

Tilastopäivät 2015 – Statistical Days 2015

Big Data in Biological and Medical Research

University of Helsinki, August 20-21, 2015

Day 1 – Thursday, August 22, 2015

Biomedicum Helsinki 1, Lecture Room 2, Haartmaninkatu 8

11:00-12:15 Registration

12:15-12:30 *Opening*

Jyrki Möttönen, President of the Finnish Statistical Society

Invited Session I: Human Genomics

Chair: *Matti Pirinen*, FIMM

12:30-13:00 *Research infrastructures and Big Data*
Professor Juni Palmgren, University of Helsinki

13:00-13:15 *Out of disc space and CPU hours: adventures in SISu-projects and current statistical genetics*
Samuli Ripatti, FIMM

13:15-14:00 *UK Biobank, A Large-scale, Extensively Phenotyped, Prospective Resource: How to Use the Genotype Data for 500,000 Individuals*
Doctor Desislava Petkova, Oxford University

Contributed Session 1

Chair: *Samuli Ripatti*, FIMM

14:00-14:15 *Efficient fine mapping of thousands of correlated genetic variants using summary data from genome-wide association studies*
Christian Benner, FIMM

14.15-14.30 *metaCCA: Summary statistics-based multivariate meta-analysis of genome-wide association studies using canonical correlation analysis*
Anna Cichonska, FIMM & Aalto University

14:30-15:00 Coffee Break

Invited Session II: Bioinformatics and Molecular Evolution

Chair: *Ida Surakka*, FIMM

15:00-15:45 *Voodoo or real inference? ABC meets machine learning with applications to evolutionary epidemiology*

Professor Jukka Corander, University of Helsinki

15:45-16:30 *Modeling the Impact of Recombination on the Genomic Distribution of Streptococcus Pneumoniae*

Doctor Pekka Marttinen, Aalto University

Sponsor's Address and Conference Dinner

16:30-17:00 *Patient Safety in Focus – Using Text Analytics to Detect Adverse Event Related Triggers*

Pertti Viitamäki, SAS Institute Oy

19:00-22:00 Conference dinner at Ravintola Lasipalatsi

Day 2 – Friday, August 21, 2015

Biomedicum Helsinki 1, Lecture Room 2, Haartmaninkatu 8

09:00-9.30 Morning coffee with posters

Invited Session III: Population registry data

Chair: *Ari Jaakola*, Vice President of the Finnish Statistical Society

09:30-10.00 *Finnish Cancer Registry – Population-based Big Data Covering Six Decades*

Doctor Janne Pitkäniemi, The Finnish Cancer Registry

10:00-10:30 *Register data – To be or not to be Big Data?*

Doctor Reijo Sund, University of Helsinki

Invited Session IV:

Chair: *Jyrki Möttönen*, President of the Finnish Statistical Society

10:30-11:15 *Progress in Human Genetics – with Big Data*

Professor Mark Daly, Harvard University

Final Session

Chair: *Jyrki Möttönen*, President of the Finnish Statistical Society

11:15-11:45 *Leo Törnqvist Prize*

11:45-12:00 *Closing*