



PERSONAL INFORMATION





Web of Science ResearcherID: AAL-8729-2020

ORCID ID: 0000-0002-3376-0001

ScopusID: 57201747213

Google Scholar ID: c6ayQBYAAAAJ

E-mail: souad.tork@ubbcluj.ro

Webpage: http://www.chem.ubbcluj.ro/BIO/CENTRU/

WORK EXPERIENCE

1.10.2020 - present ASSISTANT PROFESSOR

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, 11 Arany Janos St., RO-400028, Cluj Napoca

Laboratories/Seminars for the following subjects: Bioreactors I, Bioreactors II, Biocatalysis, Bioprocess Engineering, Food Industry Biotechnologies, Biochemistry

Type of business or sector Biochemistry

15.09.2020-present

RESEARCH ASSISTANT

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, 11 Arany Janos St., RO-400028, Cluj Napoca

Project: Rational redesign of phenylalanine ammonia-lyases for reversing their natural selectivity, PN-III-P1-1.1-TE-2019-2118, contract number: TE95/2020 Project manager: Lect. Dr. Bencze László Csaba; E-mail: laszlo.bencze@ubbcluj.ro

Type of business or sector Biochemistry

1.10.2019-15.09.2020

RESEARCH ASSISTANT

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, 11 Arany Janos St., RO-400028, Cluj Napoca

Project: MIO-enyzme toolbox for the synthesis of non-natural amino acids, PROMYS, IZ11Z0 166543/1

Project manager: Lect. Dr. Bencze László Csaba; E-mail: laszlo.bencze@ubbcluj.ro

Type of business or sector Biochemistry

1.11.2015-30.09.2019

WFS and academic performance scholarships (for young researchers)





Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, 11 Arany Janos St., RO-400028, Cluj Napoca

E-mail: chem@chem.ubbcluj.ro

Type of business or sector Biochemistry

1.06.2014- 30.09.2015

LABORATORY ASSISTANT

SC SoilTesting SRL, 114 Donath St., Cluj Napoca

E-mail: ali_soiltesting@yahoo.com

- Geotechnical study
- Particle size analysis
- Documentation

Type of business or sector Geology

15.10.2012-1.10.2014

Volunteer

OSC Cluj, Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, 11 Arany Janos St., room 23, RO-400028 Cluj-Napoca, Romania

E-mail: organizatiastudentilorchimisti@gmail.com

- The International Conference "Students for students",
- Charitable project for orphans "Suflet pentru Suflet"
- ChemCup football event
- FCIC Open Gates

EDUCATION AND TRAINING

October 2017-April 2023

PhD in Chemistry, Biocatalysis and Biotransformations Scientific Research Center

ISCED level 8

Babeş Bolyai University - Faculty of Chemistry and Chemical Engineering, Cluj-Napoca

Scientific advisor: Prof. Eng. Florin-Dan Irimie

Doctor title (with Summa cum Laude) awarded on April 28th 2023

Thesis tile: Engineered PALs for preparative-scale production of L- and D-phenylalanine analogues

October 2015-July 2017

MSc degree in Engineering of Organic and Biochemical Processes

ISCED level 5

Babes Bolyai University – Faculty of Chemistry and Chemical Engineering, Cluj-Napoca

Thesis title: Novel mutant MIO-enzymes for the synthesis of unnatural amino acids

Scientific advisors: Prof. Eng. Florin-Dan Irimie, Lect. Dr. László-Csaba Bencze and Univ. Assist. Alina Filip





October 2011-July 2015

BSc degree in Chemical Engineering Food Chemistry and Biochemical Technologies

ISCED level 6

Babes Bolyai University - Faculty of Chemistry and Chemical Engineering, Cluj-Napoca

Thesis title: Enzymatic technology for obtaining D-phenylalanine from racemate 2-amino 3-phenylpropanoic acid

Scientific advisors: Prof. Eng. Florin-Dan Irimie and Prof. Habil. Eng. Csaba Paizs

October 2012-June 2015

Level 1 Teaching Module Certificate

ISCED level 6

Teacher Training Department (DPPD) Cluj-Napoca, Babes Bolyai University

October 2015-June 2017

Level 2 Teaching Module Certificate

ISCED level 6

Teacher Training Department (DPPD) Cluj-Napoca, Babeş Bolyai University

Thesis title: Learning style inventory (LSI) after Kolb's model: Its application in higher education

Scientific advisor: Prof. Dr. Liliana Ciașcai

September 2007-June 2011

Baccalaureate degree

ISCED level 3

Onisifor Ghibu Highschool Cluj-Napoca, section: Maths-Informatics

Mathematics, Computer Science, Chemistry, Physics, Biology, Literature, History, English

PERSONAL SKILLS

Mother tongue(s)

Romanian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C2	C2	C2
DLSS Certificate of Language				
A2	A2	A1	A1	A2

English

French

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user Common European Framework of Reference for Languages

euro*pass*

Research skills

Overexpression of recombinant proteins in *Escherichia coli*, isolation and purification of proteins (Ni-NTA affinity chromatography, SDS-PAGE electrophoresis, Western Blot), UV-vis spectroscopy, HPLC, TECAN Spark® multimode reader, Nano differential scanning fluorimetry (NanoDSF), genetic engineering (site-directed mutagenesis and iterative saturation mutagenesis), PCR (polymerase chain reaction), DNA isolation.

Social skills and competences

Good teamwork skills developed while working on different projects and as a volunteer where I have proved myself to be a cooperative person;

Adaptability to changes, honesty and fairness.

Organisational / managerial skills

Tendency to achieve all objectives and consequent good organizational skills, both individual and of a group;

I have supervised research work carried out by undergraduate students (bachelor and master degree):

Good time management skills, can set priorities and efficiently manage to write reports and prepare presentations;

Didactic activities: laboratories and seminars, during 2017-Present: Elements of Biochemistry, Advanced Biochemistry, Food Biotechnologies, Biocatalysis, Bioprocess Engineering, Bioreactors

Digital competences

Microsoft Office Word; Excel; Power Point ViewerLite; ChemDraw; GraphPAD; Origin

PhotoScape; Adobe Premier Pro

Chromas Lite; CLC Sequncing; Snapgene; BioEdit PyMOL; ChemCAD; LabView; Matlab; C++ (basic skills)

Artistic skills and competences

Drawing, Sketching, Photography

Hobbies: Cycling, travelling and exploring

Driving licence B

ADDITIONAL INFORMATION

Articles

Publication list, books, conference publications are listed in the CV annex at https://www.brainmap.ro, UEFISCDI ID (UEF-ID): U-1900-064J-1785



Conferences

- <u>Tork S.D.</u>, Radu A., Paizs C., *Medium engineering for enhanced biocatalytic power of various PAL enzymes*, XIIth Edition of the International Conference "Students for Students" Cluj-Napoca, **2015**
- <u>Tork S.D.</u>, Filip A., Bartha-Vári J.H., Bencze L.C., Irimie F.D., *Immobilization and substrate domain expansion of RtPAL*, XIIIth Edition of the International Conference "Students for Students" Cluj-Napoca, **2016**
- Filip A, <u>Tork S.D</u>, Bencze L.C., Banoczi G., Irimie F.D., Poppe L., Paizs C. MIO-enzyme toolbox: F137V mutant of phenylalanine ammonia-lyase from Petroselinum crispum with improved substrate tolerance and stereoselectivity, Action COST CM1303 SysBiocat Training School, Siena, **2016**
- <u>Tork S.D.</u>, Filip A., Nagy Z., *Novel PcPAL mutants exhibiting broadened substrate scope*, XIVth Edition of the International Conference "Students for Students" Cluj-Napoca, **2017**
- <u>Tork S.D.</u>, Nagy E.Z.A., Filip A., Lang P., Schofield C.J., Brem J., Paizs C., Bencze L.C., Active site mapping of phenylalanine ammonia-lyase from *Petroselinum crispum*, 14th International Symposium on Biocatalysis and Biotransformations, Groningen (Netherlands), **2019**
- <u>Tork S.D.</u>, Nagy E.Z.A., Filip A., Irimie F.D., Monica I. T., Brem J., Paizs C., Bencze L.C, Îmbunătățirea proprietăților catalitice a PAL din *Petroselinum crispum* prin tehnici de inginerie proteică, Conferința Națională a Școlilor Doctorale din Consorțiul Universitaria, Ediția a II-a, Timișoara, **2019**
- Tork S.D., Moisă M.E., Bencze L.C Redesign of phenylalanine ammonia-lyases for non-natural substrates, Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE III), Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania 2021
- <u>Tork S.D.</u>, Paizs C., Bencze L.C Engineered *At*PALs for the production of l- and d-arylalanines, The 13th International Symposium of the Romanian Catalysis Society, Băile Govora, Vâlcea County, Romania, 2022.

Workshops

• HPLC troubleshooting - Phenomenex Inc. (USA)&MUSO SRL, Trainer: Heiko Behr, at USAMV, Cluj-Napoca **2018**.

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

Date: 07.11.2023