



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) Popescu, Sorina
Address(es) Str. Iuliu Maniu, no. 11, ap. 4, Timisoara, zipp code 300188
Telephone(s) +40256277296 **Mobile:** +40 743117030
Fax(es) +40256277296
E-mail biotehnologii_usab@yahoo.com
Nationality Romanian
Date of birth 19.01.1964
Gender female

Occupational field Associate Professor in the Genetically Engineering Department
Head of Molecular Genetics Laboratory
Member of the National Biosafety Committee –250/02.03.2012

Work experience

Dates 2002 - 2014
Occupation or position held Lecturer (2002- 2006), Associated Professor (2006-2014)
Main activities and responsibilities Teaching and research activities in molecular biology, genetic engineering and biotechnology, with applications in agriculture
Organization and RENAR accreditation of Laboratory of Molecular Genetics (LI certificate 812/2009), with the object of Detection and Quantification of GMO's
Member of examination committee for license degree and dissertation, member of Internal Audit Committee of the Faculty of Horticulture and Forestry
Preparing documentation for ARACIS accreditation of Master Program Plant Genetic Manipulation.
Name and address of employer Banat's University of Agricole Sciences and Veterinary Medicine from Timisoara, Calea Aradului str., No: 119, Website: www.usab-tm.ro/
Type of business or sector University level
Dates 1997 - 2002
Occupation or position held Research engineer
Main activities and responsibilities Research activities in genetics and molecular biology.
Name and address of employer Banat's University of Agricole Sciences and Veterinary Medicine from Timisoara, Calea Aradului str., No: 119, Website: www.usab-tm.ro/
Type of business or sector Research
Dates 1987 - 1997
Occupation or position held Research engineer
Main activities and responsibilities Research activities, products design and technologies.
Name and address of employer S.C. Venus, Jimbolia, Str. Moșilor, no. 15
Type of business or sector Plastics materials production

Education and training

Dates 05.2011
Title of qualification awarded Principles and Application of Metrology in Chemistry

Principal subjects/occupational skills covered	Traceability of measurements results, single laboratory validation of measurement procedures, statistics for analytical chemistry, uncertainty of measurement results, inter-laboratory comparisons.
Name and type of organisation providing education and training	JRC European Commission, Institute for Reference Materials and Measurements.
Level in national or international classification	Post university training
Dates	04.2009
Title of qualification awarded	Auditor in quality domain.
Principal subjects/occupational skills covered	Communication-specific audit, audit team work, professional development training, analysis and assessment of quality system compliance and effectiveness.
Name and type of organisation providing education and training	About SRAC services Group, Ministry of Labour, Family and Equal Opportunities and the Ministry of Education, Research and Youth.
Level in national or international classification	Post university training
Dates	03.2007
Title of qualification awarded	qPCR specialization
Principal subjects/occupational skills covered	qPCR technique, ADNc sintesis, quantification strategies, statistical interpretation of data
Name and type of organisation providing education and training	Tataa Biocenter, Goeteborg, Suedia
Level in national or international classification	Post university training
Dates	03 – 04. 2006
Title of qualification awarded	Molecular biology and gene expression specialization
Principal subjects/occupational skills covered	Genes expression evaluation and quantification methods
Name and type of organisation providing education and training	IOWA State University, Horticulture Faculty, SUA
Level in national or international classification	Post university training
Dates	06.2005
Title of qualification awarded	Specialization in methods of detection of genetically modified organisms(GMO) domain.
Principal subjects/occupational skills covered	Methods of DNA extraction from food and feed ,detection of transgenes presence by PCR or ELISA techniques, quantification of GMOs (RT-PCR)
Name and type of organisation providing education and training	Joint Research Centre, European Commision
Level in national or international classification	Post university training
Dates	10.1997-12.1999
Title of qualification awarded	Molecular genetics
Principal subjects/occupational skills covered	Biochemistry, Molecular Genetics, Genetic Engineering, skills in DNA, investigative methods, cloning, DNA libraries analysis.
Name and type of organisation providing education and training	Biological Research Centre, Szeged, Ungaria
Level in national or international classification	Post university training
Dates	10.1997-11.2002
Title of qualification awarded	PhD in Horticulture, Genetics specialization.
Principal subjects/occupational skills covered	Genetics, Molecular Biology, , skills in DNA, investigative methods, cloning, DNA libraries analysis.

Name and type of organisation providing education and training | Banat's University of Agriculture Sciences and Veterinary Medicine from Timisoara, Calea Aradului str., No: 119,

Level in national or international classification | PhD programme.

Dates | 1982 - 1987

Title of qualification awarded | Chemical Engineer

Principal subjects/occupational skills covered | Inorganic Chemistry, Organic Chemistry, Analytical Chemistry, Mathematics, Physical - Chemistry / skills in Chemical Engineering.

Name and type of organisation providing education and training | Faculty of Chemical Technology, Polytechnic Institute Traian Vuia, Timisoara

Level in national or international classification | University training

Personal skills and competences

Mother tongue(s) | **Romanian**

Other language(s)

Self-assessment
European level ()*

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Experimented User	C1	Experimented User	B2	Independent User	C1	Experimented User	C1	Experimented User

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences | Team spirit:: teamwork experience gained as member of research teams in the university; Ability to adapt to multicultural environments, gained from training courses abroad (Hungary, USA, Sweden) and during the course of cooperation cross-border projects Romania-Hungary. Communication skills were acquired during teaching activities practical lessons and courses.

Organisational skills and competences | Organizational experience gained as director of research projects and throughout the organization and accreditation of the Laboratory of Molecular Genetics.

Technical skills and competences | Competent in use of laboratory equipment

Computer skills and competences | Computer operating skills: Word, Excel, PowerPoint

Additional information | Contact person : Prof Dr. Badea Elena, elenamarcelabadea@yahoo.com

Annexes

Selective list of research grants
List of scientific research papers

LIST OF RESEARCH GRANTS

	Program/Project	Responsibility	Period
1	Cross-border Cooperation HURO 9001: Szeged-Timisoara axis for the safe food and feed	Project manager	2011 - 2012
2	CNCSIS /The study of the expression of the genes involved in the alfalfa phytoremediation process.	Project manager	2007-2008
3	CNCSIS / The lead effect evaluation on the <i>Medicago sativa</i> - <i>Rhizobium meliloti</i> symbiotic system	Project manager	2004-2005
4	UEFISCDI / The salinity tolerance screening of legume land races in order to preserve the genetic potential and biodiversity	Scientific Responsibility- molecular analysis	2012-2014
5	Agricultural Ministry , /Tehnicul unit for competitive grants scheme - Evaluation at farm level, of the impact of some culture maize technology in Romania on biodiversity, quality and harvest quality.	Research team member	2008-2010
6	Inovation, Modul I / 10 /19.09.2007/ Sunflower hybrids improved with foreign genes isolated from wild species of <i>Helianthus annuus</i> to induce the resistance to sulphonil sulfonylurea herbicides	Research team member	2007-2009
7	Excellence research, Modul IV The development of the capacity for detection, identification and quantification of the genetically modified organisms and their molecular derivatives in food and feed products, according to the EU standards.	Research team member	2006-2008
8	CNCSIS / Field testing and molecular characterization of genetically modified potato by cry III A gene transfer that confers resistance to Colorado beetle.	Research team member	2006-2008
9	Excellence Research, modul I /Improving the quality of the alfalfa feed by modifying plant architecture with the help of biotechnological methods	Scientific coordinator	2005-2008
10	Excellence research, modul I / Building a new genetic basis for future cereal	Scientific coordinator	2005-2008
11	PHARE Cross Border Cooperation / The cross border co – operation, a premise for achievement of an integrated common framework for the management of the plant genetic resources, RO2003/005.702.02	Assistant manager	2005
12	PHARE Cross Border Cooperation The cross border co – operation Regarding the management of genetic vegetal patrimony and the training of domain experts.	Assistant manager	2004
13	PHARE Cross Border Cooperation / Managementul durabil al resurselor genetice vegetale din zona de Vest a României – parte esențială a protecției mediului	Research team member	2003
14	World Bank /Promotion and extension of sustainable and efficient technologies in potato culture.	Research team member	2001-2005

SCIENTIFIC PAPERS LIST

PhD thesis title:

Physical mapping of Nod region at *Medicago truncatula*, scientific coordinator Prof. Dr. Gallia Butnaru, 2002

Published books:

- **Biologie moleculara (Molecular Biology), Mihacea (Popescu) S.**, Editura Solness, 2006
- **Markeri moleculara (Molecular Markers), Mihacea (Popescu) S.**, Editura Solness, 2006
- **Biotehnologie modernă. Plantele modificate genetic (Modern Biotechnology. Genetically Modified Plants)**, Badea E., Mihacea (Popescu) S., Nedelea G, Editura Cartea Universitară, 2005
- **Compendiu metodologic pentru cercetări moderne de biochimie și biologie moleculară (Methodological compendium for biochemistry and molecular biology research), Mihacea (Popescu) S.**, Frantescu M., Nedelea G., Editura Marineasa, 2005
- **Plante transgenice. Obținere, testare, cultivare (Transgenic plants. Obtaining, testing and cultivation), Coordinators: Badea E., P.I.Otiman – Popescu S., 2 chapters coordinator**

ISI journals

1. Endre, G., Kereszt, A., Kevei, Z., **Mihacea (Popescu), S.**, Kalo, P., Kiss, G.B., (2002) *A receptor kinase gene regulating symbiotic nodule development*, Nature, 417, 962-966
2. Endre, G., Kalo, P., Kevei, Z., Kiss, P., **Mihacea (Popescu), S.**, Szakal, B., Kereszt, A., Kiss, G.B., (2002) Genetic mapping of the non-nodulation phenotype of the mutant MM-1008 in tetraploid alfalfa (*Medicago sativa*) Mol. Genet. Genomics, 266, 1012-1019, DOI 10.1007/s00438-001-0628-3
3. Kiss, G.B., Kalo, P., Kereszt, A., **Mihacea (Popescu), S.**, Endre, G., (2000) An effort towards the map based cloning of a gene conditioning non-nodulation trait in tetraploid *Medicago sativa*, în Nitrogen Fixation: From Molecules to Crop Productivity, Kluwer Academic Publishers, 317-318
4. J. Csiszár, E. Lantos, I. Tari, E. Madoșă, B. Wodala, Á. Vashegyi, F. Horváth, A. Pécsváradi, M. Szabó, B. Bartha, Á. Gallé, A. Lazăr, G. Coradini, M. Staicu, S. Postelnicu, S. **Mihacea (Popescu), G.** Nedelea, L. Erdei (2007), Antioxidant enzyme activities in *Allium* species and their cultivars under water stress, PLANT SOIL ENVIRON., 53, (12): 517–523
5. Tari I., Camen D., Coradini G., Csiszar J., Fediuc E., Gemes K., Lazar A., Madosa E., **Mihacea (Popescu) S.**, Poor P., Postelnicu S., Staicu M., Szepes A., Nedelea G., Erdei L., (2008), Changes in chlorophyll Fluorescence parameters and oxidative stress responses of bush bean genotypes for selecting contrasting acclimation strategies under water stress, Acta Biologica Hungarica 59 (3) 335-345
6. Zaulet M., Rusu L., Kevorkian S., Luca C., **Mihacea (Popescu) S.**, Badea E., Costache M. (2009) Detection and quantification of GMO and sequencing of the DNA amplified products Romanian Biotechnological Letters, Vol. 14, No. 5
7. **Popescu S.**, Leprince F., Ioja Boldura O.M., Marutescu A., Sabau I., Badea E., 2010, Quantification of pollen mediated gene flow in maize, Romanian Biotechnological Letters, Vol. 15, nr. 3, ,pag. 5351-5360
8. Popescu S., Ioja Boldura O. M., 2010, The six KNOX genes identification on tetraploid *Medicago sativa*, based on the model plant resources, Romanian Biotechnological Letters, Vol. 15, nr. 2:32-40
9. Ciulca A., Ciulca S., Madosa E., **Mihacea (Popescu) S.**, Petolescu C., 2010, RAPD analysis of genetic variation among some winter barley cultivars, Romanian Biotechnological Letters, Vol. 15, nr. 2, 19-24
10. Botau, D; **Popescu, S;** Harmanescu, M; Ianculov, I; Ciulca, S; Frant, A, , 2011, Variability study of the some biochemical traits in *Momordica charantia* cell lines. ROMANIAN BIOTECHNOLOGICAL LETTERS, 16 (1):. 60-65
11. Velicevici G., Madoșă E., Șumălan R., Ciulca S., **Popescu S.**, Petolescu C., 2012, The use of RAPD and ISSR markers for genetic diversity among some barley cultivars, Romanian Biotechnological Letters, vol 17, nr. 4: 7493:7503
12. Dumache R., Puiu M., Tudor A., Negru S., **Popescu S.**, Ioja-Boldura OM, 2012, Cell-free DNA, a novel noninvasive biomarker in prostate malignancy, Toxicology Letters 211
13. Dumache R., **Popescu S.**, Minciu R., Negru S., Puiu M., 2013, Molecular Detection of Prostate cancer by methylation-specific polymerase chain reaction from urine specimen, J Med Biochem 32: 233–237
14. Boldura O.M., **Popescu S.**, 2013, KNOX genes expression as a marker of the multileaflet trait in alfalfa, Current opinion in Biotechnology, 2013, Volume 24, Supplement 1
15. Hutu I., Boldura O.M., **Popescu S.**, Balta C., Chis C., Mircu C., A multiplex PCR approach to the quantification of cow milk in goat products, Current opinion in Biotechnology, 2013, Volume 24, Supplement 1

1. Boldura O.M, **Popescu S.**, Lazar A., Balta C., 2013, DNA Based methods for food components identification, Proceedings of the Conference "Sustainable agricultural production: restoration of agricultural soil quality by remediation"2013, Novi Sad, Serbia: University of Novi Sad: 31-37
2. Lazăr A., Petolescu C., Velicevici G., Cretescu I., **Popescu S.**, Boldura O.M., Posta G., Berar V., 2013, The plantlets rooting of chilli pepper obtained in vitro culture conditions, Proceedings of the Fourth International Conference, Publisher Bulgarian National Multidisciplinary Scientific Network of the Professional Society for Research work, Vol 2, Lozenec, Bulgaria: 26-34
3. **Popescu S.**, Boldura O.M., 2013, Fungal infection evaluation for different ecological products, JOURNAL of Horticulture, Forestry and Biotechnology Volume 17 (2) , 2013: 268-273
4. **Popescu S.**, Boldura O.M. Lazăr A., Ursu C., The assessment of the variability induced by tissue culture to *Cymbidium* sp. using RAPD markers, JOURNAL of Horticulture, Forestry and Biotechnology Volume 17 (2): 273-277
5. Lazăr A., Petolescu C., Velicevici G., **Popescu S.**, Boldura OM, Poșta G., Berar V, 2013, Experimental aspects concerning in vitro growing of the chilli pepper (*Capsicum annuum* L.) JOURNAL of Horticulture, Forestry and Biotechnology Volume 17 (2): 153-158
6. Butnaru G., Sarac I., **Popescu S.**, Titescu G., Stefanescu I., 2013, The Involvement of Deuterium Presence in the *Drosophila* *Melanogaster* Evolution. Diverse Effects of Deuterium Concentrations Upon the Phenotype of Different Strains and Romanian Ecotypes, Progress of Cryogenics and Isotopes Separation, Volume 16, issue 2/2013: 133-141
7. **Popescu S.**, Iojă-Boldura O.M., 2012, Evaluation of the genetically modified corn resistance to fungal infection, JOURNAL of Horticulture, Forestry and Biotechnology Volume 16(1): 202-206
8. Iojă-Boldura O.M., **Popescu S.**, 2012, Fusarium strain identification in complex feeds from Romanian market, JOURNAL of Horticulture, Forestry and Biotechnology, Volume 16(1):207-211
9. Iojă-Boldura O M, **Popescu S.**, 2011, The evaluation of six KNOX genes expression for in vitro grown tetraploid *Medicago sativa* plants, Journal of Horticulture, Forestry and Biotechnology, Timișoara, Volume 15(1): 222- 226
10. Iojă-Boldura O. M., **Popescu S.**, Bruznican S., Hutu I., 2011, Applicability of a multiplex PCR assay for the identification of animal species in feedstuffs, Bulletin of University of Agricultural Sciences And Veterinary Medicine Cluj-Napoca,, Volume 68 (1-2): 179-185
11. Iojă-Boldura O. M., **Popescu S.**, Hutu I., 2011, A molecular approach for screening of toxigenic *Fusarium graminearum* in feedstuff Cluj-Napoca: 422
12. **Popescu S.**, Iojă-Boldura O.M., Hutu I., 2011, A simplex PCR assay for the identification of fish material in feed , Veterinary Medicine Scientific Papers Timișoara, Vol. XLIV(1), pag. 191- 197
13. Iojă Boldura O.M., Radu F., **Popescu S.**, Borozan A., 2010, Regeneration, micropropagation, callus cultures and somatic embryogenesis of common sage (*Salvia officinalis* L.), Bulletin UASVM Horticulture, 67 (1): 308-312
14. Petolescu C., Lazar A., **Popescu S.**, Iojă Boldura O.M, 2010, RAPD variation in alfalfa plantlets, Journal of Horticulture, Forestry and Biochemistry, vol. 14 (1), pag. 162-165
15. **Popescu S.** Iojă Boldura O.M., Petolescu C., Lazar A., Badea E., 2010, The maize gene flow evaluation based on transgene detection and quantification , Journal of Horticulture, Forestry and Biochemistry, vol. 14 (2),: 221-225
16. Iojă Boldura O.M., **Popescu S.**, Badea E., Schitea M., Petolescu C., Lazar A., 2010, Studies regarding the genetic basis of the multileaflet trait on alfalfa, Journal of Horticulture, Forestry and Biochemistry, vol. 14 (2): 226-230
17. Lazăr A., Petolescu C., **Popescu S.**, 2010, Experimental results concerning the effect of photoperiod and calus culture duration on anthocyanin amount. Journal of Horticulture, Forestry and Biochemistry, vol. 14 (2): 153-157
18. Lazăr A., Petolescu C., **Popescu S.**, 2010, Studies concerning the "in vitro" multiplication of *Nephrolepis exaltata* 'Fluffy Ruffles, Journal of Horticulture, Forestry and Biochemistry, vol. 14 (3): 191- 194
19. Lazăr A., Petolescu C., Bîtea N., **Popescu S.**, 2010, Researches concerning the behavior of *Cymbidium* sp. protocorms cultured in "in vitro" cell culture; Journal of Horticulture, Forestry and Biochemistry, vol. 14 (3): 188-191
20. Chelu F., **Mihacea (Popescu) S.**, Badea E., Detection and Quantification of the Bt proteins from transgenic plant materials and from soil, Romanian Journal of Biochemistry, 46, Suppl., 2009, pag. 126, poster Editura Academiei Romane
21. **Mihacea (Popescu) S.**, Boldura O.M., 2009, Detection of Genetically Modified Genetic Corn and Soybean in Complex Feed Products, Analele Universitatii din Craiova, seria Agricultura – Montanologie- Cadastru, Vol. XXXIX: 254-259
22. **Mihacea (Popescu) S.**, Boldura O.M., Petolescu C., Badea E., 2009, The GM (genetically modified) detection and quantification in different corn samples , Journal of Horticulture, Forestry and Biochemistry, vol. 13: 398-402
23. Botau D., Lazar A., **Mihacea (Popescu) S.**, Petolescu C., Harmanescu M., Ianculov I., Ciulca S., Gergen I. (2009) Researches regarding somatic variability induced by cell suspension on Bitter melon (*Momordica charantia* L.) 44th Croatian & 4th International Symposium on Agriculture, Genetics, Plant Breeding and Seed Production <http://www.cabdirect.org/abstracts/20113119062.html>
24. Badea E., Ciulca S., **Mihacea (Popescu) S.**, Danci M., Cioroga A., Dragoescu , 2008, Study of agronomical characters of some potato lines genetically modified for resistance to Colorado beetle attack, 17th Triennial Conference of the European Association for Potato Research, Potato for a changing world, Brasov, Romania, 2008, pag. 409-413
25. Petolescu C., **Mihacea (Popescu) S.**, Nedelea G., The intralocus and average gene diversity among romanian alfalfa genotypes, Buletin USAMV-CN, 65(1-2)/2008(-): 89-95
26. Mihacea (Popescu) S., Cincu E., 2008, Studies regarding lead regulated genes and metal hyperaccumulation Buletin USAMV-CN, 65(1-2)/2008(-): 66-72
27. **Mihacea (Popescu) S.**, Cincu E., 2008, Expression studies of the genes involved in the phytochelatin methabolic pathway, Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Vol. 65 (1-2): 312-316

28. Botau D., **Mihacea (Popescu) S.**, Petolescu Cerasela, Furdi Florina, Gherghen I., Harmanescu Monica, 2008, The evaluation of variability induced by in vitro culture of *Momordica charantia* using RAPD markers, *Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca*, Vol. 65 (1-2): 312-316
29. Badea E., Petolescu C., **Mihacea (Popescu) S.**, Obtaining homozygous lines tolerant to sulfonylurea by in vitro culture of unfertilized sunflower ovules and preliminary studies on the progeny of gynogenetic plant – International Conference “Conventional and Molecular Breeding of Field and Vegetable Crops”, Novi Sad, Serbia, 24-27 November 2008, pag. 307-310 www.ifvcns.co.yu/breeding08)
30. **Mihacea (Popescu) S.**, Boldura O., Schitea M., Badea E., 2007, Researches regarding DNA sequence variability for different alfalfa genotypes, *Proceeding of the International Conference “ Agricultural and Food Sciences, Process and Technologies, Sibiu: 247-253*
31. Dragoescu C., **Mihacea (Popescu) S.**, Badea E., Costan A., Nedelea G., 2007, Studies concerning the in vitro regeneration capacity among different Romanian alfalfa genotypes, *Proceeding of the International Conference “ Agricultural and Food Sciences, Process and Technologies, Sibiu: 139-143*
32. Boldura O., **Mihacea (Popescu) S.**, Schitea M., Badea E., 2007, The polymorphism identification between mapping population possible parents using RAPD markers, *Proceeding of the International Conference “Agricultural and Food Sciences, Process and Technologies, Sibiu, 2007: 59-65*
33. **Mihacea (Popescu) S.**, Madosa E., Botau D., Nedelea G., Baliga D., 2007, Genetical analysis for some *Phaseolus vulgaris* landraces, *LUCRĂRI ȘTIINȚIFICE VOLUMUL 15 (2), Materialele simpozionului științific internațional “Realizări și perspective în horticultură, viticultură, vinificație și silvicultură”, Universitatea Agrară de Stat din Moldova, Facultatea de Horticultură: 264-268*
34. Furdi F., **Mihacea (Popescu) S.**, Nedelea G., 2007, The storage protein polymorphism emphasizing among some autumn wheat genotypes , *Buletinul USAMV Cluj-Napoca, seria Zootenie și Biotehnologii, vol. 63-64: 365-369*
35. Boldura O., **Mihacea (Popescu) S.**, Schitea M., Badea E., 2007, Genetic mapping in alfalfa (*Medicago sativa*) with microsatellites markers, *CERCETĂRI ȘTIINȚIFICE , SERIA A XI - A, U.S.A.M.V.B.T., Ed. Agroprint, Timișoara: 479-484*
36. Wodala B., Lantos E., Csiszar J., Madosa E., Tari I., Vashegyi A., Horvath F., Pecsvaradi A., Szabo M., Bartha B., Lazar A., Coradini G., Staicu M., Postelnicu S., **Mihacea (Popescu) S.**, Nedelea G., Erdei L., 2007, Initial responses to drought: apparent differential strategies observed in an array of Brassica and Pisum landraces, *CERCETĂRI ȘTIINȚIFICE, SERIA A XI-A, U.S.A.M.V.B.T., Ed.Agroprint, Timișoara: 1-9*
37. Dragoescu C., **Mihacea (Popescu) S.**, Badea E., Nedelea G., 2007, RAPD analysis of the in vitro regenerated alfalfa plants, *CERCETĂRI ȘTIINȚIFICE, SERIA A XI - A, U.S.A.M.V.B.T., Ed. Agroprint, Timișoara: 491-494*