

## PERSONAL INFORMATION

## FILIP ALINA



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## PROFESSIONAL EXPERIENCE - DIDACTIC

<b>27.02.2023</b> <i>Prezent</i>	→	<b>Lecturer</b> Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University Subjects: Biochemistry, Microbiology, Cell Biology and Molecular Genetics, Elements of Biochemistry
<b>27.02.2017</b> <b>27.02.2023</b>	→	<b>Teaching assistant</b> Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University Subjects: Elements of Biochemistry, Biochemistry, Microbiology, Genetic Engineering, Biocatalysis

## PROFESSIONAL EXPERIENCE - RESEARCH

<b>01.09.2020</b> <b>31.08.2022</b>	→	<b>Project leader</b> <b>PN-III-P1-1.1-PD-2019-1222</b> <i>Protein ENgineering of Ferulic acid DeCarboxylase from Saccharomyces cerevisiae (PEN-FDC)</i> Budget: 246.950 lei (~50.000 Euro), Postdoctoral research projects Contracting authority: Executive Agency for the Financing of Higher Education, Research, Development and Innovation. <a href="http://www.chem.ubbcluj.ro/~afilip/PEN-FDC-PD/">http://www.chem.ubbcluj.ro/~afilip/PEN-FDC-PD/</a>
<b>15.08.2023</b> <b>15.08.2026</b>	→	<b>Postdoctoral researcher</b> <b>PNRR nr. 760042/23.05.2023</b> <i>Advanced (multi)-enzymatic synthesis and purification processes for biobased furan derivatives – ASPIRE.</i>
<b>16.10.2016</b> <b>31.08.2020</b>	→	<b>Research assistant</b> <b>PROMYS, IZ11Z0_166543/1</b> <i>MIO-enzyme toolbox for the synthesis of non-natural amino acids</i> <a href="http://www.chem.ubbcluj.ro/~cslbencze/grants/promys/sites/people.html">http://www.chem.ubbcluj.ro/~cslbencze/grants/promys/sites/people.html</a>
<b>01.10.2015</b> <b>30.02.2017</b>	→	<b>Research assistant</b> <b>PN-II-RU-TE-2014-4-1668, 264/01.10.2015</b> <i>Mio-enzyme kit with defined and extended substrate domain</i> <a href="http://chem.ubbcluj.ro/~cslbencze/grants/te1668/">http://chem.ubbcluj.ro/~cslbencze/grants/te1668/</a>
<b>01.02.2015</b> <b>30.02.2016</b>	→	<b>Research assistant</b> <b>PN-II-PT-PCCA-2013-4-1006; 65/2014</b> <i>Integrated green technology system for producing advanced biofuels</i> <a href="http://www.chem.ubbcluj.ro/~irimie/index2.html">http://www.chem.ubbcluj.ro/~irimie/index2.html</a>

**EDUCATION AND TRAINING**

<b>15.05.2023 → 15.06.2023</b>	<b>CEEPUS Mobility internship</b> – 1 month. University of Warsaw, Department of Chemistry. CEEPUS Mobility no.: CIII-Freemover-2223-167731, National CEEPUS Office of Poland, Polish National Agency for Academic Exchange Polna Str. 40, PL-00-635 Warsaw, Poland
<b>01.02.2020 → 01.02.2021</b>	<b>Postdoctoral scholarship through project “Entrepreneurship for Innovation through Doctoral and Postdoctoral Research”, POCU/360/6/13/123886</b> Project co-financed from the European Social Fund through the Human Capital Operational Program 2014-2020
<b>15.07.2016 → 30.09.2016</b>	<b>PhD student (Scholarship ERASMUS - Outgoing students placements)</b> Faculty of Chemical Technology and Biotechnology of Budapest University of Technology and Economics
<b>01.06.2015 → 30.09.2015</b>	<b>PhD student (Scholarship POSDRU)</b> <i>“Young successful researchers professional development in an international and interdisciplinary environment” - POSDRU/159/1.5/S/132400</i> Institute of Enzymology of the Hungarian Academic of Science, 1117 Budapest, Magyar tudósok körútja 2
<b>1.10.2013 → 21.06.2019</b>	<b>PhD in Chemistry</b> <b>Chemistry Field, Biochemistry Subfield</b> Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University PhD supervisor: Prof. Dr. Ing. Csaba Paizs <b>Thesis title:</b> Wild-type and tailored phenylalanine ammonia-lyases for the synthesis of unnatural L- and D-arylalanines
<b>2011 → 2013</b>	<b>Master’s Degree - Cellular Biotransformations</b> Dissertation thesis: <b>"Bioactive compounds contained in fenugreek seeds with protective action on rat liver chronically intoxicated with ethanol"</b> Faculty of Biology and Geology, Babeş-Bolyai University
<b>2011 → 2013 2008 → 2011</b>	<b>Graduate Teacher Certificate – Level II</b> <b>Graduate Teacher Certificate – Level I</b> Department for Teacher Training, Babeş-Bolyai University Adolescent psychology, didactics of the specialty (high school, post-high school and university education).
<b>2008 → 2011</b>	<b>Bachelor’s Degree in Biology</b> Bachelor's thesis: <b>"The hepatoprotective effects of Trigonella foenum-graecum seeds"</b> Faculty of Biology and Geology, Babeş-Bolyai University

**PERSONAL SKILLS**

Mother tongue(s)	<b>Romanian</b>
Other language(s)	<b>English</b> (level B2) and <b>Italian</b> (level B1)

**Research skills**

- Site-directed and saturation mutagenesis, Cloning, Polymerase Chain Reaction (PCR), Gel electrophoretic methods (native-PAGE, denatured-PAGE and agarose) and Western-Blot.
- Expression and purification of recombinant proteins - FPLC (Immobilized Metal Ion Affinity Chromatography - IMAC, Ion Exchange Chromatography, Size Exclusion Chromatography - SEC).
- Nano differential scanning fluorimetry (NanoDSF) - protein stability.
- UV-vis spectrophotometry, Kinetic measurements, Biocatalysis, High Performance Liquid Chromatography (HPLC), Polarimetry. Capillary electrophoresis.
- Organic synthesis (basic level).
- Testing the active compounds from plants on Wistar rats.
- Hematological, morphological and biochemical determinations.
- Optical microscopy. Identification of microorganisms – native and fixed preparations, staining. Antibioqram.

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**Communication skills**

- Teamwork and communication skills developed since college by attending in numerous workshops, seminars, conferences or meetings both in teaching and research field.
  - Empathic and intuitive, confident, optimistic and sociable.
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**Organisational /managerial skills**

- Good experience of project, team and time management - developed in both research and teaching field.
  - Scientific coordinator for license and dissertation during 2013-Present
  - Didactic activities: Elements of biochemistry, Biochemistry, Microbiology, Genetic engineering, Food Biotechnologies, Foodstuffs technology and Pharmaceutical biotechnology, Bioinformatics.
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**Digital competence**

- Microsoft Office, BioEdit, Mega 4, RasTop, Dotlet and ChemBioDraw, MestReNova, SnapGene, Matlab, ViewerLite.
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**Other skills**

- Hobbies: painting, photography and cycling
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**Driving licence**

- Category B
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**Prizes (except certificates of participation)**

- **First prize in the posters section** "Cosmetic formulations based on essential oils from aromatic plants, possible anti-acne treatment" at the 21<sup>st</sup> Symposium and Summer School on Bioanalysis, Târgu Mureş, Romania, **July 10-15<sup>th</sup>, 2023**.
  - Third place in the team competition "De la cercetare la Start-UP" as well as the individual category in the project Postdoctoral scholarship through project "Entrepreneurship for Innovation through Doctoral and Postdoctoral Research", POCU/360/6/13/123886, **2022**.
  - Award titled "Coolest Professor" from the Faculty of Chemistry and Chemical Engineering in 2021, within the BBU CARAVAN project.
  - **Excellentia Award** - 5 june **2019**, **PhD student category**, granted by CSUBB and Babeş-Bolyai University.
  - **Excellentia Award** - 16 june **2017**, **Teachers category**, granted by CSUBB and Babeş-Bolyai University.
  - Gold medal award – Poster section – "Expanding the substrate range of phenylalanine ammonia lyase from *Petroselinum crispum* towards styryl-alanines" at Conference Biotransformations 2016, The institution which has awarded: Biotransformations for Pharmaceutical and cosmetic industry, Varşovia, 30.06 - 02.07. **2016**.
  - Diploma for scientific performance in the academic year **2012-2013**. The institution: Scientific Council of the Babes-Bolyai University, Cluj-Napoca, President of the Scientific Council - Conf. Univ. dr. Radu Silaghi-Dumitrescu.
  - Diploma for the "Best internships", **2009**, Program funded by the European Social Fund POSDRU/7/2.1/S1/2007-2013. The institution: Faculty of Biology and Geology, Cluj-Napoca.
  - Scientific Performance Scholarship, awarded by Babeş-Bolyai University, **2011-2013**.
  - Scholarship awarded for the academic results during the Bachelor's programme by the Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, **2009-2011**.
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Publication list, books, conference publications, awards and seminars are listed in the CV annex.

<https://www.brainmap.ro> U-1700-037Y-5819

<https://scholar.google.com/citations?user=TLL5pRcAAAAJ&hl=en>

I hereby state on my own responsibility that the data presented is accurate.

**Date: 05.11.2023**

