

CURRICULUM VITAE

PERSONAL INFORMATION	
Last Name	Stoica
First Name	Anca-Daniela
Date of birth	14/01/1992
Nationality(ies)	romanian
Address	
City	
Country	Romania
Email	anca.stoica@ubbcluj.ro
Phone	
Website (Orcid, etc..)	https://orcid.org/0000-0002-7510-5793

LANGUAGES & OTHER SKILLS		
Languages	Native language(s):	Romanian
Add other lines or skills if applicable (computer skills, management, etc.)	Other Languages:	English, fluent
	Statistic programs Good command of Microsoft Office™ tools, Mendeley;	Statistica 12, GraphPad

EDUCATION	
Start & End date	
01/10/2015- 10/07/2020	PhD in Biology , Babeş-Bolyai University, Romania Dissertation title: Evaluating the antioxidant potential of several extracts from <i>Plantago</i> , <i>Galium</i> and <i>Hypericum</i> , supervised by Prof. Marcel Pârvu
01/10/2013- 30/06/2015	MSc in Chemistry , Babeş-Bolyai University, Romania Dissertation title: Determination of several biochemical and acid-base parameters in an <i>in vivo</i> experiment of haemoglobin-based blood substitutes, supervised by Prof Radu Silaghi-Dumitrescu
01/10/2010- 02/07/2013	BSc in Biology , Babeş-Bolyai University, Romania Dissertation title: The action of fenugreek seeds (<i>Trigonella foenum graecum</i>) on the alcohol intoxicated liver in rats, supervised by Assoc prof. Corina Roşioru

PROFESSIONAL EXPERIENCE	
Start & End date	
21/02/2021- present	Lecturer, PhD, Babeş-Bolyai University, Romania Department of Molecular Biology and Biotechnology – teaching Cell signaling (Master programme), Hematology (Bachelor studies), Animal and Human Physiology (Bachelor studies), research on Inflammation and oxidative side reactions of NSIDs as part of my post-doc project (PN-III-P1-1.1-PD-2021-0286).
07/05/2014- present	Scientific researcher - National Institute for Research and Development of Isotopic and Molecular Technologies, Romania Department of Molecular and Biomolecular Physics – research on hemoglobin-based oxygen substitutes, graphene and non-graphene biocompatibilities on human cell culture as part of PN-III-P1.2-PCCDI-2017-0387” Emerging technologies for the industrial capitalization of 2D structures graphene and nongraphenic”.
01/09/2015 - 01/10/2016	Research assistant – Babeş-Bolyai University, Romania <i>In vitro</i> evaluation of a series of phenolic compounds from <i>Plantago</i> and <i>Hypericum</i> species, using chromatographic and spectroscopic techniques as part of

01/10/2013 - 01/04/2014	the project PN-II-RU-TE-2014-4-2555 “Non-simbiotic Hemoglobins from plants and their reactions to stress” supervised by Lect. Augustin Moț Research assistant, Biological Research Institute, Romania Department of Experimental Biology – Evaluation of hemoglobin and hemerythrin based-blood substitutes using <i>in vivo</i> models.
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TEACHING EXPERIENCE

Organisation	Period	Course, level & subject
Babeş-Bolyai University	21/02/2021 - present	Hematology, Bch Animal and Human Physiology, Bch– practical activities Research ethics and communication, MSc Histopathology, Msc Cell signalling, Msc
Transylvania College, International School in Cluj	01/09/2016-16/10/2020	Chemistry, Middle School Chemistry, Cambridge IGCSE Co-ordinated Sciences

CAREER BREAKS

Start & End date	Description
16/10/2020-21/02/2021	Maternity leave

Awards, grants & fellowships

- **Best poster award – Physiology in Focus** – Tallin, Estonia, September, 2023;
- **Young Scientist Forum Award – FEBS-** Tours, France, July, 2023;
- **Degree of Excellence in Interdisciplinary Research** from College Student of Academic Performance, Babeş-Bolyai University, July 2015;
- **World Federation of Scientists (Switzerland) 1 year Scholarship**, March 2014- March 2015;
- **Second prize for „Practicals in Biology”** within POSDRU project „*Convergence of university education with active life*”, Babeş-Bolyai University, June, 2011, Cluj-Napoca

Academic co-operations

- Research projects together with colleagues from Department of Molecular and Biomolecular Physics, National Institute for Research and Development of Isotopic and Molecular Technologies, Romania;
- Peer-review activities alongside with colleagues from Department of Clinical and Paraclinical Sciences (Pathophysiology), Faculty of Veterinary Medicine, University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca.

Supervising /mentoring activities

- I supervised already 25 students for their dissertations, both bachelor and master’s degrees.

Management of research

- <https://orcid.org/0000-0002-7510-5793>
- <https://scholar.google.com/citations?user=GQeIZhIAAAAJ&hl=ro&authuser=1>
- <https://publons.com/researcher/1808962/anca-daniela-farcas/>
- https://www.researchgate.net/profile/Anca_Daniela_Farcas

Administrative duties

- I am in charge with the organisation of an admission contest (Emil Racoviță Admission contest) for highschool students who want to apply for a bachelor position at the Faculty of Biology and Geology, Babeş-Bolyai University;

FULL LIST OF PUBLICATIONS

Publications

- 1) **Stoica A.D.**, Sevastre B., Suci M., Parvu A.E., Parvu M., Toma A.V., Roman, I., Dobre C., Chemopreventive effects of *Plantago sempervirens* Crantz extract on ovarian structure and folliculogenesis, *Applied Sciences*, 2023, 13(5), 3134 (<https://www.mdpi.com/2076-3417/13/5/3134>).
- 2) Dascălu, R. I., Bolocan, A., Păduaru, D. N., Constantinescu, A., Mitache, M. M., **Stoica, A. D.**, Andronic, O. (2023). Multidrug resistance in *Helicobacter pylori* infection, *Frontiers in Microbiology*, 2023, 14, 1128497 (<https://www.frontiersin.org/articles/10.3389/fmicb.2023.1128497/full>).
- 3) **Stoica A.D.**, Toma V.A., Roman I., Sevastre B., Scurtu F., Silaghi-Dumitrescu R., Glutaraldehyde-polymerized hemerythrin: evaluation of performance as an oxygen carrier in hemorrhage models, *Bioinorganic Chemistry and Application*, 2022, 1-6 (<https://www.hindawi.com/journals/bca/2022/2209101/>).
- 4) **Stoica A.D.**, Dobre C., Natural strategies of preventing anthracycline-induced cardiotoxicity – a review, *Studia UBB Biologia*, 67(2), 5-14 (<https://studiabiologia.reviste.ubbcluj.ro/index.php/studiabio/issue/view/14/94>).
- 5) A.B. Țigu, C.S. Moldovan, V.A. Toma, **A.D. Farcaș**, A.C. Moț, A. Jurj, E. Fischer-Fodor, C. Mircea, M. Pârvu, Phytochemical Analysis and In Vitro Effects of *Allium fistulosum* L. and *Allium sativum* L. Extracts on Human Normal and Tumor Cell Lines: A Comparative Study, *Molecules*, 2021, 26(3), 574 (<https://www.mdpi.com/1420-3049/26/3/574>).
- 6) **A.D. Farcaș**, V.A. Toma, I. Roman, B. Sevastre, F. Scurtu, R. Silaghi-Dumitrescu, Glutaraldehyde-polymerized hemoglobin: In search of improved performance as oxygen carrier in hemorrhage models, vol. 2020, 2020, 1-11 (<https://www.hindawi.com/journals/bca/2020/1096573/>).
- 7) R. Silaghi-Dumitrescu, C. Gruian, C. Pușcaș, A. Simon, E. Fischer-Fodor, V.A. Toma, **A. Farcaș**, I. Roman, V.F. Scurtu, A.A.A. Attia, G. Damian, Spin labelled hemoglobin-based oxygen carriers (HBOC): preparation and evaluation of in vivo/in vitro stability, *Studia UBB Chemia*, 65(2), 121-132 (http://chem.ubbcluj.ro/~studiachemia/chemia2020_2.html).
- 8) **A. Farcaș**, A. Mot, C. Zegrean-Tuza, L. Vlase, A.M. Gheldiu, M. Pârvu, EPR fingerprinting and antioxidant response of four selected *Plantago* species, 2020, *Studia UBB Chemia*, 65(2), 209-220 (http://chem.ubbcluj.ro/~studiachemia/chemia2020_2.html).
- 9) **A. Farcaș**, A. Mot, C. Zegrean-Tuza, M. Ticolea, B. Sevastre, M. Kulak, R. Silaghi-Dumitrescu, A. Parvu, Remarkable rutin-rich *Hypericum capitatum* extract exhibits anti-inflammatory effects on turpentine oil-induced inflammation in rats, *BMC Complementary and Alternative Medicine*, 19, 289, 2019 (<https://link.springer.com/article/10.1186/s12906-019-2680-8>).
- 10) V. Toma, B.A. Tigu, **Farcaș, A.**, B. Sevastre, M. Taulescu, A.M.R. Gherman, I. Roman, E. Fischer-Fodor, M. Parvu, New Aspects Towards a Molecular Understanding of The Allicin Immunostimulatory Mechanism via COX2, MARCO and SCARB1 Receptors, 2019, *International Journal of Molecular Sciences*, 20(15), 3627 (<https://www.mdpi.com/1422-0067/20/15/3627>).
- 11) **Farcaș, A.D.**, Moț, A.C., Pârvu, A.E., Toma, V.A., Popa, M.A., Mihai, C.A., Sevastre, B., Roman, I., Vlase, L., Pârvu, M., In Vivo Pharmacological and Anti-inflammatory Evaluation of Xerophyte *Plantago sempervirens* Crantz, 2019, *Oxidative Medicine and Cellular Longevity*, 1-13 (<https://www.hindawi.com/journals/omcl/2019/5049643/abs/>).
- 12) **Farcaș, A.D.**, Toma, V.A., F. Crisan, Dume, B., Roman I., The down-regulation outcome of wild European apple (*Malus sylvestris* (L.) Mill.) extract on a series of biochemical markers during oxidative stress, *Annals of The*

13) Toma, V.A., Dume, B., **Farcas, A.D.**, Roman, I., The antioxidants are not enough. *Malus sylvestris* (L.) Mill. Extract enhances the carbon tetrachloride liver toxicity in albino rats, *Annals of The Romanian Society for Cell Biology*, 2018, 22(2), 26-33 (http://www.annalsofscb.ro/numar%20in%20curs/22%202/vlad4_1.pdf).

14) **Farcas, A.D.**, Mot, A.C., Zagrean-Tuza, C., Toma, V., Cimpoiu, C., Hosu, A., Parvu, M., Roman, I., Silaghi-Dumitrescu, R., 2018. Chemo-mapping and biochemical-modulatory and antioxidant/prooxidant effect of galium verum extract during acute restraint and dark stress in female rats. *PLoS One* 13, 1–18. doi:10.1371/journal.pone.0200022 (<https://www.ncbi.nlm.nih.gov/pubmed/29969484>)

15) Toma, V.A*, **Farcas, A.D.***, Roman, I., Sevastre, B., Hathazi, D., Scurtu, F., Damian, G., Silaghi-Dumitrescu, R., In vivo evaluation of hemerythrin-based oxygen carriers: similarities with hemoglobin-based counterparts. *Int. J. Biol. Macromol.*, S0141-8130 (17), 31756-7, 2017 (<http://www.science-direct.com/science/article/pii/S0141813017317567>).

16) Toma, V.*, **Farcas, A.***, Roman, I., Sevastre, B., Hathazi, D., Scurtu, F., Damian, G., Silaghi-Dumitrescu, R. Comparative in vivo effects of hemoglobin-based oxygen carriers (HBOC) with varying prooxidant and physiological reactivity. *PloS ONE*, 11(4), 2016, 1-16 (<https://www.ncbi.nlm.nih.gov/pubmed/27097326>).

17) Toma, VA, **Farcas, A.**, Parvu, M., Silaghi-Dumitrescu, R., Roman, I. CA3 hippocampal field: Cellular changes and its relation with blood nitro-oxidative stress reveal a balancing function of CA3 area in rats exposed to repeated restraint stress. *Brain Res Bull.*, 130, 2017, 10-17 (<https://www.ncbi.nlm.nih.gov/pubmed/28013041>).

18) Vlad Al. Toma, **Anca D. Farcas**, Ioana Roman, Florina Scurtu-Deac, Radu Silaghi-Dumitrescu. In vivo tests of cell-free hemoglobin-based blood substitutes candidates: histopathological characterization. *Rev Romana Med Lab-Supliment* 24(1), 2016, 88-89 (http://www.rml.ro/articole/2016/2016_1_supliment.pdf).

19) Roman, I., Toma, V., **Farcas, A.**, Protective effects of *Gallium verum* L., extract on the hypothalamic – pituitary – adrenal axis under anakinetic stress conditions, in rats. *Histological aspects. Studia Universitatis "Vasile Goldiş"*, 25(3), 2015, 207-214 (<http://www.studiauniversitatis.ro/pdf/25-2015/25-3-2015/10-25-3-%20I.R.-%20207-%20214.pdf>).

20) Toma, V.A., Filip, A., **Farcas, A.**, Mirescu, C.Ş., Roşioru, C.L., Effect of hyoscine N-butylbromide on the skeletal muscle contraction in Wistar rat - a few physiological aspects, *Annals of Romanian Society of Cell Biology*, 18(2), 2013, 123-128 (<http://www.annalsofscb.ro/numar%20in%20curs/18%202/18.pdf>).

Conference presentations

17 presentations at national and international conferences, from 2014-present. Most relevant presentations were:

- The gastrointestinal tract receptivity to a conjugated ibuprofen – a computational study, **Physiology in Focus (FEPS)**, 14-16 September, Tallinn, Estonia;
- New insights regarding the non-steroidal anti-inflammatory drugs – conjugation for lessening their oxidative side effects – **YSF and FEBS Congress**, 6-8 July/8-12 July, Tours, France;
- “*Toxicological evaluation of nanoparticles on cell culture*”, **The 17th National Conference of Biophysics with International Participation (CNB 2022)**, 23-25 September, 2022, Târgu Mureş, Romania;
- “Experimental models of acute and chronic inflammation”, **BIOTA**, 19-20 November, Cluj-Napoca, Romania;
- “*Morphological and biochemical evaluation of A549 epithelial cells from human lung exposed to graphene-based nanoparticles*”, **The 16th National Conference of Biophysics with International Participation (CNB 2022)**, 14-16 June, 2020, online;

- *“Toxicological evaluation of graphene-based nanoparticles on epithelial cells”*, **The 12th International Conference Processes in Isotopes and Molecules**, 25-27 September, 2019, Cluj-Napoca, Romania;
- *“Luteolin mimics the in vivo effects of estrogen during induced-ovarian insufficiency”*, **The 17th International Symposium Prospects for the 3rd Millennium Agriculture**, 27-29.09.2018, Cluj-Napoca, Romania;
- *“Structure – biological activity profile of Plantago flavonoids with estrogenic potential”*, **11th International Conference Processes in Isotopes and molecules**, 27-29.09.2017, Cluj-Napoca, Romania;
- *“Structure - biological activity relationship of estrogenic flavonoids from Plantago sempervirens”*, **The 19th International Union of Pure and Applied Biophysics (IUPAB) and 11th European Biophysical Societies’ Association (EBSA) Congress**, Edinburgh, Scotland in July 2017;
- *“Comparative antioxidant and prooxidant activities of five Plantago species”*, **The 4th Edition of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences ”IC-ANMBES 2016”**, 29.06-1.07.2016, Braşov, Romania;

Anca Stoica

Decembrie, 2023