



## Laura-Edit Barabás

**Home :** 1352, Bagolyloka, 537130, Joseni, Romania

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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:** Natural Sciences

[ 2012 – 2017 ]

## Engineer

**Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering**

**City:** Cluj-Napoca

**Country:** Romania

**Field(s) of study:** Chemistry and Engineering of Organic Substances, Petrochemistry and Carbochemistry

[ 2016 – 2019 ]

## Master's degree

**Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering**

**City:** Cluj-Napoca

**Country:** Romania

**Field(s) of study:** Chemistry and Engineering of Nano- and Biomaterials

## LANGUAGE SKILLS

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**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*

## PUBLICATIONS

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[ 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

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**Cars:** B

## CONFERENCES AND SEMINARS

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[ 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

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### 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

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### Job-related skills

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

## SCHOLARSHIP

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[ 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

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### 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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