

Programme



Day 1 - Sunday 16th June 2019

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| 18:00 - 20:00 | Welcome reception | Light buffet and drinks |
| 20:00 - 21:00 | The MELISSA Pilot Plant Developing a closed ecological system for life support in space | Francesc Gòdia Universitat Autònoma de Barcelona |

Day 2 - Monday 17th June 2019

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| 08:30 - 09:00 | Registration | |
| 09:00 - 09:10 | Welcome | Lone Gram - DTU Søren Peter Olesen - DNRF Bjarke Bak Christensen - DTU |

Session 1: What is the role of microbial secondary metabolites?

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| 09:10 - 09:20 | Presenting the Center for Microbial Secondary Metabolites | Lone Gram DTU |
| 09:20 - 10:10 | Antimicrobials that are not but might be | Roberto Kolter Harvard Medical School |
| 10:10 - 10:30 | Coffee break | |
| 10:30 - 11:00 | Secondary metabolites govern carbon fixation in multicellular consortia of cyanobacteria | Elke Dittmann University of Potsdam |
| 11:00 - 11:15 | Antibacterial cue from ecological neighbour increases Holomycin production by <i>Photobacterium galathea</i> | Yannick Buijs DTU |
| 11:20 - 11:35 | The effect of host-related signals on the antibiotic production of Actinobacteria | Doris A. van Bergeijk Leiden University |
| 11:40 - 11:55 | Identification and characterization of a novel signaling molecule in <i>Salmonella Typhimurium</i> | Lotte Jelsbak Roskilde University |
| 12:00 - 1300 | Lunch break | |

Session 2: Gene sequencing: microbial diversity and functionality

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| 13:00-13:30 | Tip of the iceberg: Potential and pitfalls of environmental metagenomics in deciphering life on Earth | Neslihan Tas Baas Lawrence Berkely National laboratory |
| 13:30-14:00 | Sequence based identification and analyses of diversity of fungi and other eukaryotes in environmental samples: challenges and solutions | Henrik Nilsson University of Gothenburg |
| 14:00-14:30 | Sequence based analyses of genetic potential for secondary metabolites in microbes | Zach Charlop Powers Lodo Therapeutics |
| 14:30 - 15:00 | Coffee break | |
| 15:00 - 15:15 | Secondary Metabolites in soil: Mining short and long read metagenomes | Shrikant Mantri Universität Tübingen |
| 15:20 - 15:35 | An oral pathogen produces metabolites that interact with the oral microbiome | Xiaoyu Tang Princeton University |



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| 15:40 - 15:55 | Rapid evolution of mobile genetic elements remodels secondary metabolite profile of a beneficial microbe | Anna Dragos DTU |
| 16:00 - 18:00 | Posters, drinks and group photo | |
| 19:00 - 21:00 | Dinner | |

Day 3 - Tuesday 18th June 2019

Session 3: Chemical detection and visualization of microbial secondary metabolites

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| 09:00 - 09:30 | Discovering, Modifying and Utilising Natural Products from Extremophiles | Marcel Jaspars University of Aberdeen |
| 09:30 - 10:00 | Spatial metabolomics of in situ, host-microbe interactions | Manuel Liebeke Max Planck institute for Marine Microbiology |
| 10:00 - 10:30 | Coffee break | |
| 10:30 - 11:00 | NMR and DNP analysis for unraveling metabolic interactions between bacteria and host cells | Mathilde Hauge Lerche Center for Hyperpolarization in Magnetic resonance - DTU |
| 11:00 - 11:15 | Biosynthetic Potential and Chemical Diversity of Microbial Associated with Fungus-growing Termite | Huijuan Guo Hans Knöll Institute |
| 11:20 - 11:35 | Exotic cofactors in microbiomes - novel roles of cryptic natural products | Gerald Lackner Hans Knöll Institute |
| 11:40 - 11:55 | Neglected sources: marine and anaerobe microbes as producers of uncharacterized natural metabolites | Theresa Jautzus Hans Knöll Institute |
| 12:00 - 1300 | Lunch break | |

Session 4: Developing and evolving model microbial communities

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| 13:00-13:30 | Inferring metabolic interactions in microbial communities | Jason Papin University of Virginia |
| 13:30-14:00 | Towards understating the natural functions of antibiotics | Daniel Rozen Leiden University |
| 14:00-14:30 | Evolution with fungi promotes bacterial secondary metabolite production | Ákos Kovács Center for Microbial Secondary Metabolites - DTU |
| 14:30 - 15:00 | Coffee break | |
| 15:00 - 15:15 | Designing a synthetic medium to study interactions between bacterial species | Rita Di Martino University of Lausanne |
| 15:20 - 15:35 | A modified isolation chip for in situ cultivation and isolation of antimicrobial drug-producing bacteria from social spider nests | Seven Nazipi Aarhus University |
| 15:40 - 15:55 | Omics-based investigations of fungal adaptations to extreme environments with herbarium specimens | Benjamin H. Conlon University of Copenhagen |
| 16:00 - 16:30 | Closing remarks | Lone Gram - DTU |
| 16:30 - 18:00 | Networking and drinks | |

