

Online BSM Symposium “Microbial resources and challenges for science & society” – Friday 12/03/2021

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| 09.00-11.20 Plenary session | 9.00-9.05 <i>Short welcome address</i> – Eveline Peeters (VUB) | | |
| | 9.05-9.50 <i>Invited talk Section A: General Microbiology</i> | | |
| | Christian Lesterlin (Université de Lyon): Visualization of acquisition and establishment of drug resistance in bacteria Introduction and moderation by Laurence Van Melderen (ULB) | | |
| | 9.50-10.35 <i>Invited talk Section B: Applied and Environmental Microbiology</i> | | |
| 11.20-11.40 General assembly | Daniele Daffonchio (KAUST): The stratified microbial network in the anaerobic deep-sea brine pools of the Red Sea Introduction and moderation by Nico Boon (UGent) | | |
| | 10.35-11.20 <i>Invited talk Section C: Host-pathogen interactions</i> Maximiliano Gutierrez (The Francis Crick Institute): Host cell environments and antibiotic efficacy in tuberculosis Introduction and moderation by Xavier De Bolle (UNamur) | | |
| 11.20-11.40 <i>BSM General Assembly</i> (for effective members of BSM) Led by Eveline Peeters (VUB) – Xavier Saelens (UGent) | | | |
| 13.00-14.15 Parallel sessions | <i>Selected talks Section A: General Microbiology</i> – moderated by Jan Michiels (KULeuven) | <i>Selected talks Section B: Applied and Environmental Microbiology</i> – moderated by Frank Delvigne (ULiège) | <i>Selected talks Section C: Host-microbe interactions</i> – moderated by Françoise Van Bambeke (UCL) |
| | 13.00-13.15 Katsuya Fuchino (UNamur) - The ethanogenic alphaproteobacterium <i>Zymomonas mobilis</i> is polyploid, divides asymmetrically and exhibits heterogeneity in DNA content | 13.00-13.15 Tinh Van Nguyen (KULeuven) – Microbial analysis of the MELISSA waste degradation compartment 1 (C1) and isolation and identification of C1 dominant bacteria | 13.00-13.15 Shari Wouters (SCK•CEN) – Intestinal dysbiosis and colonic alterations in a colorectal cancer mouse model subjected to pelvic irradiation |
| | 13.15-13.30 Clothilde Rousseau (ULB) - Envelope stress responses are not involved in persistence to β -lactam antibiotics | 13.15-13.30 Ioannis Passaris (Sciensano) – Validation of FT-IR spectroscopy for high-throughput serotyping of <i>Streptococcus pneumoniae</i> | 13.15-13.30 Katrien Van Dyck (KULeuven/VIB) – Adhesion of <i>Staphylococcus aureus</i> to <i>Candida albicans</i> during co-infection promotes bacterial dissemination through the host immune response |
| | 13.30-13.45 Michael Deghelt (UCL) - The connections between the outer membrane and the peptidoglycan protect cells from osmotic shock | 13.30-13.45 Fabio Giovannercole (UNamur) – Multi-omics approach to uncover antibacterial activity of phosphinic acid analogues of dicarboxylic acids | 13.30-13.45 Lionel Schiavolin (ULB) – Deciphering the host response and transcriptome reprogramming during infection of <i>Streptococcus pyogenes</i> by a lytic phage |
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| | 13.45-14.00 Celien Bollen (KULeuven) - The persister protein ObgE induces protein aggregation | 13.45-14.00 Josefien Van Landuyt (UGent) – How a WW2 shipwreck still influences the surrounding sediment 70 years later | phage therapy against <i>Staphylococcus aureus</i> causing bovine mastitis |
| | 14.00-14.15 Jovana Kaljevic (UCL) - Chromosome choreography during the non-binary cell cycle of a predatory bacterium | 14.00-14.15 Radwa Moanis (VUB) – Microbial production of polyhydroxyalkanoates (PHAs) by thermophiles | 14.00-14.15 Jeremy Verbeke (UNamur) – <i>Brucella abortus</i> infection induces morphological alteration of the mitochondrial network and mitophagy |
| 14.15-15.25 | 14.15-15.15 BSM Honorary Lecture Introduction and moderation by Xavier Saelens (UGent) | | |
| Plenary session | Marc Van Ranst (KULeuven): SARS-CoV-2 pandemic: covid the flow | | |
| | 15.15-15.25 Announcement of prizes – concluding remarks - Eveline Peeters (VUB) | | |