

Curriculum Vitae of Nasrollah Rezaei-Ghaleh

Personal information:

Born in 1973; Mazandaran, Iran.

Married; My spouse is now a M.A. student of women studies.

Language:

Mother tongue: Persian; foreign language: English (proficient);

Language to communicate with computers: C/C++ (Fluent).

Education:

- Entered in Tehran University of Medical Sciences in 1991; Graduated as MD in 1998.

- Entered in Institute of Biochemistry and Biophysics (IBB), University of Tehran in 2001 as a PhD candidate; Now conducting the PhD thesis under the supervision of Dr. M. Nemat-Gorgani (professor of biochemistry at IBB and the research associate in Stanford university) and Dr. A.A. Moosavi-Movahedi (Professor of Biophysics at IBB).

Memberships:

- 1- Member of European Society of Mathematical and theoretical Biology (www.esmtb.org)
- 2- Member of Society for Mathematical Biology (www.smb.org)
- 3- Member of a bio-complexity work group in the Complex system research center in Khaje-Nasir Technical University (<http://alborz.kntu.ac.ir/~ccsr/CAGroup.htm>)

Honors:

- 1- In the nation-wide exam to enter universities in 1990 (known in Iran as conquer), I got the 9th rank among all participants, the 1st rank among participants from the second educational region of country.
- 2- All medical students should pass a general examination of basic sciences after they terminate the related courses. In this exam, held in 1993, I got the 1st rank among all medical students of the country.

Awards:

- 1- In 2005, I was awarded a **European Commission grant** by the **European Society of Mathematical and Theoretical Biology** (www.esmtb.org) to attend the 6th European Conference on Mathematical and Theoretical Biology, Dresden, Germany.
- 2- In 2003, I was awarded the **Landahl grant** by the **Society for Mathematical biology** (www.smb.org) to attend the 3rd International Conference on Mathematical Biology, Dundee, Scotland.
- 3- In 2003, I was awarded a travel grant by the Mediterranean branch of Eli Lilly Company to participate in the 18th International Diabetes Federation Congress, Paris, France.

Publications:

- 1- **Rezaei-Ghaleh N.** Signaling in biological systems: insights from communication theory. Journal of Theoretical Biology 2003;224(3):411-412.

- 2- Ghaemi M., **Rezaei-Ghaleh N.**, Sarbolouki M.N. Directed Ligand Passage Over the Surface of Diffusion-Controlled Enzymes: A Cellular Automata Model. *Lecture Notes in Computer Sciences* 2004;3305:719-724.
- 3- As a MD, I have been involved in a part-time collaboration with the Endocrine Research Center, Shaheed Beheshti University of Medical Sciences, so I have published some clinical papers in national and international journals. You can find some of them in <http://nrcms.ir/cv/detail.asp?cvusername=nrezaie>.

International Congresses and Conferences:

- 1- **Rezaei-Ghaleh N.**, Ghaemi M., Sarbolouki M. N. Random walk of ligand over the random surface of enzyme: implications for diffusion-controlled enzymes. **Oral presentation** in the sixth **European Conference in Mathematical and Theoretical Biology**, Dresden, Germany, 2005.
- 2- **Rezaei-Ghaleh N.**, Moshayedi P. The diffusion coefficient dependence on concentration implies novel chemotactic behavior of cell populations. **Oral presentation** in the 3rd **international conference on Computational and Mathematical Population Dynamics (CMPD)**, Trento, Italy, 2004.
- 3- **Rezaei-Ghaleh N.**, Ghaemi M., Sarbolouki M.N. A cellular automata model of ligand passage over the surface of diffusion-controlled enzymes. **Poster presentation** in the 5th **International Conference on Biological Physics (ICBP)**, Gothenburg, Sweden, 2004.
- 4- Ghaemi M., **Rezaei-Ghaleh N.**, Sarbolouki M.N. Directed ligand passage over the surface of diffusion-controlled enzymes: a cellular automata model. **Poster presentation** in the **Sixth International conference on Cellular Automata for Research and Industry** conference, Amsterdam, Netherlands, 2004.
- 5- **Rezaei-Ghaleh N.**, Moshayedi P., Banaei-Moghadam A. A diffusion-limited aggregation model for the morphology and plasticity of neuritis. **Poster presentation** in the 4th **Forum of European Neuroscience Societies (FENS)**, Lisbon, Portugal, 2004.
- 6- **Rezaei-Ghaleh N.** Biological control systems with negative steady-state error: How can they be stable? **Poster presentation** in the 3rd **International Conference on Mathematical Biology**, Dundee, Scotland, 2003.
- 7- **Rezaei-Ghaleh N.**, Siadat F., Moshayedi P., Saadat N., Azizi F. An artificial neural network approach for inpatient diabetes management by insulin administration. **Poster presentation** in the 18th **International Diabetes Federation (IDF) congress**, Paris, France, 2003.

National Congresses and Conferences:

- 1- **Rezaei-Ghaleh N.**, Moshayedi P. The noise Problem in chemotaxis. **Oral presentation** in the 11th **Iranian Conference on Biomedical Engineering**, Tehran, Iran, 2004.
- 2- **Rezaei-Ghaleh N.**, Zahedi-Asl S. Improvement of transient-phase behavior of endocrine control systems: Modification of a mathematical model. **Poster presentation** in the 16th **Iranian Congress of Physiology and Pharmacology**, Tehran, Iran, 2003.

- 3- **Rezaei-Ghaleh N.**, Zahedi-Asl S. Endocrine systems in the light of chaos theory. **Poster presentation** in the 16th **Iranian Congress of Physiology and Pharmacology**, Tehran, Iran, 2003.
- 4- Moshayedi P., **Rezaei-Ghaleh N.**, Gharibzadeh S. A simple mathematical model for receptive field-based edge detection. **Poster presentation** in the 2nd **Iranian neuroscience congress**, Tehran, Iran, 2003.