Song, University of Glasgow, UK** *Single-cell Microfluidics for studying microbial communities*
10:50-11:05	**Dr Mariona Nadal-Ribelles, IRB Barcelona, Spain** *Sensitive high-throughput single-cell RNA-Seq reveals within-clonal transcript-correlations in yeast populations*
11:05-11:20	Meet the speakers
11:20-11:30	Break
11:30-12:10	**Keynote Speaker:** **Professor Nico Boon, Ghent University, Belgium** *Flow cytometry fingerprinting as microbial community indicators in aquatic systems*
12:10-13:30	Break followed by poster reviewing
	Session 2: Single cell technologies (II)
13:30-13:55	**Dr Wei Huang, University of Oxford, UK** *Application of single cell Raman biotechnology to microbiology*

13:55-14:20	**Dr Tae Kwoon Lee, Yonsei University, South Korea** *Functional single cell approach to evaluate drought-tolerance ability in soil using Raman-DIP*
14:20-14:35	**Dr Kim De Paepe, Ghent University, Belgium** *Unravelling necrotrophy by human gut microbes through powerful single cell labeling and detection methods*
14:35-14:50	**Dr Nathan Cumberbatch, Horiba** *Raman technology for single cell analysis*
14:50-15:05	Meet the speakers
15:05-15:15	Break
	Session 3: Antibiotic resistance detection and tracking
15:20- 15:45	**Prof. Elizabeth Wellington, University of Warwick, UK** *Tracking antimicrobial resistance in the environment*
15:45-16:10	**Dr. Matt Bawn, Earlham Institute, UK** *Bacterial single-cell genomics enables phylogenetic analysis and reveals population structures from in vitro evolutionary studies*
16:10-16:35	**Dr Antonia Sagona, University of Warwick, UK** *The use of bacteriophages for detection of infection*
16:35-16:50	Meet the speakers
16:50	Close of day one

Day 2: 6th July

8:30	**Virtual platform opens**
8:55	**Welcome**
9:00-9:40	**Keynote speaker:** **Professor David Berry, University of Vienna, Austria** *Probing microbiome function with single cell stable isotope-based approaches*
	Session 4: Microbiomics in healthcare
9:40-10:05	**Professor Chris Quince, Earlham Institute, UK** *Linking antimicrobial resistance genes to taxa using metagenomics in the human gut and environment*
10:05- 10:30	**Dr Jia Li, Imperial College, UK** *Application of microbiomics in weight loss surgery*

10:30-11:05	**Professor Neelam Taneja, Dept of Medical Microbiology Postgraduate Institute of Medical Education and Research, India.** *Characterization and antibiofilm activity of phage RDN8.1 active against multidrug resistant uropathogenic E.coli isolates*
11:05-11:20	**Dr Hongzhe Li, Institute of Urban Environment, Chinese Academy of Sciences** *Phenotypic and genotypic profiling of antibiotic resistance in environment and their spread to clinic by single-cell Raman and molecular tools*
11:20-11:35	**Professor Bei Li, Changchun Institute of Optics, Chinese Academy of Sciences** *Application of Single Cell Ejection Sorting Technology in Isolation and Cultivation of Microorganisms*
11:35-11:50	Meet the speakers
11:50- 13:30	Live poster presentation
13:30-14:10	**Keynote speaker:** **Professor Jon Cooper, University of Glasgow, UK** *Low-Cost, Mobile Phone Enabled Infectious Disease Diagnosis in Remote, Under-served Communities*
	Session 5: Emerging opportunities and applications
14:10-14:35	**Professor Chris Probert, University of Liverpool, UK** *The cause of inflammatory bowel disease and why the microbiome matters*
14:35-15:00	**Dr Jerome Charmet, University of Warwick, UK** *Low cost fabrication of microfluidic devices*
15:00 – 15:15	**Professor Defeng Xing, Harbin Institute of Technology, China** *Single-cell metagenomics reveal metabolic function of anammox granule*
15:15-15:40	**Dr Umer Zeeshan Ijaz, University of Glasgow, UK** *Recent developments in integrated 'omic data synthesis and microbial ecology*
15:40-15:55	Meet the speakers
15:55 – 16:10	**Professor Huabing Yin** **Concluding remarks & Poster Prize Announcements.**