



Paula Veronica Podea

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● WORK EXPERIENCE

01/10/2013 – CURRENT Romania

UNIVERSITY LECTURER FACULTY OF CHEMISTRY AND CHEMICAL ENGINEERING, "BABES-BOLYAI" UNIVERSITY, CLUJ-NAPOCA

Didactic activities :

- Courses, Laboratories and Seminars in field of Biocatalysis, Chemistry and Technology of Cosmetic products, Selective Biotransformations, Biochemistry, Enzymatic Technology, Food Biotechnology;
- Supervising and guidance for research work of students, master students and PhD. students;

Research activities:

- Conducting own research projects;
- Team member in research projects;

01/10/2002 – 01/10/2013 Romania

UNIVERSITY TEACHING ASSISTANT FACULTY OF CHEMISTRY AND CHEMICAL ENGINEERING, "BABES-BOLYAI" UNIVERSITY, CLUJ-NAPOCA

Didactic activities :

- Lectures, Laboratory and Seminars in field of Biochemistry, Biocatalysis, Enzymatic Technology, Food Biotechnology, Drug Biotechnology, Chemistry and Technology of Cosmetic Products;
- Supervising and guidance of research work of students, master students;

Research activities:

- Team member in research projects;

01/10/1999 – 01/10/2002 Romania

UNIVERSITY JUNIOR ASSISTANT DEPARTMENT DE CHIMIE, FACULTATEA DE CHIMIE SI INGINERIE CHIMICA, UNIVERSITATEA "BABES-BOLYAI", CLUJ

Didactic activities :

- Laboratories and Seminars -in field of Biochemistry, Enzymatic Technology, Food Biotechnology;
- Supervising and guidance of research work of students, master students;

Research activities:

- Team member in research projects;

● EDUCATION AND TRAINING

2008

DOCTOR IN CHEMISTRY, SPECIALIZATION BIOCATALYSIS- THESIS TITLE "ENZYMATIC AND MICROBIAL ASSISTED STEREOSELECTIVE REACTIONS" Faculty of Chemistry and Chemical Engineering, "Babes-Bolyai" University, Cluj-Napoca

1999 – 2000

MASTER DIPLOMA, SPECIALIZATION CATALYSIS AND BIOCATALYSIS Faculty of Chemistry and Chemical Engineering, "Babes-Bolyai" University, Cluj-Napoca

1995 – 1999

CHEMIST/ BACHELOR'S DIPLOMA , SPECIALIZATION CHEMISTRY Faculty of Chemistry and Chemical Engineering, "Babes-Bolyai" University, Cluj-Napoca

01/10/2021 – 30/07/2023 Cluj-Napoca, Romania

POSTGRADUATE DIPLOMA IN APPLIED INFORMATICS AND PROGRAMMING Technical University of Cluj-Napoca

● LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
GERMAN	A2	A2	A2	A2	A2
FRENCH	B2	B2	B2	B2	B2
ITALIAN	B1	B1	B1	B1	A2

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

● DIGITAL SKILLS

Microsoft Office | Navigare Internet | Microsoft PowerPoint | Microsoft office word | Zoom | Microsoft Excel | SQL/Oracle SQL Developer | Apex Oracle | Basic Knowledge of PHP/MySQL | C, C++ - Basic | React (basic) | Begginer HTML/CSS | Bootstrap

● ADDITIONAL INFORMATION

PUBLICATIONS

Google Scholar

https://scholar.google.ro/citations?hl=en&user=k1DZmQcAAAAJ&view_op=list_works&sortby=pubdate

37 scientific publications

319 citations

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PROJECTS

Research Projects- member

- Enantioselective enzymatic synthesis of unnatural heterocyclic amino- and hydroxy acids (2006-2008).
- The Impact of anthropic electromagnetic fields on ecosystems (2006-2008).
- New methods for separating enantiopure compounds using selective antibodies (2004-2006).
- Rehabilitation of heavy metals contaminated soils by phytoextraction methods (2004-2006).
- Enantiomer-selective enzymatic processes with applications in non-steroidal anti-inflammatory agents (2004-2005).
- Biocatalytic methodology for selective obtaining of chiral building blocks used for the synthesis of compounds with biological activity (2003-2005).
- Experimental model bioreactor-extractor for enzymatic obtaining of anti-AIDS compounds (2003-2005).
- Biotransformation of heterocyclic substrates mediated by lipases (2003-2005).
- Selective biotransformation of benzofuran derivatives (2002-2003).
- Cell biotransformation of organic compounds (2001-2002).

ORGANISATIONAL SKILLS

Organisational skills -Excellent organizational skills;

- Strategic planning;
- Task analysis;
- Time management skills;
- Good adaptability to team work;
- Excellent scientifically managerial capacity;
- Mental Organizational Skills;
- Developing strategies and planning;
- Adaptability and teamwork proficiency, with a keen ability to distribute tasks effectively among team members.
- Individually work capacity;

COMMUNICATION AND INTERPERSONAL SKILLS

- Communication and interpersonal skills** -Very communicative, dynamic, highly motivated, sociable, responsible, emphatic;
- Excellent abilities to adapt and work in any team;
 - Excellent written and verbal communication skills

AREA OF EXPERTISE

Technical skills

- Experience in enzymology, biocatalysis, bioorganic synthesis, organic synthesis.
- Excellent technical skills in compounds analysis (NMR, HPLC, GC-MS, IR, UV-Vis), chiral chromatography, proteins separation (FPLC).
- Excellent technical skills in plant extraction, in isolation, purification and analysis of organic compounds, natural bioorganic compounds (essential oils, polyphenols, flavonoids, anthocyanins, amino acids, fatty acids);
- Proficiency in assessing various biological activities, including anti-acne, anti-tyrosinase, anti-elastase, and anti-collagenase properties of plant extracts.
- Development of enzymatic-assisted extraction methods from fruits and seeds.
- Strong expertise in cosmetology and cosmetic formulation.
- Technical skills in the production of natural nanofibers through electrospinning.
- Proficiency in designing micro-level installations for organic synthesis.
- Excellent technical skills in cellular and enzymatic biocatalytic transformations, enzymatic kinetics, and the isolation and purification of enzymes/proteins.
- Development of chemoenzymatic procedures.
- Immobilization of enzymes and encapsulation of essential oils within natural nanofibers.

SPECIALIZATION STAGES

Research stages

- DAAD Research Project Stage (06/2005-12/2005) at Ludwig-Maximilian University, Munich, Germany, Department of Chemistry and Biochemistry, advised by Prof. Dr. Hendrik Zipse.
- Ceepus Research Project Stage (07/2007-08/2008) at Eötvös Loránd University, Budapest, Hungary, Faculty of Chemistry, Department of Organic Chemistry, advised by Prof. Dr. Gábor Dibó.
- Ceepus Research Project Stage (02/2003-03/2003) at the University of Pécs, Pécs, Hungary, Faculty of Chemistry, Department of Analytical Chemistry, advised by Prof. Dr. Ferenc Kilar.
- Ceepus Research Project Stage (05/2003-06/2003) at Karl-Franzen University, Graz, Austria, Institute of Pharmaceutical Chemistry, advised by Prof. Dr. Gerald Gübitz.
- Ceepus Research Project Stage (04/2002-05/2002) at Karl-Franzen University, Graz, Austria, Institute of Pharmaceutical Chemistry, advised by Prof. Dr. Gerald Gübitz.
- Ceepus Research Project Stage (02/2002-03/2002) at the University of Natural Science, Bratislava, Slovakia, Department of Analytical Chemistry, advised by Prof. Dr. Milan Hutta.
- Erasmus Short Research Stages- from 2013-2023- Faculty of Chemistry, Department of Organic Chemistry, advised by Prof. Dr. Gábor Dibó and Szent István University, Faculty of Food Science, Department of Food Chemistry and Nutrition, adviser Livia Sarkadi

Management skills

In 2015-Certified Project Manager with a diploma in project management
 In 2022-Project Manager course- Agile

DOMENII DE INTERES

Scientific interest

Bioanalytical chemistry; Extraction and analysis of bioactive compounds from plants; Bioremediation; Formulations and Cosmetology; Bioactive compounds immobilizations; Biocatalysis; Food chemistry;
