



Laura-Edit Barabás

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Phone: (+40) 742137826

Gender: Female **Date of birth:** 03/05/1994 **Nationality:** Romanian

WORK EXPERIENCE

[2017 – 2020]

Student senator

Babeş-Bolyai University

City: Cluj-Napoca

Country: Romania

Student senator of Natural Sciences

[08/2020 – 09/2021]

Research Assistant

Babeş-Bolyai University

City: Cluj-Napoca

Country: Romania

PROMYS - Promotion of Young Scientists in Eastern Europe
MIO-enzyme toolkit for the synthesis of non-natural amino acids
Enzymology and Applied Biocatalysis Research Center

[2020 – 2022]

Fellowship Program

Babeş-Bolyai University

Country: Romania

POCU 123886 – Entrepreneurship for innovation through doctoral and postdoctoral research

[22/12/2022 – Current]

Chemist

Babeş-Bolyai University

[04/08/2023 – Current]

Research Assistant

Babeş-Bolyai University

City: Cluj-Napoca

Country: Romania

Advanced (multi)-enzymatic synthesis and purification processes for biobased furan derivatives – ASPIRE

EDUCATION AND TRAINING

[2008 – 2013]

High school

Márton Áron National College

City: Miercurea Ciuc

Country: Romania

Field(s) of study: Ştiinţele ale naturii

[2012 – 2017]

Engineer

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering

City: Cluj-Napoca

Country: Romania

Field(s) of study: Chimia și Ingineria Substanțelor Organice, Petrochimie și Carbochimie

[2016 – 2019]

Master's degree

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering

City: Cluj-Napoca

Country: Romania

Field(s) of study: Chimia și Ingineria Nano- și Biomaterialelor

LANGUAGE SKILLS

Mother tongue(s): Hungarian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

programe de modelare a moleculelor în 3D (Pymol, Hyperchem, Chemdraw) |
ChemStation | European Computer Driving Licence

PUBLICATIONS

[2021]

[Lipase on carbon nanotubes - an active, selective, stable and easy-to-optimize nanobiocatalyst for kinetic resolutions](#)

React. Chem. Eng., 2021, **6**, 2391-2399

Gal, Cristian Andrei; Barabas, Laura Edit; Bartha Vari, Judith-Hajnal; Moisa, Madalina Elena; Balogh-Weiser, Diana; Bencze, Laszlo Csaba; Poppe, Laszlo; Paizs, Csaba; Tosa, Monica Ioana

[2021]

[Immobilization of Phenylalanine ammonia-lyase on hydroxyapatite and hydroxyapatite composites](#)

Stud. Univ. Babeş-Bolyai, Chem., 2021, Vol. **66** Issue 1, p165-178. 14p.

BARTHA-VARI, JUDITH-HAJNAL; ELEKES-DARABONT, RENÁTA; BARABÁS, LAURA-EDIT; BARABÁS, RÉKA

[2022]

[How to identify and characterize novel transaminases? Two novel transaminases with opposite enantioselectivity for the synthesis of optically active amines](#)

Mol. Catal., 2022, Vol. **531**, 112660

Cristian Andrei Gal, Laura-Edit Barabás, Andrea Varga, Pál Csuka, László Csaba Bencze, Monica Ioana Toşa, László Poppe, Csaba Paizs

[2023]

[Transaminase – carbonic anhydrase bi-enzymatic cascade for preparation of \(R\)-1-arylethan-1-amines and \(S\)-1-arylethan-1-ols](#)

React. Chem. Eng., 2023

Laura Edit Barabás, Diana Maria Scrob, Andrea Varga, Loránd Kiss, Monica Ioana Toşa, Csaba Paizs

DRIVING LICENCE

Cars: B

CONFERENCES AND SEMINARS

[17/05/2017 – 20/05/2017] **20th Transylvanian Students' Scientific Conference, Cluj-Napoca II.**

Synthesis of phenothiazine and indole based Schiff bases

Laura-Edit Barabás, Balázs Brém, Emese Gál

[23/10/2018 – 26/10/2018] **24th International Conference on Chemistry, Sovata**

Synthesis of phenothiazine and indole based Schiff bases, and their photophysical properties

Laura-Edit Barabás, Emese Gál

[02/04/2019 – 06/04/2019] **16th International Conference Students for Students, Cluj-Napoca**

Asymmetric hydrogenation of chalcones

Laura-Edit Barabás, Laura Marincaş, Emese Gál

[29/10/2020] **26th International Conference on Chemistry II.**

The development of bienzymatic cascade system for the conversion of benzaldehydes into valuable products

Laura-Edit BARABÁS, Cristian-Andrei GAL, Csaba PAIZS

[28/10/2021] **27th International Conference on Chemistry II.**

Transaminases in casting for chemical industry - Two jackpots by one push of a single enzyme

Laura-Edit BARABÁS, Csaba PAIZS

[27/10/2022 – 29/10/2022] **28th International Conference on Chemistry**

Kinetic resolution of racemic amines - in a new light

Laura-Edit BARABÁS, Csaba PAIZS

[22/06/2022 – 24/06/2022] **The 13th International Symposium of the Romanian Catalysis Society**

Transaminases in casting for chemical industry - Two jackpots by one push of a single enzyme

Laura-Edit BARABÁS, Csaba PAIZS

[04/10/2023 – 06/10/2023] **European Biotechnology Congress**

Enzymes in Biocatalysis: Unlocking their Potential for Sustainable Chemical Synthesis

Laura Edit BARABÁS, Monica Ioana TOŞA, Csaba PAIZS

ORGANISATIONAL SKILLS

Volunteering

- Organizing round tables with scientific discussions
- Organization of the Open Doors Day at the Faculty of Chemistry and Chemical Engineering
- Organization of Open Days for high school teachers

JOB-RELATED SKILLS

Job-related skills

- Planning and research skills
- Interpersonal and teamwork skills
- Conflict management
- Motivation
- People management
- Presentation
- Collaboration

SCHOLARSHIP

[2017 – 2019] **WFS (World Federation of Scientists) National Scholarship**

[2020 – 2021] **Collegium Talentum**

Sapientia Hungariae Foundation

[2021 – 2022] **Collegium Talentum**

Sapientia Hungariae Foundation

Entrepreneurship for Innovation through Doctoral and Postdoctoral Research, POCU/380/6/13/123886

ALTE INFORMAȚII

ORCID ID

0000-0002-3599-9753

RESEARCHER ID

AAC-9499-2021

GOOGLE SCHOLAR ID

<https://scholar.google.com/citations?hl=hu&user=DJOcLQMAAAAJ>



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