

1. Personal information

Name and surname: Tudor LUCHIAN

Date and place of birth: February 26, 1968, Fălticeni, Romania

Present academic position: Professor (Department of Physics, Laboratory of Biophysics and Medical Physics, “Alexandru Ioan Cuza” University, Iași, Romania), Ph. D. adviser in the field of ‘Physics’

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2. Education

1994-1997 Ph.D. studies at the “Karl-Franzens” University of Graz (Austria)

1987-1992 Faculty of Physics, “Alexandru Ioan Cuza” University Iași, Romania
(*Bachelor of science* degree in Biophysics)

1982-1986 “Nicu-Gane” High School, Fălticeni, Romania

3. Selected, peer-reviewed research work

1. Loredana Mereuță, Irina Șchiopu, Alina Asandei, Yoonkyung Park, Kyung-Soo Hahm, **Tudor Luchian**, ‘Protein nanopore-based, single-molecule exploration of copper binding to an antimicrobial-derived, histidine-containing chimera peptide’, **Langmuir**, 2012, DOI: 10.1021/la303782d
2. Irina Șchiopu, Loredana Mereuță, Aurelia Apetrei, Yoonkyung Park, Kyung-Soo Hahm, **Tudor Luchian**, ‘The role of thryptophan spatial arrangement for antimicrobial-derived, membrane-active peptides adsorption and activity’, **Molecular BioSystems**, 2012, DOI:10.1039/c2mb25221j
3. Loredana Mereuță, Alina Asandei, **Tudor Luchian**, ‘Meet me on the other side: trans-bilayer modulation of a model voltage-gated ion channel activity by membrane electrostatics asymmetry’, **PLoS One**, 2011, 6(9): e25276. doi:10.1371/journal.pone.0025276
4. Alina Asandei, Aurelia Apetrei, Yoonkyung Park, Kyung-Soo Hahm, **Tudor Luchian**, ‘Investigation of Single-Molecule Kinetics Mediated by Weak Hydrogen-Bonds Within a Biological Nanopore’, **Langmuir**, 2011, 27 (1), 19-24
5. Aurelia Apetrei, Alina Asandei, Yoonkyung Park, Kyung-Soo Hahm, Mathias Winterhalter, **Tudor Luchian**, ‘Unimolecular study of the interaction between the outer membrane protein OmpF from E. coli and an analogue of the HP(2–20) antimicrobial peptide’, **Journal of Bioenergetics and Biomembranes**, 2010, 42(2), pp. 173-180
6. **Tudor Luchian**, Seong Ho Shin, Hagan Bayley, ‘Single-molecule chemistry with spatially separated reactants’, **Angewandte Chemie International Edition**, 42, 3766-3771, 2003
7. **Tudor Luchian**, Seong Ho Shin, Hagan Bayley, ‘Kinetics of a three-step reaction observed at the single-molecule level’ **Angewandte Chemie International Edition** 42, 1925-1929, 2003 (reviewed in **C & En News**, May 5, 2003)
8. Seong-Ho Shin, **Tudor Luchian**, Steve Cheley, Orit Braha, Hagan Bayley, ‘Kinetics of a reversible covalent-bond-forming reaction observed at the single-molecule level’ **Angewandte Chemie International Edition** 41 (19): 3707-3709, 2002 (reviewed in **Nature** – science update, 7 October 2003)
9. Richard J. Lewis, Katherine J. Nielsen, David J. Craik, Marion L. Loghnan, Denise A. Adams, Iain A. Sharpe, **Tudor Luchian**, David J. Adams, Trudy Bond, Linda Thomas, Alun Jones, Jodi L. Matheson, Roger Drinkwater, Peter R. Andrews, Paul F. Alewood, ‘Novel ω -conotoxins from *Conus Catus*

discriminate among neuronal calcium channel subtypes', **Journal of Biological Chemistry**, 275:45, 35335-35344, 2000

10. **Tudor Luchian**, Nathan Dascal, Carmen Dessauer, Dieter Platzer, Norman Davidson, Henry Lester, Wolfgang Schreibmayer, 'A C-terminal peptide of the GIRK1 subunit directly blocks the G protein-activated K⁺ channel (GIRK1) expressed in Xenopus oocytes', **Journal of Physiology (London)**, 505.1, 13-22, 1997

4. Research interests

Molecular investigation of bioactive peptides interaction with biomimetic lipid systems; Single-molecule chemistry and stochastic sensing with protein pores; Peptides interaction with protein pores

Prof. Tudor Luchian