
CURRICULUM VITAE



PERSONAL INFORMATION:

Family Name, First Name: ISZLAI, András-Ernő

Affiliation: Enzymology and Applied Biocatalysis Research Center, Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Arany János Str. no. 11, R0-400028, Cluj-Napoca, Romania

Email: andras.iszlai@ubbeluj.ro

Nationality: Romanian, Hungarian

WORK EXPERIENCE:

01.11.2025. – Current

Scientific research assistant in the research project “Combinatorial synthesis of cyclic peptide libraries and their application against emerging therapeutic targets”, MAPS – Multilateral Academic Projects Programme No. IZ11Z0_230109 (Project director: Dr. László Csaba Bencze), Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Romania

01.04.2024. – Current

Chemist in the research project PNRR-III-C9-2023 – I8, contract nr. CF87/ 31.07.2023, project code 760241/28.12.2023, *Renewable Enzyme Immobilization – RENZI* (Project director: Dr. László Poppe), Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Romania

11.07.2022. – 29.07.2022.

Intern at Richter Gedeon Romania, Târgu Mureş, Romania

EDUCATION:

01.10.2025. – Current

PhD in Chemistry

Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Romania.

02.10.2023. – Current

Master’s Degree in Didactics of Chemistry

Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Romania.

02.10.2023. – 04.07.2025.

Master’s Degree in Chemistry and Engineering of Nano- and Biomaterials

Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Romania.

30.09.2019. – 06.07.2023.

Bachelor’s Degree in Chemistry and Engineering of Organic Compounds, Petrochemistry and Carbochemistry

Top of the class (9.72/10)

Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Romania.

SCOLARSHIPS AND AWARDS

15.10.2023. – 01.07.2025.

Collegium Talentum scholarship for scientific activity – provided by Sapientia Hungariae Foundation

01.10.2023. – 31.09.2024.

Special scholarship for scientific activity – provided by STAR-UBB Institute, Babeş-Bolyai University, Romania

20.03.2023. – 31.07.2023.

Márton Áron Scholarship, provided by the Ministry of Foreign Affairs and Trade of Hungary.

26.04.2023. – 30.04.2023.

Poster Prize Winner, awarded by the Romanian Chemical Society at the 19th International Conference “Students for Students”, poster section, Cluj-Napoca, Romania.

18.05.2023. – 21.05.2023.

1st Prize, The 26th Transylvanian Students’ Scientific Conference, presentation section, Cluj-Napoca, Romania.

15.09.2022. – 15.09.2023.

Szekely Forerunner Fellowship, provided by Forerunner Federation.

CONFERENCES

09.07.2025. – 11.07.2025.

14th International Symposium of the Romanian Catalysis Society (RomCat 2025), poster session, Cluj-Napoca, Romania.

25.03.2025. – 28.03.2025.

Novel Enzymes 2025, poster session, Budapest, Hungary.

23.10.2023. – 26.10.2023.

30th International Conference on Chemistry, plenary session for doctoral students, Cluj-Napoca, Romania.

17.04.2024. – 21.04.2024.

20th International Conference “Students for Students”, oral presentation, Cluj-Napoca, Romania.

25.10.2023. – 28.10.2023.

29th International Conference on Chemistry, student-poster section, Târgu Mureş, Romania.

26.04.2023. – 30.04.2023.

19th International Conference "Students for Students", poster section, Cluj-Napoca, Romania.
18.05.2023. – 21.05.2023.

26th Transylvanian Students' Scientific Conference, presentation section, Cluj-Napoca, Romania.

PUBLICATIONS:

Boros, K., Iszlai, A.-E., Barabás, L.-E., Bencze, L.-Cs., Tosa, M. (2025). Site-specifically immobilized D-amino acid dehydrogenase for the synthesis of D-phenylalanine. *New Biotechnology*. 90. 10.1016/j.nbt.2025.09.006.

WORK RELATED SKILLS AND COMPETENCES

Biochemical Procedures: Knowledge in biocatalysis, enzymology, protein engineering, and genetics. Competence in mutagenesis, polymerase chain reaction (PCR), protein expression and purification, enzyme immobilization.

Analytical Procedures: Competence in high-performance liquid chromatography (HPLC), UV-VIS spectroscopy, gel electrophoresis (SDS-PAGE, agarose gels), atomic absorption spectroscopy, atomic emission spectroscopy, mass spectrometry.

LANGUAGE SKILLS

Mother tongue: Hungarian.

Other languages: Romanian – C1; English – C1 (ECL).

DIGITAL SKILLS AND COMPETENCES

Microsoft Office (Word, Excel, PowerPoint); ChemDraw; ChemCad; PyMOL; Solid Edge 3D; SnapGene; GraphPad; MATLAB; EndNote, JASP.

VOLUNTEERING

08.03.2022. – 08.03.2023.

President – Organization of Young Hungarian Chemists of Cluj-Napoca.

08.03.2021. – 08.03.2022.

Vice president – Organization of Young Hungarian Chemists of Cluj-Napoca.

09.30.2018. – 09.30.2019.

Student representative - "Bolyai Farkas" High School.

13.11.2016. – 15.11.2018.

Vice president – Students' Union of "Bolyai Farkas" High School.
