



## Europass Curriculum Vitae

### Personal information

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

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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  |               |                 |                    |                 |                   |                 |         |                 |         |  |           |  |         |  |                    |  |                   |  |  |  |    |                 |    |                 |    |                 |    |                 |    |                 |
| <b>Personal skills and competences</b>                         |  |               |                 |                    |                 |                   |                 |         |                 |         |  |           |  |         |  |                    |  |                   |  |  |  |    |                 |    |                 |    |                 |    |                 |    |                 |
| Mother tongue(s)   | <b>Romanian, Hungarian</b>   |               |                 |                    |                 |                   |                 |         |                 |         |  |           |  |         |  |                    |  |                   |  |  |  |    |                 |    |                 |    |                 |    |                 |    |                 |
| Other language(s)  | <b>English</b>   |               |                 |                    |                 |                   |                 |         |                 |         |  |           |  |         |  |                    |  |                   |  |  |  |    |                 |    |                 |    |                 |    |                 |    |                 |
| Self-assessment  |  |               |                 |                    |                 |                   |                 |         |                 |         |  |           |  |         |  |                    |  |                   |  |  |  |    |                 |    |                 |    |                 |    |                 |    |                 |
| <i>European level</i>  |  |               |                 |                    |                 |                   |                 |         |                 |         |  |           |  |         |  |                    |  |                   |  |  |  |    |                 |    |                 |    |                 |    |                 |    |                 |
| <b>English</b>   |  |               |                 |                    |                 |                   |                 |         |                 |         |  |           |  |         |  |                    |  |                   |  |  |  |    |                 |    |                 |    |                 |    |                 |    |                 |
|  | <table border="1"> <thead> <tr> <th colspan="4">Understanding</th> <th colspan="4">Speaking</th> <th colspan="2">Writing</th> </tr> <tr> <th colspan="2">Listening</th> <th colspan="2">Reading</th> <th colspan="2">Spoken interaction</th> <th colspan="2">Spoken production</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>C2</td> <td>Proficient user</td> <td>C2</td> <td>Proficient user</td> <td>C2</td> <td>Proficient user</td> <td>C1</td> <td>Proficient user</td> <td>C2</td> <td>Proficient user</td> </tr> </tbody> </table>   | Understanding |                 |                    |                 | Speaking          |                 |         |                 | Writing |  | Listening |  | Reading |  | Spoken interaction |  | Spoken production |  |  |  | C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C1 | Proficient user | C2 | Proficient user |
| Understanding  |  |               |                 | Speaking           |                 |                   |                 | Writing |                 |         |  |           |  |         |  |                    |  |                   |  |  |  |    |                 |    |                 |    |                 |    |                 |    |                 |
| Listening  |  | Reading       |                 | Spoken interaction |                 | Spoken production |                 |         |                 |         |  |           |  |         |  |                    |  |                   |  |  |  |    |                 |    |                 |    |                 |    |                 |    |                 |
| C2   | Proficient user  | C2            | Proficient user | C2                 | Proficient user | C1                | Proficient user | C2      | Proficient user |         |  |           |  |         |  |                    |  |                   |  |  |  |    |                 |    |                 |    |                 |    |                 |    |                 |
| <b>Research interests</b>                                      | <p><i>Synthetic Chemistry:</i> Stereoselective biotransformations (lipases, esterases, oxidoreductases, ammonia-lyases and mutases, transaminases, decarboxilases, etc.)</p> <p><i>Biochemistry:</i> Enzyme mechanistic studies; Study of the stereoselectivity of enzymatic reactions at molecular level; Rational design of the enzymes by molecular biology tools;</p> <p><i>Biotechnology:</i> 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</p> <p><i>Analytical chemistry:</i> chromatographic separation of stereoisomers and proteins</p> |               |                 |                    |                 |                   |                 |         |                 |         |  |           |  |         |  |                    |  |                   |  |  |  |    |                 |    |                 |    |                 |    |                 |    |                 |
| <b>Teaching</b>  | Biochemistry, Enzymology, Biocatalysis, Biotechnology, Asymmetric Synthesis; (lectures, lab practice) Diploma supervisor since 1999 (~ 5 students / year), PhD supervisor since 2014 (4 active PhD students, 5 former PhD students, all awarded with the title of PhD in Chemistry, qualifications: 1 very good, 4 excellent)  |               |                 |                    |                 |                   |                 |         |                 |         |  |           |  |         |  |                    |  |                   |  |  |  |    |                 |    |                 |    |                 |    |                 |    |                 |
| <b>Organizational skills and competences</b>                   | 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)   |               |                 |                    |                 |                   |                 |         |                 |         |  |           |  |         |  |                    |  |                   |  |  |  |    |                 |    |                 |    |                 |    |                 |    |                 |
| <b>Academic administration</b>                                 | Director of the Department of Chemistry and Chemical Engineering in Hungarian Language<br>Head of the Enzymology and Applied Biocatalysis Research Centre  |               |                 |                    |                 |                   |                 |         |                 |         |  |           |  |         |  |                    |  |                   |  |  |  |    |                 |    |                 |    |                 |    |                 |    |                 |
| <b>Scientific organization memberships</b>                     | External Member of the Hungarian Academy of Sciences, Romanian Catalysis Society, Regular member of the European Society of Applied Biocatalysis   |               |                 |                    |                 |                   |                 |         |                 |         |  |           |  |         |  |                    |  |                   |  |  |  |    |                 |    |                 |    |                 |    |                 |    |                 |
| <b>Committee membership</b>                                    | Vice-President of the Regional Committee of the Hungarian Academy of Sciences, President of the Commission for Chemical Sciences<br>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  |               |                 |                    |                 |                   |                 |         |                 |         |  |           |  |         |  |                    |  |                   |  |  |  |    |                 |    |                 |    |                 |    |                 |    |                 |

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| <b>Referee for scientific journals</b>    | <i>Reaction Chemistry and Engineering, Appl. Biochem. Biotechnol., Adv. Synth. Catal., Biocat. Biotechnol., J. Mol. Catal. B, Enzym, Catal. Plos-ONE, Proc. Biochem., Tetrahedron: Asymmetry, Catalysis Lett., Catal. Today, Nature Catalysis, etc.</i>  |
| <b>Activity in scientific evaluations</b> | 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)  |
| <b>Technical skills and competences</b>   | 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.   |
| <b>Fellowships</b>                        | <i>CIMO Postdoc fellowship</i> (University of Turku, Finland, in the group of Prof. Liisa T. Kanerva): enzymatic DKR of heteroaryl-cyanohydrins (2002)<br><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) |
| <b>Scientific achievements</b>            | 4 Monographs (co-author) – 4 book chapters (on MIO-enzymes, biofuels and enzymatic polymerization) – 120 Scientific articles (IF ~500) – citations ~ 2100 (Scopus, h-index: 26), ~1900 (Web of Science h-index: 24), ~2850 (Google Scholar, h-index: 29)– 1 Patent – ~ 65 Conference lectures / posters  |
| <b>Awards</b>                             | The Oláh György prize of the Hungarian Academy of Science (2007)<br>The Arany János prize of the Hungarian Academy of Science (2022)   |

**Link of my public profiles:**

Google Scholar: <https://scholar.google.com/citations?user=dfzb1IMAAAAJ&hl=en&oi=ao>

ResearchGate: [https://www.researchgate.net/profile/Csaba\\_Paizs](https://www.researchgate.net/profile/Csaba_Paizs)

ORCID: <https://orcid.org/0000-0002-7403-7098>

ResearcherID (Publons): <https://publons.com/researcher/1418630/csaba-paizs/>

Scopus ID: 6603023757

Cluj-Napoca

September 03, 2024

Prof. Habil. Dr. Eng. Paizs Csaba