



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	Silvia Simona Grosu-Tudor		
Address(es)	27, Soseaua Unirii Str., Balotesti, Ilfov, Romania		
Telephone(s)	021.351.82.94	Mobile:	0740.98.89.37; 0734.96.12.60
E-mail	silvia.grosu@ibiol.ro		
Nationality	Romanian		
Date of birth	14.06.1980		
Gender	Female		

Desired employment / Occupational field	Institute of Biology, Bucharest, Department of Microbiology/ scientific researcher
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Work experience

Dates	Since 2010 scientific researcher III, Institute of Biology of Romanian Academy, Department of Microbiology 2007 - 2010 scientific researcher, Institute of Biology of Romanian Academy, Department of Microbiology 2004 - 2007 scientific assistant, Institute of Biology of Romanian Academy, Department of Experimental Cell Biology and Genetics 2003 - 2004 external collaborator, Institute of Biology of Romanian Academy, Department of Experimental Cell Biology and Genetics
Occupation or position held	Scientific researcher III
Main activities and responsibilities	Laboratory work (study of lactic acid bacteria and their metabolites: bacteriocins, exopolysaccharides; various biochemical studies). Dissemination of scientific results (scientific article, participations to conferences, etc.)
Name and address of employer	Institute of Biology of Romanian Academy, Splaiul Independentei no 296, 060031, Sector 6, Bucharest
Type of business or sector	Scientific research

Education and training

Dates	2009
Title of qualification awarded	Doctor in Biology (<i>cum laude</i> distinction)
Principal subjects/occupational skills covered	Exopolysaccharides - secondary metabolites with biotechnological applications / research in the field of biochemistry and microbiology
Name and type of organisation providing education and training	Romanian Academy, Institute of Biology, Bucharest
Dates	2003 - 2005
Title of qualification awarded	Master in Enzimology
Principal subjects/occupational skills covered	Master thesis: "Methods used for isolation and characterization of polysaccharides"

Name and type of organisation providing education and training	University of Bucharest, Faculty of Chemistry																																																	
Dates	1999 - 2003																																																	
Title of qualification awarded	Bachelor in Biochemistry																																																	
Principal subjects/occupational skills covered	Technological Biochemistry Thesis: Polyphasic taxonomy of lactic acid bacteria																																																	
Name and type of organisation providing education and training	University of Bucharest, Faculty of Chemistry																																																	
Dates	2003 - 2006																																																	
Principal subjects/occupational skills covered	Several short working visits to Belgium, in the frame of the common bilateral projects Laboratory practice, learning new techniques of chromatography (HPLC , GPC, DIONEX), electrophoresis, mass spectrometry, etc																																																	
Name and type of organisation providing education and training	Research Group of Industrial Microbiology and Food Biotechnology, Vrije Univeriteit Brussel, Belgium																																																	
Personal skills and competences																																																		
Mother tongue(s)	Romanian																																																	
Other language(s)	English																																																	
Self-assessment <i>European level (*)</i>																																																		
English	<table border="1"> <thead> <tr> <th colspan="4">Understanding</th> <th colspan="4">Speaking</th> <th colspan="2">Writing</th> </tr> <tr> <th colspan="2">Listening</th> <th colspan="2">Reading</th> <th colspan="2">Spoken interaction</th> <th colspan="2">Spoken production</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>B2</td> <td>Independent user</td> <td>B2</td> <td>Independent user</td> <td>B2</td> <td>Independent user</td> <td>B2</td> <td>Independent user</td> <td>B1</td> <td>Independent user</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>										Understanding				Speaking				Writing		Listening		Reading		Spoken interaction		Spoken production				B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B1	Independent user										
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(*) Common European Framework of Reference for Languages																																																		
Organisational skills and competences	Coordinator of 2 research projects (research project for Young PhD students and Postdoctoral Research project) and participant to 7 other projects (national and international)																																																	
Technical skills and competences	Study of lactic acid bacteria from various fermented foods and dairy products and characterization of their metabolites (bacteriocins and exopolysaccharides); applications as pro- and prebiotics. Techniques of general microbiology and biochemistry																																																	
Computer skills and competences	Microsoft Word, Microsoft Office Powerpoint, Microsoft Office Excel, etc. Aeronautical School "Henri Coanda" and Institute of Biology of Romanian Academy																																																	
Driving licence	Driving licence category B																																																	
Additional information	The results obtained were published in 7 scientific papers (3 articles were published in journals with impact factor) or were presented at scientific meetings (17 presentations) in the country and abroad, in a form of posters or oral presentations.																																																	
Annexes	List of publications List of projects																																																	

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List of publications

1. Zamfir, M., F. Vaningelgem, **S. Tudor**, A. Laudoni, L. De Vuyst, 2004, Isolation and characterization of some exopolysaccharides produced by *Streptococcus thermophilus* and their importance in obtaining yoghurt with improved rheological properties, Proceedings of the Institute of Biology, vol. VI, 435-444.
2. Zamfir, M., **S. Grosu-Tudor**, F. Vaningelgem, L. De Vuyst, 2005, Influence of the growth conditions on exopolysaccharides production by selected *Streptococcus thermophilus* strains, Proceedings of the Institute of Biology, vol. VII, 337-345.
3. Van der Meulen, R., **Grosu-Tudor, S.S.**, Mozzi, F., Vaningelgem, F., Zamfir, M., Font de Valdez, G., De Vuyst, L., 2007, Screening of lactic acid bacteria isolates from dairy and cereal products for exopolysaccharide production and genes involved, International Journal of Food Microbiology (IF 2,608), 118, 250-258.
4. Zamfir M., **Grosu-Tudor S.S.**, De Vuyst L., 2007, Lactic acid bacteria in food industry and health, Proceedings of the 1st International Conference ENVIRONMENT–NATURAL SCIENCES–FOOD INDUSTRY IN EUROPEAN CONTEXT, Baia Mare, November, 16-17, p. 465-471.
5. **Grosu-Tudor S.S.**, Zamfir M., Van der Meulen R., De Vuyst L., 2007, Biochemical characterization of some exopolysaccharides produced by lactic acid bacteria, Proceedings of the 1st International Conference ENVIRONMENT–NATURAL SCIENCES–FOOD INDUSTRY IN EUROPEAN CONTEXT, Baia Mare, November, 16-17, p. 472-477.
6. Zamfir, M., **S. Grosu-Tudor**, 2009, Impact of stress conditions on the growth of *Lactobacillus acidophilus* IBB 801 and production of acidophilin 801, J.Gen.Appl.Microbiol. (IF 0,846), 55, 277-282.
7. **S. Grosu-Tudor**, M. Zamfir, 2011, Isolation and characterization of lactic acid bacteria from Romanian fermented vegetables, Romanian Biotechnological Letters (accepted for publication).

Annex 2

List of projects

- **2001 - 2004** - Improving the rheological properties of fermented milk using starter culture producing exopolysaccharides - **BIOTECH project**, from the national Research Plan, project director Dr. Medana Zamfir, Institute of Biology, Bucharest.
- **2004 - 2005** - Studies of the interaction of lactic acid bacteria producing bacteriocins with other microorganisms sensitive/resistant to their inhibitory action – **CNCSIS grant**, project director Dr. Medana Zamfir, Institute of Biology, Bucharest.
- **2001 - 2006** - Screening for and isolation and purification of novel bacteriocins from dairy lactic acid bacteria isolated from fermented foods with a potential to inhibit pathogenic bacteria – **bilateral cooperation program Romania – Flanders** – funded by MECT and the Ministry of the Flemish Community of Belgium, Project Manager Dr. Medana Zamfir, Institute of Biology, Bucharest
- **2003 - 2006** - Biodiversity and prebiotic effects of heteropolysaccharides produced by thermophilic lactic acid bacteria – **bilateral cooperation program Romania – Flanders** – funded by MECT and the Ministry of the Flemish Community of Belgium, Project Manager Dr. Medana Zamfir, Institute of Biology, Bucharest
- **2005 - 2007** - Biotechnological and molecular research for obtaining probiotic preparations for veterinary use - **CEEX/MECT project**, project manager of the Institute of Biology, Bucharest, Dr. Medana Zamfir, participants: MICROGEN Center, University of Bucharest (coordinator), USAMVB, Institute of Biology Cantacuzino Institute, Pasteur Institute, National Institute for Research Development in Biological science, S.C DEXTER SRL.
- **2007 - 2008** - Biochemical characterization and prebiotic effect of some exopolysaccharides produced by lactic acid bacteria – **CNCSIS grant**, project director Dr. Medana Zamfir, Institute of Biology, Bucharest.
- **2008 - 2010** - Biotechnological hybrid method for wastewater treatment with high ammonium content – PN II partnership in priority areas, project director Dr. Cristina Purcarea, Institute of Biology, Bucharest.
- **2007 - 2009** - Polysaccharide - secondary metabolites with biotechnological applications” **CNCSIS research project for Young PhD students** (coordinator)
- **2010 - 2012** - "Isolation of lactic acid bacteria from fermented vegetables with potential applications in food industry and health - **CNCSIS Postdoctoral Research project** (coordinator)

