

Microbiota studies –methods and new developments

Morning session:

10:00- Simona Radutoiu: Introduction of the workshop

Session 1: Computational and experimental design Chair: Simona Radutoiu

10.15- Ke Tao (AU): Short overview of the experimental design and sample preparation

10.30- Ruben Garrido Oter (MPI): Bioinformatics challenges of amplicon sequence analysis

10.50- Andrzej Tkacz (OU): Absolute quantification of PCR amplicons using chimeric spikes

11.10- Simon Kelly (AU): Comparative analysis of different experimental designs

11.30- Coffee/Tea break

Session 2: Plant microbiota studies and opportunities for discoveries in legumes Chair: Phil Poole

12.00- Ruben Garrido Oter (MPI): Core and host-specific microbiota

12.20- Phil Poole (OU): Rhizosphere interactions specific for legumes

12.40- Simona Radutoiu (AU): Plant and bacterial genetics for microbiota studies

13.00- Lunch

Afternoon session:

Session 3: New frontiers in microbiota studies Chair: Ruben Garrido Oter

14.00- Tatsuya Nobori (MPI): *In planta* bacterial transcriptomics

14.20- Rachel Wheatley (OU): Functional dissection of bacterial genes using *InSeq*

14.40- Maria Isabel Alves (AU): Comparative genomics of a bacterial population

15.00- Jack Parson (OU): Live monitoring of microbe-host interactions in the rhizosphere

15.20- Coffee/Tea break

Session 3: New frontiers in microbiota studies Chair: Ruben Garrido Oter

15.50- Marcella Mendoza Suarez (OU): Tools for bacterial tagging and monitoring

16.10- Ke Tao (AU): Culture collections and synthetic communities

16.30- Tim Hasket/Marta Mendes (OU): Engineering the rhizosphere

17.00 min talks from submitted abstracts and Q&A session

17.55- Closing remarks