

Young Scientists School
Big data analysis in biology: challenges and solutions
July 25-26, 2017, Moscow

Preliminary program

Working languages are Russian and English

Venue: Moscow State University

25.07.2017

9.00 Registration

9.30 Welcome remarks

9.40 Ivo Grosse. Phylotranscriptomic hourglass patterns of embryonic and post-embryonic plant development: bioinformatics approaches, computational challenges, and new evolutionary questions.

11.10 Coffee break

11.30 Elena Nabieva. Challenges in somatic SNV calling in hepatocellular carcinoma

12.00 Vasily Ramensky. Whole-genome sequencing of 719 vervet monkeys for genetic analysis of medically relevant traits.

13.00 Lunch

14.30 Tanya Vavouri. Transgenerational transmission of environmental information in animals

15.30 Ekaterina Khrameeva. Challenges in bioinformatics analysis of metabolite/lipid mass-spectrometry data

16.30 Coffee break

16.50 Ivan Antonov. Estimating statistical significance of the RNA-RNA interaction energy

17.50 Irina Eliseeva. Washing gold particles of relevant functional annotation from PAR-CLIP sand

18.20 Anna Lioznova. Combining various omics data

26.07.2017

9.00 Albin Sandelin. Enhancer RNA expression and dynamics across the human body

10.00 Elena Stavrovskaya. StereoGene: Rapid Estimation of Genomewide Correlation of Continuous or Interval Feature Data

11.00 Coffee break

11.20 Yulia Medvedeva. Chromatin modification changes in response to demethylating drugs

12.20 Artem Artemov. DNA methylation: do's and don'ts

13.20 Lunch

14.50 Petr Kharchenko. Analysis of clonal effects in hematopoiesis

15.50 Vsevolod Makeev. Single cell gene expression profiling with NanoString, and studying of neural crest development

16.50 Coffee break

17.20 Alexander Favorov, Alexander Abramov. Gene expression profiling in peripheral blood mononuclear cells reveals dependency on multiple sclerosis activity

18.20 Closing remarks