



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)

Address(es)

Telephone(s)

Fax(es)

E-mail

Nationality

Date of birth

Gender

Desired employment / Occupational field

Work experience

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

Education and training

Dates

Title of qualification awarded

Insert photograph. Remove heading if not relevant (see instructions)

Diana-Roxana Pelinescu (maiden name Smarandache)

Number 3, Cristea Mateescu, bl. T4B, sc.1, ap. 42 Bucharest, Romania, postal cod 023664

+40-21-3118077; +40-21-2428483

Mobile: +40-742356951

+40-21-3118077

diana@botanic.unibuc.ro and diana_smarandache@yahoo.com

romanian

11.12.1975

F

Faculty of Biology, Biology, Department of Genetics

1998-present

Research Assistant, Researcher (1998-2002); Assistant Professor (2002-2004); Senior Assistant Professor (2004-2008); University Lecturer (2008-present)

2002-present: didactic activity - University of Bucharest, Faculty of Biology

1998-present: research activity - University of Bucharest, Faculty of Biology, Department of Genetics

University of Bucharest, Faculty of Biology, Department of Genetics, Aleea Portocalilor nr.1-3, Sector 6, Bucharest, zip cod: 060101

Didactic activity:

Courses and practical works with students of the Faculty of Biology and the Faculty of Chemistry, years II, III, Masters of Molecular Biology and Biochemistry, Genetics, Microbiology and Biotechnology, Master programs of Biodynamics and Biotechnology from the Polytechnic University of Bucharest.

Leadership Diploma and Dissertation Work in areas (two diploma/year): Molecular taxonomy of lactic acid bacteria, genetic and improvement of lactic acid bacterial strains, Biochemical and genetic characterization of strains producing bacteriocine and antimicrobial compounds, biochemical and genetic analysis of probiotic strains

Scientific research: Microbial biodiversity analysis of bacteria from human and animal tract and fermented food, improvement of lactic acid bacterial strains by electrotransformation techniques, Identification and characterization studies of microorganisms with probiotic potential, biotechnological studies regarding the obtaining of microbial biomass and bio-active compounds from strains of lactic acid bacteria used in probiotics/nutraceuticals products and as silage inoculum, organization and maintenance of a microbial culture collections, collection catalog publishing.

Scientific papers 2001 - present: 20 Scientific articles in peer-reviewed journals Thomson ISI; 20

Scientific articles in journals from IDB (MEDSCAPE – MEDLINE, NCBI, BIOSIS Previews); 11

Scientific articles in Romanian journals; 26 Scientific papers presented at international congresses / published in abstract; 25 Scientific works presented at Roumanian congresses / published in abstract; 4 patents

Coordinator of scientific research: two projects

2000 - 2007

PhD in Biologie

Principal subjects/occupational skills covered
Biology, Microbiology, Genetics

Name and type of organisation providing education and training
University of Bucharest, Faculty of Biology

Level in national or international classification
PhD studies

Dates
1998-2000

Title of qualification awarded
Master's degree applied Enzymology, A Nr. 0001496

Principal subjects/occupational skills covered
Cell Biocatalysts, biosensors, catalysis, enzymology, genetic engineering

Name and type of organisation providing education and training
University of Bucharest, Faculty of Chemistry

Dates
1994-1998

Title of qualification awarded
Biochemist/Bachelor's Degrees, R Nr. 0034814

Principal subjects/occupational skills covered
Chemistry, Biochemistry, Physics, Mathematics, Cell Biology and Molecular, Microbiology, Biophysics, Genetics, Pedagogy

Name and type of organisation providing education and training
University of Bucharest, Faculty of Chemistry

Level in national or international classification
University studies

Dates
1990 – 1994

Title of qualification awarded
Highschool degree, J Nr. 185783

Principal subjects/occupational skills covered
Branch of knowledge: Biology, Chemistry, Physics,

Name and type of organisation providing education and training
Al. I. Cuza Highschool, Bucharest / Ministry of Education

Level in national or international classification
Highschool studies

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s) **English, French**

Self-assessment
European level ()*

Language

Language

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
1	English	C2	1	C2	1	C1	1	C2	1
2	French	C2	2	C2	2	B2	2	B2	2

(*) [Common European Framework of Reference for Languages](http://europass.cedefop.europa.eu)

Social skills and competences

Organisational skills and competences

Technical skills and competences

Computer skills and competences
MS Office 2007 and Vista, different programs like CorelDraw, Adobe Photoshop, Internet

Artistic skills and competences

Other skills and competences
Driving licence

Additional information

MEMBER IN NATIONAL / INTERNATIONAL SCIENTIFIC SOCIETIES

Member of the Society of Biological Sciences in Romania

Member of Romanian Society of Biochemistry and Molecular Biology, affiliated to the Federation of European Biochemical Societies

Member of Romanian Society of Microbiology, affiliated to the European Federation of Microbiological Societies

Annexes

Publication list, Patents list, National / international projects

ANNEXE 1

List of most relevant publications

I. Books / monographs / treatise

1. Jurcoane S. (coordonator), Cornea P., Stoica I., Vassu T., Rodu A., Sasarman E., Lazar V., Israel F., Vintila T., Dragomirescu M., Tamba R., Burcea M., Dinu L., Luchian V., Smarandache D., Balotescu C., Popa. *Biotechnology Treaties. Vol. II*, Technical Publishing House, Bucharest, 2006, ISBN (10) 973-31-2279-3, (13) 978-073-31-2279-1

IIa – Scientific articles in peer-reviewed journals Thomson ISI

1. Ditu L.M., Chifiriuc M.C., Bezirtzoglou E., Voltsi C.B., Pelinescu D., Mihaescu G., Lazar V., 2011, Modulation of virulence and antibiotic susceptibility of enteropathogenic *Escherichia coli* strains by *Enterococcus faecium* probiotic strain culture fractions, *Anaerobe*, in press
2. Pelinescu D., Chifiriuc M.C., Ditu L.M., Sarbu I., Bleotu C., Vassu T., Stoica I., Lazar V., Corcionivoschi N., Sasarman E., 2011, Selection and characterization of probiotic potential of some lactic acid bacteria isolated from infant faeces, *Romanian Biotechnological Letters* Vol. 16, 3, pp. 6178 - 6189
3. Vassu-Dimov T., Pelinescu D., Dumitriu S., Enache-Soare S., Radu-Popescu M. A., Balotescu C., Udristoiu A., 2010, Molecular biological techniques used for the identification of *Candida* spp., *Farmacia*, vol. 58 (4), p.422-429.
4. Vamanu E., Vamanu A., Pelinescu D., 2010, Synthesis and Partial Biochemical Characterization of the Bacteriocin produced by the *Lactobacillus paracasei* YR strain, *Revista de Chimie*, 61, 5, pp 502-505.
5. Chifiriuc M.C., Bleotu C., Pelinescu D.R., Lazar V., Ditu L.M., Vassu T., Stoica I., Dracea O., Avram I., Sasarman E., 2010, Patterns of colonization and immune response elicited from interactions between enteropathogenic bacteria, epithelial cells and probiotic fractions, *International Journal for Biotechnology and Molecular Biology Research* Vol. 1(4), pp. 47–57
6. Vamanu E., Vamanu A., Pelinescu D., 2010, Microbial biofilm formation under the influence of various physical-chemical factors, *Biotechnology & Biotechnological Equipment* 24, 3, 1993-1996.
7. Vamanu E.I., Pelinescu D., Avram I., Vamanu A., Vassu T., Câmporeanu G., Popa O., Băbeanu N., 2010, The identification and the influence of different glucides on the production of exopolysaccharides at the strains *Lactobacillus sp.* IL2 and *Lactobacillus sp.* IL3, *Romanian Biotechnological Letters* Vol. 15, No.3, p. 5133 - 5239
8. Pelinescu D.R., Sasarman E., Chifiriuc M.C., Stoica I., Nohit A.-M., Avram I., Serbancea F., Dimov Vassu T., 2009, Isolation and identification of some *Lactobacillus* and *Enterococcus* strains by polyphasic taxonomical approach, *Roum. Biotechnol. Lett.*, Vol. 14, No. 2, 2009, pp. 4225-4233
9. Israil A.M., Chifiriuc M.C., Delcaru C., Iordache C., Pelinescu D., Sasarman E., 2009, Evaluation and monitoring of quorum sensing soluble mediators implicated in the regulation of bacterial growth of *Vibrio* strains, *Roum. Biotechnol. Lett.* 14 (2), 2009, pp. 4211-4224
10. Enache-Soare S., Pelinescu D., Ionescu R., Avram I., Stoica I., Vassu-Dimov T. 2009, Molecular identification of some yeast strains involved in oral candidosis, *Roum. Biotechnol. Lett.*, Vol. 14, No.1, 2009, pp. 4180-4186.
11. Tanase A.M., Trasca C., Vassu T., Olteanu A., Pelinescu D., Csutak O., Inescu R., Stoica I., 2009, Phylogenetic Analysis on 16S Ribosomal DNA of *Pseudomonas* Strains from Oil Polluted Soil, 2009, *Romanian Biotechnological Letters* Vol. 14, No. 6, pp. 4779-4785
12. Tanase A.-M., Vassu T., Trasca C., Csutak O., Pelinescu D., Ghindea R., Olteanu A., Stoica I., 2009, Molecular and phylogenetical analysis on biodegrading strains of *Pseudomonas stutzeri*, *Roum. Biotechnol. Lett.*, Vol. 14 (6), pp. 4779-4785
13. Enache –Soare S., Stoica I., Pelinescu D., Chifiriuc C., Nicoara A., Vassu-Dimov T., 2008, Virulence factors in *Candida albicans* and *Candida parapsilopsis* species and minimal inhibitory concentration for fluconazole, *Roum. Biotechnol. Lett.*, vol 13, no.5, p.3898-3906.
14. Vamanu E., Vamanu A., Popa O., Vassu T., Ghindea R., Pelinescu D., Nita S., Băbeanu N., Effect of the Yeast and Bacteria Biomass on the Microbiota in the Rumen, *Pakistan Journal of Biological Science*, 2008, 11 (18), p. 2217 -2223..
15. Teodor E., Bîrsan C., Smarandache D., Penu R., Radu G. L., 2007, Determination of hydrosoluble vitamins content and antioxidant activity of some yeast strains with probiotic potential, *Revista de Chimie*, 58: 12, p.1249-1252.

- Chifiriuc M.C., Lazar V., Dracea O., Ditu L.M., Smarandache D., Bucur M., Larion C., Cernat R. and Sasarman E., 2007, Drastic Attenuation of *Pseudomonas aeruginosa* Pathogenicity in a Holoxenic Mouse Experimental Model Induced by Subinhibitory Concentrations of Phenyllactic acid (PLA), *Int. J. Mol. Sci.*, 8, 583-592

IIb – Scientific articles in journals form IDB (MEDSCAPE – MEDLINE, NCBI, BIOSIS Previews)

- Cotar AI, Chifiriuc MC, Dinu S, Pelinescu D, Banu O, Lazăr V., 2010, Quantitative real-time PCR study of the influence of probiotic culture soluble fraction on the expression of *Pseudomonas aeruginosa* quorum sensing genes, *Roum Arch Microbiol Immunol.* 69(4):213-23.
- Chifiriuc MC, Bleotu C, Ditu LM, Smarandache D, Săsărman E, Banu O, Drăcea O, Larion C, Veronica L., 2009, In vivo experimental model for the study of the influence of subinhibitory concentrations of phenyllactic acid on *Staphylococcus aureus* pathogenicity, *Roum Arch Microbiol Immunol.* 68(1):34-7.
- Smarandache D., Balotesc C., Vassu T., Lazar V., Sasarman E., Israil A. M., 2005, In vivo experimental study of the beneficial effects of some selected lactic acid bacteria against the gastro-intestinal colonization with *Salmonella enteritidis*, *Roum. Biotechnol. Lett.*, vol. 10, no 6, p. 2481-2493.
- Smarandache D., Lazar V., Balotescu M. C., Vassu T., Ghindea R., Sasarman E., Petrache M. L., Orasanu M., Cernat R., 2004, Characterization of adhesion properties to the cellular substratum of some *Enterococcus* strains selected for potential use in probiotic products or food products, *Roum. Biotechnol. Lett.*, vol. 9, no. 3, p. 1669-1674.

PATENTS LIST

- Patent no. 123277 B1/30.05.2011: Isolation, selection and preservation process for a probiotic strain of *Enterococcus faecium*, lactic acid bacteria for zootechnical applications.
Authors: D. Pelinescu, C. M. Chifiriuc, E. Săsărman, T. Vassu Dimov, I. Stoica, S. Enache Soare, R. Ionescu, I. Avram
- Patent no. 123278 B1/ 30.05.2011: Isolation, selection and preservation process for a probiotic strain of *Lactobacillus paracasei* ssp. *paracasei*, lactic acid bacteria for human uses.
Authors: Sasarman E., Chifiriuc C.M., Pelinescu D., Bleotu C., Vassu T., Stoica I.
- Patent no. 119062 B1 from 30.11.2004: *Procedure for obtaining a fermented feed.*
Authors: Vassu T., Săsărman E., Stoica I., Jurcoane Ș., Vintilă T., Smarandache D., Nohit A., Csutak O., Mușat F., Grancea O., Gherasim R.
European Patent Office - Data supplied from the *esp@cenet* database – Worldwide
International Patent Classification (IPC): A23K3/02; C12N1/20; A23K3/00; C12N1/20; (IPC1-7): A23K3/02; C12N1/20ANNEXE 2

MOST RELEVANT PROJECTS

No.	Period	Project title	Role in the project	Project tipe
1.	2000 -2002	Identification, biochemical and genetic characterization of lactic acid bacteria strains of biotechnological interest	Director	CNCSIS tip AT
2.	2002	Activities on the organization and functioning as depositary authority for the purpose of patent procedure, of a national and international collection of microorganisms with biotechnological interest.	Research team member	RELANSIN
3.	2004-2006	Study cell processes at the interface adhesion / biocompatible thin film / substrate with applications to microorganisms and DNA	Research team member	CERES
4.	2003-2004	Computerized analysis of genomic DNA for some strains of biotechnological interest	Research team member	BIOTECH
5.	2005-2008	Biotechnology and molecular research to obtaining probiotic for veterinary use	Research team member	CEEX –BIOTECH 9/2005
6.	2006-2008	Physiological, biochemical and genetic studies against yeasts pathogenic strains of medical interest	Research team member	TD-GR 206/2006
7.	2006-2007	The impact of mycotoxins produced by <i>Fusarium</i> species on the food chain, investigating ways to counter their toxicity in order to improve the quality and safety standards imposed by EU membership	Research team member	CEEX-AGRAL 25/ 2005
8.	2006-2008	Advanced biotechnologies for obtaining biopreparates to control plants diseases and ensure quality products in accordance with EU	Research team member	CEEX –BIOTECH 52/2006

		requirements		
9.	2006-2008	Biotechnology for obtaining nutraceuticals products wich regulate metabolic functions	Research team member	CEEX –BIOTECH 80/1.08.2006
10.	2007-2010	Integrated system to reduce contamination with fungi and mycotoxins in baking industry, in order to increase food safety	Research team member	PN II-51-005/2007
11.	2007-2010	Biotechnological studies on obtaining natural synbiotic products	Research team member	PNII- 6147/2007
12.	2008-2011	Biotechnology research on obtaining probiotic products based on high-producing bacteriocine as bioregulator of human intestinal microflora	Research team member	PNII 62-050/2008
13.	2010 - 2013	The molecular study for mechanisms of antimicrobial activity of probiotic strains against urogenital infectious agents by location	Director	TE 66/2010

INTERNATIONAL PROJECTS

No.	Period	Project title	Role in the project	Project tipe
1.	2001 -2004	Molecular analysis and mechanistic elucidation of the functionality of probiotics and prebiotics in the inhibition of pathogenic microorganisms to combat gastrointestinal disorders and to improve human health	Research team member	FP6

24.10.2011

