



## Europass Curriculum Vitae

### Personal information

First name/ Surname **Habil. Dr. Csaba Paizs**

Address **Babeş-Bolyai University of Cluj-Napoca, Faculty of Chemistry and Chemical Engineering, Biocatalysis and Biotransformation Research Centre, Department of Chemistry and Chemical Engineering in Hungarian Language, Arany János 11, 400028 Cluj-Napoca (Romania)**

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Citizenship **Romanian**

Nationality **Hungarian**

Date of birth **01 April 1969**

Gender **Male**

### Occupational field

**Professor**

### Work experience

Dates **01 October 1996 - 01 March 2007**

Occupation or position held **Teaching assistant, Lecturer**

Main activities and responsibilities **Education and research**

Name and address of employer **Babeş-Bolyai University, Mihail Kogălniceanu 1, Cluj-Napoca (Romania)**

Dates **01 March 2007 - 26 September 2015**

Occupation or position held **Associate Professor**

Main activities and responsibilities **Education and research**

Name and address of employer **Babeş-Bolyai University, Mihail Kogălniceanu 1, Cluj-Napoca (Romania)**

Dates **2013 →**

Main activities and responsibilities **PhD supervisor in chemical science**

Name and address of employer **Babeş-Bolyai University, Mihail Kogălniceanu 1, Cluj-Napoca (Romania)**

Dates **27 September 2015 →**

Occupation or position held **Professor**

Main activities and responsibilities **Education and research**

Name and address of employer **Babeş-Bolyai University, Mihail Kogălniceanu 1, Cluj-Napoca (Romania)**

### Education and training

Dates **15 March 2012→**

Title of qualification awarded **Habilitated Doctor in chemical science**

Dates **01 October 1996 - 15 June 2001**

Title of qualification awarded **PhD Chemistry**

Name and type of organisation providing education and training | Babeş-Bolyai University

Dates | 01 October 1994 - 15 June 1995

Title of qualification awarded | Master degree in Catalysis and Biocatalysis

Name and type of organisation providing education and training | Babeş-Bolyai University

Dates | 15 September 1989 - 14 June 1994

Title of qualification awarded | Chemical Engineer

Name and type of organisation providing education and training | Babeş-Bolyai University

Personal skills and competences

Mother tongue(s) | Romanian, Hungarian

Other language(s) | English

Self-assessment

*European level*

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C1	Proficient user	C2	Proficient user

Research interests

*Synthetic Chemistry:* Stereoselective biotransformations (lipases, esterases, oxidoreductases, ammonia-lyases and mutases, transaminases, decarboxylases, etc.)

*Biochemistry:* Enzyme mechanistic studies; Study of the stereoselectivity of enzymatic reactions at molecular level; Rational design of the enzymes, Application of molecular biology tools;

*Biotechnology:* Development of biocatalysts (enzyme immobilizations, modifications, novel lipases, hydrolases, MIO-enzymes, oxido-reductases, transaminases, decarboxylases, etc) – Development of enzymatic networks, Enzyme immobilization, Development of integrated (multi)enzymatic micro- and minireactor systems with down-stream units, for stereoselective biotransformations

*Analytical chemistry:* chromatographic separation of enantiomers and proteins

Teaching

Biochemistry, Enzymology, Biocatalysis, Biotechnology, Asymmetric Synthesis; (lectures, lab practice) Diploma supervisor since 1999 (~ 5 students / year), PhD supervisor since 2014 (4 active PhD students, 3 former PhD students, all awarded with the title of PhD in Chemistry, qualifications: 1 very good, 2 excellent)

Organisational skills and competences

Project manager of national grants for young researchers (2), Ideas (2) and Joint Applied Research Projects (1); Project responsible of national Joint Applied Research Projects (2)

Academic administration

Scientific organisation memberships

Romanian Chemical Society, Romanian Chemical Engineering Society, Transylvanian Hungarian Science and Technology Association, Regular member of the European Federation of Biotechnology, Section on Applied Biocatalysis since 2018

Committee membership

National Committee for the Accreditation of Academic Titles, Degrees and Diplomas, Chemistry and Chemical Engineering section (2011-2012), COST CM1303 action (Systems Biocatalysis, SysBiocat): Romanian Member of Committee

Referee for scientific journals

*Reaction Chemistry and Engineering, Appl. Biochem. Biotechnol., Adv. Synth. Catal., Biocat. Biotechnol., J. Mol. Catal. B, Enzym, Molecules, Plos-ONE, Proc. Biochem., Tetrahedron: Asymmetry, etc.*

Activity in scientific evaluations	Project evaluations: for national level projects for Romania - CNCSIS, Hungary - OTKA and Netherland - NWO. PhD evaluations as member of evaluation committees (in Romania and Hungary)
Technical skills and competences	Development of the Biocatalysis and Asymmetric enzymatic synthesis lab. Development of the Enzymology, Genetics and Proteomic lab. Development of Chromatography lab for Chiral separation, Development of Flow Chemistry lab.
Fellowships	<i>CIMO Postdoc fellowship</i> (University of Turku, Finland, in the group of Prof. Liisa T. Kanerva): enzymatic DKR of heteroaryl-cyanohydrins (2002) <i>EU granted Postdoc Fellowship</i> (Department of Biochemistry, University of Karlsruhe, Germany; in the group of Prof. János Rétey): MIO enzymes, transhydroxylases, phosphatases (2003-2005)
Scientific achievements	4 Monographs (co-author) – 3 book chapters (on MIO-enzymes, biofuels and enzymatic polymerization) – 93 Scientific articles (IF ~270) – citations ~ 1270 (Scopus, h-index: 19), ~1140 (Web of Science h-index: 18), ~1600 (Google Scholar, h-index: 20)– 1 Patent – ~ 65 Conference lectures / posters
Awards	The “Oláh György” prize of the Hungarian Academy of Science (2007)