



**Computer Application in Scientific Researches IVTN.ru**  
<http://www.ivtn.ru>

**Organizing Committee:** Tel./Fax: +7 495 995 8017 E-mail: [org@ivtn.ru](mailto:org@ivtn.ru)

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## **Computer applications in fundamental and applied Chemistry, Biology, Pharmaceutics and Medicine**

### **Online conference**

#### **The main topics and subjects of the conference:**

1. General problems and prospects of computer applications in science
2. Computing and computing management (networks and parallel computation)
3. Computer simulation
4. Visualization in scientific researches
5. Data processing, databases and data analysis
6. Intelligence systems and technologies (decision-making, expert system etc.)
7. Optimum procedures and design of experiments

#### **We suppose to discuss computer applications in a wide range of scientific problems:**

- Computerization of the experiments in chemistry and biology: from experimental data logging till data processing and results interpretation
- Biocomputing: genetic and amino acid analysis, forecast of proteins structure and functions
- Genomics, transcriptomics, proteomics, metabolomics...- systemic biology?
- Structure-property and structure-activity relationships analysis, opportunity for material design with required properties
- Molecular modeling: information about 3-d structure of ligand, protein target, interaction between ligand and the target
- Computer-aided design of drugs: technology and art.
- Biotechnologies computing: from protein bioengineering till edible vaccine design
- Molecular medicine: from diseases diagnostic till diagnostic of the diseases predisposition
- Individual treatment – to treat a patient but not the disease: science fiction or the future of medicine?

#### **Online conference (rules and demands)**

1. The conference will be held on the website <http://www.ivtn.ru>.
2. E-conference (all the questions, answers, discussions, opinions exchange, voting) will be held **since April till October 2006**
3. The thesis will be published in collected articles
4. The best reports will be awarded by prizes and diplomas
5. The Committee pays your attention, that using of computer applications and IT as well as scientific achievements is one of basic criterions for awarding

If you want to take part in the conference, you should sent e-mail to the Committee before **March 31, 2006** including:

- Application form (<http://www.ivtn.ru/application.html>)
- Thesis, formalized according to proposed demands

For more information about online conference and participating rules visit <http://www.ivtn.ru/rules.html>

Yours faithfully,

Organizing Committee  
**Tel./Fax:** +7 495 995 80 17  
**E-mail:** [org@ivtn.ru](mailto:org@ivtn.ru)  
**URL:** <http://www.ivtn.ru/>