

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

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Date of birth 07/03/1971

Nationality

Romanian

Gender

Female

Desired employment / Occupational field *Professor, habilitated doctor, chemist, Chemistry & Biochemistry Discipline, Banat's University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timisoara, 300645, Calea Aradului 119, Timis, Romania,*

Work experience Teaching chemistry and biochemistry plant (specific disciplines). *Research Interests:* Chemistry and Analytical Biochemistry; Research on natural compounds or active principles of plants; Develop approaches for the chemical characterization of medicinal plants and plant mixtures using different methods. Knowledge: food quality, safety and functional foods/functional bioproducts, biocompounds in food matrices.

Dates 27 September 2014–present

Occupation or position held Full 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, 1 October 2008–27 September 2014

Occupation or position held Preparatory, Assistant Professor, Lecturer, 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.

Education and training July 12, 2013, Habilitation thesis "*Identification and quantification of biocompounds in life science and applied biotechnology areas, aimed at sustainable development*" (ISCED 9-EQF) (Habilitation); ISCED 8 (EQF) (PhD)

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 7(EQF)

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/type of organisation providing education/ 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 *Technologies of Non-Pollutant Processes* with the dissertation work: "*Studies concerning the process of elimination of the phosphate ion through ionic exchange*"

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

ISCED 5 (EQF) Bachelor of science (BSc)

Personal skills and competences

Mother tongue(s)

Romanian

Self-assessment

European level (*)

ENGLISH

FRENCH

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

(*) 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 several international journals.
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.who.int/patdb)], Gold and Silvers Medals for patents in the Inventors Salons: National (Bucharest, Iasi and Cluj) and International (Geneva, Bruxelles, Zagreb, Seul, and Budapest) (http://www.ancs.ro/ro/ncol/1764/instrumente-suport-targuri-si-expozitii-medalii-si-premii). Expert evaluator CNCIS, CEE, PNCD 2 and PF7. Expert independent Capacities-Module III. RNE, C ₉ -Biotechnologies (8). Evaluator international projects. <i>Keynote Speakers invited</i> 19 th International Conference on Environmental Indicators, 11-14/09/2011 Technion (Israel Institute of Technology), Haifa, Israel, FP7 Environmental research, brokerage event, Albert Borschette Conference Centre, Rue Froissart 36, 1040 Brussels-Belgium 17 June 2011, (http://www.b2match.eu/environment_research2011/participants/35).
Other skills and competences	Trainings / international collaborations and post-academic courses: Sep, 2006-training course carried out by the National Institute of Research (INRA), Centre de Recherché Toulouse, Toulouse, <i>Franta</i> . 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 Centre; Luneburg, <i>Germany</i> . June, 2007, 3 rd Summer School of Environmental Chemistry and Ecotoxicology Course 2007, organized de RECETOX, Brno, <i>Czech</i> . July 2007, March 2008, Course of Validation of the laboratory chemical methods, A/461/2008, ASRO-Romania; July 2008, REP-LECOTOX 1 st Ecotoxicogenomics: the challenge of integrating genomics/proteomics/metabolomics into aquatic, terrestrial ecotoxicology, Novi Sad, <i>Serbia</i> . Membership in professional bodies: Society of Chemistry Romania, Society Biochemistry and Molecular Biology. International Society of Environmental Bio indicators (ISEBI). BAFN (http://www.europartnership.net/bafn/database/Fact_sheet_researcher.php?Numero=3344) American Nano Society-Full Members (http://members.nanosociety.us/monica/butnariu); Biochemical Society/Portland Press Ltd, London, UK-Full Members (http://www.omicsonline.org/About.php); International Carotenoid Society-Full Members (http://www.carotenoidsociety.org/user/monica/butnariu); Ambassadors Basel Declaration for Advances in human and veterinary medicine through animal experiments (http://www.basler-deklaration.ch/basel-deklaration-society/ambassadors/). Council for Nutritional and Environmental Medicine (CONEM) (http://www.conem.org/people/butnariu/bio); ESPEN-The European Society for Clinical Nutrition and Metabolism (http://www.espen.info/EspenWebsite/EspenMember/my_profile_cms.aspx) Italo-Latin American Society of Ethnomedicine (http://www.silae.it/eng/getfromfla/art_eec). American Chemical Society.
Additional information	Research Experience (References point to my list of publications and projects). (http://www.brainromania.ro/public-profile/5866485652). Researcher ID: E-7217-2010; Other IDs: Scopus Author ID: 15070536800; ORCID: http://orcid.org/0000-0002-2032-5000 .
Representatives books	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/CompendiumofForageTechnicalTermsinEnglishFrenchandRomanian1-4438-3623-0.htm). ISBN (13): 978-1-4438-3623-4; ISBN (10): 1-4438-3623-0. BUTNARIU, Monica (2015). Markers, Indicators of Soil Pollution, DOI:10.1007/978-94-017-9499-2_22, pp 343-364, Book Title: Environmental Indicators, Publisher Springer Netherlands, Print ISBN: 978-94-017-9498-5 (http://link.springer.com/chapter/10.1007/978-94-017-9499-2_22) BUTNARIU, Monica (2015). The Effects on Plants by the Insecticides Obtained from Petroleum By-Products, pp. 77-108, Petroleum Engineering Vols. I & II, Petrochemical, Petroleum Engg./Chemical Technology, 2, Studium Press LLC USA., ISBN: ISBN: 1-62699-041-7, (Set 2 Vols.) ISBN: 1-62699-047-6 BUTNARIU, Monica (2014). Chemical Composition of Vegetables and Their Products, DOI: 10.1007/978-3-642-41609-5_17-1, pp. 1-49, (http://link.springer.com/referenceworkentry/10.1007/978-3-642-41609-5_17-1) Handbook of Food Chemistry, Publisher Springer Berlin Heidelberg, Print ISBN: 978-3-642-36604-8.
Representative works	Monica BUTNARIU et al. (2005). Studies about Co ²⁺ ion influence on soy plants development and accumulation of other chemical elements (iron, magnesium, calcium, potassium and phosphorus), Journal of Chemistry [IF:0.59], 56(8), pp. 837-841. Monica BUTNARIU et al. (2006). Studies concerning fertilizer influence (NPK in different doses) on quantity of corn plants chlorophyll. Journal of Chemistry [IF:0.3], 57(11), pp.1138-1143. Monica BUTNARIU et al. (2011). Antimicrobial and anti-inflammatory activities of the volatile oil compounds from <i>Tropaeolum majus</i> L. (Nasturtium). African Journal of Biotechnology [IF:0.565], 10(31), 5900-5909. Monica BUTNARIU et al. (2011). The use of some nanoemulsions based on aqueous propolis and lycopene extract in the skin's protective mechanisms against UVA radiation, Journal of Nanobiotechnology. 9(3) [IF:4.06]. 0034-7752, pp. 1-9. Monica BUTNARIU et al. (2012). Chemical composition and in vitro antifungal activity screening of the <i>Allium ursinum</i> L. (Liliaceae). International Journal of Molecular Sciences (ISSN 1422-0067). "Green Chemistry-Biocides"[IF:2.27], 13(2), pp. 1405-1425. Monica BUTNARIU et al. (2012). Expression analysis of heat shock genes in the skin, spleen and blood of common carp (<i>Cyprinus carpio</i>) after cadmium exposure and hypothermia. [IF: 0.793], Acta Biologica Hungarica. ISSN: 0236-5383, 63(1):15-25. Monica BUTNARIU et al. (2012). Evaluation of Biologically Active Compounds from <i>Calendula officinalis</i> Flowers using Spectrophotometry. [IF: 3.28], Chemistry Central Journal. ISSN: 1752-153X, (http://journal.chemistrycentral.com/content/6/1/35/abstract). 6(35): doi: 10.1186/1752-153X-6-35. Monica BUTNARIU (2012). An analysis of <i>Sorghum halepense's</i> behavior in presence of tropane alkaloids from <i>Datura stramonium</i> extracts. [IF:3.28], Chemistry Central Journal (http://journal.chemistrycentral.com/content/6/1/35/abstract), 6:75doi: 10.1186/1752-153X-6-75. Monica BUTNARIU, et al. (2012). Reverse phase chromatographic behaviour of major components in <i>Capsicum Annuum</i> extract. [IF: 3.28], Chemistry Central Journal, 6:146 doi: 10.1186/1752-153X-6-165 (http://journal.chemistrycentral.com/content/6/1/146/abstract). Monica BUTNARIU et al. (2013). Study on the stability and antioxidant effect of the <i>Allium ursinum</i> watery extract. [IF: 3.28], Chemistry Central Journal, 7:21 doi: 10.1186/1752-153X-7-21 (http://journal.chemistrycentral.com/content/7/1/21/abstract). Monica BUTNARIU. (2013). Microencapsulation of the allelochemical compounds and study of their release from different products. <i>Digest Journal of Nanomaterials and Biostructures</i> [IF: 1.092], 8(3), (http://www.chalcoen.infm.ro/945Butu.pdf). 945-953, Monica BUTNARIU, et al., (2013). Structural investigation of mistletoe plants from various hosts exhibiting diverse lignin phenotypes. <i>Digest Journal of Nanomaterials and Biostructures</i> 11/2013; 8:1679-1686. [IF: 1.092], 945-953, (http://www.chalcoen.ro/1679_BUTU.pdf). Monica BUTNARIU, et al., (2013). Allelopathic effect of <i>Festuca rubra</i> on perennial grasses. <i>Romanian Biotechnological Letters</i> , 18(2): 8190-8196. [IF: 1.092] Monica BUTNARIU, et al. (2014). Screening of bioflavonoid and antioxidant activity of <i>Lens culinaris</i> Medikus, <i>Digest Journal of Nanomaterials and Biostructures</i> 9(2), pp. 519-529, Bucharest, Academy of Romanian Scientists, [IF:1.2], (http://www.chalcoen.infm.ro/1679_BUTU.pdf). Monica BUTNARIU, et al. (2014). The impact of exogenous testosterone and nortestosterone-decanoate toxicological evaluation using a rat model, <i>PLOS ONE</i> (ISSN: 1932-6203, 9(10), 2014, Article No: e109219, doi: 10.1371/journal.pone.0109219), [IF: 3.534]. Monica BUTNARIU, et al. (2014) Determination and quantification of maize zeaxanthin stability, <i>Digest Journal of Nanomaterials and Biostructures</i> , 9(2): pp. 745-755. Bucharest, Academy of Romanian Scientists, [IF(2013):1.2], (http://www.chalcoen.ro/745_Butnariu.pdf). Monica BUTNARIU, et al. (2015). Mobility of Heavy Metals from Soil in the Two Species of the Aromatic Plants, <i>Revista de Chimie</i> , 66(3), 382-368 (http://www.revistadechimie.ro/pdf/CAUNII%20A.pdf%203%2015.pdf). [IF: 0.810]. Monica BUTNARIU, et al. (2015). Application of QuEChERS-high performance liquid chromatography with postcolumn fluorescence derivatization (HPLC-FLD) method to analyze Eprinomectin B1a residues from a pour-on conditioning in bovine edible tissues, <i>Open Chemistry</i> (ISSN: 2391-5420, 13(1), [IF: 1.329]). Monica BUTNARIU, et al. (2015). Allelopathic effects of <i>Pteridium aquilinum</i> alcoholic extract on seed germination and seedling growth of <i>Poa pratensis</i> , <i>allelopathy journal</i> , 35(2): 227-236. [IF: 0.529]. Monica BUTNARIU, et al. (2015). Isolation and Separation of Inulin from <i>Phalaris arundinacea</i> Roots. <i>Revista de Chimie</i> , 66(4), 472-476 (http://www.revistadechimie.ro/pdf/CAUNII%20A.pdf%204%2015.pdf) [IF: 0.810]. Monica BUTNARIU, et al. (2015). Liposomal nanodelivery system for proteasome inhibitor anticancer drug bortezomib. <i>Farmacia</i> . 63(2) 224-229 (http://www.revistafarmacia.ro/201502/art-11-Butu_224-229.pdf). [IF: 1.251]. Monica BUTNARIU, et al. (2015). Allelopathy potential of <i>Aesculus hippocastanum</i> extracts assessed by phytobiological test method using <i>Zea mays</i> . <i>Environmental Engineering and Management Journal</i> . 14(6), 1313-1321. (http://omicronn.ch.buasi.ro/EEMJ/pdfs/vol14/no6/9_1029_Virtueiu_14.pdf) [IF: 1.065].

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.cmp.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). Environmental–biochemical cooperation for prognosis of natural water and soil pollution in the Hungarian–Romanian cross–border region to shun catastrophe. (2009–2011). (http://www.huro-abc.eu/en/project_info/88?month=5&year=2011) (European fund–ERDF). 1st April, 2013–31st March 2015, TAMOP–4.1.1 C–12/1/KONV–2012–0012 "GREEN ECONOMY COOPERATION" OU762–27–61, financed EU, develop higher education on field of Environmental Science, to start new collaboration with foreign scientific institutions on this field.

Co–Principal Investigators Project: Impact of functional food enriched with bioactive components antioxidants on 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 synergic bioactivity of antioxidant functional foods for reversibility of the metabolic syndrome MET–ANTIOX. (<http://www.cmp.ro/ceex/comp1/oferta.php?id=543>) (2006–2008). Magnetic and optical tenable nanomaterials with controlled porosity obtained by sol–gel method and sono–synthesis, potentially applicable in environmental protection, biology and medicine. (2006–2008) (<http://www.cmp.ro/ceex/comp1/oferta.php?id=320>). Impact of multicomponent functional foods in control of obesity and atherosclerosis, Antiatero–Alim. (2006–2008) (http://www.cmp.ro/ceex/comp1_2006/oferta.php?id=2433). IDEI–[*Inventory of the invasive plant species from western Romania and the elaboration of some efficient fast tools for the evaluation of their dynamics and impact on the vegetation*] (http://www.invasive-species.ro/index_en.html) IDEI–[*Identification in order to capitalize the medicinal and aromatic plants Anina Mountains*] agreement no. 1077/2009 (http://agricultura.usab-tm.ro/ID_865/). Monitoring and control of invasive biological pollutant, the acronym "STOP AMBROSIA", (<http://www.stopambrosia.rs/index.php/en/team>) (2011–2012). (ERDF).

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