

Tudor Vasiliu

Nationality: Romanian

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Date of birth: 21/04/1988

Gender: Male

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 **Address :** Luminii nr 16, 707410 Valea Lupului (Romania)

WORK EXPERIENCE

Research Assistant

TERADOT PN-III-P1-1.2-PCCDI-2017-0083 (nr. 37PCCDI/2018) [01/01/2019 – Current]

Address: Iasi (Romania)

Research Assistant

SupraChem Lab – Laboratory of Supramolecular Chemistry for adaptive Delivery Systems – ERA Chair in
[15/04/2016 – 31/12/2018]

Address: Iasi (Romania)

QM and MD simulations of: A) poliplex formation between DNA and non-viral vectors and B) small molecules auto-assembly in lipid bilayers for trans-membrane water and ion transport

Research Assistant

“Biologically inspired systems for engineered structural and functional entities” project (PN-II-ID
[15/06/2015 – 15/06/2016]

Address: Iasi (Romania)

EDUCATION AND TRAINING

Chemistry doctorate

Romanian Academy doctoral school [01/10/2016 – Current]

Address: Iasi (Romania)

Masters

University "Gh. Asachi", Faculty of Chemical Engineering and Environmental Protection [01/10/2014 – 01/07/2016]

Address: IASI (Romania)

Bachelor Degree

University of Medicine and Pharmacy "Gr. T. Popa", Faculty of Bioengineering [01/10/2010 – 01/07/2014]

Address: Iasi (Romania)

Highschool

Colegiul "Costache Negruzzi", Mate-Info [01/09/2003 – 01/09/2007]

Address: Iasi (Romania)

LANGUAGE SKILLS

Mother tongue(s):

Romanian

English

LISTENING: C2 READING: C2 WRITING: C1

SPOKEN PRODUCTION: C1

SPOKEN INTERACTION: C1

PUBLICATIONS

Publications

- Tudor Vasiliu BFC, Andrei Neamtu, Lilia Clima, Isac Dragos Lucian, Stelian S. Maier, Mariana Pinteala, Francesca Mocci, Aatto Laaksonen. Combined in silico and experimental study of PEI-PEG-dsDNA polyplex formation. The importance of PEG size to vector-nucleic acid binding and biocompatibility. Biomaterials. Trimis spre publicare IF= 10.317
- Epure, E. L., Vasiliu, T., Hurduc, N., & Neamtu, A. (2020). Molecular modeling study concerning the self-assembly capacity of some photosensitive amphiphilic polysiloxanes. Journal of Molecular Liquids, 300, 112298. acceptată spre publicare December 2019. IF=5.065
- Water permeation across artificial I-quartet membrane channels: from structure to disorder By: Murail, Samuel; Vasiliu, Tudor; Neamtu, Andrei; et al. FARADAY DISCUSSIONS Volume: 209 Pages: 125-148 Published: SEP 1 2018
- Biopolymers/poly(epsilon-caprolactone)/polyethylenimine functionalized nano-hydroxyapatite hybrid cryogel: Synthesis, characterization and application in gene delivery By: Simionescu, Bogdan C.; Drobota, Mioara; Timpu, Daniel; et al. MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS Volume: 81 Pages: 167-176 Published: DEC 1 2017
- Iron oxide nanoparticles as dielectric and piezoelectric enhancers for silicone elastomers By: Iacob, Mihail; Tugui, Codrin; Tiron, Vasile; et al. SMART MATERIALS AND STRUCTURES Volume: 26 Issue: 10 Article Number: 105046 Published: OCT 2017
- Optimization of Polyplex Formation between DNA Oligonucleotide and Poly(L-Lysine): Experimental Study and Modeling Approach By: Vasiliu, Tudor; Cojocaru, Corneliu; Rotaru, Alexandru; et al. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 18 Issue: 6 Article Number: 1291 Published: JUN 2017
- A Comparative Study of Functionalized Nano-Hydroxyapatite By: David, Geta; Sacarescu, Liviu; Timpu, Daniel; et al. Conference: E-Health And Bioengineering Conference (EHB) Location: Iasi, ROMANIA Date: NOV 19-21, 2015
- Polyplex formation between cyclodextrin-based non-viral vector and dsDNA: molecular dynamic study with experimental validation. T. Vasiliu, A. Dascalu, M. Pinteala, C. Cojocaru, A. Rotaru; submitted to Rev. Roum. Chim
- Cation transport activity of the alkyl-ureido-benzo-15-crown-5-ethers through double layer lipid membranes; R. Zonda, A. Coroaba, S. Ibanescu, T. Vasiliu, A. Neamtu, M. Sillion, T. Rusu, M. Pinteala; submitted to Rev. Roum. Chim., (2017)
- PEGylated Squalene: a biocompatible polymer as precursor for drug delivery; B.F. Craciun, T. Vasiliu, N. Marangoci, M. Pinteala, L. Clima; submitted to Rev. Roum. Chim.

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

-Good communication skills developed by participating at conferences and symposiums.

PRESENTATIONS

Presentations

- Poster presentation “ A Comparative Study of Functionalized Nano-Hydroxyapatite” Geta David, Liviu Sacarescu, Daniel Timpu, **Tudor Vasiliu**, IEEE E-Health and Bioengineering conference, Iasi, Romania 2015.
- Poster presentation “Complex hybrid 3D systems – intermediate compounds” **Tudor Vasiliu**, Lilia Clima, Daniel Tampu, Geta David, Progress in Organic and Polymer Chemistry XXVth Edition, Iasi Romania, 2015
- Influenta lungimii radicalului alchil din alchil-ureidobenzo-eteri-15-coroana-5 asupra capacitatii de transport anionic prin membrane lipidice dublustrat; R. Zonda, A. Coroaba, S. Ibanescu, T. Vasiliu, A. Neamtu, M. Silion, M. Pinteala; A XXVI-a Sesiune de Comunicari Stiintifice a Institutului de Chimie Macromoleculara „Petru Poni” – Progrese în Stiința Compusilor Organici si Macromoleculari, Iasi, Romania, 05-06.10.2017.
- Modelling and simulation of ion and water channels in phospholipid membranes; Andrei Neamtu, Tudor Vasiliu; Nineth Cristofor I. Simionescu Symposium Frontiers in Macromolecular and Supramolecular Science, Iasi, Romania, 13-14.06.2017.
- Experiment design and molecular dynamics simulations in polyplex formation; Tudor Vasiliu, Andrei Neamtu, Mariana Pinteala; Nineth Cristofor I. Simionescu Symposium Frontiers in Macromolecular and Supramolecular Science, Iasi, Romania, 13-14.06.2017.
- Functionalized B-cyclodextrin as trans-membrane channel; T. Vasiliu, A. neamtu, M. Pinteala MolMod 2018 - Molecular Modeling in Chemistry and Biochemistry 28 - 30 October 2018, Cluj-Napoca, Romania