

CURRICULUM VITAE

PERSONAL INFORMATION

Surname, First names **BAHRIM, Gabriela Elena**

Professor, PhD Biotechnology, BSc Food Chemistry and Technology

Office address 111 Domnească, 800201, Galați, Romania

Telephone(s) 0040-336-130.184 Mobile: 0040-741-024.997

E-mail(s) gbahrim@ugal.ro

Website <http://www.bioaliment.ugal.ro>

Nationality Romanian

Date and place of birth March the 30th 1963, Tifești-Vrancea, Romania

Gender Female

WORK EXPERIENCE

Present academic position Full professor of Biotechnology and Microbiology, Food Science and Engineering Faculty „Dunarea de Jos” University, Galați, Romania; Experience in teaching topics such as: *Industrial biotechnology, Enzyme technology, Applied enzymology, Environmental biotechnology, Starter cultures, Industrial microbiology, General microbiology, Food microbiology*

Since 2007, PhD supervisor in the fields *Biotechnologies* and *Industrial engineering*

Since 2010 Associate member of *Romanian Academy of Agricultural and Forestry Sciences "Gheorghe Ionescu - Sisești"*

Since 2013 Coordinator of *Centre of Research, expertise and technological transfer- Bioaliment – TehnIA*

Occupation or position held Since 2006 Director of BIOALIMENT Platform, “Integrated Research and Training Center for Applied Biotechnology in Food Industry”, Food Science and Engineering Faculty, „Dunarea de Jos” University, Galați, Romania, <http://www.bioaliment.ugal.ro>

Since 2012 Coordinator of subdomain of Doctoral School *Science and engineering of food bioresources*

Since 2009, Head of the specialized Master *Biotechnology of natural resources*, Food Science and Engineering Faculty, „Dunarea de Jos” University, Galați, Romania

Since 2007 Head of the Chair of Bioengineering in Food Science, Food Science and Engineering Faculty, „Dunarea de Jos” University, Galați, Romania

Main activities and responsibilities **„Dunarea de Jos” University of Galați**

Teaching and research in the following areas: Applied Microbiology: Industrial Microbiology, Food Microbiology, Bioconversions, Environmental Microbiology; Microbial Biotechnology: Enzyme Technology, Bioadditives (pigments, bio preservatives, single cell proteins etc); Starter cultures; Microbiological food safety; Food microbiological control; Environmental Biotechnology : Waste Bioconversion, Bioremediation

Name and address of employer	Institute of Food Science, Bucharest Research in the following areas: Enzyme Technology; Fungal Colorants Biotechnology Food Science and Engineering Faculty , „Dunarea de Jos” University, 111 Domneasca Street, 8000201, Galati, Romania, http://www.sia.ugal.ro
Type of business or sector	Academia
EDUCATION	
Dates	1990, October – 1998, April
Title of qualification awarded	PhD
Occupational skills covered	Biotechnology, Enzyme Technology. Thesis subject: Research concerning glucose isomerase biosynthesis, biotechnology optimisation and enzyme purification
Institution	“Dunărea de Jos” University, Faculty of Food Science and Engineering, Galați, Romania
Level in international classification	ISCED 6
Dates	1981, September – 1986, February
Title of qualification awarded	Bachelor's Degree in Food Chemistry and Technology
Occupational skills covered	Food science and technology; food biotechnology
Institution	“Dunărea de Jos” University, Faculty of Food Science and Engineering, Galați, Romania
Level in international classification	ISCED 5
TRAINING	
Dates	2009, training in <i>Building capacity in training curricula and assessment development</i> , VAPRO International, The Hague, The Netherlands
Type/description of training	2009, training in <i>Flow Cytometry - Principles and Methods</i> National Institutes of Health, Bethesda, USA
Institutions	2009, training in <i>Fermentation Methods and Scale-Up Strategies</i> , Biotechnology Training Programs, University of Pennsylvania, USA
	2008, training in <i>Formation a la microscopie confocale</i> , Universite Claude Bernard Lyon, France
	2008, training in <i>Bioreactor Design and Operation</i> , 4 th International Advanced Course, the Graduate School VLAG Wageningen University in co-operation with Biotechnological Sciences Delft Leiden (BSDL) and B-Basic (Bio-based Sustainable Industrial Chemistry), The Netherlands
	2007, training in <i>Food industry hygiene management</i> according HACCP system and ISO 22000, TUV Rheinland, Romania
	1994, Tempus fellow at ENSIA Massy and Molecular Interactions & Separation Technology Laboratory, Lim TechS, Universite de Technologie de Compiègne (UTC), France

SKILLS / COMPETENCES Mother tongue Other languages Self-assessment European level (*) French English	Romanian											
	Understanding					Speaking				Writing		
	Listening		Reading		Spoken interaction		Spoken production					
	B1	Proficient user	B1	Proficient user	B1	Proficient user	B1	Proficient user	A2	Proficient user		
	B2	Independent User	B2	Independent User	B2	Independent User	A2	Independent User	B1	Independent User		
(*) Common European Framework of Reference (CEF) level												
Social skills and competences	Social capabilities Building Team spirit Good communication skills Good ability to adapt to multicultural environments Shows respect for ideas and culture of others Is able to build relationships through appropriate communication Listens, shows interest, and takes account of the views of others Understands the behavior of different groups of people and can turn this into added value Verbal communication and reporting Uses correct language in correspondence and when writing reports and plans Is able to formulate an opinion and express it clearly Is able to express themselves concisely and to identify key points Networking Maintain and expand the right network; liaise with relevant external organizations and individuals Communication Communicates internally and externally about relevant activities											
	Organisational skills and competences	Management: Efficient in developing plans and projects; act on decisions taken and able to take decisions; manage teams and chair; able to improve efficiency and able to implement it										
		Technical skills and competences	Scientific and Professional Expertise Keeping on top of development needed for the job; academic level of thinking; Food science, microbiology and biotechnology Highly involved with developmental processes of new project and actions Technical skills in microbiology, biotechnology and food technology Procedures and regulations got to be innovative, efficient, and of high quality Good command of quality control processes Operational skills in auditing ISO 17025 and HACCP									
			Computer skills and competences	Good command of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™, internet								
	Other skills and competences			Coaching Encourages others to realize their stronger and weaker points and helps them to increase their own personal insight Gives advice in the context of the workplace on how the personal qualities of employees are affecting their role Creates proper conditions so that others can increase their competences and professional development and will motivate them in this regard Helps others unasked and at appropriate times provides constructive feedback Finds a good balance between guidance and letting go or delegating responsibility, does not always dictate solutions								

	Conceptual abilities / Creativity Knows what is important for professional development and is able to integrate several points of view Is able to quickly extract the most important information from complex material Finds new, better solutions and ideas for existing problems Recognizes trends and patterns in information Ethics Is aware of the long-term consequences of his actions on the social environment within the workplace and can identify desirable and undesirable developments
ADDITIONAL INFORMATION	PEDAGOGICAL ACTIVITIES Concept and design of university on BSc and MSc level for Biotechnology and Food Science according to Bologna standards: - General Microbiology - Applied Enzymology - Enzyme Technologies - Industrial Biotechnology - Starter Cultures Technology - Food Safety - Environmental Biotechnology - Biodepollution and bioremediation - Waste Bioconversion - Wastewater biotreatment
ADDITIONAL INFORMATION	RESEACH ACTIVITIES Infrastructure building 2006-2008 Concept, design and realisation BIOALIMENT Platform, http://www.bioaliment.ugal.ro 1988-2008 Microorganism Collection (coded MIUG) of Industrial Microbiology Laboratory, Food Science and Engineering Faculty, „Dunarea de Jos” University, Galati, Romania http://www.wfcc.info/who_list.html Research Areas - The study of extremophilic microorganisms isolated from Antarctic soils - Starter cultures (bacteria and fungi) production, evaluation and microbiological control of biotechnological properties - Microbial enzymes (amylases, proteases, glucose isomerase, invertase, phenol oxydase, xylanase and cellulase) production, characterisation, purification and immobilisation - Fungal pigments biotechnology - Bioconversion Processes - Control strategies for bioprocesses - Food bio preservatives of microbial and plant origin - Production of yeast single-cell protein from food and agricultural waste - Rapid methods-for microbiological analysis of food - Microbiological testing in food safety management SCIENTIFIC AND PROFESSIONAL CONTRIBUTIONS Books and books chapters with foreign publisher – 7 Books and books chapters with national publisher – 21 Patents - 3 Web of science indexed papers – 84 (Hirsch index 7) Papers indexed in international databases – 72 (Scopus) Papers presented at international conferences -121 International and national project – 63 (Manager for 17 projects)

ADDITIONAL
INFORMATION

PRIZES

« Dumitru Moțoc » Academy for Agricultural and Forestry Sciences (ASAS) prize,
Bucharest June 3th 2004

« Dumitru Moțoc » Academy for Agricultural and Forestry Sciences (ASAS) prize,
Bucharest March 17th 2006

« Dumitru Moțoc » Academy for Agricultural and Forestry Sciences (ASAS) prize,
Bucharest December 10th 2009

EXTRA CURRICULAR PROFESSIONAL ACTIVITIES

Since 2012 Member of commission Engineering of vegetal and animal resources of *National Council for Attestation of University Titles, Diplomas and Certificates* (CNATDCU
<http://www.cnatdcu.ro/paneluri-cnatdcu/panel-2-stiinte-ingineresti/comisia-de-inginerie-a-resurselor-vegetale-si-animale>

Since 2011 President of commission Engineering of vegetal and animal resources of *National Council for Attestation of University Titles, Diplomas and Certificates* (CNATDCU)

Since 2011 Member of commission of Life Science and Biotechnology of National Research Council (CNCS) http://www.cncs-uefiscdi.ro/wp-content/uploads/2011/11/Bahrim-Gabriela-CV_CNCS-En.pdf

Since 2009 Member of Commission of Agricultural Sciences and Veterinary medicine of Romanian Agency for Quality Assurance in Higher Education
http://pfe.aracis.ro/inscriere/registru/lista_c_p/8/

2006- 2009 Member of National University Research Council (CNCSIS)
<http://www.cncsis.ro/membri.php>

2007-2008 Expert of Romanian Agency for Quality Assurance in Higher Education
http://www.aracis.ro/uploads/287/registrul_de_evaluatori_pe_domenii.pdf

2004- 2006 Member of Committee 5: Agricultural Sciences and Veterinary Medicine Committee of National University Research Council (CNCSIS)

2003-2008 Scientific and technical expert in national projects evaluation (CNCSIS, Biotech, Agral, Mener, CEEX, National Plan for Research and Development -PNII)

ADDITIONAL
INFORMATION

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL SOCIETIES

Romanian Society of Biochemistry and Molecular Biology (SRBBM)

Association of Specialists in Applied Biotechnology (ASBA) (**President** of this asociation)

Romanian Society of Biotechnology and Bioengineering (RSBB)

Romanian Chemistry Society (SChR)

European Society for Agricultural and Food Ethics (EurSafe)

Association of Dairy Industry Experts (ASIL)

Association of Milling and Baking Industries Experts (ASIMP)

Evaluation of grant proposals (national and international competitions); Biotech, Agral, CEEX, PNII programmes, ENEC, COST programme, National Science Center, Poland

Evaluation of quality in the universities (Romania, Rusia)

**ADDITIONAL
INFORMATION**

Editor in chief of *Innovative Romanian Food Biotechnology*, journal indexed in international databases, <http://www.bioaliment.ugal.ro/33ejournal.htm>

Member of Editorial Committee of International Journals

CyTA - Journal of Food Taylor&Francis Online (WOS)
(<http://www.tandfonline.com/toc/tcyt20/current#.Ua4r2UCn6to>;

Romanian Biotechnological Letters (WOS) (<http://www.rombio.eu/>);

Journal of Food Science and Engineering
(http://www.davidpublishing.org/journals_info.asp?jld=646);

British Journal of Applied Science and Technology (<http://www.sciencedomain.org/editorial-board-members.php?id=5>

The Annals of Dunarea de jos University of Galati, Fascicle VI – FOOD
(<http://www.ann.ugal.ro/tpa/>)

Reviewer for ISI journals:

Food Chemistry, LWT Food Science and Technology, Journal of Applied Microbiology and Biotechnology, Food and Bioprocess Technology, Food Biotechnology, Journal of Microencapsulation, Food Analytical Methods, Separation and Purification Technology, Electronic Journal of Biotechnology, Cellulose Chemistry and Technology, Romanian Biotechnological Letters

Chair of *International conference on industrial microbiology and applied biotechnology*, October the 9 – 11th 2008, Dunărea de Jos University of Galati, Romania, <http://www.micro-bio2008.ugal.ro/index.html>

**OTHER
INFORMATIONS**

ResearcherID G-4935-2013
(WOS): <http://www.researcherid.com/rid/G-4935-2013>
<http://orcid.org/0000-0001-8210-1793>
<https://scholar.google.ro/citations?user=6Ym9TjYAAAAJ&hl=e>

ANEXES

Representative scientific and professional contributions

REPRESENTATIVE SCIENTIFIC AND PROFESSIONAL CONTRIBUTIONS (in last five years)

I. Books and book chapters

Gurgu, L. Horincar, G., **Bahrim, G.**, 2015. The Effects of Fatty Acid Derivates from Corn and Coconut Oils on Microbial Physiology, pp. 159-186. In: Apetrei C (ed). Corn and Coconut Oil: Antioxidant Properties, Uses and Health Benefits. Nova Science Publishers, Inc. Series: Nutrition and Diet Research Progress. ISBN: 978-1-63483-420-9

Dima, St. **Bahrim, G.**, Iordachescu G., 2014. Sources, Production and Microencapsulation of Probiotics, pp. 25-50. In: Semih Otleş (ed.), *Prebiotics in Food Nutrition and Health*, CRC Press Taylor&Francis Group, Boca Raton, FL, USA

Rapeanu, G., **Bahrim, G.**, Stanciuc, N., 2014. Microorganism's Metabolic Activity Stimulation by Polyphenols, pp.513-521. In: WATSON, R.R., PREEDY, V.R., ZIBADI, S. (eds), Polyphenols in Human Health and Disease, vol. 1, Academic Press (Elsevier), Amsterdam, Boston, Heidelberg, London, New York, Oxford, Paris, San Diego, San Francisco, Singapore, Sydney, Tokyo; DOI: 10.1016/B978-0-12-398456-2.00038-4

Neagu, C, Constantin, O, **Bahrim, G.**, 2014. Inulinases, pp. 195-215. In: Garg, N., Aeron, A.(eds), Microbe in process. Microbiology Research Advances. Nova Science Publishers, Inc. New York, ISBN: 978-1-63117-128-4 (eBook).

II. Representative papers published in ISI Thomson database

Simion (Ciuciu), A.M., Aprodu, I., Dumitrascu, L., **Bahrim, G.E.**, Alexe, P., Stanciuc, N., 2015. Exploring the heat-induced structural changes of beta-lactoglobulin -linoleic acid complex by fluorescence spectroscopy and molecular modeling techniques. JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE, 52(12), pp. 8095-8103, DOI: 10.1007/s13197-015-1949-2

Dumitrascu, L., Stanciuc, N., Aprodu, I., Ciuciu, A.M., Alexe, P., **Bahrim, G.**, Ionita, E., 2015. Monitoring the heat-induced structural changes of alkaline phosphatase by molecular modeling, fluorescence spectroscopy and inactivation kinetics investigations. JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE, 52 (10), pp. 6290-6300, DOI: 10.1007/s13197-015-1719-1

Simion (Ciuciu), A.M., Aprodu, I., Dumitrascu, L., **Bahrim, G.**, Alexe, P., Stanciuc, N., 2015. Probing thermal stability of the beta-lactoglobulin-oleic acid complex by fluorescence spectroscopy and molecular modeling. JOURNAL OF MOLECULAR STRUCTURE, 1095, pp. 26-33, DOI: 10.1016/j.molstruc.2015.04.019

Stanciuc, N., Aprodu, I., Ionita, E., **Bahrim, G.**, Rapeanu, G., 2015. Exploring the process-structure-function relationship of horseradish peroxidase through investigation of pH- and heat induced conformational changes. SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, 147, pp. 43-50, DOI: 10.1016/j.saa.2015.03.023

Ungureanu, C., Favier, L., **Bahrim, G.**, Amrane, A., 2015. Response surface optimization of experimental conditions for carbamazepine biodegradation by *Streptomyces* MIUG 4.89. New Biotechnology, 32(3), pp. 347-357, DOI: 10.1016/j.nbt.2014.12.005

Popa, C., Balaes, T., Favier, L., Tanase, C., **Bahrim, G.**, 2015. White-rot fungus implications in clofibric acid biodegradation. ROMANIAN BIOTECHNOLOGICAL LETTERS, 20 (3), pp. 10388-10395

- Aron (Maftei), N., Boev (Gareanu), M., **Bahrim, G.**, 2015. Probiotics and therapeutic effect in clinical practice – Review. *ROMANIAN BIOTECHNOLOGICAL LETTERS*, 20(1), pp. 10162-10175
- Ionita, E.; Stanciuc, N.; Aprodu, I.; Rapeanu, G., **Bahrim, G.**, 2014, pH-induced structural changes of tyrosinase from *Agaricus bisporus* using fluorescence and in silico methods. *Journal of the Science of Food and Agriculture*. 94(11), pp. 2338-2344, DOI: 10.1002/jsfa.6574
- [Ionita, E.](#); [Aprodu, I.](#); [Stanciuc, N.](#); [Rapeanu, G.](#); **Bahrim, G.**, 2014, Advances in structure-function relationships of tyrosinase from *Agaricus bisporus* - Investigation on heat-induced conformational changes, *Food Chemistry*, 156, pp. 129-136, DOI: 10.1016/j.foodchem.2014.01.089
- Horincar, VB; Parfene, G.; Tyagi, AK; Gottardi, D.; Dinica, R.; Guerzoni, ME ; **Bahrim, G.**, 2014, Extraction and characterization of volatile compounds and fatty acids from red and green macroalgae from the Romanian Black Sea in order to obtain valuable bioadditives and biopreservatives. *Journal of Applied Phycology*, 26(1), pp. 551-559, DOI: 10.1007/s10811-013-0053-0
- Cotarlet, M.; Dima, S.; **Bahrim, G.**, 2014, Psychrotrophic *Streptomyces* spp. cells immobilisation in alginate microspheres produced by emulsification-internal gelation. *Journal of Microencapsulation*. 31(1), pp. 93-99, DOI: 10.3109/02652048.2013.808279
- Furdui, B.; Parfene, G. ; Ghinea, I.O.; Dinica, R.M.; **Bahrim, G.**; Demeunynck, M., 2014, Synthesis and in vitro antimicrobial evaluation of new N-heterocyclic diquaternary pyridinium compounds . *Molecules*, 19(8), pp. 11572-11585
- Popa, C.; Favier, L.; Dinica, R.; Semrany, S.; Djelal, H.; Amrane, A.; **Bahrim, G.**, 2014, Potential of newly isolated wild *Streptomyces* strains as agents for the biodegradation of a recalcitrant pharmaceutical, carbamazepine. *Environmental Technology*, 35(24), pp. 3082-3091, DOI: 10.1080/09593330.2014.931468
- Palela, M. ; **Bahrim, G.**; [Glazyrina, J.](#); [Brand, E.](#); [Neubauer, P.](#), 2013, Enzyme-based glucose delivery: a possible tool for biosorbent preparation for heavy metal removal from polluted environments. *Bioprocess and biosystems engineering*, 36(11), pp. 1601-1611, DOI: 10.1007/s00449-013-0934-2
- Coman, MM; Verdenelli, MC; Cecchini, C; Silvi, S; Vasile, A; **Bahrim G**; Orpianesi, C; Cresci, A, 2013, Effect of buckwheat flour and oat bran on growth and cell viability of the probiotic strains *Lactobacillus rhamnosus* IMC 501 (R), *Lactobacillus paracasei* IMC 502 (R) and their combination SYN BIO (R), in synbiotic fermented milk. *International Journal of Food Microbiology*, 167(2), pp.261-268, DOI: 10.1016/j.ijfoodmicro.2013.09.015
- Bleoanca, I; **Bahrim G**, 2013, Overview on Brewing Yeast Stress Factors. *Romanian Biotechnological Letters*, 18 (5), pp. 8559-8572
- Maftei, NM; Aprodu, I; Dinica, R; **Bahrim G**, 2013, New fermented functional product based on soy milk and sea buckthorn syrup. *Cyta-Journal of Food*, 11(3), pp. 256-269, DOI: 10.1080/19476337.2012.730554
- Baston, O ; Neagu, C; **Bahrim G**, 2013, Establishing the Optimum Conditions for Inulin Hydrolysis by Using Commercial Inulinase. *Revista de chimie*, 64(6), pp.649-653
- Aprodu, I; Stanciuc, N; Banu, I; **Bahrim G**, 2013, Probing thermal behaviour of microbial transglutaminase with fluorescence and in silico methods. *Journal of the Science of Food and Agriculture*, 93 (4), pp.794-802, DOI: 10.1002/jsfa.5799
- Stanciuc, N; Aprodu, I; Rapeanu, G; van der Plancken, I; **Bahrim G**; Hendrickx, M, 2013, Analysis of the Thermally Induced Structural Changes of Bovine Lactoferrin. *Journal of Agricultural and Food Chemistry*, 61(9), pp. 2234-2243, DOI: 10.1021/jf305178s
- Dinica, RM; Furdui, B; Ghinea, IO; **Bahrim G**; Bonte, S; Demeunynck, M, 2013, Novel One-Pot Green Synthesis of Indolizines Biocatalysed by *Candida antarctica* Lipases. *Marine Drugs*, 11(2), pp. 431-439, DOI: 10.3390/md11020431
- Parfene, G; Horincar, V; Tyagi, AK; Malik, A; **Bahrim G**, 2013, Production of medium chain saturated fatty acids with enhanced antimicrobial activity from crude coconut fat by solid state cultivation of *Yarrowia lipolytica*. *Food Chemistry*, 136(3-4), pp. 1345-1349, DOI: 10.1016/j.foodchem.2012.09.057

- Stanciuc, N; Aprodu, I; Rapeanu, G; **Bahrim G**, 2013, pH- and heat-induced structural changes of bovine alpha-lactalbumin in response to oleic acid binding. *European Food Research and Technology*, 236(2), pp.257-266, DOI: 10.1007/s00217-012-1882-9
- Bichescu, C; **Bahrim G**; Stanciuc, N; Rapeanu, G, 2013, Effect of maceration on the making of Feteasca neagra wines. *Journal of Food Agriculture & Environment*, 11(1), pp. 273-277
- Caterina Brajdes (Dumitru), **Gabriela Bahrim**, Rodica Dinica, Camelia Vizireanu, 2013, Phenolics composition and their biochemical stability confirmation by INVITRO gastrointestinal conditions simulation, for a new functional fermented beverage based on sprouted buckwheat, *Romanian Biotechnological Letters*, 18(6), 8832-8842
- Aboubakar, Bonciu, C., Răpeanu, G., Njintang, N.Y., Mbofung, C.M., **Bahrim, G.**, 2012, Biochemical and Structural Changes of Taro (*Colocasia esculenta*) Tubers During Simple Thermal Treatments (Low Temperature) or in Combination with Chemicals, *Food and Bioprocess Technology* 5 (7), 2739-2747, DOI: 10.1007/s11947-011-0622-7
- Neagu Bonciu, C., Constantin, O., **Bahrim, G.**, 2012, Increase in extracellular inulinase production for a new *Rhizoctonia* ssp. strain by using *buckwheat (Fagopyrum esculentum)* flour as a single carbon source, *Letters in Applied Microbiology* 55 (3), 195-201.
- Apetrei, Irina Mirela; **Bahrim, Gabriela**; Luz Rodriguez-Mendez, Maria, 2012. *Electrochemical study of polyphenols with amperometric tyrosinase based biosensors*. *Romanian biotechnological letters*, 17(5), pp. 7684-7693
- Coman, G., Leuştean, I., Georgescu, L., and **Bahrim, G.**, 2012, Optimization of protein production by *Geotrichum candidum* MIUG 2.15 by cultivation on paper residues, using response surface methodology. *BioResources* 7(4), 5290-5303
- Leuştean, I., Coman, G., **Bahrim, G.**, 2012, Statistical optimisation of ethanol production from a cellulosic mixture based on paper residues, *Environmental Engineering and Management Journal* 11 (5), 1037-1044.
- Aprodu, I., Stănciuc, N., Banu, I., **Bahrim, G.**, 2012, Probing thermal behaviour of microbial transglutaminase with fluorescence and in silico methods. *Journal of the Science of Food and Agriculture*. DOI 10.1002/jsfa.5799 (in press).
- Stănciuc, N., Aprodu, I., Răpeanu, G., **Bahrim, G.**, 2012, Fluorescence spectroscopy and molecular modeling investigations on the thermally induced structural changes of bovine β -lactoglobulin, *Innovative Food Science and Emerging Technologies* 15, 50-56, DOI: 10.1016/j.ifset.2012.03.001.
- Stanciuc, N., Răpeanu, G., **Bahrim, G.**, Aprodu, I., 2012, pH and heat-induced structural changes of bovine apo- α -lactalbumin, *Food Chemistry* 131 (3), 956-963, DOI:10.1016/j.foodchem.2011.09.087
- Stoica, M., **Bahrim, G.**, Dinica, R., Cârâc, G., 2012, Electrochemical study of stainless steel characteristic modification on correlative effect of fungal cell suspension and ActiSEPT used as biocide for equipment disinfection in bioprocessing of food, *Journal of Optoelectronics and Advanced Materials* 14 (3-4), 17-322
- Ajeagah, Gideon; Cioroi, Maria; Praisler, Mirela; Constantin, Oana; Palela, Mihaela; **Bahrim, Gabriela**, 2012, Bacteriological and environmental characterisation of the water quality in the Danube River Basin in the Galati area of Romania. *African Journal of Microbiology Research*, 6(2), pp. 292-301, DOI: 10.5897/AJMR11.1182

III. Representative papers published in international databases

Popa (Ungureanu), Claudia ; **Bahrim, Gabriela** ; Favier, Lidia ; Tănase, Cătălin, 2015. Increase of the *Trametes versicolor* efficiency in bioremediation process for diclofenac biodegradation in aquatic environments. *The Annals of the University Dunarea de Jos of Galati, Fascicle VI – Food Technology*, 39(1), pp. 25-35

Apetrei, R. M., Cârâc, G., **Bahrim, G.E.**, 2015. Bioproduction and relevance of conducting polymers: polypyrrole. *Innovative Romanian Food Biotechnology*, 17, pp. 1 – 24

Dumitrașcu, Loredana, Stănciuc, Nicoleta, Aprodu, Iuliana, **Bahrim, Gabriela**, 2014. A spectroscopic study on the heat induced changes of glucose oxidase at acidic pH value. *The Annals of the University Dunarea de Jos of Galati. Fascicle VI FOOD TECHNOLOGY*, 38 (2), pp.82-95 ISSN 1843 – 5157 (Scopus database)

Gideon A. Ajeagah, Cioroi Maria, Praisler Mirela, Oana Constantin, Mihaela Palela, **Gabriela Bahrim**, 2013, An Ecological Assessment of the Pollution Status of the Danube River Basin in the Galati Region—Romania. *Journal of Water Resource and Protection*, 5, pp.876-886, <http://dx.doi.org/10.4236/jwarp.2013.59089>

Claudia POPA (UNGUREANU), Lidia FAVIER, **Gabriela BAHRIM**, 2013, Testing of the new streptomyces strains for production of phenoloxidases. *The Annals of the University Dunarea de Jos of Galati. Fascicle VI FOOD TECHNOLOGY*, 37 (2), pp.35-46, ISSN 1843 – 5157 (Scopus database)

Parfene, G., Horincar, V.B., **Bahrim, G.**, 2012, Preliminary study regarding the use of some *Yarrowia lipolytica* strains for solid state hydrolysis of crude coconut fat, *Scientific Study and Research: Chemistry and Chemical Engineering, Biotechnology, Food Industry* 13 (2) , pp. 187-194 (Scopus database)

Cotârleț, M., **Bahrim, G.E.**, 2012, Application of Plackett-Burman experimental design to optimize the cold-active alpha amylase biosynthesis by psychrotrophic streptomyces 4 Alga, *Annals of the University Dunarea de Jos of Galati, Fascicle VI: Food Technology* 36 (2) , pp. 9-19, (indexata Scopus)

Neagu, C., **Bahrim, G.**, 2012, Comparative study of different methods of hydrolysis and fermentation for bioethanol obtaining from inulin and inulin rich feedstock, *Scientific Study and Research: Chemistry and Chemical Engineering, Biotechnology, Food Industry* 13 (1) , pp. 63-68, (Scopus database)

Neagu (Bonciu), C., **Bahrim, G.**, 2012, Fuel ethanol bioproduction from inulin rich feedstock. *Innovative Romanian Food Biotechnology*, Vol. 11, Issue of September, 2012, pp.1 – 8

IV. Scientific contributions presented at representative conferences

Laura Leonov, **Gabriela Bahrim**, Henk Schols, Sanna Koutaniemi, Maija Tenkanen, Jaap Visser, Sandra Hinz , 2015. Esterases of *Myceliophthora thermophila* C1 help in the degradation and modification of lignocellulosic material, *11th Carbohydrate Bioengineering Meeting*, 10-13 May, Espoo, Finland

Claudia Popa Ungureanu, Lidia Favier, Abdeltif Amrane and **Gabriela Bahrim**, 2015. Screening of soil bacteria as potential agents for drugs biodegradation: a case of study with clofibric acid. *6th European Bioremediation Conference*, June 29 - July 2, Chania, Crete, Greece.

Cristiana L. Chiriță, Claudia Ungureanu, George Ifrim, Sergiu Caraman, **Gabriela Bahrim**, 2015. *Preliminary Studies for Kinetic Model Parameters on Lactic Acid Production from Brewer's Grains Hydrolysate Using Acid Lactic Bacteria. 7th International EuroAliment Symposium*, September 24-26, Galați, România

Vicentiu B. Horincar, Georgiana Horincar, **Gabriela Bahrim**, 2015. *The Most Important Biotechnological Factors that Affect the Biomass Production of Pleurotus ostreatus by Submerged Cultivation. 7th International EuroAliment Symposium*, September 24-26, Galați, România

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V. Representative projects as coordinator or institutional responsible

Project 531, bilateral cooperation Romania-Slovenia, *In vitro study of some biological active compounds from red grapes from Slovenia and Romania (BIOGRAPE).*

Project 618, bilateral cooperation Romania-China, *Use of some selected fungal strain in order to obtain biopreservatives with impact in food safety assurance.*

Project 706, bilateral cooperation Romania-France, *Development and implementation of some efficient methods for pharmaceuticals bioremediation.*

Contract 663, Beneficiary: Kemin Europa N.V., Belgia. *Isolation and selection of bacteria and molds with Nelson's properties as active producers of heat stable and acid stable xylanases (Valoare 50.000 euro).*

Contract 643b, Beneficiary: Kemin Europa N.V., Belgia. *Isolation and selection of microorganisms able to produce xylanases with specific catalytic properties (high acidity and thermal stability) and obtained enzymes characterization (Valoare 50.000 euro).*

Contract 603, Beneficiary: ZEELANDIA H.J. Doeleman. *Research on the achievement of products of fermentation by lactic bacteria and yeasts with applications in the bakery and pastry industry (Valoare 100.000 euro).*

POSDRU/89/1.5/S/52432, *Postdoctoral school in applied biotechnology with interest in national bioeconomy (SPD-BIOTECH)*

Research Platforms Program Cod CNCISIS 62, *Integrated Research Centre of Biotechnology Applied in Food Science - BIOALIMENT,* <http://www.bioaliment.ugal.ro>

FP6 /ERAC 5178426 EUROPOLAR ERA-NET, <http://www.europolar.org/pages/1/index.htm>

CEEX III/1250 *Integrated researches regarding of the biodiversity in the polar ecosystems and evaluation of the responses of the environmental changes.*

CEEX III/12440 *Promoting at the european and international level of the researches regarding the potential of the polar microorganisms to be used in bioremediation.*

MENER, 512 *Researches in polar areas.*

CNCISIS, A/15/47/377 *Evaluation of the some yeast polar strains (isolated from Antarctica) able to metabolise of vegetal wastes, in order to obtain single cell biomass*
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Mondial Bank Grant *Biotechnologies for obtaining of the enzymes with selected microorganisms from MIUG Colection.*