

# Tilastopäivät 2015 – Statistical Days 2015

## *Big Data in Biological and Medical Research*

University of Helsinki, August 20-21, 2015

### Day 1 – Thursday, August 20, 2015

Biomedicum Helsinki 1, Lecture room 2, Haartmaninkatu 3

11:00-12:15 Registration

12:15-12:30 Opening speech, Jyrki Möttönen, The Finnish Statistical Society

#### **Invited Session I: Human Genomics**

Chair: Samuli Ripatti, FIMM

12:30-13:15 *Progress in Human Genetics - with Big Data*  
Professor Mark Daly, Harvard University

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 I**

Chair: Samuli Ripatti, FIMM

14:00-14:30 2 x 15 min (contributed talks)

14:30 -15:00 Coffee break

#### **Invited Session II: Bioinformatics and Molecular Evolution**

Chair: Matti Pirinen, FIMM

15:00-15:45 *Mathematical Models of Molecular Evolution*  
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

## **Contributed Session II**

Chair: Matti Pirinen, FIMM

**16:30-17:00**    *2 x 15 min (contributed talks)*

## **Sponsor's Address and Conference Dinner**

**17:00-17:30**    *TBA*  
*Jaana Sinipuro, SAS Institute Oy*

**19:00-22:00**    Conference dinner

## **Day 2 – Friday, August 21, 2015**

**Biomedicum Helsinki 1, Lecture room 2, Haartmaninkatu 3**

## **Invited Session III: Population registry data**

Chair: Ari Jaakola

**08:30-9:00**    *Finnish Cancer Registry - Population-based Big Data Covering Six Decades*  
*Doctor Janne Pitkäniemi, The Finnish Cancer Registry*

**09:00-9:30**    *Register data - To be or not to be Big Data?*  
*Doctor Reijo Sund, University of Helsinki*

## **Contributed Session III**

Chair: Ari Jaakola

**9:30-10:00**    *2 x 15 min (contributed talks)*

## **Poster Session**

**10:00 -10:45**    Poster presentations with coffee

## **Invited Session IV: Big data infrastructures**

Chair: Jyrki Möttönen

**10:45-11:15**    *TBA*  
*Professor Juni Palmgren, University of Helsinki*

## **Final Session**

Chair: Jyrki Möttönen

**11:15-11:45**    **Leo Törnqvist Prize**

**11:45-12:00**    **Closing**