



# Diana Maria Scrob

**Date of birth:** 02/02/1998 | **Nationality:** Romanian | **Gender:** Female |

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## WORK EXPERIENCE

04/2024 – CURRENT Cluj-Napoca, Romania

**ASSISTANT RESEARCHER** FACULTY OF CHEMISTRY AND CHEMICAL ENGINEERING, BABEȘ-BOLYAI UNIVERSITY

PNRR I8 - "Renewable Enzyme Immobilization - RENZI", contract nr. 760241/28.12.2023.

08/2023 – CURRENT Cluj-Napoca, Romania

**ASSISTANT RESEARCHER** FACULTY OF CHEMISTRY AND CHEMICAL ENGINEERING, BABEȘ-BOLYAI UNIVERSITY

PNRR - "Advanced (multi)-enzymatic synthesis and purification processes for bio-based furan derivatives – ASPIRE", contract nr. 760042/23.05.2023.

01/10/2020 – 01/09/2022 Cluj-Napoca, Romania

**CHEMICAL ENGINEER** FACULTY OF CHEMISTRY AND CHEMICAL ENGINEERING, BABEȘ-BOLYAI UNIVERSITY

13/07/2020 – 30/12/2020 Jucu, Cluj, Romania

**WORKING STUDENT TECHNICAL DEPARTMENT** ROBERT BOSCH S.R.L.

- Manage tasks like, data input and data-bases up-dates
- Provide support for creating and editing documentation used in the department
- Translations of various documents
- Power Point presentations
- The opportunity to learn how to work in a multicultural environment
- Apply my theoretical knowledge from university in practice, being involved in production projects
- Take part to assigned trainings to enrich my career development skills

## EDUCATION AND TRAINING

01/10/2022 – CURRENT Cluj-Napoca, Romania

**PHD STUDENT** Doctoral School of Chemistry, Babeș-Bolyai University

2020 – 2022 Cluj-Napoca, Romania

**MSC DEGREE IN ORGANIC AND BIOCHEMICAL PROCESSES ENGINEERING** Faculty of Chemistry and Chemical Engineering, Babeș-Bolyai University

2016 – 2020 Cluj-Napoca, Romania

**BSC DEGREE IN BIOCHEMICAL ENGINEERING** Faculty of Chemistry and Chemical Engineering, Babeș-Bolyai University

2016 – 2019 Cluj-Napoca, Romania

**TEACHER-TRAINING MODULE** Teacher Formation Department, Babeș-Bolyai University

2012 – 2016 Câmpeni, Romania

**HIGH SCHOOL DIPLOMA** "Avram Iancu" National College, section: Natural Sciences

## ● LANGUAGE SKILLS

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Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>SPANISH</b>	C2	C2	C1	C1	C1
<b>ENGLISH</b>	C1	C1	C1	C1	C1
<b>FRENCH</b>	A2	A2	A2	A2	A2
<b>GERMAN</b>	A1	A1	A1	A1	A1

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

## ● DIGITAL SKILLS

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Microsoft Office | ChemDRAW | PyMOL | SnapGene

## ● PUBLICATIONS

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2023

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

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L.E. Barabas, D.M. Scrob, A. Varga, L. Kiss, M. I. Toşa, C. Paizs: Transaminase - carbonic anhydrase bi-enzymatic cascade for preparation of (R)-1-arylethan-1-amines and (S)-1- arylethan-1-ols. *React. Chem. Eng.*, **2023**.

2021

### **Eco-friendly Enzymatic Synthesis of Anisyl Propionate Mediated by Lipase B from *Candida antarctica***

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D.M. Scrob, M.A. Lăcătuş, A.I. Dudu: Eco-friendly Enzymatic Synthesis of Anisyl Propionate Mediated by Lipase B from *Candida antarctica*. *Studia Universitatis Babeş-Bolyai, Chemia*, **66**, **2021**, 277-286.

## ● CONFERENCES AND SEMINARS

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04/10/2023 – 06/10/2023 Ljubljana, Slovenia

### **European Biotechnology Congress 2023**

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Human carbonic anhydrase a powerful enzyme in chemical biotechnologies

22/06/2022 – 24/06/2022

### **RomCat2022 Conference, The 13th International Symposium of The Romanian Catalysis Society**

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Development of a novel enzyme-metal bifunctional catalyst for the dynamic kinetic resolution of chiral primary amines.

20/06/2022 – 22/06/2022

### **Summer School "CATALYSIS for PROMISING FUTURE"**

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21/04/2021 – 25/04/2021

### **The XVII edition of International Conference "Students for Students"**

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Green approaches for fragrances synthesis. Biotechnological production of anisyl-propionate.

## ● SCHOLARSHIPS

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2022 – 2023

### **WFS National Scholarship**

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World Federation of Scientists

2021 – 2022

### **Special scholarship for scientific activity**

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STAR-UBB Institute, Babeş-Bolyai University

## ● ORGANISATIONAL SKILLS

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### **Organisational skills**

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- Tendency to achieve all objectives
- Efficient time management of different activities and not allowing the results to be overdue

## ● COMMUNICATION AND INTERPERSONAL SKILLS

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### **Communication and interpersonal skills**

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- Good contact skills with children gained through teacher-training module
- Good team work skills developed while working on different projects and as a volunteer
- Ability to manage conflicts

## ● JOB-RELATED SKILLS

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### **Job-related skills**

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- Familiarized with the equipments and the processes used in the European automotive industry
- Fermentation, expression and purification of proteins
- Gel electrophoresis SDS-PAGE
- UV-vis spectrophotometry, High Performance Liquid Chromatography (HPLC)
- Development of chromatographic methods
- Preparative enzymatic synthesis of perfumes and flavors
- Preparative scale purification and isolation of proteins by fast protein liquid chromatography (FPLC)
- Analytical and preparative scale biotransformation
- Flow-biocatalysis
- The ability to work independently and take responsibility

## ● VOLUNTEERING

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2016 – 2019 Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University

### **Chemistry Student's Organization (CSO)**

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