

Satellite Meeting - Workshop on the Genomics of N-Fixing Organisms

Stockholm

18 August 2018

Organiser: Peter Young (York, UK)

09.00 – 09.30 Registration for Workshop

09.30 – 10.30 Session 1

09.30 – 09.50

Barbara Reinhold Hurek (Bremen, Germany): Genomic and phenotypic characterization of four novel plant-associated *Verrucomicrobia* indicate a new subdivision with one cultivated member

09.50 – 10.10

Shanmugam Solaiyappan Mani (Bremen, Germany): Transcriptome analysis of nitrogen-fixing endophyte *Azoarcus olearius* BH72 by next-generation sequencing

10.10 – 10.30

Isaac Gifford (Davis CA, USA): Stable genetic transformation and heterologous expression in the nitrogen-fixing endosymbiont *Frankia* sp. ACN14a

10.30 – 10.50

Peter Young (York, UK): Genomic definition of species within the *Rhizobium leguminosarum* species complex

10.50 – 11.20 Coffee

11.20 – 12.40 Session 2

11.20 – 11.40

Maria Izabel Cavassim (Aarhus, Denmark): The genomic architecture of introgression among sibling species of *Rhizobium leguminosarum*

11.40 – 12.00

Alexey Afonin (Saint Petersburg, Russia): Genome and transcriptome of *Rhizobium leguminosarum* bv viciae strain RCAM1026 capable of suppressing the mutant pea (*Pisum sativum* L.) line P61

12.00 – 12.20

Seyed Abdollah Mousavi (Helsinki, Finland): Comparison of genomes of peanut bradyrhizobial strains with respect to nitrogen fixation and denitrification

12.20 – 12.40

Ernesto Ormeño-Orrillo (Lima, Peru): Genome analysis of *Bradyrhizobium paxllaeri*, a species nodulating *Phaseolus lunatus* in Peru

12.40 – 13.40

Lunch

13.40 – 15.30

Session 3

13.40 – 14.00

Turlough Finan (Hamilton, Canada): The minimal N₂-fixing symbiotic gene set from the pSymA and pSymB replicons of *Sinorhizobium meliloti*

14.00 – 14.20

Alessio Mengoni (Florence, Italy): Playing with the rhizobial Mega-Apps: creation and multi-omics characterization of a genomically hybrid strain in *Sinorhizobium meliloti*

14.20 – 14.40

George diCenzo (Florence, Italy): Comprehensive characterization of *Sinorhizobium meliloti* core metabolism through integration of experimental transposon-sequencing with *in silico* metabolic reconstruction

14.40 – 15.00

Katrin Petersen (Hamburg, Germany): Micro-proteins in *Sinorhizobium fredii* NGR234 are involved in symbiotic plasmid copy number regulation

15.00

End of workshop