

**SCIENTIFIC PROGRAM • TUESDAY, 19 SEPTEMBER**

- 16.00–21.00 Registration  
 18.00–18.30 Opening Remarks  
 18.30–19.30 Opening Lecture: Fungus-host interactions during *Candida* colonisation and infection  
 Alistair Brown, United Kingdom
- 19.30 Welcome Reception

**SCIENTIFIC PROGRAM • WEDNESDAY, 20 SEPTEMBER**
**Systems & Synthetic Biology**

- 08.30 Collateral sensitivity of antibiotic resistant microbes  
 Csaba Pál, Hungary  
 08.55 *Oral presentation selected from abstracts*  
 09.15 The role of xenogeneic silencers in (pro-) phage-host interaction  
 Julia Frunzke, Germany

**Towards Biotechnology – Metabolic Modeling & Genome/Enzyme Engineering**

- 09.40 Lessons from (meta)genomes - Novel biocatalysts and compounds  
 Karl-Erich Jaeger, Germany  
 10.05 *Oral presentation selected from abstracts*  
 10.25–11.00 Coffee Break

**Towards Biotechnology – Metabolic Modeling & Genome/Enzyme Engineering (continued)**

- 11.00 Microbial solvent formation revisited by comparative genome analysis  
 Anja Poehlein, Germany  
 11.25 *Oral presentation selected from abstracts*  
 11.45 *Oral presentation selected from abstracts*  
 12.05 Novel halohydrin dehalogenases by database mining from identification to protein engineering  
 Anett Schallmey, Germany  
 12.30 *Oral presentation selected from abstracts*  
 12.50–13.30 Lunch Break  
 13.30–15.00 Poster Session I

**Omics at its best – Global Gene Regulation & Proteome Dynamics**

- 15.00 Regulatory RNAs in *Helicobacter pylori* and *Campylobacter jejuni*  
 Cynthia Sharma, Germany  
 15.25 *Oral presentation selected from abstracts*  
 15.45 Regulatory network controlling sporulation and stress response in the enteropathogen *Clostridium difficile*  
 Isabelle Martin-Verstraete, France  
 16.10 *Oral presentation selected from abstracts*  
 16.30 *Oral presentation selected from abstracts*  
 16.50–17:20 Coffee Break

**Omics at its best – Global Gene Regulation & Proteome Dynamics (continued)**

- 17.20 How to make a fruiting body: comparative genomics and transcriptomics in *filamentous fungi*  
 Minou Nowrusian, Germany  
 17.45 *Oral presentation selected from abstracts*

**SCIENTIFIC PROGRAM • WEDNESDAY, 20 SEPTEMBER**

- Functional Genomics of Prokaryotic Viruses**  
 18.05 Bacteriophage diversity in human bacterial diseases  
 Martha Clokie, United Kingdom  
 18.30 *Oral presentation selected from abstracts*  
 18:50 End of 1<sup>st</sup> day

**SCIENTIFIC PROGRAM • THURSDAY, 21 SEPTEMBER**
**MetaOmics & Microbial Ecosystems**

- 08.30 The soil resistome: Impact of human activities on the diversity and abundance of antibiotic resistance genes in the soil  
 Pascal Simonet, France  
 08.55 *Oral presentation selected from abstracts*  
 09.15 Mining and expressing biosynthetic gene clusters from soil metagenomes  
 Mark Liles, United States  
 09.40 *Oral presentation selected from abstracts*  
 10.00 Activity-based discovery of novel enzymes from marine environments  
 Peter Golyshin, United Kingdom  
 10.25–11.00 Coffee Break

**Infectiongenomics & Host Microbe Interplay**

- 11.00 Pathogen heterogeneity in host tissue – impact on disease progression and treatment  
 Dirk Bumann, Switzerland  
 11.25 *Oral presentation selected from abstracts*  
 11.45 Tba  
 Sebastian Suerbaum, Germany  
 12.10 *Oral presentation selected from abstracts*  
 12.30 Genomic approaches to invasive fungal infections  
 Oliver Kurzai, Germany  
 12.55–13.30 Lunch Break  
 13.30–15.00 Poster Session II

**Infectiongenomics & Host Microbe Interplay (continued)**

- 15.00 Overcoming host (innate) immune barriers: Pathogenic microbes use related survival strategies  
 Peter Zipfel, Germany  
 15.25 *Oral presentation selected from abstracts*  
 15.45 An OMICs view of physiology and pathophysiology of *Staphylococcus aureus*  
 Uwe Völker, Germany

**Microbial Evolution, Population Genomics & Epidemiology**

- 16.10 Bacterial within-host evolution and implications for transmission analysis  
 Xavier Didelot, United Kingdom  
 16.35 *Oral presentation selected from abstracts*  
 16.55–17.25 Coffee Break

**SCIENTIFIC PROGRAM • THURSDAY, 21 SEPTEMBER**

- Microbial Evolution, Population Genomics & Epidemiology (continued)**  
 17.25 Bacterial pathogens from population biology to genomic epidemiology  
 Sylvain Brisse, France  
 17.50 *Oral presentation selected from abstracts*  
 18.10 *Oral presentation selected from abstracts*  
 18.30 *Oral presentation selected from abstracts*  
 18.50 End of 2<sup>nd</sup> day
- 19.30 Conference Dinner

**SCIENTIFIC PROGRAM • FRIDAY, 22 SEPTEMBER**
**MetaOmics & Microbial Ecosystems**

- 08.30 Metagenomic analysis for crop production  
 Trevor Charles, Canada  
 08.55 *Oral presentation selected from abstracts*  
 09.15 Sub polar sediment comparative metagenomics and applied ecosystem functions  
 Sara Sjöling, Sweden  
 09.40 *Oral presentation selected from abstracts*  
 10.00 Driving forces of microbial community structure, diversity and function in the marine realm  
 Bernd Wemheuer, Australia  
 10.25–11.00 Coffee Break

**Omics at its best – Global Gene Regulation & Proteome Dynamics**

- 11.00 Interactions between phage and bacteria studied on pan-genomic scales  
 Rotem Sorek, Israel  
 11.25 *Oral presentation selected from abstracts*  
 11.45 Lessons learned from deep proteomics and proteogenomics of model bacteria  
 Boris Macek, Germany  
 12.10 *Oral presentation selected from abstracts*  
 12.30 Lunch Break

**Microbiome Host Interaction**

- 13.05 *Oral presentation selected from abstracts*  
 13.30 Post-genome analyses of a plant pathogenic bacterium  
 Cornelius Schmidtke, Germany  
 13.55 *Oral presentation selected from abstracts*  
 14.15 Microbiome analysis of the human gut and the ocean  
 Peer Bork, Germany  
 14.40 Closing remarks  
 14.50 End of conference