Computational Methods in Antimicrobial Resistance Research

INFO

For questions, please contact *cmross@utu.fi*

05/10/2023

13:00 - 17:00
(Coffee served 12:30 onwards)

Säästöpankki hall
Main Building,
University of Turku
(here)

13:00

Opening remarks
Prof. Leo Lahti
Dept. of Computing, University of Turku, FI

Microbial secondary metabolism gene clusters in antibiotic discovery
Prof. Mikko Metsä-Ketelä
Dept. of Life Technologies, University of Turku, FI

KEYNOTE: Studies of microbiome response to antibiotics across multiple scales
Dr. Christopher Quince
Earlham and Quadram Institutes, Norwich, UK

Population level variation in human gut resistomes
Dr. Katariina Pärnänen
Dept. of Computing, University of Turku, FI

14:15

COFFEE AND SNACKS

14:45

Role of rapid evolution & connectivity in community response to antibiotic disturbance
Dr. Johannes Cairns
Dept. of Computer Science, University of Helsinki, FI

Jointly linear & nonlinear GWAS of penicillin resistance in Streptococcus pneumoniae
Dr. Tommi Mäklin
Dept. of Mathematics and Statistics, University of Helsinki, FI

Linking antibiotic resistance genes to larger context with long read-sequencing and methylation patterns
Dr. Antti Karkman
Dept. of Microbiology, University of Helsinki, FI

Dispersal models for antimicrobial resistance
Dr. Aura Raulo[1] & Dr. Guilhem Sommeria-Klein[2]
[1]Dept. of Biology, University of Oxford, UK
[2]Dept. of Computing, University of Turku, FI

16:00

DISCUSSION

17:00

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