New developments in animal genomics - selected biostatistic and bioinformatic tools

Wrocław, 8 – 10 September 2014

8.09.2014

*Programming for genomic analyses in animal breeding (Dr. Zengting Liu)*

1. Genomic data in dairy cattle
2. Genomic selection models: two- and single single-step approach
3. Fortran and shell script

9.09.2014

*Modelling genetic variation using R (Dr. Magdalena Frąszczak, Dr. Tomasz Suchocki)*

1. Linear mixed models
2. Estimation of (co)variance parameters
3. Nonparametric analysis

10.09.2014

*Analysis of data from Next Generation Sequencing (Magda Mielczarek, prof. Joanna Szyda)*

1. First vs. second generation sequencing methods
2. Bioinformatics steps of NGS data processing
3. Examples of NGS data statistical analysis