



First name(s)/Surname(s) BUTNARIU, Monica

Address(es) Calea Aradului (Street), no. 119, Timisoara, Timis County

Telephone(s) +400256277464 **E-mail** monicabutnariu@yahoo.com/monica_butnariu@usab-tm.ro

Date of birth 07/03/1971 **Nationality** Romanian **Gender** Female

Desired employment / Occupational field *Ph.D. associate professor, Chemistry & Biochemistry Discipline, Banat's University of Agricultural Sciences and Veterinary Medicine from Timisoara, (USAMVB Timisoara),*
Teaching chemistry and biochemistry plant (specific disciplines).
Studies and applied research: Investigation heavy metal pollution of soil/plants, the influence of heavy metals on chemical composition of plants, identification of species for bio monitoring, obtaining/characterization/use of pharmacological effects of active principles, interrelations of plant nutrition/ metabolism.
Research Interests: Chemistry and Analytical Biochemistry; Analytical research for quantification of chemical and biological parameters using biomarkers. Mechanisms by which complex mixtures of plant compounds interact to modulate biological activity. Influence of environmental factors on life style; Research on natural compounds or active principles of plants; Influence of metabolism on the immune-stimulating activity of medicinal plant constituents. Develop approaches for the chemical characterization of medicinal plants and plant mixtures using different methods. Mechanisms of metals uptake into root and translocation to shoot, accumulation of heavy metals in plants.
Knowledge: food quality, safety and functional foods/functional bioproducts, biocompounds in food matrices.

Work experience

Dates 1 October 2008–present

Occupation or position held Associate Professor

Main activities and responsibilities Teaching includes activities broader than classroom instruction; evaluate the training requirements of the student (tips and processes to ensure work-related skills, techniques and knowledge.) research activity

Name and address of employer Chemistry/Vegetal Biochemistry, USAMVB Timisoara

Type of business or sector field of educational (volitional mediators of cognitive–behavior–consistency) applicants from different chemistry specific disciplines chemistry/biochemistry of plant

Dates 1 March 1998–1 March 2003, 1 March 2003–1 March 2005, 1 March 2005–1 October 2008

Occupation or position held Preparatory, Assistant Professor, Lecturer

Main activities and responsibilities Teaching includes activities broader than classroom instruction; evaluate the training requirements of the student (tips and processes to ensure work-related skills, techniques and knowledge.), research activity.

Name and address of employer Chemistry/Vegetal Biochemistry, USAMVB Timisoara

Type of business or sector field of educational (volitional mediators of cognitive–behavior–consistency) applicants from different chemistry specific disciplines chemistry/biochemistry of plant

Education and training

Dates 1 October, 2011–1 June 2012

Title of qualification awarded Postdoctoral Studies: "*Formulation and evaluation of dermato–cosmetic products*"

Principal subjects/occupational skills covered field of dermato-cosmetic sciences, chemical quality and toxicity of cosmetics, and galenics, formulation and efficacy of dermatologic or cosmetic,

Name and type of organisation providing education and training "Victor Babes" University of Medicine and Pharmacy of Timisoara

Level in national or international classification ISCED 6

Dates 1 October, 2010–1 June 2011

Title of qualification awarded Postgraduate specialization: "*Pollution, environmental protection and management*"

Principal subjects/occupational skills covered "Transylvania" University, Brasov, Materials Science and Engineering Faculty, Dissertation thesis: "*Evaluation some plant species for tolerance to heavy metals and bio monitoring*"

Name and type of organisation providing education and training "Transylvania" University, Brasov, Materials Science and Engineering Faculty

Level in national or international classification ISCED 6

Dates 1999–2005

Title of qualification awarded PhD in sciences

Principal subjects/occupational skills covered thesis "*Researches on the heavy metals content in the Banat's soils and the consequences on the environment*"

Name and type of organisation providing education and training	Banat's University of Agricultural Sciences and Veterinary Medicine from Timisoara
Level in national or international classification	ISCED 6
Dates	1 October, 1998–1 June 1999
Title of qualification awarded	Postgraduate specialization: Master magister
Principal subjects/occupational skills covered	Master in <i>Technologies of Non-Pollutant Processes</i> with the dissertation work: " <i>Studies concerning the process of elimination of the phosphate ion through ionic exchange</i> "
Name and type of organisation providing education and training	Polytechnic University Timisoara, Industrial Chemistry and Environmental Engineering Faculty,
Level in national or international classification	ISCED 6
Dates	1992–1997
Title of qualification awarded	Bachelor of science
Principal subjects/occupational skills covered	I attended specialization chemistry and related activities
Name and type of organisation providing education and training	West University, Chemistry–Biology–Geography Faculty, Chemistry Specialty
Level in national or international classification	ISCED 5

Personal skills and competences

Mother tongue(s) **Romanian**

Self-assessment

European level (*)

ENGLISH

FRENCH

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B1	User independent	B1	User independent	B1	User independent	B1	User independent	B1	User independent
B1		B1		B1		B1		B1	

(*) *Common European Framework of Reference for Languages*

Social skills and competences

Written and verbal communication skills, at university level usually and generally excellent communication abilities at different levels. Qualities and skills to set easy personal relationships and to be an agreeable interlocutor. The general knowledge, the relation capacity and self-control, perspicacity in the noticing the essence of the phenomena, straightforwardness and spontaneity in action and adaptability for new situations. Availability to work, energy, responsibility, sincerity and seriousness, uses its knowledge of human relationships to impose and develop self-esteem.

Organisational skills and competences

Actions of planning/ coordinating of research or consulting activities with students in of practical training and for prepare for graduate study. Organizing of academic conferences, also feature panel discussions, round tables on various issues and workshops. **Editor, reviewer and member of editorial boards journals:** (1) **Banat's Journal of Biotechnology** [Editor–In–Chief] [<http://www.bjbabe.ro/editorial-staff/>; DOI–Cross Ref, Chemical Abstracts (CAS), COPE, ProQuest–IBSS, Academic Search Premier (EBSCO), CABI (Centre for Agriculture and Biosciences International), DOAJ (Directory of Open Access Journals)] ISSN 2068–4673; (2) **Biochemical Compounds**, [editorial boards] [<http://www.hoajonline.com/biochemcomp/editorialboard>; PubMed Central, the US National Library of Medicine's]; (3) **Biochemistry & Analytical Biochemistry** [<http://www.omicsonline.org/editorialboard/Biochem.php>, PubMed DOI–CrossRef.], [editorial boards] ISSN: 2161–1009; (4) **E3 Journal of Environmental Research and Management**, ISSN 2141–7466, [Editor] [<http://www.e3journals.org/editorialBoard.php?type=editors&jid=5>]; (5) **Insight Biotechnology**, (assigned to DOI–CrossRef.); ISSN: 2040–8331. **Insight Knowledge Limited**, London, *England* [editorial boards]; (6) **Interactive Medicinal Chemistry**, [editorial boards] [<http://www.hoajonline.com/medchem/editorialboard>; PubMed Central, the US National Library of Medicine's]; (7) **International Journal of Agriculture and Biosciences** [Associate Editors] [<http://www.ijagbio.com/editorial-board/>] ISSN 2305–6622; (8) **International Journal of Applied Sciences and Engineering** [editorial boards] [<http://www.ijapscengr.com/editorial-board/>] (IJASE); (9) **International Journal of Food Science, Nutrition and Dietetics** [editorial boards] [http://www.scidoc.org/editorial_board.php?id=4] ISSN 2326–3350; (10) **International Research Journal of Pure and Applied Chemistry** [Academic Editors] [<http://www.sciencedomain.org/editorial-board-members.php?id=7>] ISSN 2231–3443; (11) **Journal of Analytical & Bioanalytical Techniques** [editorial boards] (PubMed, DOI–CrossRef, <http://www.omicsonline.org/EditorialboardJABT.php>); ISSN: 1255–9872; (12) **Journal of Bioequivalence & Bioavailability** ISSN: 0975–0851; [editorial boards] (<http://www.omicsonline.org/EditorialboardJBB.php>, PubMed assigned to DOI–CrossRef.), OMICS, Los Angeles, USA; (13) **Journal of Ecosystem & Ecography** [editorial boards] ISSN: 2157–7625; (<http://www.omicsonline.org/EditorialboardJEE.php>, Pub Med DOI–CrossRef.); (14) **Journal of Pharmacogenomics & Pharmacoproteomics** [editorial boards] (<http://www.omicsonline.org/EditorialboardJPP.php>, PubMed, DOI–CrossRef.); ISSN: 2153–0645. (15) **Journal of Plant Physiology and Biochemistry** (IJPPB) [Editorial Team International] (PubMed DOI–Cross Ref, Covered by Chemical Abstracts (CAS) <http://www.academicjournals.org/ijppb/Email.htm>); (16) **World Research Journal of Applied Medicinal Chemistry** [editorial boards] (<http://www.biointopublication.org/journal.php?opt=azjou&jouid=BPJ0000275&detail=editorial#>) ISSN: 2230–9314.

Technical skills and competences

Instrumental analysis techniques specific quantitative determinations typical chemical disciplines, specific (ChemDraw, Chemical Structure Drawing Software, Multimedia Chemistry Educational Softwar etc.) and some types of equipment that are used for detection of chemical compounds.

Computer skills and competences The use of the general computer (Word Programme, Excel and the Internet, etc.)

Artistic skills and competences

5 patents [RO122836-B1, RO125201-A2, RO122952-B1, RO122834-B1 and RO122893-B1 (<http://apps.webofknowledge.com>)]. Gold and Silvers Medals for patents appreciated in the inventics salons and exhibitions: National (Bucharest, Iasi and Cluj) and International (Geneva, Bruxelles, Zagreb, Seul, and Budapest) (http://www.ancs.ro/rol_articol/1764/instrumente-suport-targuri-si-expozitii-medalii-si-premii), Expert evaluator CNCSIS, CEEEX, PNCD 2. Expert independent assessment projects under the program Capacities-Module III and preparing the recommendation (National Authority for Scientific Research, European Integration and International Cooperation Department). National Register of Evaluators (RNE), C9-Biotechnologies (8). Attendance in academic management training session "Improving University Management". *Keynote Speakers invited* 19th International Conference on Environmental Indicators, 11-14/09/2011 Technion (Israel Institute of Technology), Haifa, Israel. Evaluator international projects (DSRKingAbdulazizUniversity, SaudiArabia, e-mail: dsr.res@kau.edu.sa), Members Scientific Committee of *3rd International Conference on Gastroenterology* (GASTROENTEROLOGY '12) (<http://www.naun.org/wseas/cms.action?id=1943>), International Program Committee Members of *Recent researches in medicine and medical chemistry* (<http://www.wseas.org/multimedia/books/2012/Kos/MEDICAL.pdf>), 2nd International Conference on Biodefense&Natural Disasters, Orlando, Florida, USA August 21-23, 2013 (<http://www.omicsgroup.com/conferences/biodefense-natural-disasters-2013/scientific-programme.php?day=2&sid=158&date=2013-08-22>).

Other skills and competences

Trainings/international collaborations and post-academic courses: September, 2006-training course carried out by the National Institute of Research (INRA), Centre de Recherché Toulouse, Toulouse, *Franta*. March 2007-Advanced HACCP Course-Auditing and maintaining a functional HACCP system, United States Department of Agriculture. May, 2007-Persistent pollution Course: Past, Present and Future-Reconstruction for the assessment of state and changes in the meteo-marine environment, GKSS Summer School, Institute of Coastal Research Research Centre; Lüneburg, *Germania*. June, 2007, 3rd Summer School of Environmental Chemistry and Ecotoxicology Course 2007, Summer School of Environmental Chemistry and Ecotoxicology organized de RECETOX, Research Centre of Excellence for Environmental Chemistry and Ecotoxicology, Brno, *Czech*. July 2007, Training Courses for Research Managers, attended the training courses within the framework of the Workshop How to Write a Competitive Proposal from Framework 7 (Fp7) Romanian Association of Research Managers and Administrations in collaboration with HYPERION Ltd Ireland. March 2008, Course of Validation of the laboratory chemical methods, certificate no. A/461/2008, ASRO-Romania; July 2008, REP-LECOTOX 1st Ecotoxicogenomics: the challenge of integrating genomics/proteomics/metabolomics into aquatic, terrestrial ecotoxicology, Novi Sad, *Serbia*. *October to December 2010* (81 h). Course "*Project Manager*", Certificate 00116056, code COR 241919. *May-June 2011*. Course "*Manager of Quality Management System*", Certificate 002204/2011. *May-June 2011*. Course "*Quality Assurance Auditor*", Certificate 002203/2011.

Membership in professional bodies: Society of Chemistry Romania, ID 1085. Society Biochemistry and Molecular Biology. 2011-American Nano Society-Full Members (<http://members.nanosociety.us/monicabutnariu>); Biochemical Society/ Portland Press Ltd, London, UK-Full Members (<http://www.omicsonline.org/About.php>); BAFN (http://www.europartnersearch.net/bafn/database/Fact_sheet_researcher.php?Numero=3344); International Carotenoid Society-Full Members (<http://www.carotenoidsociety.org/user/monicabutnariu>); American Chemical Society [ACS-Chemistry from life]. OMICS Publishing Group (<http://www.omicsonline.org/About.php>). 2007-International Society of Environmental Bio indicators (ISEBI). Ambassadors Basel Declaration for Advances in human and veterinary medicine through animal experiments (<http://www.basler-deklaration.ch/basel-declaration-society/ambassadors/>).

Representatives books

BUTNARIU, Monica *et al.* (2005). [*Heavy Metals in Banat Soils and their bio monitoring*]. Timisoara: Ed. Orizonturi Universitare. (pp. 320). ISBN 973-638-179-X-Colectia Stiintele Naturii. [(Cited Reference 3 Thomson Reuters (formerly ISI) *Web of Knowledge* and Cited 4 Scholar Google) Cited by 7] BUTNARIU, Monica. (2006). [*General Chemistry*]. Timisoara: Ed. Mirton. (pp. 325). ISBN (10)973-661-927-3, (13)978-973-661-927-4, Colectia Paideia. BUTNARIU, Monica. (2007). [*Analytical Chemistry and Instrumental Analysis: Theoretical and Practical Concepts*]. Timisoara, Ed. Mirton. (pp. 350). ISBN 978-973-52-0181-4 (Cited Reference 2 Thomson Reuters (formerly ISI) *Web of Knowledge*). BUTNARIU, Monica. (2007). [*Plant Biochemistry: Theoretical and Practical Concepts*]. Timisoara: Ed. Mirton. (pp. 295). ISBN978-973-52-0226-24. BUTNARIU, Monica. (2011). [*Plant Biochemistry*]. Timisoara: Ed. Eurobit. (pp. 438). ISBN 978-973-620-791-4. BUTNARIU, Monica *et al.* (2012). [*Compendium of Forage Technical Terms in English, French and Romanian*]. Cambridge Scholars Publishing Ltd. (http://www.c-s-p.org/Flyers/Compendium_of_Forage_Technical_Terms_in_English_French_and_Romanian1-4438-3623-0.htm). ISBN (13):978-1-4438-3623-4; ISBN (10):1-4438-3623-0.

Chapters/Sections in books from international publishers: "*Functions of collateral some metabolites produced by actinomycetes*" in book "Microbial pathogens and strategies for combating them: science, technology and education" (FORMATEX RESEARCH CENTER, C/ Zurbaran 1, 2nd Floor, Office 1, 06002 Badajoz, Spain); "*Markers indicators of soil pollution*" in book "Environmental Indicators" (Springer | Environmental Sciences Mailing address: P.O. Box 17, 3300 AA Dordrecht, The Netherlands Street address: Van Godewijkstraat 30, 3311 GX Dordrecht, The Netherlands Phone: +31 78 657-6120 Fax: +31 78 657-6500 www.springer.com); "*Consequences of insecticides obtained from petroleum products on plants*" in book "Petroleum and Fertilizers" (STUDIUM PRESS LLC, P.O. Box 722 200, Houston, TX-77072, USA).

Interdisciplinary National/ European Science Project Incorporating Research and Education Experience

Project Director: Assessment of metal content heavy soils with plants bio indicator and recovery them for therapeutic purposes. (2006-2008), CEEEX-ET: 1466/4/04.2006 (http://www.cnmpr.ro/ceex/comp2_oct/oferta.php?id=11). Biotechnology for obtaining bio-products resulting from Plant indicators of recovery metals in soil. (2006-2008), CEEEX-ET: 5899/18.09.2006. (http://www.mct-excelenta.ro/fileadmin/mct/Rezultate/modulul_2/ET/ET_REZ_FINAL_26_IULIE.htm). (2009-2011). Environmental-biochemical cooperation for prognosis of natural water and soil pollution in the Hungarian-Romanian cross-border region to shun catastrophe. (http://www.huro-cbc.eu/en/project_info/88?month=5&year=2011) (Financed by European fund-ERDF), 1th April, 2013-31th March 2015, „Green Economy”, financed by EU, and is devoted to develop the higher education on the field of Environmental Science, and to start new collaboration with foreign scientific institutions on this field (TAMOP-4.1.1 C-12/1/KONV-2012-0012 "GREEN ECONOMY COOPERATION" OU762-27-61). **Co-Principal Investigators Project:** The impact of functional food enriched with bioactive components antioxidants on the quality of life Breast cancer; (2006-2008). Spleen Phosphates landfill guano that fixates of ammonium and Transition metal-based studio of secondary phosphate soils amended with polyphosphates. (2006-2008). Study of synergistic bioactivity antioxidant functional foods in reversal syndrome MET-metabolic ANTIOX; (2006-2008). The impact of functional food multicomponent in Obesity/ atherosclerosis, Antiatero-Alim; (2006-2008).

Timișoara,
2013

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