

4th Summer School on Computational Biology

Statistical Methods for Genetic and Molecular Data

Thursday 29.5.2008: Genetic and Molecular Data Processing

Leading tutor: E. Budinská, D. Némethová

9:00 – 9:30 Opening by J. Hřebíček, L. Dušek, the guarantees of Computational Biology

9:30 – 11:00 Introduction into multivariate data analysis (T. Pavlík)

11:00 – 12:00 Lunch

12:00 – 14:45 Practical training in analysis of genomic profiles (E. Budinská, T. Pavlík)

14:45 – 15:15 Coffee break

15:15 – 16:30 Bioinformatics – tool for solving biological problems (E. Chovancová, J. Damborský)

16:30 – 16:45 Coffee break

16:45 – 18:00 Practical training in bioinformatics (E. Chovancová, J. Damborský)

Friday 30.5.2008: Applied phylogenetics

Leading tutor: D. Némethová

9:00 – 10:20 Basic phylogenetic methods (P. Vallo)

10:20 – 10:40 Coffee break

10:40 – 12:00 Phylogenetic applications (G. Heckel)

12:00 – 14:00 Lunch

14:00 – 18:00 Tutorial in phylogenetic analyses (N. Martínková, P. Vallo)

18:30 Social event

Saturday 31.5.2008: Processing of Genetic data and their Role in Population and Clinical Research

Main tutor: K. Chroust



- 9:00 – 10:30 Introduction to genetics of quantitative parameters, tutorial of population-based research (K. Chroust)
- 10:30 – 10:45 Coffee break
- 10:45 –12:00 Role of genetic and molecular data in clinical research – application documented in case studies (J. Mužík, L. Dušek, K. Chroust)