

**PERSONAL
INFORMATION**

Souad-Diana TORC



📍 23 Donath St., flat MX3, ap. 39, 400290 Cluj-Napoca, Romania
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 ✉ ida_souad@yahoo.com

Sex Female | Date of birth 05/05/1992 | Nationality Romanian

WORK EXPERIENCE

2012- 2017 STUDENT RESEARCHER

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

E-mail: chem@chem.ubbcluj.ro

- Protein expression and purification
- Enzyme assay analysis: SDS-PAGE electrophoresis, Western Blot, UV-vis spectroscopy, HPLC spectroscopy, NanoDSF, TECAN Spark® multimode reader
- Primer design, site directed-mutagenesis, PCR and DNA isolation
- Fine organic synthesis and analysis

Type of business or sector Biochemistry

2014- 2015 LABORATORY ASSISTENT

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

2012- 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-present **Phd student in Chemistry, Biocatalysis and Biotransformations** ISCED level 8
Scientific Research Center

Babeş Bolyai University – Faculty of Chemistry and Chemical Engineering, Cluj-Napoca
 Scientific advisor: Prof. Eng. Florin Dan Irimie

October 2015-July 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. Dr. László-Csaba Bencze and Univ. assist. Alina Filip

General:

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;

Occupational:

Research methodology; Molecular modelling (SPARTAN); Retrosynthetic analysis;

October 2011-July 2015 **BSc degree in Chemical Engineering, Food Chemistry and Biochemical Technologies** ISCED level 6

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. Habil. Eng. Csaba Paizs

General:

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;

Occupational:

Use, maintain, basic laboratory equipment; Measuring, weighing and preparing compounds and solutions; Practical skills in microbiology; Chemistry problems calculations; Application of proper safe practices in a laboratory; UV-vis spectroscopy; Organic and inorganic compound synthesis;

October 2012-June 2015 **Level 1 Teaching Module Certificate** ISCED level 6

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

Psychopedagic, psychosocial and class management competences

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 Cîaşcai

Science integrated study, Psychopedagogy of adolescents, young people and adults

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	
English	C2	C2	C2	C2	C2
<i>DLSS Certificate of Language</i>					
French	A2	A2	A1	A1	A2

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

Social skills and competences Good team work 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
 Good time management skills, can set priorities and efficiently manage to write reports and prepare presentations

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

Artistic skills and competences Drawing, Sketching

Other skills and competences Cycling, Travelling and exploring

Driving licence B

ADDITIONAL INFORMATION

Articles ▪ Filip A., Nagy E.Z.A., Tork S.D., Bánóczy G., Toşa M.I., Irimie F.D., Poppe L., Paizs C., Bencze L.C., Tailored Mutants of Phenylalanine Ammonia-Lyase from *Petroselinum crispum* for the Synthesis of Bulky L- and D-Arylalanines, *ChemCatChem* (2018) 10(12): 2627-2633; DOI: 10.1002/cctc.201800258

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**

Certificates and Awards

- Certificate of Attendance at the XIIth Edition of the International Conference “Students for Students” Cluj-Napoca with the paper “*Medium engineering for enhanced biocatalytic power of various PAL enzymes*”, **2015**
- Certificate of Attendance at the XIIIth Edition of the International Conference “Students for Students” Cluj-Napoca with the paper “*Immobilization and substrate domain expansion of RtPAL*” and **Award** given by the **Romanian Chemistry Society** for the same paper, **2016**
- Certificate of Attendance at the XIVth Edition of the International Conference “Students for Students” Cluj-Napoca with the paper “*Novel PcPAL mutants exhibiting broadened substrate scope*” and **THE GO GREEN! APPROACH award** granted by **SPI (Special Pro Instalații)** for the same paper, **2017**
- **Excellentia Award 2017**, granted by CSUBB and Babeş-Bolyai University

Scholarships

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