
CURRICULUM VITAE

Carmen Gabriela Boeriu, PhD

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GENERAL INFORMATION

Date of birth:

Nationality &
Citizenship:

Current Position: Senior Scientist, Division Biobased Products, Wageningen Food and Biobased Research, The Netherlands

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EDUCATION

- 1989 PhD in Chemical Engineering, Technical University of Timisoara, Romania
Thesis: Enzymatic removal of phenols, chlorinated phenols and aromatic amines from waste waters. Supervisor: Prof. dr. V. Cochei, Member of the Romanian Academy of Sciences
- 1978 Diplomate Engineer, Organic Chemistry and Technology (*magna cum laude*), Technical University of Timisoara, Romania.
Thesis: Synthesis of oxazol and imidazol heterocycles from isocyanates. Supervisor: Prof. Dr. Radu Bacaloglu
- 1973 Baccalaureate (*cum laude*); Lyceum C. D. Loga, Timisoara, Romania
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GRANTS

- 1986 UNDP grant, internship in the Department of Applied Enzymology, at Massachusetts Institute of Technology (MIT), Boston, USA.
Mentor: Prof. Dr. A.M. Klibanov.
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SHORT COURSES

- 1998 Communication, Wageningen, The Netherlands
- 1999, 2001 Project management (1 and 2), Wageningen, The Netherlands
- 2004 Communication – External advice, Wageningen, The Netherlands
- 2005 Management of human resources, Wageningen, The Netherlands
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EMPLOYMENT RECORD

RESEARCH EMPLOYMENT

- 1997 - present Research scientist at Wageningen UR Food & Biobased Research, Wageningen, the Netherlands.
Positions: Senior Scientist (2002-present), Junior Researcher (1997-2002).
- 1991 - 1997 Visiting scientist at Agrotechnological Research Institute (ATO-DLO, currently WUR FBR), Wageningen, The Netherlands.
- 1982 - 1991 Research scientist at the Institute of Chemical and Biochemical Energetics - ICECHIM-IECB, Timisoara, Romania. Department of Applied Enzymology..
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Positions: Junior Researcher (1982-1989); Senior Researcher (1989-1991)

ACADEMIC EMPLOYMENT

2005 - 2015	Full professor (modular program) at the University "Aurel Vlaicu" of Arad, Romania, Department of Biological Sciences.
2004	Docent (part time), department of Valorisation of Plant Production Chains at Wageningen University, The Netherlands
2004	Associate Professor (visiting) at the University Politehnica of Timisoara, Romania.
1991 - 1997	Lecturer (1991-1995) and Associate professor (1991-1997) at the West University of Timisoara, Romania, Department of Chemistry.

EMPLOYMENT WITH INDUSTRY

1978 – 1982	Process technolog, at Petrochemical Works "Solventul", Timisoara, Romania (Industry); responsible for the production and the quality control of plasticizers (DOP, DBF)
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EXPERTISE AND OTHER COMPETENCES

Organic chemistry	Synthesis, kinetics and mechanism of reactions
Applied biocatalysis	Enzyme reactions in both aqueous and non-conventional media Biocatalytic processes for the production of building blocks and fine and bulk chemicals from renewable resources Process optimisation; immobilization of enzymes and cells
Separation technology	Chromatographic separation (GPC, Flash chromatography, ion exchange, affinity chromatography, etc), extraction, (electro)dialysis, crystallization, ultrafiltration.
Biopolymers:	Polysaccharides & proteins: isolation, characterisation, modification (chemical and enzymatic) Lignin: characterisation, enzymatic modification
Analytical chemistry	Chromatography (GC, HPLC, GPC, HPAEC, GC-MS, LC-MS) Spectroscopy for chemical and biochemical applications : UV-VIS, Fluorimetry, FT-IR (MID and NIR), NMR, MS
Data analysis	Multivariate statistical analysis (PCA, PLS, discrimination analysis)
Project management	
Acquisition of projects	

HONOURS AND AWARDS

2007	Position of <i>Excellent Researcher</i> of DLO organisation, Wageningen University and Research Centre, Wageningen, The Netherlands
2003	Academic title of <i>Honorary Professor</i> of the University "Aurel Vlaicu" Arad, Romania

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

Royal Dutch Chemical Society (KNCV) and Dutch Society of Biotechnology (NBV)
EPNOE Association & European Polysaccharide Network of Excellence (EPNOE)
American Peptide Society
European Federation of Biotechnology (EFB)
European Society of Applied Biocatalysis (ESAB)
Romanian Society of Chemical Engineers, Romanian Chemists Society

APPOINTMENTS

- 2011 - 2013 Member of the Commission for Attesting Scientific Titles, Diplomas and Academic Certificates of the Romanian Ministry of Education, Research, Youth and Sports.
Domain: Engineering of Vegetable and Animal Products
- 2011 International expert for the Evaluation panel of the Executive Agency for Higher Education Research Development and Innovation (Romania), for the assessment of research performance of universities.
- 2011 - 2012 Carbohydrate Polymers, Editor special issue EPNOE 2011
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ORGANIZATION OF INTERNATIONAL CONFERENCES AND COURSES

Conferences

- 2019 6th International Polysaccharide Conference (EPNOE 2019), 7-11 October 2019, Aveiro, Portugal, member of the scientific committee
- 2018 2nd Conference on Food Bioactives and Health, 26-28 September 2018, Lisbon, Portugal; Member scientific committee, chair session,
- 2016 8th Oxizymes Meeting, Oxizymes 2016, 3-6 July 2016, Wageningen, the Netherlands, Member organizing committee
- 2015 4th International Polysaccharide Conference "Polysaccharides and Polysaccharide-based advanced materials: From Science to Industry" (EPNOE 2015), 19-22 October 2015, Warsaw, Poland, member of the scientific committee
- 2013 3rd International Polysaccharide Conference "Polysaccharides and polysaccharide-derived products, from basic science to applications" (EPNOE 2013), 21-24 October 2016, Nice, France; member of the scientific committee
- 2011 2nd International Polysaccharide Conference "Polysaccharides as Source of Advanced and Sustainable Products" (EPNOE 2011), 29.08-2.09.2011, Wageningen, The Netherlands. Chairman of the Conference Organizing Committee and Program Committee
- 2008 12th Netherlands Biotechnology Congress "Biotechnology: Crossing Borders", 13-14, 2008. Ede, the Netherlands; chairman for session Industrial Biotechnology
- 2006 3rd International Conference in Biocatalysis for Food and Drinks Industry, 24-26 September 2006, Wageningen, The Netherlands; Member in the Organizing Committee and the Scientific Committee. Session chairman

Courses

- 2011 One-day pre-conference course "Tools in Polysaccharide Engineering"; 28.08.2011, Wageningen, The Netherlands. Member of the Course organizing Committee
- 2009 One-day course "Immobilization of Biocatalysts", in the frame of the integrated EU project Bioproduction, 7.10.2009, Thessaloniki, Greece
1st International Conference on Industrial Microbiology and Applied Biotechnology", 9-11 October 2008, Galati, Romania; Member of the Scientific Committee and session chairman
- 2008 Two days Course "Biobased Products", in the frame of the integrated EU project Bioproduction, 2.08. 2008, Stockholm, Sweden; Course Organizer
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CO-PROMOTOR PhD THESIS/PROGRAMS

At Wageningen University (NL): eight PhD students/programs

Supervised the international research programs of five (5) PhD students from University Politehnica of Timisoara, (RO), one (1) PhD student from University Dunarea de Jos, Galati (RO), and one (1) PhD student from University of Pays Basque, Bilbao (Spain)

MEMBER of PhD THESIS COMMITTEES

Wageningen University, The Netherlands (2007, 2008, 2010, 2011, 2016, 2019)
Technical University Dresden, Germany (2016)
University of Groningen, The Netherlands (2014)
University Politehnica of Timisoara, Romania (2011, 2012, 2013, 2015)
University of Pays Basque, Bilbao, Spain (2012)
University "Lower Danube", Galati, Romania (2011)
West University of Timisoara, Romania (2009)
Paris-Sud University, U.F.R. Scientifique Orsay, France (2006)
University of Agricultural Sciences and Veterinary Medicine, Timisoara, Romania (2005)

EXPERT EVALUATOR RESEARCH PROGRAMS

2009-2015 Evaluator of research projects for the National Authority for Scientific
Research of the Romanian Government
2008 Evaluator for Austrian Science Fund, Elise Richter Program
2007 Evaluator for Netherlands Science Organization (NWO), Chemical Science,

LANGUAGE SKILLS

	Mother tongue		
	<i>Understanding</i>	<i>Speaking</i>	<i>Writing</i>
Romanian			
English	very good	very good	very good
Dutch	very good	good	good
French	very good	very good	very good

SCIENTIFIC PRODUCTIVITY

Peer reviewed journals	82	Books (editor)	1
Book chapters	4	Invited lectures	30
Conference proceedings	40	Oral presentations	40
Patents	12	Projects	>80

Carmen G. Boeriu

Wageningen, 12-09-2020

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