



Europass Curriculum Vitae

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Personal information

First name(s) / Surname(s) **TATIANA ELISABETA VASSU-DIMOV**
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E-mail tatiana@botanic.unibuc.ro
Nationality romanian
Date of birth 08.12.1952
Gender F

Desired employment /
Occupational field **Faculty of Biology, PhD, Biology, Dep. Genetics**

Work experience

Dates 1988-present
Occupation or position held Assistant Professor(1988-1991); University Lecturer(1991-1996); Associate Professor(1996-2001); Professor(2001-present)
Main activities and responsibilities *1995 –present: Director of the Center for Research, Training and Consulting in Microbiology, Genetics and Biotechnology- MICROGEN*
1996 – 2004: Vicedean of the Faculty of Biology, University of Bucharest
2004 – present: Dean of the Faculty of Biology, University of Bucharest
Name and address of employer University of Bucharest, Faculty of Biology, Department of Genetics, Aleea Portocalilor nr.1-3, Sector 6, Bucharest, zip cod: 060101
Type of business or sector 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: genetics and improvement of non-conventional yeast strains, classical genetic and electrotransformation of the yeast and bacteria, Molecular taxonomy from non-conventional yeasts and the xenodegradative bacteria, cloning genes of interest in biotechnology in the shuttle vectors, improved strains of bacteria and yeasts with economic potential, plasmids encoding of characters involved in lactic bacteria useful, plasmid epidemiology and plasmid patterns from pathogenic bacterial strains, biochemistry and molecular genetic analysis of the strains of pro-/eucariote microorganisms with biodegradative abilities
Technical guidance to 10 Ph.D. students in the genetics of microorganisms (in 1999-2009)
Director of the MICROGEN (CNCSIS accredited- Center of excellence of type C)
Management and coordinator of scientific research- 50 projects(CNCSIS, PNII, CEEX, World Bank Group), from 27 of which was project director, in areas: study genes involved in genetic regulation of metabolic pathways in different industrial strains of yeast, molecular genetic studies of taxonomic value from biotechnology and microorganisms with potential probiotic, studies of microorganisms with potential xenodegradativ
Vicedean and Dean of the Faculty of Biology- Management and coordinator of academic activity
OTHER ACTIVITIES
- member of the committee for admission to college and License, and admission committees States
Recent changes from masters of the Faculty of Biology, Bucharest. I also was part of the commission for occupation of the teaching positions in the Department of Biology, and PhD committees

Education and training

Dates	1981 - 1987
Title of qualification awarded	PhD in Biologie
Principal subjects/occupational skills covered	Biology, Microbiology, Genetics
Name and type of organisation providing education and training	Central Biology Institut from Bucharest /Ministry of Education
Level in national or international classification	PhD studies
Dates	1975-1976
Title of qualification awarded	Specialist in Cell Biology/ Specialization certificate in year V
Principal subjects/occupational skills covered	Cell Biology, Bioncology, Molecular embriology, Genetics
Dates	1971-1975
Title of qualification awarded	Biologist/Bachelor's Degrees
Principal subjects/occupational skills covered	Biology, Microbiology, Genetics, Cell Biology, Biochemistry, Chemistry
Name and type of organisation providing education and training	Faculty of Biology, University from Bucharest / Ministry of Education
Level in national or international classification	University studies
Dates	1967 – 1971
Title of qualification awarded	Highschool degree
Principal subjects/occupational skills covered	Branch of knowledge: Biology, Chemistry, Physics
Name and type of organisation providing education and training	Mihail Sadoveanu 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			
English	C2	1.	C2	1	C1	1	C2	1
French	C2	2.	C2	2	B2	2	B2	2

(*) [Common European Framework of Reference for Languages](http://www.cedefop.europa.eu/en/files/questdocument/20080101/20080101_01_en.pdf)

Social skills and competences

Organisational skills and competences	<p>Menegerial skills – Head of Discipline, Vice-Dean, Dean at the Faculty of Biology <u>As Head of Discipline and Head of Research Centre -MICROGEN</u> The entier activity was based on the following objectives: 1 – University education reorganization after the european model in the branch of Biology; 2 –The development of scientific research to achive international level; 3 – Employment of young graduates in research projects 4 – Fund raising for education and research <u>As Vice-Dean and Dean at the Faculty of Biology</u> I've been involved in managing following situations: - administrative problems regarding students - admission contests organization at the Faculty of Biology - interior spaces rearrangement of the Faculty of Biology - raising national funds for equipments aquistion - organization of new international courses - involved in numerous PhD presentation - facilitating international contracts with representative of various universities and improve interpersonal relationships in college</p>
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	Editorial skills - Editor at Romanian Biotechnological Letters
Driving licence	No
Additional information	<p>MEMBER IN NATIONAL / INTERNATIONAL SCIENTIFIC SOCIETIES</p> <p>Vice President of the Romanian Genetic Association (since 2006) Member of the Society of Biological Sciences in Romania Member of Romanian Society of Cell Biology 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 Member of the New York Academy of Sciences (since 1995) NOMINALIZATION: - for People of the 20th Century , 1997 edition; - for Who's Who in Science 1998 - Personalities encyclopedia from Romania, Hubners Who is Who, 2007 - CME certificate - Biochemistry, Biology and Chemistry Order in the health system in Romania EXPERT EVALUATORS: - CNCSIS from 1996 - PNCDI between 2001 - 2004 - CEEEX from 2000</p>
Annexes	Publication list, Patents list, National / international projects coordinator list

ANNEXE 1

LIST OF MOST RELEVANT PUBLICATIONS

I. Books / monographs / treatise

1. Vassu T., Stoica I., Csutak O., 2010, *Genetic and Gentic Engineering. Course Notes*, University of Bucharest Ed., 213 p., ISBN 978-973-737-846-0.

2. Stoica I., Vassu T., 2006, *Classical Genetics (Chapter 1), Nucleic Acid Structure (Chapter 2), Chromosome in eukaryotic and prokaryotic organisms (Chapter 3), Function of the genetic material (Chapter 4)*. In: *Biotechnology Treaties*, vol.II, Ș.Jurcoane (coordonator), P.Cornea, I.Stoica, T.Vassu, Ed.Tehnic, Bucharest. ISBN (10) 973-31-2279-3 and ISBN (13) 978-973-31-2279-1.

3. Stoica I., Vassu T., Sasarman E., 2003, *Biology and Molecular Taxonomy of Microorganisms*, Microbial culture collection, Ed. Arvin Press, Bucharest, 180 p. ISBN 973-96090-3-8.
4. Vassu T., Stoica I., Csutak O., Mușat F., 2001, *Genetics of Microorganisms and Microbial Genetic Engineering, Lecture Notes and Laboratory Techniques*, Petron Ed., Bucharest, 256 p. ,ISBN 973-9470-24-6.
5. Anghel I., Vassu T., 1991, Chapter. Genetic basis of improving industrial yeasts (p101-211), in monography *Yeast Biology and Tchnology, vol 2*, Coord. Prof.dr. I.Anghel, Tehnic Ed., Bucharest.
6. Vassu T., Sonia D., 1989, *Techniques in Microbiology.In: Practicum of Biology II. Animal Biology*, chief editor I.Anghel abd C.Voica, University of Bucharest Typography, p 332-383.
7. Brezeanu A., Anghel I., Vassu T., 1988, Cap.8 - *Protoplast application in biotechnology* (p 198-310) and Chapter10 – Yeast Genetic Transformation (p 320-332), in *Genetic Engineering – Course Notes*, Coord. Prof.dr. I.Anghel, University of Bucharest Typography.
8. Anghel I., Vassu T., Toma N., Moisa I., Cîrciumărescu D., 1985, *Microorganism Genetics. Lab Techniques*, University of Bucharest Typography, 264 p.

II. Scientific articles in peer-reviewed journals (ISI Web of Science, ISI Proceedings, CAB Abstracts, MEDSCAPE – MEDLINE, NCBI, BIOSIS Previews)

Ila – Scientific articles in peer-reviewed journals Thomson ISI

1. Rusu E., Enache-Soare S., Cristescu C., Cristescu V., Vassu T., 2011, Identification of species of the genus *Candida* by analysis of 5.8S rRNA gene, *Roum. Biotechnol. Lett.* (accepted)
2. Csutak O., Ghindea R., Stoica I., Tanase A-M., Vassu T., 2011, Identification of two yeast strains from oil-polluted environment by RFLP on ITS-5.8S rDNA and RAPD analysis, *Roum. Biotechnol. Lett.* (in press)
3. Tanase A-M., Nicoara A., Vassu T., Chiciudean I., Ionescu R., Csutak O., Stoica I., 2011, Phenotypic and genotypic analysis on bacterial strains from a karathane polluted soil, *Roum. Biotechnol. Lett.*, vol.16, no.1, p.141-148
4. Tanase A-M., Moraru C., Vassu T., Ionescu R., Pelinescu D., Csutak O., Stoica I., 2011, Phylogenetic analysis of oil polluted soil microbial strains, *Roum. Biotechnol. Lett.* (in press)
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, *Int. J. Biotech. Mol. Biol.*, vol.1, no.4, p. 47-57.
6. Vamanu E., Pelinescu D., Avram I., Vamanu A., Vassu T., Câmpeanu 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, *Roum. Biotechnol. Lett.*, vol. 15, no.3, p. 5133-5139
7. Csutak O., Stoica I., Ghindea R., Tanase A.-M., Vassu T., 2010, Insights on yeast bioremediation processes, *Roum. Biotechnol. Lett.*, vol. 15, no.2, p. 5066-5071
8. Ghindea R., Csutak O., Stoica I., Tanase A-M., Vassu T., 2010, Production of xylitol by yeasts, *Roum. Biotechnol. Lett.*, vol. 15, no. 3, p. 5217-5222
9. Negruță O., Csutak O., Stoica I., Rusu E., Vassu T., 2010, Identification of some methylotrophic yeast strains of biotechnological interest, *Roum. Biotechnol. Lett.*, Roum. Biotechnol. Lett., vol. 15, no.2, p. 5159-5166.
10. Negruță O., Stoica I., Csutak O., Rusu E., Vassu T., 2010, Methylotrophic yeasts: diversity and methanol metabolism, A review, *Roum. Biotechnol. Lett.*, vol. 15, no. 4, p. 5369-5375
11. 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 *Labctobacillus* and *Enterococcus* strains by polyphasic taxonomical approach, *Roum. Biotechnol. Lett.*, Vol. 14, No. 2, 2009, p. 4225-4233.
12. Ghindea R., Vassu T., Stoica I., Tanase A-M, Csutak O., 2009, Preliminary taxonomic studies on yeast strains isolated from dairy products, *Roum. Biotechnol. Lett.*, vol.14, no.1, p: 4170-4179.
13. Tanase A.-M., Trasca C., Vassu T., Olteanu A., Pelinescu D., Csutak O., Ionescu R., Stoica I., 2009, Phylogenetic analysis on 16S ribosomal DNA of *Pseudomonas* strains from oil polluted soil, *Roum. Biotechnol. Lett.*, vol.14, no.6, p.4779-4785.
14. Tanase A.-M., Vassu T., Trasca C., Stoica I., 2009, *In situ* visualization of natural microbial communities in black sea coastal shelf sediments, *Roum. Biotechnol. Lett.*, vol.14, no.1, p. 4187-4193.
15. 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.

16. 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.
17. Negruță O., Vassu T., Pelinescu D., Stoica I., Csutak O., Ghergheata E., Sasarman E., 2008, Comparative morpho-physiological analysis and mutagenesis of some methylotrophic yeast strains of biotechnological interest, *Roum. Biotechnol. Lett.*, vol 13, no.3, p.3757-3765.
18. Vamanu E., Vamanu A., Popa O., Vassu T., Ghindea R., Pelinescu D., Nita S., Babeanu N., 2008, Effect of the yeast and bacteria biomass on the microbiota in the rumen, *Pakistan Journal of Biological Science*, vol. 11, no 18, p. 2217 -2223.
19. Nohit A.-M., Vassu T., Trasca C., Csutak O., Pelinescu D., Ghindea R., Ionescu R., Soare S., Stoica I., 2008, Preliminary analysis on biodegrading strains of *Pseudomonas stutzeri*, *Roum. Biotechnol. Lett.*, vol 13, no.1, p.3595-3605.
20. Csutak O., Vassu T., P. Cornea, I. Grebenisan, 2007, Genetic characterization of two new *Metschnikowia* strains with antifungal activity, *Roum. Biotechnol. Lett.*, vol. 12, no. 2, p:3175-3182.
21. Dinca V. C., Soare S., Barbalat A., Dinu C. Z., Moldovan A., Stoica I., Vassu T., Purice A., Scarisoareanu N., Birjega R., Craciun V., Ferrari DeStefano V., Dinescu M., 2006, Nickel-titanium alloy: Cytotoxicity evaluation on microorganism culture, *Applied Surface Science*, vol 252, no 13 [SPECIAL ISSUE], p. 4619-4624.
22. Fologea D., Vassu T., Stoica I., Csutak O., Radu M., 1998, Increase of *Saccharomyces cerevisiae* Plating Efficiency after Treatment with Bipolar Electric Pulses, *Bioelectrochemistry and Bioenergetics*, ELSEVIER, Netherlands, vol. 46, p. 285-287.

III. Invited speaker at international conferences / meetings

1. Current Issues in genetically engineered bacteria - Postgraduate Course: "From cell and molecular biology to the medicine of the 21st century", oct. 2006, Institute of Cellular Biology and Pathology, Nicolae Simionescu, Bucharest
2. Research on genetics of lactic acid bacteria in Romania – "Flemish-Romanian Workshop on Lactic acid bacteria biodiversity and functional properties", Vrije Universiteit Brussel, Universiteit Ghent, nov. 2004, Bruxelles, Belgia.
3. *Problemes actuels du clonage genetique chez levures* - "Cours de Formation Post-Universitaire dans le domaine des Sciences de la Vie" – CEFOR et Universite Francophone, nov 1999, Bucharest
4. *Electrostimulation of yeast division*, FEBS advanced course, Bucharest, 1997.
5. *Genetic analysis and improvement of industrial yeast strains* – Universite Louis Pasteur, Strasbourg, Franța, iul 1996

ANNEXE 2

PATENTS LIST

1. Patent no. 123277 B1/30.05.2011: Process for isolation, selection and preservation of a probiotic strain of *Enterococcus faecium*, lactic bacteria from livestock use

Authors: D. Pelinescu, C. M. Chifiriuc, E. Săsărman, T. Vassu Dimov, I. Stoica, S. Enache Soare, R. Ionescu, I. Avram
Brevet de inventie nr. 123278 B1/ 30.05.2011

2. Patent no. 123278 B1/ 30.05.2011: Process for isolation, selection and preservation of *Lactobacillus ssp paracasei paracasei* probiotic strains, lactic bacteria for human use

Authors: Sasarman E., Chifiriuc C.M., Pelinescu D., Bleotu C., Vassu T., Stoica I.

3. 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; C12N1/20

4. Patent no. A 100 103 din 30.01.2001: *Method of preservation and improvement of the nutritional value of forage plants by fermentation*

Authors: Vassu T., Săsărman E., Stoica I., Vintilă T., Smarandache D., Nohit A.-M.
European Patent Office - Data supplied from the *esp@cenet* database – Worldwide

5. Patent no. 108251 B1 din 31.03.1993 : *Obtaining procedure for Somatic Hibrid Saccharomyces cerevisiae x Saccharomyces diastaticus-CD.*

Authors: Popovici Stela, Niculescu Stelian, Vassu-Dimov Tatiana

MOST RELEVANT PROJECTS

No.	Period	Project title	Role in the project	Project type
1.	2002-2004	Identification, genetic characterization and taxonomic classification of yeast strains isolated from different ecosystems	Director	CNCSIS tip A
2.	2002-2004	Ecosystems contaminated with hydrocarbons remediation using microbial biotechnological methods	Director	BIOTECH
3.	2002-2005	Natural growth promoter environmentally friendly used as alternative to antibiotics treatment of animal feed	Director	RELANSIN
4.	2003-2005	Advanced Technology for a new multifunctional biomimetic implant (IBM) with biomedical applications	Director	INVENT
5.	2004-2006	Study cell processes at the interface adhesion / biocompatible thin film / substrate with applications to microorganisms and DNA	Director	CERES
6.	2003-2004	Computerized analysis of genomic DNA for some strains of biotechnological interest	Director	BIOTECH
7.	2003-2004	Computerized system for genomic analysis of some microorganisms with biotechnological interest	Director	BIOTECH nr 3 -301
8.	2003-2005	Investigating the effects of low doses of radiation (sublethal) on cell cycle status by monitoring cell cycle	Director	CERES-3- 133/2003 16333/2003
9.	2004-2006	Molecular studies of microbial strains that degrade hexadecane and dodecane. Molecular analysis of microbial biodiversity	Director	CNCSIS 1143/2004
10.	2005-2008	Integrate pathogenetic network (platform) to transform research results in biomedical domain	Project manager	CEEX -VIASAN 28/2005
11.	2005-2008	Biotechnology and molecular research to obtaining probiotic for veterinary use	Director	CEEX -BIOTECH 9/2005
12.	2006-2007	The impact of mycotoxins produced by Fusarium species on the food chain, investigating ways to counter their toxicity in order to improve the quality and safety standards imposed by EU membership	Project manager	CEEX-AGRAL 25/ 2005
13.	2006-2008	Advanced biotechnologies for obtaining biopreparates to control plants diseases and ensure quality products in accordance with EU requirements	Project manager	CEEX -BIOTECH 52/2006
14.	2006-2008	Biotechnology for obtaining nutraceuticals products which regulate metabolic functions	Project manager	CEEX -BIOTECH 80/1.08.2006
15.	2007-2008	Control of bacterial interaction with human cells on Nanostructured surfaces: strategies for developing Intelligent surfaces	Project manager	CEEX -RELANSIN 119/2066
16.	2007-2008	Development of advanced biocatalytic systems for transesterification of vegetable oils to biodiesel	Project manager	PN II 61-063/2007
17.	2007-2010	Biotechnological studies on obtaining natural synbiotic products	Project manager	PNII- 6147/2007
18.	2008-2011	Advanced technology based on genetically modified organisms to produce xylitol, for human health and for prevent disease	Project manager	PNII 62-064/2008
19.	2008-2011	Biotechnology research on obtaining probiotic products based on high-producing bacteriocine as bioregulator of human intestinal microflora	Project manager	PNII 62-050/2008

INTERNATIONAL PROJECTS

No.	Period	Project title	Role in the project	Project type
1	1998-2003	Studies on quinolinic pollutants biodegradation by bacterial consortia and pure strains – biochemical and genetic analysis of xenodegradative process.	Research team member	CNCSIS – World Bank

20.11.2011

