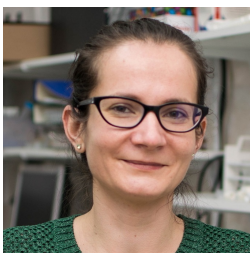


PERSONAL INFORMATION

Bartha-Vari Judith-Hajnal



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WORK EXPERIENCE

-
- february 2024-present
Lecturer
Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering
- april 2021- december 2021
Research Assistant
Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering
Biocatalysis Engineering–Selective Magnetic nanoparticles-based Reactor Technology- BE-SMART, PN-III-P2-2.1-PED-2019-5031
- september 2020 - september 2021
Research Assistant
Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering
MIO-enzyme toolbox for the synthesis of non-natural amino acids, PROMYS, IZ11Z0_166543/1
- august 2020 - march 2021
Research Assistant
Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering
Personalized intelligent matrices for tissue regeneration and meta-inflammation control
-PRIM-TISS, PN-III-P2-2.1-PED-2019-3664
Director project: Prof. Dr. Aranka ILEA
- october 2016 - august 2020
Research Assistant
Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering
Nanoscale Enzyme Immobilization and Microfluidics for Systems Biocatalysis”, POC-A1-A1.1.4-E-2015

Education

-
- 2012 - 2016
PhD in chemistry
Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering
- 2010 - 2012
Masters degree – Engineering of Organical and Biochemical Synthesis
Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering
- 2006 - 2010
Bachelors Degree -Biochemical Engineering
- 2002 - 2006
High School Degree
Báthory István High School, Cluj-Napoca

PERSONAL SKILLS

Mother tongue Hungarian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Romanian	C1	C1	C1	C1	C1
English	C1	C1	C1	C1	B2
German	B1	B1	B1	B1	B1

Communication skills Team work

Job-related skills

- Enzyme immobilization
- UV-VIS spectrophotometry
- HPLC
- GC
- Enzyme expression and purification
- Site-directed mutagenesis, PCR,

Digital competence Microsoft Office™ (Word, Excel, Power Point) , ChemDraw, ChemCAD, ViewerLite, Snappene, MestReNova,

Driving licence Matlab
B

 ADDITIONAL INFORMATION

Publications

1. **Bartha-Vári J.H.**, Tosa M.I., Irimie F.-D., Weiser D., Boros Z., Vértessy B.G., Paizs C., Poppe L., Immobilization of phenylalanine ammonia-lyase on single-walled carbon nanotubes for stereoselective biotransformation in batch and continuous-flow modes, **2015**, *ChemCatChem*, 7, 1122-1128; doi: [10.1002/cctc.201402894](https://doi.org/10.1002/cctc.201402894)
2. Bencze C.L., **Bartha-Vári J.H.**, Katona G., Toşa M.I., Paizs Cs., Irimie F.-D., Nanobioconjugates of Candida antarctica lipase B and single-walled carbon nanotubes in biodiesel production. **2016**, *Bioresource Technol*, 200, 853-860; doi: [10.1016/j.biortech.2015.10.072](https://doi.org/10.1016/j.biortech.2015.10.072)
3. **Bartha-Vári J.H.**, Bencze C.L., Santa-Bell E., Poppe L., Katona G., Irimie F.-D., Paizs C., Toşa M.I., Aminated single-walled carbon nanotubes as carrier for covalent immobilization of phenylalanine ammonia-lyase. **2017**, *Periodica Polytechnica Chemical Engineering* 61(1):59-66 doi: [10.3311/PPch.10417](https://doi.org/10.3311/PPch.10417)
4. Moisă M.E., Spelmezán C.G., Paul C., **Bartha-Vári J.H.**, Bencze C. L., Irimie F.-D., Paizs C., Péter F., Toşa M. I., Tailored sol-gel immobilized lipase prepares for the enzymatic kinetic resolution of heteroaromatic alcohols in batch and continuous flow systems. **2017**, *RSC Advances*, 7(83):52977-52987; doi: [10.1039/C7RA10157K](https://doi.org/10.1039/C7RA10157K)
5. **Bartha-Vári J.H.**, Moisă M.E., Bencze C. L., Irimie F.-D., Paizs C., Toşa M. I., Efficient Biodiesel Production Catalyzed by Nanobioconjugate of Lipase from Pseudomonas fluorescens, **2020**, *Molecules*, 25(3), 651; doi: [10.3390/molecules25030651](https://doi.org/10.3390/molecules25030651)
6. Gal C.A., Barabás L.E., **Bartha-Vári J.H.**, Moisă M.E., Weiser-Balogh, D., Bencze C.L., Poppe L., Paizs C., Toşa M. I., *Lipase on carbon nanotubes – an active, selective, stable and easy-to-optimize nanobiocatalyst for kinetic resolutions*. 2021, *React. Chem. Eng.*, 6, 2391-2399; doi: [10.1039/D1RE00342A](https://doi.org/10.1039/D1RE00342A)
7. **Bartha-Vári J.H.**, Elekes-Darabont R, Barabás L.E., Barabás R., Immobilization of phenylalanine ammonia-lyase on hydroxyapatite and hydroxyapatite composites. **2021**, *STUDIA UBB CHEMIA*, LXVI, 1, 165-178; doi:[10.24193/subbchem.2021.1.13](https://doi.org/10.24193/subbchem.2021.1.13)
8. Petkes R., Farkas N.I., Marincuş L., **Bartha-Vári, J.H.**, Barabá, R., Synthesis and Characterization of silver-doped hydroxyapatite. **2023**, *STUDIA UBB CHEMIA*, LXVIII, 4, 27-40; doi:[10.24193/subbchem.2023.4.03](https://doi.org/10.24193/subbchem.2023.4.03)

Conferences

1. Naghi M. A., **Vari J. H.**, Tosa M. I., Paizs C., Irimie F.D, CaL-A Mediated Kinetic Resolution of Racemic 2-hydroxy-2-(5-phenylthiophen-3-yl)acetonitrile and its Derivatives, *13th International Symposium and Summer School, Debrecen, 2013* - poster
2. **Vari J.H.**, Varga A., Poppe L., Paizs Cs., Covalent Immobilization of Phenylalanine Ammonia Lyase on Functionalized Single Walled Carbon Nanotubes, *Action COST CM1303 SysBiocat Training School, 2014*, Siena, Spania – poster+prezentare orală
3. **Vari J.H.**, Varga A., Poppe L., Paizs Cs., Covalent immobilization of Phenylalanine Ammonia Lyase on Functionalized Single-Walled Carbon Nanotubes, ACTION CM1303 “SysBiocat” Kick-off Workshop CSIC Headquarters, Madrid (ES), **10 april 2014** – prezentare orală
4. Filip A., **Bartha-Vári J.H.**, Banoczi G., Poppe L., Bencze L.C, Paizs C., Irimie F.D.: Non-natural aminoacids via the MIO–enzyme toolkit, *The Organizing Committee of the 29th Annual Symposium of The Protein Society, Barcelona, Spania, 22-25 july, 2015.* - poster **Bartha-Vári J.H.**, Functionalized nanotubes supported lipases for biodiesel production, *Young Researchers' International Conference on Chemistry and Chemical Engineering*, May 2016 -prezentare orală
5. **Bartha-Vári J.H.**, Functionalized nanotubes supported lipases for biodiesel production, *Young Researchers' International Conference on Chemistry and Chemical Engineering*, May 2016 -prezentare orală
6. **Bartha-Vári J. H.**, Nagy E. Z., Gal C. A., Bencze L. C., Toşa M. I., Irimie F. D., Abaházi E., Poppe L., Paizs C., CaL-B Immobilized on Single Walled Carbon Nanotubes as Efficient Biocatalyst for the Kinetic Resolution of 1-(Hetero)aryl -Ethanol., *Action COST CM1303 SysBiocat Training School*, Siena, Spania, **2016** - poster
7. **Bartha-Vári J. H.**, Covalent Immobilization of Lipases on Functionalized Single-Walled Carbon Nanotubes for Biodiesel Production in Batch and in Continuous Flow Modes, *16th International Symposium and Summer School on Bioanalysis, Varsovia, 2016*, (16th ISSSB), prezentare orală
8. Gal C. A., Bartha-Vári J. H, Nagy E.Z.A., Tiponuş N., Dr. Bencze L.C., Toşa M.I., Katona G., Paizs C., A CaL-B lipáz nanorészecskékre való rögzítése valamint alkalmazása optikailag tisztá aril, heteroaril szekunder alkoholok előállítására, *22nd International Conference on Chemistry*, 3-6 November 2016, Timisoara, Romania - poster
9. Moisă M.E., **Bartha-Vári J. H.**, Bencze L.C., Irimie F.D., Paizs C., Toşa M.I., Site-specifically immobilized phenylalanine ammonia lyases for continuous flow processes, *The 13th International Symposium of the Romanian Catalysis Society RomCat2022*, Băile Govora, 20-24 June **2022** – poster