

## PERSONAL INFORMATION

## Anca-Daniela FARCAS



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**Sex:** F | **Date of birth:** 14/01/1992 | **Nationality:** Romanian

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## PROFESSIONAL EXPERIENCE

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04.2019- prezent

### Scientific Researcher,

**National Institute for Reseach and Development of Isotopic and Molecular Technologies, Cluj-Napoca, Romania**

09.2015- 10.2016

### Research assistant - Biochemistry

**Babeş-Bolyai University, Cluj-Napoca**

- Main activities: *in vitro* evaluation of a series of phenolic compounds from *Plantago* and *Hypericum* species, using chromatographic and spectroscopic techniques;

05.2014 – 04.2019

### Research assistant- Biology

**National Institute for Reseach and Development of Isotopic and Molecular Technologies, Cluj-Napoca, Romania**

Experimental Biology and Biochemistry Department

- Main activities: - experiments on laboratory animals
  - biological sampling
  - data processing
  - data interpretation

10. 2013 – prezent

### Research assistant- Biology

**Biological Reseach Institute, Cluj-Napoca, Romania**

Experimental Biology and Biochemistry Department

- Main activities: - experiments on laboratory animals
  - biological sampling
  - data processing
  - data interpretation

## EDUCATION

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2015 - present

### PhD student

Doctoral School of Integrative Biology, Babeş-Bolyai University;

2013-2015

### Teacher diploma - Pedagogical module for Secondary schools

Babeş-Bolyai University, Faculty of Psychology and Science of Education, Department of Training the Teaching Personnel;

2013 -2015

### Master`s degree – Forensic Chemistry

Babeş-Bolyai Univeristy, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania;

2010 - 2013

### Teacher diploma - Pedagogical module for Middle schools

Babeş-Bolyai University, Faculty of Psychology and Science of Education, Department of Training the Teaching Personnel;

2010 - 2013

### Bachelor in Biology- Biochemistry

Babeş-Bolyai University, Faculty of Biology and Geology, Cluj-Napoca, Romania

## PERSONAL SKILLS

### Mother language(s)

Romanian

### Other language(s)

#### English

#### French

| UNDERSTANDING   |         | SPEAKING           |                   | WRITING |
|---|---------|--------------------|-------------------|---------|
| Listening   | Reading | Spoken interaction | Spoken production |         |
| C1  | B2      | C1                 | C1                | C1      |
| Linguistic competence certificate released by Babes-Bolyai University |         |                    |                   |         |
| B2  | B2      | B2                 | B2                | B2      |
| Auto-evaluation   |         |                    |                   |         |

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

### Communication skills

- good communication skills gained through my experience as a student at scientific conference and as a teacher in school;

### Organisational / managerial skills

- good organisational skills gained through my experience as a young researcher, starting to work for my bachelor's diploma, followed by a series of research projects. Also, I was member in a scientific committee at the institute where I am currently working (NIRDIMT Cluj) and we had to write a proposal for the research strategy 2014-2017, which turned to be a successful one.

### Computer skills

- Bioinformatic programs (Rastop and CLC)
- Statistic programs (Statistica 12, GraphPad)
- good command of Microsoft Office™ tools, Mendeley;
- Adobe Photoshop

### Other skills

- Ability to work with sophisticated equipment
- Social abilities like punctuality and perseverance.
- Beginner writer (Scientific literature for kids).

### Driving licence

- B

## ADDITIONAL INFORMATION

### 1. Publications

- 1) **Farcas, 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/>).
- 2) **Farcas, 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 Romanian Society for Cell Biology, 2018, 22(2), 34-41 (<http://www.annalsofscb.ro/numar%20in%20curs/22%202/farcas5.pdf>).

- 3) 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](http://www.annalsofscb.ro/numar%20in%20curs/22%202/vlad4_1.pdf)).
- 4) **Farcas, A.D.**, Mot, A.C., Zagrean-Tuza, C., Toma, V., Cimpoi, 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> )
- 5) 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> ).
- 6)Toma, V.A, Farcașanu, A., Sevastre-Berghian, A., Barbu-Tudoran, L., Tripon, S., Sevastre B., **Farcas, A.D.**, Roman, I., Simon, S., Pârvu, M., Behavior, MRI features and ultrastructural bases of the autism-like disorder induced in rats by prenatally exposed to sodium valproate, *Brain Disord. Ther.*, 6(3 Suppl), 56, 2017. DOI: 10.4172/2168-975X-C1-018. (<https://www.omicsonline.org/proceedings/behavior-mri-features-and-ultrastructural-bases-of-the-autism-like-disorders-induced-in-rats-by-prenatally-exposed-to-sod-080010.html> ).
- 7) 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>).
- 8) 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>).
- 9) 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.rrml.ro/articole/2016/2016\\_1\\_supliment.pdf](http://www.rrml.ro/articole/2016/2016_1_supliment.pdf)).
- 10) 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 Goldiș"*, 25(3), 2015, 207-214 (<http://www.studiauniversitatis.ro/pdf/25-2015/25-3-2015/10-25-3-%20I.R.-%20207-%20214.pdf>).
- 11) Toma, V.A., Filip, A., **Farcas, A.**, Mirescu, C.Ș., Roșioru, 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>).
- 12) **Farcas A.** (2014) A short review of fenugreek (*Trigonella Foenum-Graecum*) therapeutical effects, *Studișicercețări, Biology* ,19, Bistrița, pp. 21-27.

## 2. Projects

- **PN-III-P1.2-PCCDI-2017-0387** "Emerging technologies for the industrial capitalization of 2D structures (graphene and nongraphenic)" (member).
- **Core project PN16-30 02 03** "Border reaserch for molecular technology development – New applications for isotopic and molecular processes for decontamination based on functionalized nanomaterials", 2017-2018, National Institute for Reseach and Development of Isotopic and Molecular Technologies Cluj-Napoca;
- **Young researcher teams** -PN-II-RU-TE-2014-4-2555 "Non-simbiotic Hemoglobins from plants and their reactions to stress", Babeș-Bolyai University;
- **Core Project PN09-440.213** ,, Biochemical and biophysical evaluation of some proteins involved in oxidative metabolism, Phase I-2014/Phase II-IV-2015, National Institute for Reseach and Development of Isotopic and Molecular Technologies Cluj-Napoca.
- **Core Project PN09-360.202** "Morphological, phytocenological, biochemical and histochemical (histoenzymological) studies on some oficinal riched in active principles in order to obtain

pharmaceutical bioproducts”, Institute of Biological Research, Phase II-2015.

- **Interdisciplinary research project:** Evaluation of the biological and psychomodulatory activity of some vegetal extracts with neurotropic and antioxidant effects in an in vivo experimental model exposed to anakinetic stress; 2014-2015; This project was developed within the College Student of Academic Performance.

- **Scholarship from- World Federation of Scientists (Switzerland) – Biochemical and acid-base parameters in animals exposed to newly-developed blood substitutes**, March 2014-March 2015.

#### 4. Conferences

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

a. Evaluation of antioxidant properties and biological activities of several *Plantago* hidroalcoholic extracts, **The 15<sup>th</sup> International Symposium of the 3<sup>rd</sup> Millennium Agriculture, 29.09-1.10.2016, Cluj-Napoca, Romania**

*Anca D. Farcaș, Augustin C. Moș, Vlad Al. Toma, Alina E. Pârvu, Ioana Roman, Silvia Neamțu and Marcel Pârvu*

b. Comparative antioxidant and prooxidant activities of five *Plantago* species, **The 4<sup>th</sup> Edition of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences "IC-ANMBES 2016", 29.06-1.07.2016, Brașov, Romania**

*Anca Farcaș, Augustin Moș, Vlad Toma, Laurian Vlase, Silvia Neamțu, Marcel Pârvu*

c. Structure - biological activity relationship of estrogenic flavonoids from *Plantago sempervirens*, **The 19<sup>th</sup> International Union of Pure and Applied Biophysics (IUPAB) and 11<sup>th</sup> European Biophysical Societies' Association (EBSA) Congress in Edinburgh, Scotland in July 2017**

*Anca D. Farcaș, Luiza Buimagă-Iarinca, Augustin C. Moș, Vlad Al. Toma, Marcel Pârvu*

d. Structure – biological activity profile of *Plantago* flavonoids with estrogenic potential, **11<sup>th</sup> International Conference Processes in Isotopes and molecules, 27-29.09.2017, Cluj-Napoca, Romania**

*Anca D. Farcaș, Luiza Buimagă-Iarinca, Augustin C. Moș, Vlad Al. Toma, Silvia Neamțu, Marcel Pârvu*

e. Luteolin mimics the *in vivo* effects of estrogen during induced-ovarian insufficiency, **The 17<sup>th</sup> International Symposium Prospects for the 3<sup>rd</sup> Millennium Agriculture, 27-29.09.2018, Cluj-Napoca, Romania**

*Anca Farcaș, Vlad Toma, Ioana Roman, Orsolya Srpataki, Bogdan Sevastre, Septimiu Tripon, Lucian Barbu-Tudoran, Marcel Parvu*

#### 3. Memberships

- Member in College Student of Academic Performance, Babeș-Bolyai University, Cluj-Napoca, 2014-2015.

- Member in Romanian Society for Cell Biology.

- Member in Romanian Society for Pure and Applied Biophysics.

#### 4. Honors and awards

▪ **PN-III-P1-1.1-PRECISI-2016-13332**, Research award for publication in Top 10 journals in the field of Biochemistry, UEFISCDI, Romanian Government, 2016.

▪ **PN-III-P1-1.1-PRECISI-2017-201118**, Research award for publication in the field of Neurobiology, UEFISCDI, Romanian Government, 2017.

▪ **PN-III-P1-1.1- PRECISI-2018- 27106**, Research award for publication in Top 10 journals in the field of Biochemistry, UEFISCDI, Romanian Government, 2018.

▪ **PN-III-P1-1.1- PRECISI-2018- 27793**, Research award for publication in Top 10 journals in the field of Biochemistry, UEFISCDI, Romanian Government, 2018.

▪ **Degree of Excellence in Interdisciplinary Research** from College Student of Academic Performance, 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*”, Babeș-Bolyai University, June, 2011, Cluj-Napoca;

#### 5. Training courses

- **The Seven Habbits of Highly Effective People**, Transylvania College, 7-8 Noiembrie, Cluj-

Napoca (2016)

## 6. Useful links

Brainmap: <https://www.brainmap.ro/anca-daniela-farcas>

ORCID: <https://orcid.org/0000-0002-7510-5793>

Publons: <https://publons.com/researcher/1808962/anca-daniela-farcas/>

ResearchGate: [https://www.researchgate.net/profile/Anca\\_Daniela\\_Farcas](https://www.researchgate.net/profile/Anca_Daniela_Farcas)

## SUMMARY:

|  |              |
|--|--------------|
| <b>Research articles</b>                   | <b>12</b>    |
| <b>Relative influence score</b>            | <b>7.63</b>  |
| <b>Impact factor</b>                       | <b>12.83</b> |
| <b>Red zone publications</b>               | <b>3</b>     |
| <b>RG Score</b>                            | <b>11.95</b> |
| <b>h Index</b>                             | <b>3</b>     |
| <b>International research scholarships</b> | <b>1</b>     |
| <b>Citations</b>                           | <b>23</b>    |

*Cluj-Napoca,  
4<sup>th</sup> of June 2019  
Anca D. FARCAȘ*



