

Dr. PETR V. NAZAROV

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DATE AND PLACE OF BIRTH:	1 st January 1978 Minsk, Belarus (former part of USSR)
EDUCATION:	<p><u>2002 – 2006</u> Laboratory of Biophysics, <i>Wageningen University</i>, The Netherlands and Department of Systems Analysis, <i>Belarusian State University</i>, Belarus <i>PhD sandwich-system program (Promoted as PhD at 13.12.2006, Wageningen)</i> "Simulation and analysis of FRET in the study of membrane proteins" (PhD Thesis)</p> <p><u>2000 – 2001</u> Department of Systems Analysis, <i>Belarusian State University</i> <i>Master of Science program</i> "Development of methods, algorithms and software tools of optical spectra processing by neural networks" (Master Thesis)</p> <p><u>1995 – 2000</u> Department of Systems Analysis, Faculty of Radio Physics and Electronics, <i>Belarusian State University</i> <i>Undergraduate program</i> "Development of methods, algorithms and software tools of atomic emission spectra processing" (Diploma Thesis)</p>
LANGUAGES:	Belarusian, English, Polish, Russian
SCIENTIFIC & PRACTICAL INTERESTS:	<ul style="list-style-type: none">• Statistical methods of microarray data analysis• Scientific software development (C++, MATLAB, R)• Modeling and analysis of complex biomolecular systems (actin polymerization and cell regulation networks)• Stochastic simulation of biomolecular processes (stochastic discrete-event simulation algorithms)• Artificial neural networks and their applications (approximation, data analysis)
WORK EXPERIENCE:	<p><u>2007-present</u> – biostatistician at CRP-Sante, Luxembourg</p> <p><u>2007</u> – senior tutor at Belarusian State University, Belarus</p> <p><u>2006-2007</u> – engineer-programmer at Belarusian State University, Belarus</p> <p><u>2002-2006</u> – PhD-student at Belarusian State University, Belarus, and Wageningen University, The Netherlands.</p>
PEDAGOGIC EXPERIENCE:	<ul style="list-style-type: none">• Lecture course "<i>Business Statistics</i>" (lectures: 42 hr) read in English for MBA students of Belarusian State University, Minsk, Belarus. (2006/2007, 2007/2008)• Lecture course "<i>Systems Analysis and Modeling</i>", (lectures: 40 hr, practical: 28 hr), read in English for students of Belarusian State University, (2007/2008).• Scientific supervision of students theses (2006/2007, 2007/2008)• Participation with lectures in the courses "<i>Neural networks</i>", "<i>Modeling of processes and systems</i>", and "<i>Mathematical modeling</i>" for the students of the Department of Systems Analysis, Belarusian State University, Minsk, Belarus.

**RESEARCH
EXPERIENCE
(PROJECTS):**

2006 – 2007 Senior researcher and project manager

- “Developing mathematical models, algorithms and programming tools for analysis of actin-based motility” (funded by **Fonds National de la Recherche Luxembourg**), CRP-Sante, Luxemburg, and Belarusian State University.
- “Simulation and global analysis of the processes of electronic excitation in complex molecular systems” (funded by Belarusian National Fund of Fundamental Research), Belarusian State University.

2000 – 2005 Researcher and supervisor of the projects in relation to PhD topic

PUBLICATIONS:

28 scientific papers, including:

- 10 journal articles
- 18 papers in proceedings of international conferences

Key publications in the last 5 years:

1. Nazarov P.V., Koehorst R.B.M., Vos W.L., Apanasovich V.V., Hemminga M.A. *FRET study of membrane proteins: determination of the tilt and orientation of the N-terminal domain of M13 major coat protein*, *Biophys. J.*, **2007**, 92, p. 1296-1305.
2. Vos W.L., Schor M., Nazarov P.V., Koehorst R.B.M., Hemminga M.A. *Structure of membrane-embedded M13 major coat protein is insensitive to hydrophobic stress*, *Biophys. J.*, **2007**, v. 93, p. 3541-3547.
3. Nazarov P.V. *Simulation and analysis of FRET in the study of membrane proteins*, Doctoral Thesis, ISBN: 90-8504-553-3, PrinterPartners Ipskamp, Wageningen, **2006**, 135 pages.
4. Nazarov P.V., Koehorst R.B.M., Vos W.L., Apanasovich V.V., Hemminga M.A. *FRET study of membrane proteins: simulation-based fitting for analysis of membrane protein embedment and association*, *Biophys. J.*, **2006**, 91, p. 454-466.
5. Hesselink R.W., Koehorst R.B.M., Nazarov P.V., Hemminga M.A. *Membrane-bound peptides mimicking transmembrane Vph1p helix 7 of yeast V-ATPase: A spectroscopic and polarity mismatch study*. *Biochim. et Biophys. Acta*, **2005**, 1716:2, p. 137-145.
6. Sparr E., Ash W.L., Nazarov P.V., Rijkers D.T.S., Hemminga M.A., Tieleman D.P., Killian J.A. *Self-association of transmembrane α -helices in model membranes: importance of helix orientation and role of hydrophobic mismatch*. *J. Biol. Chem.*, **2005**, 280:47, p. 39324-39331.
7. Nazarov P.V., Apanasovich V.V., Lutkovski V.M., Yatskou M.M., Koehorst R.B.M., Hemminga M.A. *Artificial neural network modification of simulation-based fitting: application to a protein-lipid system*. *J. Chem. Inf. Comput. Sci.*, **2004**, 44, p. 568-574.

Signature:



/ P. Nazarov /

Date:

12/03/2008