

PERSONAL INFORMATION

Monica Neagu



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Sex female | Date of birth 03/01/1967 | Nationality romanian

WORK EXPERIENCE

October 2007 - present

Associate Professor

Victor Babeş University of Medicine and Pharmacy Timișoara, Piața Eftimie Murgu Nr. 2, 300041 Timișoara, Romania, Telefon/Fax: (40-256) 204117

Lectures in Biophysics for General Medicine students, lectures in Physics for Pharmacy students

[Biophysics Discipline](#)

February 2002 - October 2007

Lecturer (Șef de Lucrări)

Victor Babeş University of Medicine and Pharmacy Timișoara, Piața Eftimie Murgu Nr. 2, 300041 Timișoara, Romania, Telefon/Fax: (40-256) 204117

Lectures in Biophysics for General Medicine students

[Biophysics Discipline](#)

October 1995 - February 2002

Assistant Professor (Asistent Universitar)

Victor Babeş University of Medicine and Pharmacy Timișoara, Piața Eftimie Murgu Nr. 2, 300041 Timișoara, Romania, Telefon/Fax: (40-256) 204117

Practical works in Biophysics for General Medicine students

[Biophysics Discipline](#)

October 1992 - October 1995

Teaching Assistant (Preparator Universitar)

Victor Babeş University of Medicine and Pharmacy Timișoara, Piața Eftimie Murgu Nr. 2, 300041 Timișoara, Romania, Telefon/Fax: (40-256) 204117

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EDUCATION AND TRAINING

April 1995 - February 2002

PhD

ISCED 6

West University of Timișoara, România

Domain: Physical Chemistry

October 1985 - July 1991

Master's Degree

ISCED 5A

West University of Timișoara, România

Faculty of Physics

PERSONAL SKILLS

Mother tongue(s)

Romanian and Hungarian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C2	C2	C2
French	B1	B1	A2	A2	B1

Communication skills Research activities conducted in Romania and abroad developed my communication and teamwork skills.

Organisational / managerial skills My organisational skills were accumulated during the implementation of 6 scientific research projects (5 national and 1 international). In one of them (CEEX 62/2005), I was the Scientific Coordinator of the project partner institution, the Victor Babeş University of Medicine and Pharmacy Timișoara. Also, I served in the organising committee of 3 National Conferences of Biophysics (2003, 2011, 2015).

Digital skills Proficient user of Microsoft Office (Word, Excel, Project, PowerPoint), Adobe Acrobat, Adobe Photoshop, elements of MATLAB programming

Other skills I am passionate about photography and ecological gardening.

Driving licence Category B

ADDITIONAL INFORMATION

Publications My list of publications comprises 8 books and 31 scientific research papers; 10 of my papers were published in international journals indexed by the Institute for Scientific Information (ISI). According to ISI Web of Knowledge, my works acquired 93 independent citations (citations counted by excluding self-citations).

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Representative papers

1. Miclos-Balica M, Muntean P, Schick F, Haragus HG, Glisici B, Pupazan V, Neagu A, Neagu M. 2021. Reliability of body composition assessment using A-mode ultrasound in a heterogeneous sample. *Eur J Clin Nutr.* 75(3):438-445
2. Muntean P, Miclos-Balica M, Popa A, Neagu A, Neagu M. 2021. Reliability of Repeated Trials Protocols for Body Composition Assessment by Air Displacement Plethysmography. *Int J Environ Res Public Health* 18(20): 10693.
3. Bojin F, Robu A, Bejenariu MI, Ordodi V, Olteanu E, Cean A, Popescu R, Neagu M, Gavriliuc O, Neagu A, Arjoca S, Paunescu V. 2021. 3D bioprinting of model tissues that mimic the tumor microenvironment. *Micromachines (Basel)* 12(5):535.
4. Tuce R-A, Arjoca S, Neagu M, Neagu A. 2019. The use of 3D-printed surgical guides and models for sinus lift surgery planning and education, *Journal of 3D Printing in Medicine* 3(3):145-155.
5. Neagu M. 2015. Analytic formulation of the stochastic energization-relaxation channel model of proton pumping by bacterial rhodopsins, *Romanian Journal of Biophysics* 25(4): 233-245.
6. Robu A, Aldea R, Munteanu O, Neagu M, Stoicu-Tivadar L, Neagu A. 2012. Computer simulations of in vitro morphogenesis, *Biosystems* 109: 430-443.
7. Neagu A, Mironov V, Kosztin I, Barz B, Neagu M, Moreno-Rodriguez RA, Markwald RR, Forgacs G. 2010. Computational modeling of epithelial-mesenchymal transformations, *Biosystems* 100: 23-30.
8. Doaga IO, Savopol T, Neagu M, Neagu A, Kovács E. 2008. The Kinetics of Cell Adhesion to Solid Scaffolds: An Experimental and Theoretical Approach, *J. Biol. Phys.* 34:495-509.
9. Neagu A, Kosztin I, Jakab K, Barz B, Neagu M, Jamison R, Forgacs G. 2006. Computational modeling of tissue self-assembly, *Modern Phys. Lett. B* 20:1217-1231.
10. Mihalas GI, Holban S, Ciresan D, Cernazanu C, Simon Z, Zaharie D, Kigyosi A, Neagu A, Muntean C, Focsa M, Lungeanu D, Neagu M. 2005. Bio-View - a user-friendly interface for computer simulations in systems biology, In: *Connecting Medical Informatics and Bio-Informatics*, Engelbrecht R. et al. (editors), ENMI 2005.
11. Neagu M, Neagu A. 2001. On the Na, K pump in fluctuating membrane potential. *European Biophysics Journal* 30:221-226.
12. Neagu A, Neagu M, Dér A. 2001. Fluctuations and the Hofmeister effect. *Biophys. J.* 81:1285-1294.
13. Neagu A, Neagu M, Dér A. 2001. Active transport modulated by barrier fluctuations. In: *Bioelectronic Applications of Photochromic Pigments*, NATO Science Series, vol. 335, Dér A, Keszthelyi L, (editors), (IOS Press, Amsterdam, 2001), pp. 225-243.
14. Marincu BN, Neagu M, Munteanu O, Neagu A. 2010. Kinetic study of platelet aggregation, *Romanian Journal of Biophysics* 20 (2): 101-114.
15. Neagu A, Neagu M, Forgacs G. 2005. Simulating artificial tissues - A heuristic tool in tissue engineering? *Romanian Journal of Biophysics* 15: 9-14.
16. Neagu M, Suci E, Ordodi V, Păunescu V. 2005. Human Mesenchymal Stem Cells as Basic Tools

for Tissue Engineering: Isolation and Culture, Romanian Journal of Biophysics 15: 29-34.

17. Motoc M, Samoila C, Sfirjan F, Lungeanu D, Ardelean L, Neagu M, Anghel M. 2003. Corelatii intre diversi constituinti salivari - markeri ai sanatatii bucale, Revista Romana de Anatomie functionala si clinica, macro- si microscopica si de Antropologie vol. II (2): 211-215.

18. Neagu M, Neagu A, Motoc M, Anghel A. 2003. The kinetics of active transport in fluctuating membrane potentials. Timisoara Medical Journal 53:17-20.

19. Anghel A, Motoc M, Marian C, Motoc A, Neagu M, Mohamed Gaili AA, Pitulescu M. 2003. Genetic differences in western romanian population between autochthonous caucasian population and an african origin subpopulation group. Timisoara Medical Journal 53:30-33.

20. Neagu A, Neagu M, Motoc M. 2003. Thermal fluctuations of liposomes with solid content. Timisoara Medical Journal 53, Supplement 2:77-80.

21. Neagu M, Neagu A. 2003. A kinetic theory of active transport based on the stochastic energization-relaxation channel model. Timisoara Medical Journal 53, Supplement 2:81-86

22. Neagu A, Neagu M. 2002. Efecte ale unor saruri asupra fotociclului bacteriorodopsinei. Timisoara Medical Journal 52:127-130.

23. Neagu A, Neagu M, Nagy II. 2002. Efectul Hofmeister. Timisoara Medical Journal 52:103-107.

24. Neagu A, Nagy II, Neagu M. 2000. Free energy approach to pinocytosis in two dimensions. Romanian Journal of Biophysics 10:89-97.

25. Neagu M, Neagu A. 2000. The impact of noise on the Na, K ATPase. Romanian Journal of Biophysics 10:49-58.

Didactic works

1. Neagu M, Munteanu O, Nagy I I, Neagu A. Lucrări Practice de Biofizică, Editura Eurobit, Timișoara, 2018; ISBN: 978-973-620-978-9.

2. Horhat R, Denov E, Munteanu O, Neagu M. Travaux Pratiques de Physique et Biophysique, Editura Eurobit, Timișoara, 2012; ISBN: 978-973-620-997-0.

3. Marincu BN, Neagu M, Neagu A. Laboratory Works in Biophysics Second Edition, Editura Eurobit, Timișoara, 2012; ISBN: 978-973-620-988-8.

4. Neagu M. Fizică pentru Facultatea de Farmacie, Editura Eurobit, Timișoara, 2008; ISBN 978-973-620-461-6.

5. Neagu A, Neagu M. Curs de Biofizică pentru Facultatea de Medicină Dentară, Editura Eurobit, Timișoara, 2007; ISBN: 978-973-620-264-3.

6. Neagu A, Neagu M, Mihalaș G I. Textbook of Biophysics Second Edition, Editura Eurobit, Timișoara, 2005; ISBN: 973-620-194-5.

7. Nagy I I, Mihalaș G I, Neagu M, Bălăceanu L, Neagu A. Curs de Biofizică, Editura Eurobit, Timișoara, 2005; ISBN: 973-8181-66-6.

8. Nagy I I, Mihalaș G I, Neagu M, Neagu A. Testele de fizică pentru concursul de admitere la Facultățile de Medicină Generală și Stomatologie, Editura Eurobit, Timișoara, 1999; ISBN: 973-96532-4-3.