

**PERSONAL
INFORMATION**

Souad-Diana TORK



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WORK EXPERIENCE

1.10.2020 - present

ASSISTANT PROFESSOR

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

Laboratories/Seminars for the following subjects: Bioreactors I, Bioreactors II, Biocatalysis, Bioprocess Engineering, Biotechnology of Foods

15.09.2020-1.08.2021

RESEARCH ASSISTANT

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, 11 Arany János 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. Bencze László Csaba; E-mail: laszlo.bencze@ubbcluj.ro

1.10.2019-15.09.2020

RESEARCH ASSISTANT

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

Project: MIO-enzyme toolbox for the synthesis of non-natural amino acids, PROMYS, IZ11Z0_166543/1

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

1.06.2014- 30.09.2015

LABORATORY ASSISTANT

SC SoilTesting SRL, 114 Donath St., Cluj-Napoca

E-mail: ali_soiltesting@yahoo.com

- Geotechnical studies, Particle size analysis, Documentation

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

Projects:

- The International Conference “Students for students”,
- Charitable project for orphans “Suflet pentru Suflet”
- ChemCup – football event

- FCIC Open Gates

EDUCATION AND TRAINING

- Oct 2017-present** **PhD in Chemistry** ISCED level 8
- Babeş Bolyai University – Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Enzymology and Applied Biocatalysis Research Center
- Scientific advisor: Prof. Eng. Florin-Dan Irimie
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- Oct 2015-Jul 2017** **MSc degree in Engineering of Organic and Biochemical Processes** ISCED level 7
- Babeş 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. László-Csaba Bencze and Assist. Prof. Alina Filip
- Advanced Biochemistry; Bioprocess Engineering; Green Chemistry; Advanced Organic Chemistry; Advanced Enzymology; Biotransformations applied in food, pharmaceutical and organic industries; Rheology of disperse systems; Organic and Organometallic precursors for materials;
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- Oct 2011-Jul 2015** **BSc degree in Chemical Engineering** ISCED level 6
Food Chemistry and Biochemical Technologies
- Babeş 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. Eng. Csaba Paizs
- Biochemistry; Enzymology; Chemical Process Control; Food Biotechnology; Organic Chemistry; Inorganic Chemistry; Bioinorganic Chemistry; Industrial Water Treatment; Mathematics; English; Microbiology; Instrumental and analytical chemistry; Transport Phenomena and Unit Operations;
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- Oct 2012-Jun 2015** **Level 1 Teaching Module Certificate** ISCED level 6
- Teacher Training Department (DPPD) Cluj-Napoca, Babeş Bolyai University
- Psychopedagogic, psychosocial and class management competences
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- Oct 2015-Jun 2017** **Level 2 Teaching Module Certificate** ISCED level 7
- 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. Liliana Ciascai
- Science integrated study, Psychopedagogy of adolescents, young people and adults
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- Sept 2007-Jun 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	
English	C2	C2	C2	C2	C2

DLSS Certificate of Language

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

Research related skills Overexpression of recombinant proteins in *Escherichia coli*, isolation and purification of PAL/PAM 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, organic synthesis, enzyme immobilization.

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 I and II

Digital competences Microsoft Office Word; Excel; Power Point ViewerLite; ChemDraw; GraphPAD
PhotoScape; Web Browsing
Chromas Lite; CLC Sequencing; Snapgene
PyMOL; ChemCAD; LabView; Matlab; C++ (basic skills)

Driving licence B

ADDITIONAL INFORMATION

- Awards**
- The XIIIth Edition of the International Conference “Students for Students” Cluj-Napoca - *Immobilization and substrate domain expansion of RtPAL* - **Award** given by the **Romanian Chemistry Society, 2016**
 - The XIVth Edition of the International Conference “Students for Students” Cluj-Napoca - *Novel PcPAL mutants exhibiting broadened substrate scope* - **THE GO GREEN! APPROACH award** granted by **SPI (Special Pro Instalații), 2017**
 - **Excellentia Award 2017**, granted by CSUBB and Babeş-Bolyai University, category: student
 - **Excellentia Award 2021**, granted by CSUBB and Babeş-Bolyai University, category: doctoral student

- Scholarships**
- Scholarship awarded for the academic results during the Bachelor's programme and Master's programme by the Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, **2011-2015, 2017**
 - Scientific Performance Scholarship, awarded by Babeş-Bolyai University (Star-UBB Institute), **2016-2017**
 - World Federation of Scientist (WFS) Scholarship, awarded by Professor Gheorghe Stratan, National Representative of the WFS in Romania, **2016-2017**

- Conferences**
- Tork S.D., 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**
 - Tork S.D., 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, Tork S.D., 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**
 - Tork S.D., Filip A., Nagy Z., *Novel PcPAL mutants exhibiting broadened substrate scope*, XIVth Edition of the International Conference "Students for Students" Cluj-Napoca, **2017**
 - Tork S.D., 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**
 - Tork S.D., 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**

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