

Europass Curriculum Vitae



Personal information

First name/ Surname

Dr. Gergely Bánóczi

Address

Babeş-Bolyai University of Cluj-Napoca, Faculty of Chemistry and Chemical Engineering, Department of Chemistry and Chemical Engineering in Hungarian Language, Arany János 11, 400028 Cluj-

Napoca (Romania)

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Citizenship Hungarian

Nationality Hungarian

Date of birth 05 April 1987

Gender | Male

Occupational field Research associate

Work experience

Dates | 01 July 2008 - 01 August 2008

Occupation or position held | BSc student trainee

Main activities and responsibilities | Administration at syringe production

Name and address of employer | Sanofi-Aventis Csanyikvölgy Factory, Csanyik völgy 3., 3535 Miskolc (Hungary)

Dates | 01 March 2010 - 01 August 2010

Occupation or position held MSc student trainee

Main activities and responsibilities Research on computational design of selective acetylcholinesterase inhibitors

Name and address of employer | Gedeon Richter Pharmaceutical, Gyömrői út 19., 1103 Budapest (Hungary)

Dates | 14 February 2011 - 31 August 2011

Main activities and responsibilities | Synthesizing on-demand, potentially bioactive molecules.

Name and address of employer | Bioblocks LTD, Berlini út 47-49., 1045 Budapest (Hungary)

Dates | 01 November 2012 - 31 May 2013

Occupation or position held | Scientist

Main activities and responsibilities | Implementation of new LogP and pKa prediction methods in the Pallas software suite.

Name and address of employer | Compudrug LTD, 286 Balbay Dr. # 1A Bal Harbor, FL 33154 Florida (USA)

Dates 01 March 2015 - 31 June 2015

Main activities and responsibilities | Designing engineer in the field of bioethanol production.

Name and address of employer Károly Róbert University College - Research and Educational Laboratory, Tass puszta, 3213 Atkár

(Hungary)

Dates | 01 January 2015 - 31 October 2015

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Occupation or position held

Scientist

Main activities and responsibilities

Scientist in the research field of coeliac disease.

Name and address of employer

Hungarian Academy of Sciences - Agricultural Institute, Centre of Agricultural Research, Brunszvik utca 2., 2462 Martonvásár (Hungary)

Education and training

Dates

September 2011 - September 2017

Title of qualification awarded

PhD in Chemistry, summa cum laude

Name and type of organisation providing education and training

George Olah Doctoral School of Chemistry and Chemical Technology at Budapest University of Technology and Economics (BME), Hungary

Topic

Computational and experimental enzyme engineering.

Dates

February 2009 - June 2011

Title of qualification awarded

Master's degree in chemical engineering

Name and type of organisation providing education and training

Department of Organic Chemistry and Technology, Budapest University of Technology and

Economics (BME), Hungary

Topic

Computer-aided drug design and development.

Dates

September 2005 - January 2009

Title of qualification awarded

Bachelor's degree in chemical engineering

Name and type of organisation providing education and training

Department of Organic Chemistry and Technology, Budapest University of Technology and

Economics (BME), Hungary

Topic

Synthesis of *Phenserine* analogues

Personal skills and competences

Hungarian

Mother tongue(s)
Other language(s)

English, German

Self-assessment

European level

English

German

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C2	C2	C2
B2	B2	B2	B2	B2

Research interests

Synthetic Organic Chemistry. design and implementation of synthesis of organic compounds from mg to several gramm scale, stereoselective biotransformations (lipases, phenylalanine ammonia-lyases and aminomutases)

Biochemistry and Biotechnology. enzyme mechanistic studies, development of novel biocatalysts (ω -transaminases, lipases/esterases, phenylalanine ammonia-lyases and aminomutases).

Modelling of molecular processes: computational modelling and statistical analysis of molecular level phenomena focusing on thermal or biocatalytic reactions of organic compounds.

Analytical chemistry. characterization of the structures and absolute configurations of organic compounds.

Laboratory skills

Synthesis of organic compounds and their analytics with MS, NMR, ECD, HPLC, TLC, UV-VIS, polarimetry.

Performing enzyme activity and kinetics tests.

Computer skills

Experience with Linux server administration and computer infrastructure.

Extensive experience with computational modeling to rationalize and predict molecular level

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phenomena with i.e. QM/MM, induced-fit docking, molecular dynamics, Monte Carlo methods, quantum chemistry, molecular mechanics, mathematical statistics, statistical mechanics.

Extensive experience with the use of numerous (computational) software (i.e. Gaussian, Schrodinger Suite, Rosetta, FoldX, MRCC, Orca, Mathematica, MATLAB, Statistica, MS Office, Linux, Windows)

Programming in Python and R languages

Awards

Gedeon Richter Centenary Foundation, financial support of PhD studies, September 2015 – February 2016

Driving license

Category B

Major sports results

Hungarian National Weightlifting Championship of Colleges and Universities:

6. place, in 77-85 kg category, 2008,

7. place, in 85-94 kg category, 2009;

Kyokushin karate 5. kyu

Other skills and Competence

Studies in musical theory, performance with recorder, flute, piano, and guitar

Publication List:

- 1. Lipase-catalysed kinetic resolutions of racemic 1-(10-ethyl-10-*H*-phenothiazin-1,2 and 4-yl)ethanols and their acetates, Jürgen Brem, Sarolta Pilbák, Csaba Paizs, Gergely Bánóczi, Florin-Dan Irimie, Monica-Ioana Toşa, László Poppe, *Tetrahedron Asymmetry*, 2011, *22* (8), 916-923. IF: 2.165
- 2. Molecular modeling in biotechnology, Gergely Bánóczi, Klaudia Kovács, Gábor Hornyánszky,
 Beáta G. Vértessy, László Poppe, *Proceeding of the PhD Conferences organised by the Doctoral Schools of the BME, in the framework of TÁMOP-4.2.2/B-10/1-2010-0009* **2012**, IF:-
- 3. A convenient method for the preparation of cyclohepta[b]indole derivatives, Katalin Kupai, Gergely Bánóczi, Gábor Hornyánszky, Pál Kolonits, Lajos Novák; *Central European Journal of Chemistry*, 2012, *10(1)*, 91-95. IF: 1.167
- 4. Facile Synthesis of Cycloalkanoindole Derivatives by aza-Claisen Rearrangement. Katalin Kupai, Gergely Bánóczi, Gábor Hornyánszky, Pál Kolonits, Lajos Novák; *Monatshefte für Chemic/Chemical monthly,* 2012, *42 (12)*, 1663-1669. IF: 1.629
- 5. Expression and properties of the highly alkalophilic phenylalanine ammonia-lyase of thermophilic *Rubrobacter xylanophilus*, Klaudia Kovács, Gergely Bánóczi, Andrea Varga, Izabella Szabó, András Holczinger, Gábor Hornyánszky, Imre Zagyva, Csaba Paizs, Beáta G. Vértessy, László Poppe, *PLOS-ONE*, 2014, *9(1)*, e85943. IF:3.730
- 6. Structural modeling of phenylalanine ammonia-lyases and related MIO-containing enzymes an insight into thermostability and ionic interactions, Gergely Bánóczi, Csongor Szabó, Zsófia Bata, Gábor Hornyánszky, László Poppe, *STUDIA UBB CHEMIA*, 2015, 60(4), 213-228. IF: 0.136
- 7. Phenylalanine Ammonia-Lyase-Catalyzed Deamination of an Acyclic Amino Acid: Enzyme Mechanistic Studies Aided by a Novel Microreactor Filled with Magnetic Nanoparticles, Diána Weiser, László Csaba Bence, Gergely Bánóczi, Ferenc Ender, Róbert Kiss, Eszter Kókai, András Szilágyi, Beáta G. Vértessy, Ödön Farkas, Csaba Paizs, László Poppe, *ChemBioChem,* 2015, *16(16)*, 2283-2288. IF: 3.088
- 8. Influence of the aromatic moiety in α- and β-arylalanines on their biotransformation with phenylalanine 2,3-aminomutase from *Pantoea agglomerans*, Andrea Varga, Gergely Bánóczi, Botond Nagy, László Csaba Bencze, Monica Ioana-Toşa, Ákos Gellért, Florin Dan Irimie, János Rétey, László Poppe, Csaba Paizs, *RSC Advances*, 2016, *6*, 56412-56420. IF: 3.289

- 9. Bioimprinted lipases in PVA nanofibers as efficient immobilized biocatalysts, Diána Weiser, Péter L. Sóti, Gergely Bánóczi, Viktória Bódai, Bálint Kiss, Ákos Gellért, Zsombor K. Nagy, Béla Koczka, András Szilágyi, György Marosi, László Poppe, *Tetrahedron*, 2016, 72(46). 7335-7342. IF: 2.645
- 10. Expanding the substrate scope of phenylalanine ammonia-lyase from *Petroselinum crispum* towards styrylalanines, László Csaba Bencze, Alina Filip, Gergely Bánóczi, Monica-Ioana Toşa, Florin-Dan Irimie, Ákos Gellért, László Poppe, Csaba Paizs, *Organic and Biomolecular Chemistry*, 2017, *15*, 3717–3727. IF: 3.559
- 11. Immobilization engineering How to design advanced sol-gel systems for biocatalysis?, Diána Weiser, Flóra Nagy, Gergely Bánóczi, Márk Oláh, Attila Farkas, András Szilágyi, Ákos Gellért, György Marosi, Sándor Kemény, László Poppe, *Green chemistry*, 2017, *16*, 3927-3937. IF: 9.125