

Institute of Computational Mathematics and Mathematical Geophysics of SB RAS  
Novosibirsk State University  
Institute of Cytology and Genetics of SB RAS  
Sobolev Institute of Mathematics of SB RAS  
Russian Foundation for Basic Research  
hold an

## The 3<sup>rd</sup> International Symposium

### "Mathematical Modeling and High-Performance Computing in Bioinformatics, Biomedicine and Biotechnology"

Novosibirsk, Russia, August 21-24, 2018

#### Scientific program

Many issues will be discussed during this Conference: the problems of mathematical modeling in biomedicine, direct and inverse problems of determining the parameters of biophysical processes using computer simulations.

#### Scientific directions:

- High-performance and distributed computing in biomedicine.
- Applied problems of bioinformatics and system biology.
- Methods of data mining in natural sciences.
- Mathematical modeling of gene and metabolic networks.
- Modeling of pharmacokinetic processes in the body. Numerical methods for solving direct and inverse problems of pharmacokinetics.
- Mathematical models of immune processes. Direct and inverse problems immunology.
- Mathematical modeling of the spread of epidemics.
- Identification problems of dynamic systems.
- Application of software packages for solving problems of bioinformatics and biomedicine.
- Development of numerical algorithms for solving inverse problems in tomography.

#### Important information

**Conference language:** English, russian.

To apply for participation, you must register on the conference

<http://conf.bionet.nsc.ru/bgrssb2018/>

#### Registration fee

**1500** rubles – category «listener»

**2500** rubles – accompanying person, absentee participant, students/graduate students

**4000** rubles – category «minimum», participation in school SBB-2018

**6500** rubles – category « standard»

#### Important dates

- **March 12, 2018** - Last date of registration on the website and submitting abstracts for the conference
- **April 10, 2018** - Notification of inclusion in the conference program
- **21– 24 August, 2018** - Dates of the conference

## Program Committee

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