



Curriculum vitae



Personal Information

Surname/ Firstname **PAMFIL C. Doru**

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Web sites <http://www.usamvcluj.ro/files/CVs/cv%20pamfil.pdf>
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Nationality Romanian

Civil status Married, 2 children

Birth date October 21, 1953, Cluj-Napoca

Gender Male

Work place University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca
Calea Manastur, nr 3, Cluj-Napoca 400092, judetul Cluj, Romania

Didactic title / Full university professor,
Scientific degree Doctor in Agronomy (annexed degree)

Discipline / Agricultural biotechnology, molecular biotechnology, genetically modified organisms, genetic
Key words modification, genomics, food security.

Domains of competence

- ◇ Biotechnology:
 - Genomics: genetic print and dendrograms,
 - Marker selected selection MAS,
 - Genetically modified organisms: qualitative and quantitative analyses,
 - Soma-clonal variability,
 - Genetic transformations,
 - Bioreactors: technologies of fermentation,
 - Micro-propagation *in vitro*,
 - Thermo-therapy and ELISA virus-free tests,
- ◇ Microbiology: soil microbiology, rhyso be cultures;
- ◇ Expertise PC: Scanalytics (DNAscan 2.11, RFLP/RAPDscan 2.01, ZEROD scan 1.0),
Stratagene 2.4, PHYLIP 3.5, NTSYS 1.7, Alpha Imager, AplhaEase 5.2, Genescan 7
Phoretix 5.1; Photoimage 2.2, MS Office 2004, Adobe Page Maker 6.0, Corell 9

Areas of interest Agricultural biotechnologies, molecular biology, genomics, Food security, GMO, Agriculture



Education and training

Studies - Doctor's Degree in Agronomy, 1984, Faculty of Agriculture, USAMV Cluj-Napoca (Agronomic Institute)
- Bachelor of Science – certified agronomic engineer, 1977, Faculty of Agriculture, USAMV Cluj-Napoca (Agronomic Institute) annex

Specializations and qualification trainings

1981 - British Council Exchange Program. Stations: Littlehampton, Long Ashton, Documentation: micro-propagation *in vitro* - 2 months;

1984 – University of Columbia, New York. Documentation: micro-propagation and andro-genesis *in vitro*,
1 month;

1990 – Station of Horticultural Research, Micro-propagation Unit, Gembloux.
Specialization: commercial micro-propagation, SCFM scholarship, 1 month;

1991 – Bruxelles Free University, Department of Genetics.
Specialization in electronic microscopy, 1 month
– Genetech, Gembloux, Specialization in markers molecular, 1 month;

1992 – University of Köln, Documentation: Soma-clonal variability, 1 month;

1993 – University De Monfort, Leicester and Lincoln College. Romanian-British Academic Link Project,
Documentation Biotechnologies, 1 month;

1994 – University of Maryland, College Park, MD., scholarship Fulbright.
Specialization: Identification of somaclonal variability method RAPD, 3 months;

1995 – Institute for Plant Science, USDA, Beltsville, MD., scholarship Fulbright
Specialization: RAPD Analyses at *Rubus sp.*, - 7 months;

1996 – Institute for Plant Science, Beltsville MD, invited researcher,
Specialization: RAPD Analyses at vine, apple tree and *Rubus sp.*, - 6 months;

1997 – Institute for Plant Science, Beltsville, MD, invited researcher.
Work training period: PC usage in RAPD analyses, 1 month;

1997 – University of Konstanz, Department of Biotechnology, invited professor, 2 months.

1998 – Institute for Plant Science, Beltsville, MD, Biotechnology Laboratory,
Work training period: Using PC in RAPD, USDA analyses, *research fellow*, 1 month;

1999 – Institute for Plant Science, Beltsville, MD, *research fellow*,
Work training period: Usage of genetic print, 1 month;

2000 – Station of Horticultural Researches, Department of Biotechnology
Gembloux. Specialization: Analyses by the method of *differential display*, 2 weeks ;

2000 – University of Nottingham, Documentation for jointly-supervised doctorate
Biotechnologies, 2 weeks

2001 – University of Nevada, Reno, College of Agriculture and Biotechnology,
Documentation visit for the creation of a joint-master, 1 month.

2002 – University of Maryland, Collage Park MD, Dept. Plant Science 1 month;
– Agricultural University of Copenhagen, Dept. of Biotechnology, doc. 3 weeks.

2003 – University of Nottingham, research program of joint-doctorate, 3 weeks ;
- Agricultural University of Gembloux, Department of molecular biology,
- University of Nevada, Reno, Department of Biotechnology,
Specialization in markers assisted selection - 3 weeks .

2005 – University of Nevada, Reno, Department of Biotechnology,
Specialization in the technique of stem cells - 1 month

2006 – University of BOKU, Vienna, Department of Biotechnology
Documentation regarding quantitative determinations OMG – 2 weeks .
– ICHGM Crete, Greece, Lab of genetics and biotechnology
Documentation in the domain of lab accreditation OMG, 1 week

2007 – ENGL Ispra, GMO laboratory, - Specialization in OMG techniques, 1 week

2008 - University of Nothingam, Documentation for postdoctoral biotechnology program, 2 annual jobs
of research:



Professional experience	1977- 1989 Researcher, Station of Horticultural Research Cluj-Napoca, laboratory of cultures and tissues
Period /	1987-1989 Associated assistant, USAMV Cluj-Napoca (Agronomic Institute)
Position taken / Name of employer	1990 1994 Lecturer, USAMV Cluj-Napoca
	1994-1998 Principal lecturer USAMV Cluj-Napoca
	1998-2002 Professor USAMV Cluj-Napoca
	2002- Professor PhD supervisor, USAMV Cluj-Napoca
Professional membership	1991 Romanian Association of Vegetal Tissue Cultures– founding member;
	1991 Belgian Plant Tissue Culture Group – member;
	1991 Romanian Association of Biotechnology – member;
	1992 Romanian Association of Plant Protection Transylvania – member;
	1993 International Association of Plant Tissue Culture – member;
	1994 American Society for Horticultural Science – member ;
	1995 (American) Society for In Vitro Biology – member;
	1995 European Tissue Culture Association – member;
	1997 International Association for Horticultural Science – member 58246
	2000 Romanian Association of Horticulture- member
	2007 ESNA- European Society for New Methods in Agricultural Research, WG4 - Genetics
	2008 EUCARPIA – member 3227
	2000-2005 Member of CNCSIS Council, commission 5, vice-president in 2005;
Professional organizations	2001-2003 Member in MECT National commission for Degrees certificates;
	2002 - Member of the consortium of Regional Agency of North-West development;
	2002 - Member in the European Consortium of GMO Laboratories Genetic EU, Ispra, Italia;
	2002 –Associated Member of the Academy of Agricultural Sciences and Veterinary Medicine;
	2004-2006 Member in the National Commission of Bio-security of the Ministry of Environment;
	2005-Member in MECT National Commission for doctorates;
	2006-Member of the CNCSIS National Council Bucharest ;
	2007-Member in National Commission for Ethics, MECT;
	2007- Member in the steering board of the European Consortium for GMO Laboratories EU, Ispra, Italia;
	2008-Member in the National Commission of Bio-security, ANM;
	2009-Corresponding member of the Romanian Academy

Projects /Research Contracts coordinated (as a director or responsible)	International Projects:
	- INTEREG IVC – 0340R1 Common Land for sustainable management COMMOND (2009-20013)
	- FP7-OC-2007-2-1705 – Molecular farming MOLFARM 2009-1013 (2008-2011)
	-Leonardo, RO/2003/B/NT/BB/17056, Quality Management Network for CEECs (Central and East European Countries) –Network for Management Quality - QUAMANCEEC.
	- Leonardo: RO/2004/PL 91176/S Professional practical work for students in the agrarian and economic areas in Southern Germany
	- Leonardo RO/2002/PL 89074 – Professional practical work for students in the agrarian and economic areas in Baden-Wurttemberg
	-FP5-QLK3 CT-2002-02140 Study on the environment impact on the diversity and dynamics of viruses at the vine and transgenic plum tree TRANSVIR (2004-2006)
	- FP4-INCO/COPERNICUS PL 96-6084 Study of the regulation of fruit-tree growth - TUTOR (1998-2001)
	- World Bank BCUM, nr. 35/2000: National Laboratory for genetic markers - LAMARGEN, (2000-2002)
	- USDA-FAS. Identification of species and varieties of Rubus, with the aid of RAPD markers, program of scientific cooperation (1997-1999)
	- Fulbright Project, USDA Beltsville, Study of the soma-clonal variability of horticultural species (1994-1995)



Proiecte/Contracte de
cercetare coordonate
(director sau responsabil)

Interdisciplinary Potdoctoral Program: Applied Biotechnology with impact in the Romanian and Bio-economy (SPD-BIOTECH nr. 52432/2007-2013).

Improvement of agricultural master studies by promoting innovation and ensuring quality, in accordance with the requirements of the qualifications in Romania and European Union (CALIMAS nr. 61841/2007-2013)

PNCD 2 MODULE I, NR. 52129/2008, Collecting, improving and preservation of Transylvanian early

maize Identification of some maize genotypes for the production of bio-ethanol, GERMFOR

-PNCD 2, MODULE I, NR. 52179/2008, Management of integrated cultures and systems for the

realization of quantitatively and qualitatively higher cultures

-PNCD 2 IDEI, NR. 1499/2008, Application of recurrent selection and MAS in hybrid inter-specific

populations of apple tree for the identification of genotypes resistant at the attack of main diseases

-PNCD 2 MODULE I, NR. 51-003/2007 – Study of wine genetic print, GENOVIN

-PNCDI 2 Module I, nr. 2879/2007 – Use of molecular biotechnologies in breeding of culture plants of economic interest

-PNCD 2 Module I, nr. 61-049/2007 – Study of some genes involved in arterial-sclerosis in the post-genomic era - GENATERO

- MEC Platforms, nr. 97/2006 – Knowledge-based Platform of Biotechnologies

-CEEX Module IV, nr. 229/2006 – National Reference Laboratory for the assessment and certification of conformity of vegetal products containing genetically modified organisms - CERTOMG

-CEEX Module II, nr. 1537/2006 – Use of MAS genetic markers assisted selection at plants, for the analysis of some disease-resistant genes

-CEEX Module I, 6785/2006 – identification of some RAPD markers associated to the presence of the gene resistant in low temperature water at the species *Poecilia reticulata*

CEEX Module I, nr. 101/2006 - Ex situ preservation of original genetic resources at *Prunus*, *Juglans*, *Corylus* and *Castanea* based on the genetic and agro-biologic evaluation, CONSERGEN

CEEX Module I, nr. 102/2006 – Serum and molecular variability of the insulates of the Romanian *Plum pox* virus and their geographic spreading at the level of the main fruit-tree growing regions – VSMPPV

-CEEX Module I, nr. 30/2006, Using bees as bio-monitors in evaluating the risk of gene flow from the genetically modified plants at other meliphorous plants which are not genetically modified

-CEEX Module I, AGRAL 28/2006 – The increase of the scrapie resistance in the ovine populations of Romania by means of assisted selecting at molecular level for the sustainable development of the breeding and exploitation of ovines - OVINES

-CEEX Module I, nr.48/2005 – Advanced biotechnologies of micro-multiplication, preservation and somaclonal selection of ornamental trees and bushes for landscape rehabilitation - ARBORT

-BIOTECH, nr. 3297/2003 – Use of genetic markers for the rise of production and quality of dairy milk -

BIOTECH, nr. 4573/2003 – Use of RADP molecular markers in the study of some genotypes of sugar maize

-CNCSIS grant A, nr. 207/2003 – Study of soma-clonal variability at the vine with the aid of molecular markers

-CNCSIS, grant A, nr. 793/2002-Use of genetic markers in the identification of the synthesis ways of the stevioside at *Stevia*

-RELANSIN-AGRAL, nr. 1619/2000 Regeneration of some genotypes and local populations of potato in Transylvania.

-CNCSIS grant A, nr. 510/2002 - Use of RADP molecular markers in the study of some *Rubus* species in Romania

-CNCSIS grant A, nr. 119/1999. – Evaluation of germoplasm resources with the aid of genetic markers in view of the preservation of vegetal national patrimony and of the use thereof as breeding material

-CNCSIS grant A, nr. 128/1996 Production of flower planting material with biologic and phyto-sanitary characteristics corresponding to international standards



Published papers 225 scientific publications, 8 books

List of significant
papers published

- Kovacs, Katalin, Hill, PJ, Grierson, D, Pamfil, D, Dodd Christine E. R., Fray, RG, 2009, Development of a novel inducible bioluminescent and antibiotic resistance tagging system and its use to investigate the role of antibiotic production by *Pectobacterium carotovorum* ssp *carotovorum* during potato tuber infection, *European Journal of Plant Pathology*, 125 (4): 655-664 (ISI)
- Sestras R, Pamfil D, Sestras A, et al., 2009 Inheritance of Vigour Tree in F1 Apple Interspecific Hybrids, *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, Volume: 37 (1), 70-73 (ISI)
- Botez C, Pamfil D, Curticiu D, et al.2009, Marker Assisted Selection for Septoria tritici Resistance in Wheat Dihaploid Lines, *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, 37 (1) 253-255 (ISI)
- Zagrai I, Zagrai L, Ferencz B, Pamfil D. et al.: Serological and Molecular Typing of Plum pox Virus Isolates in the Transylvania, Romania, *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, 37(1), 265-272 (ISI)
- Sestras R, Pamfil D, Ardelean M, et al., 2009, Use of Phenotypic and MAS Selection Based on Bulk Segregant Analysis to Reveal the Genetic Variability Induced by Artificial Hybridization in Apple, *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, Volume: 37, Issue: 1, 273-277 (ISI)
- Pamfil, D., 2008, Agriculture from green revolution to green biotechnology. Proc., 3rd International Symposium on Agriculture, Opatija, Croatia, Section 3, 69-75.
- Zagrai L., I. Zagrai, I. Gaboreanu, K. Kovacs, I. Petricele, O. Popescu, D. Pamfil, N Capote, 2008, Serological, and molecular typing of *Plum pox* virus, isolated in North of Romania. *Journal of Plant Pathology*, 90 (1) 41-46. (ISI)
- Botez, C., D. Pamfil, R. Sestras, M. Ardelean, , B. Patrascu, and A. Sestras, 2007, Phenotypic selection assisted by molecular markers for scab resistance in apple. In *Fruit Breeding and Genetics* , 12-th EUCARPIA, Eucarpia Fruit Section, 227-228.
- Rusu, Anda Raluca, D. Pamfil, Graham J.G., Smith K., V.A. Bâlceanu, Gh. Groza, Ioana Bondrea, Bianca Pătrascu, 2006, Simple Sequence Repeat SSR markers used in *Rubus* species from Romania flora and North-European and North-American cultivars (*Rubus idaeus*). *AcademicPres, Bulletin USAMVCN-Biotechnology*, 62: 252-258.
- Botez, C., D. Pamfil, M. Ardelean, V. Florian, P. Raica, Meda Lucaci, 2006, Molecular methods for revealing genetic variability in potato late blight, in *Biotechnology and Sustainable Agriculture*, 11th IAPTC&B Congress, Beijing, China.61-64.
- Patrascu, Bianca, D. Pamfil, R. Sestras, C. Botez, Ioana Gaboreanu, A. Barbos, Chen Qin, Raluca Rusu, Ioana Bondrea, and E. Dîrle, 2006, Marker assisted selection for response attack of *Venturia inaequalis* in different apple genotypes. *Notule Botanice Hort. Agrobot. Cluj* vol. 34 (1) 121- 133.
- Zagrai, I., Ioana Gaboreanu, Beatrix Ferencz, Luminita Zagrai, D. Pamfil, O. Popescu, M. Ravelonandro, Nieves Capote, and Katalin Kovacs, 2006, First detection and molecular characterization of *Plum pox* virus recombinant strain in Romania. *AcademicPres, Bulletin USAMVCN- Biotechnology*, 62, 291-298.
- Pop, Rodica, M. Ardelean, Ioana Gaboreanu, D. Pamfil, Mirela Cordea, P. Raica, Monica Bodea, Maria Cantor (2005) RAPD Analysis in revealing molecular polymorphism of grape varieties from vineyards of Romania, XL Croatian Symposium on Agriculture, Opatija, 15-18 February, 229-230.
- Rusu, A. R., D. Pamfil, V.A. Balteanu, 2004, Modern method for molecular taxonomic investigation of the *Rubus* genus. *AcademicPres, Bulletin USAMVCN-Biotechnology*, 60:, 401-402.
- Pamfil, D., P.H. Zimmerman, K. Naess, H. Swartz, 2000, Investigation of *Rubus* breeding abnormalities and taxonomy using RAPD analysis. *Small fruits Review*, vol. 1 (1), 43-53
- Pamfil, D., H. Swartz, C. Ness, R. H. Zimmerman, 1996, Identifying *Rubus* species using Random Amplified Polymorphic DNA, Proc. XXII Congress of American Society for Horticultural Sciences, Lexington., 783-789.

Personal skills and competences Invention patents OSIM (2 patents, period 2008-2009)

Diploma Expert ISO 9001

Mother tongue Romanian



**UNIVERSITY OF AGRICULTURAL SCIENCES AND
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Foreign languages)	Self-evaluation	Understanding	Conversation	Written
Language	English	very good	very good	very good
Language	French	very good	very good	good
Language	German	good	very good	average
Language	Italian	good	average	beginner
Further information	<ul style="list-style-type: none"> ◇ PhD supervisor, area of Horticulture, Specialization - Agricultural Biotechnologies 12 PhD students, 6 full-time, 8 finalized PhD theses, 19 reports for the PhD examining commission, 2 postdoctoral students ◇ Director, „Platform of Knowledge-based Biotechnologies „, USAMV Cluj-Napoca http://www.usamvcluj.ro/html/cercetare/platforma/ Director of Research Center for genetic markers “ http://www.usamvcluj.ro/html/cercetare/platforma/ Director of National Reference Laboratory for the assessment and certification of conformity of vegetal products containing genetically modified organisms (OMG) http://www.usamvcluj.ro/labomg/ ◇ Evaluator: <ul style="list-style-type: none"> - 2000-2005 CNCSIS Commission 5, A type projects - 2003-2004 AGRAL - 2003-2005 BIOTECH - 2006-2008 CNCSIS program Idei si resurse Umane / Human ideas and resources - 2006-2008 AQA European Program of evaluation of research in the domain of Life Sciences - 2007 – International Commission of Evaluation of Research BOKU - Austria - 2007 - EU Cordis – Evaluator FP7 programs - 2008 - CNCSIS Complex projects program - 2008 -Bulgarian National Science Found ◇ Editor/member of magazines: <ul style="list-style-type: none"> - 1999- Editor and censor (reviewer) for Romania of the Central Eastern European Agriculture Journal; -2000-2008 Director of AcademicPres Printing House USAMV Cluj-Napoca, recognized by CNCSIS; -2000- Editor of the USAMV Bulletin, Cluj-Napoca, 4 series, category B+ CNCSIS; -2002- Director editor of the magazine Notulae Botanicae Horti Agrobotanici, USAMV Cluj-Napoca, (indexata ISI Web of Science) -2002- Member in the Steering Board of the magazine „Agriculture of Transylvania ” USAMVCN; -2003- Member in the redaction team of the magazine „ Botanical contributions”, UBB Cluj-Napoca; -2009 Scientific Editor Notulae Scientia Biologica, USAMV Cluj-Napoca ◇ Participation at conferences: <ul style="list-style-type: none"> 1976-2009 – participation with over 120 scientific papers at more than 80 national and international events as member, guest, moderator or co-organizer; 2001-2009 – organizer of the 9 editions of the International Symposium USAMVC-N „Prospects of the Third Millennium Agriculture” where over 3.200 scientific papers were published in English in Bulletin USAMVC-N, CNCSIS B+ 2007- – co-organizer of the First International Seminar in the domain of animal and vegetal biotechnology, 4-5 November 2007, University of Saad Dahalab, Blida, Algeria. 2007-2010 - co-organizer of the International Symposium of Agriculture, Opatia, Croatia 2010 - organizer of the XII AUF BIOVEG Conference , Cluj-Napoca 			
Permits/license	Driving license category B and C			

Annexes Doctor's Degree in Agronomic Sciences
The Diploma of Corresponding member of the Romanian Academy
ISO 9001 Expert Diploma



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