RESEARCH TOPICS AND RESULTS OF THE RESEARCH ACTIVITIES CARRIED OUT/IN PROGRESS (2008 - 2012)

Crt. No.	Research area	Research projects undertaken / in progress, concerning the specific topics	Relevant publications (ISI and BDI articles, books), that presents the results of the specific research activities on the specific topic	Coordinator / partner or collaborating institutions	Other significant results (patents, conferences, etc..)
BIOTECHNOLOGY					
1.	Techniques and processes for the production of foodstuffs and products without risk to animal and human health developed through biotechnology	Project MC/2008. The effect of honey and pollen on the multiplication of lactobacillus probiotic strains	1. E. Vamanu**,** A. Vamanu, D. Pelinescu, O. Popa, S. Niţă, N. Băbeanu, 2008, The obtaining by biotechnological methods of an ecological product based on pollen, honey and probiotic biomass of lactic bacteria, Journal of EcoAgriTourism, vol. 4, nr. 1 – 2, p. 280 – 284 -	**Coordinator USAMV Bucharest**	Second prize for career development
2.		Project 7518/2007. Biotechnological and molecular researches concerning the obtaining of probiotic products of zoo-veterinary use	1. E.Vamanu, A.Vamanu, O.Popa, T.Vassu, R.Ghindea, D.Pelinescu, S.Nita, N.Babeanu, 2008, Effect of the yeast and bacteria biomass on the microbiota in the rumen, Pakistan Journal of Biological Sciences, 11, 2217-2223.	**Coordinator: Univ.Buc**/ Partners: Free Univ.Brusseles; SC.Pasteur; IBB; USAMV Bucharest; INCDMI I.Cantacuzino	
3.		PNCDI II 61047/2007. Biotechnological studies concerning the obtaining of natural synbiotic products (BIOSIN)	1. E.Vamanu, A.Vamanu, O.Popa, N.Băbeanu, 2010, The antioxidant effect of a functional product based on probiotic biomass, pollen and honey, Scientific Papers: Animal Science and Biotechnologies, 43, 1, 331-336. 2. E.Vamanu, 2010, Biotechnologies used to obtain probiotic biomass in batch system, Archiva Zootechnica, 13, 4, 64-71. 3. E. Vamanu, A. Vamanu, D.Pelinescu, O. Popa, S.Niţă, D.A.Ionescu, N.Băbeanu, 2010, Studies concerning the obtaining of biomass from *Lactobacillus paracasei ssp. paracasei* using corn extract as nitrogen source, Lucrări Ştiinţifice - Seria Zootehnie, 52, 531-536.	**Coordinator USAMV Bucharest**/Partners: Univ.Buc; ICCF; SC Compreserv SRL	**Patent request A / 00565 / 29.06.2010**, Technology of obtaining a product based on lactic acid bacteria with microbiological and chemical composition strictly determined, Ionescu A.D., Casarica A., Rughinis D.,

			4. E.Vamanu, 2009, Studies regarding the production of probiotic biomass from Lactobacillus plantarum strains, Archiva Zootechnica, 12, 4, 92-101. 5. Vamanu A., Vamanu E., Popa O., Campeanu G., Albulescu R., Drugulescu M., Băbeanu N., 2008, Obtaining of a Symbiotic Product Based on Lactic Bacteria, Pollen and Honey, Pakistan Journal of Biological Sciences, 11, 4, 613-617.		Vamanu A., Vamanu E., Cojocaru R.I., Boca E..
4.		Ideas Theme 39/2009 Biotechnological studies concerning the influence of certain probiotic lactic bacteria strains highly producing exopolysaccharides on the human intestinal microflora	1. E. Vamanu, A. Vamanu, D. Pelinescu, S. Niţă, N. Rusu, N. Popa, 2012, Influence of the culture medium composition on the exopolysaccharides synthesis by *Streptococcus sp.* Il5 strain, Acta Alimentaria, 41, 1, 118–125 2. E.Vamanu, A.Vamanu, S.Nita, N.Rusu, 2011, The viability of the *Lactobacillus paracasei* IL2 and *Lactobacillus plantarum* IL3 strains in simulated gastrointestinal conditions, African Journal of Microbiology Research, 5, 9, 1029-1036 3. E.Vamanu, A.Vamanu, 2010, Viability of the *Lactobacillus rhamnosus* IL1 strain in simulated gastrointestinal conditions, International Journal of Pharmacology, 6, 732-737 4. 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, Romanian Biotechnological Letters, 15, 3, 5233-5239 5. 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 6. I.Sarbu, T.Vassu, I.Stoica, E.Vamanu, D.Pelinescu, 2011, Selection of lactic acid bacteria strains producing exopolysaccharides, Current Opinion in Biotechnology, 22S,S96. 7. E.Vamanu, A.Vamanu, D.Pelinescu, S.Nita, N.Rusu, 2011, The viability of the *Lactobacillus rhamnosus* IL4.2 strain in simulated gastrointestinal conditions, Scientific Papers: Animal Science and	**Coordinator USAMV Bucharest**	**Patent request A/01174/2011.** GIS2 - *In vitro* simulation system of the human colon in three stages Diploma of excellence and bronze medal at PRO INVENT 2012 Cluj-Napoca

			Biotechnologies, 44, 1, 459-464. 8. E.Vamanu, A.Vamanu, D.Pelinescu, S.Nită, N.Rusu, P.Vulpe, 2010, Obtaining of biomass and exopolysaccharides from *Lactobacillus rhamnosus* IL1 and IL4.2, Bulletin UASVM Animal Science and Biotechnologies, 67, 1-2, 437-444. 9. E.Vamanu, A.Vamanu, D.Smarandache, O.Popa, N.Băbeanu, S.Nită, F.Marin, G.Danciu, 2009, The influence of carbon source and of the conditions for fermentation on the production of exopolysaccharides, Bulletin UASVM Animal Science and Biotechnologies, 66, 1-2, 413-418. 10. E.Vamanu, A.Vamanu, S.Nită, N.Rusu, D.Pelinescu, 2010, Determinarea viabilitătii tulpinilor de *Lactobacillus* în conditi gastyrointestinale simulate, Bacteriologia Virusologia Parazitologia Epidemiologia, vol. 55, nr. 3,		
5.		Human resources Theme 9/2010 Biotechnologies for obtaining *Pleurotus ostreatus* lyophilized biomass and extracts with antimicrobial and antioxidant effect	1. E.Vamanu, 2012, *In vitro* antimicrobial and antioxidant activities of ethanolic extract of lyophilized mycelium of *Pleurotus ostreatus* PQMZ91109, Molecules, 17, 3653-3671 2. E.Vamanu, 2012, Biological activities of the polysaccharides produced in submerged culture of two edible *Pleurotus ostreatus* mushrooms, Journal of Biomedicine and Biotechnology, Article ID 565974 3. E.Vamanu, S.Nita, 2012, Antioxidant capacity and the correlation with major phenolic compounds, anthocyanin and tocopherol content in various extracts from the wild edible *Boletus edulis* mushroom, Journal of Biomedicine and Biotechnology, Article ID 313905 4. E.Vamanu, 2012, Antioxidant properties of polysaccharides obtained by batch cultivation of Pleurotus ostreatus mycelium, Natural Product Research, 1–4, iFirst online 5. E.Vamanu, M.Ene, D.Pelinescu, I.Sarbu, A.Vamanu, S.Nita, Determination of antioxidant and antimicrobial properties of alcoholic extract from Pleurotus ostreatus M2191 mycelium obtained in the presence of various nitrogen sources, Revista de Chimie, 62, 12, 2011, 1189-	**Coordinator USAMV Bucharest**	**Patent request** OSIM A/00609/21.08.2012, Emanuel Vamanu, Making glyceroalcoholic and hydroglyceroalcoholic preparations with antioxidant effect from *Pleurotus ostreatus* mycelium

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6.		Project PN 2, PC, contract no. 52-117/01.10.2008, Advanced researches on specific biochemical markers establishment for regional dairy products to improve their traceability on total food chain, 2008-2011 (TRASAREG)	1. Miteluț, A., Culețu, A., Popa, M., Niculita, P., 2011, Study on optimization of solid-phase microextraction and gas chromatography-mass spectrometry analysis for the volatile fraction of pastures, in Romanian Biotechnological Letters Vol. 16, No. 6 Supplement, pag. 113-118.	**Coordinator USAMV Buc./** Partners: ICDP Brasov; ICDCB Balitesti; IBA Buc; IBNA Buc.	
7.		Project PN 2, contract no. 62-093/2008, Providing recirculating systems biosecurity for intensive aquaculture using probiotics; 2008-2011 (PROBIOACVA)		**Coordinator: University Dunarea de Jos Galati**/Partners: USAMV Buc; ICDEAPA Galati; CCDP Nucet	
8.		Project PNII 51-005/2007, Integrated system to reduce contamination with fungi and mycotoxins in baking industry, in order to increase foos safety (MYCREDPAN) (double affiliation of the authors)	1. Cornea, C.P., M.Ciucă, C.Voaides, V.Gagiu, M.Oprea, A.Pop, 2011, Incidence of *Aspergillus* species in Romanian bakeries: a molecular approach, Rom. Biotechnol. Letts., vol.16, nr.1., p.5863-5871	**Coordinator IBA;** Partner Univ Buc; BIOTEHNOL; SC Baneasa SA	
9.			1. E.Vamanu, D.Pelinescu, I.Marin, A.Vamanu, 2012, Study of probiotic strains viability from PROBAC product in a single chamber gastrointestinal tract simulator, Food Science and Biotechnology, 21, 4, 979-985		

			2. E.Vamanu, D.Pelinescu, I.Avram, S.Nita, A.Vamanu, 2012, Study of PROBAC product influence on infant microbiota in a single-chamber colonic fermentation model GIS1, Annals of Microbiology, iFirst online 3. E.Vamanu, Vamanu A., Nita, S., Colceriu S., 2011, Antioxidant and antimicrobial activities of ethanol extracts of *Cynara scolymus* (Cynarae folium, Asteraceae Family), Tropical Journal of Pharmaceutical Research December, 10, 6. 777-783 4. E. Vamanu, A. Vamanu, S. Niţă, S. Colceriu, 2011, Obtaining of an antioxidant concentrate from Cynara scolymus for the attenuation of liver diseases, Clinical Chemistry and Laboratory Medicine, 49, S869 5. E.Vamanu, A.Vamanu, 2010, The influence of prebiotics on bacteriocin synthesis using the strain *Lactobacillus paracasei* CMGB16, African Journal of Microbiology Research, 4, 7, 534-537 6. E.Vamanu, V.Adrian, N.Sultana, 2010, The obtaining of an antioxidant product based on a *Rosmarinus officinalis* freeze-dried extract, International Journal of Pharmacology, 6, 425-430 7. E.Vamanu, 2011, Biotehnologii vegetale si animale, Ed. Ars Docendi 8. E.Vamanu, S.Nita, A.Vamanu, 2010, Biotehnologii vegetale si animale – Lucrări practice, Ed. Ars Docendi 9. Codină G.G., Mironeasa S., Mironeasa C., Popa C.N., Tamba-Berehoiu R., 2012, Wheat flour dough Alveograph characteristics predicted by Mixolab regression models, J.of the Science of Food and Agriculture, Vol.92, Issue 3, ps 638–644 10. Tamba-Berehoiu R., Popa N.C., Popescu S., Cristea S., Culea R., Tamba-Berehoiu S., 2010, Distribution of some toxic contaminants in the milling products, during the milling process, Rom.Biotechnol. Letters, Vol. 15, No.3 11. Varga M., Popa C., Tamba-Berehoiu R., 2010, An application of variance analysis for establishing the effect of the saturated fats and of the manganese ions concentrations from the food		

			ration on the cholesterol levels, Rom.Biotechnol. Letters , Vol. 15, No. 6. 12. Popa N.C., Tamba – Berehoiu R., Popescu S., Varga M., 2009, Predictive model of the alveografic parameters for flours obtained from romanian grains, Rom.Biotechnol. Letters , vol. 14, No 2, 13. Popa N.C., Tamba-Berehoiu R., Popescu S., 2008, Main quality parameters' evolution of the wheat cultivated in Romania during the last years, Rom.Biotechnol. Letters, vol. 13, No 1, Bucharest,. 14. Culea R.E., Campeanu G., Tamba-Berehoiu R., Popa N.C., 2009 Qualitative characteristics of the wine obtained from R*iesling Italian* grapes' variety, derived from wine-growing centre Ostrov, along three successive crops 2004, 2005 and 2006, Roumanian Biotechnological Letters, vol. 14, No 3, 15. Pele M., 2010, Peanut Allergens, Rom.Biotechnol. Letters, March 2010, vol.15, nr.2, 5204-5212, 16. Visan L., Varga M., Groposila D., Toma R. - Variation of aromatic compounds on *Muscat Ottonel* wine depending on the growing region", Proceedings of the International Symposium on New Researches in Biotechnology, Bucharest, 2010, ISSN 1224-7774, p.180-186 17. Visan L., Danaila S., Toma R. - Study of factors event influencing of quality of red wines; Proceedings of SimpBth 2011- 4th International Symposium of Biotechnology "New Research in Biotechnology, series F *Vol.XV* - p.117-122; 18. Varga M., Visan L. -Utilizing the monofactorial variance analysis to determine how temperature is influencing the mycelia growth rate - Proceedings of the International Symposium on New Researches in Biotechnology, Bucharest, 2009, ISSN 1224-7774, p.430-437 19. Varga M., Visan L.2010, An application of stochastic approximation to a problem of viticulture - Proceedings of the International Symposium on New Researches in Biotechnology, Bucharest, 2010, ISSN 1224-7774, p.328-333.		

			20. Tcacenco L., Berteanu E., Jurcoane S.**,** Lupescu I., Tamas V.,Diguta C., Constantinescu D., 2011, Liposan-Biopreparation with Lipolythic activity obtiand by indigenous plant biosynthesis, Roumanian Biotechnological Letters, Vol.XI,No.1-4/2011. 21. Cornea,C.P., Voaides,C., Ciuca,M., Dinu,S., Costache,M., Draganoiu,M., Severin,V., Oancea,F., 2008, In vitro inhibition of *Erwinia amylovora* Romanian isolates by new antagonistic bacterial strains, Rom.Biotechnol.Letts, vol.13, p.3737-3746		
10.		Project CEEX–BIOTECH contract no. 80/2006 – BIOTECH: Biotechnologies to obtain nutraceuticals products with metabolic effects in regulating functions", (LIOSAN), 2006-2008	1. Miteluţ, A., Popa, M., Niculiţă, P., Ghidurus, M., Turtoi, M., Geicu, M., Serbancea, F., 2008, Produse nutraceutice cu rol în reglarea funcţiilor metabolice, Sesiunea ştiinţifică a cadrelor didactice şi a studenţilor cu participare internaţională, Lucrări ştiinţifice seria A, LI, Agronomie, ISSN 1222-5339, Bucureşti;	**Coordinator: S.C. ICA SRL**/ Partners: USAMV Buc.; INBCP N. Simionescu; Univ. Buc; Institutul Pasteur; Univ.Dunarea de Jos Galati; S.C. Bactolact	
11.	Protecting and improving the natural resources of soil, water, air, flora and fauna, in order to increase the quality of livestock and agro-forestry, environmental protection, conservation of biodiversity, habitats of national and Community levels, maintaining the attractiveness and specificity landscape, ensuring, in terms of economic efficiency, renewable resources for future generations	PNII. Capacitati: Centre of microbiological resources for agriculture and environment (CEMAGRIM)	1. Sicuia,O., Oancea,F., Constantinescu, F., Dinu,S., C.P.Cornea, 2012, *Bacillus* strains useful in improving vegetal mulch technology trough bio-activation, Rom.Biotechn.Letts., vol. 17,nr.5, p.7610-7619 2. O.Csutak, T.Vassu, I.Sarbu, I.Stoica, P.Cornea, 2012, Antagonistic Activity of Three Newly Isolated Yeast Strains from the Surface of Fruits, in Food Technology and Biotechnology (online first) 3. Olteanu V., Sicuia,O., Ciuca,M., Carstea,M, Voaides,C., Campeanu, G., Cornea,CP., 2011, Production of biosurfactants and antifungal compounds by new strains of *Bacillus spp.* isolated from different sources, Rom.Biotechnol. Letts.,vol.16. (supplement), nr.1, p. 84-91 4. Sarbu, I., O. Csutak, D. Pelinescu, I. Stoica, E. Rusu, S. Enache-Soare, **P. Cornea**, A.M. Tanase, R., Ghindea, O. Negruta, T. Vassu, 2010, New antifungal microbial strains effective against *Candida* strains isolated from infections, Clinical Microbiology and Infection. Volume 16 Supplement No. 2, Page S690 5. Cimpeanu,C., Campeanu,G., Begea,M.,	**Coordinator INCDPP**/ Partner USAMV Buc	

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12.		ECONET 21371ZH/2008:"Diversité et capacité technologique des flores de vinification d'Europe Centrale"	1. A.Găgeanu, G.Câmpeanu, C.Diguţă, F.Matei (2012): Isolation and identification of local wine yeast strains from Dealurile Bujorului vineyard. Scientific Bulletin Biotechnologies, Serie F, vol. XVI, p.22-25. 2. Erny C, Raoult P, Alais A, Butterlin G, Delobel P, Matei Radoi F, Casaregola S, & Legras JL (2012): Ecological success of a group of *Saccharomyces cerevisiae* * *Saccharomyces kudriavzevii* hybrids in wine making environment. Applied and Environmental Microbiology. vol. 78 no. 9 3256-3265. 3. Matei F., Adrian Găgeanu (2011): Killer profile of wine yeast strains isolated in Dealurile Bujorului vineyard. Romanian Biotechnol. Letts., Vol. 16 (6), p.144-147**.**	**Coordinator: INRA Colmar, Franta**/ Partner USAMV Buc	
13.	Methods and techniques for ecological restoration and sustainable use of degraded areas by natural and anthropogenic factors	PN II. Partnerships: The effects of pollution on natural population size, distribution and genetic diversity of the genus Rhizobium species in different agricultural areas in Romania and their role in soil remediation (ECODIVERGEN)	**1. C**.P.Cornea, C.Voaides, M.Ciuca, V.Stan, E.Gament, I.Razec, M.Dusa, 2011, Molecular Methods for Assessement the Bacterial Communities from Different Type of Soils in Romania, Notulae Botanicae Horti Agrobotanici Cluj-Napoca, Vol 39, No 1, p.64-70 2. V.Stan, E.Gament, C.P.Cornea, C.Voaides, M.Dusa, G.Plopeanu, 2011, Effects of Heavy Metal from Polluted Soils on the Rhizobium Diversity, Notulae Botanicae Horti Agrobotanici Cluj-Napoca, Vol 39, No 1, p.88-95 3. V.Stan, C.P.Cornea, E.Gament, C.Voaides, A.Pop, 2011, Heavy metal resistant *Rhizobium leguminosarum* biovar *trifolii* isolates: characterization and use in rhizoremediation of polluted soils, Current Opinion in Biotechnology, Vol.22, supl.1, p. 74	**Coordinator USAMV Buc**/Partners: BIOTEHNOL; ICPA Buc; ICDP Brasov	

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15.	Methods and techniques for exploitation by agriculture residues from different economic sectors in terms of economic efficiency and environmental protection	PN II Partnerships: Biotechnologies based on fermentative processes and renewable resources for biodegradable polyester production with multiple applications (BIOEST)	1. Voaides,C., Groposila,D., Ciuca,M., Lupescu,L., Pop,A., Cornea,CP., 2010, PHAs Accumulation in *P.putida* P5 (wild type and mutants) in lipid containing media, Rom.Biotechnol. Letts. vol.15, nr.4, p.5467-5473 2. Lupescu I., Groposila Constantinescu D., Cornea CP, Voaides C., 2008, Biosynthesis and recovery of mcl-PHA produced by a *Pseudomonas putida* mutant strain, FEBS Journal, 275 (suppl.1), p412	**Coordinator USAMV** Buc/ Partners: ICCF; Biotehnol; INCERPLAST	**Patent Number: RO125103-A2**: Biotechnological process for preparing PHAs involves growing Ralstonia eutropha in mineral medium, Cercel,M, Cojanu, A, Cornea,P, Dobra, M, Eremia, MC, Lupescu,I, Moscovici,M, Niculescu,F, Savoiu,G, Spiridon, M Gold Medal at 37th International Exhibition of Inventions, New Techniques and

					Products, Geneva 2009 for „Biotechnological procedure for PHA obtaining" invention
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18.		PNII Partnership: Natural product based on fungal elicitors used in plant immunization through vaccination against phytopathogenic (PEFIMVAF)	1. Cornea, C.P., A.Pop, S.Matei, M.Ciuca, C.Voaides, M.Matei, G.Popa, A.Voicu, M.Stefanescu, 2009, Antifungal action of new *Trichoderma spp*. Romanian isolates on different plant pathogens, Biotechnol..& Biotechnological Eq./SE Online, 45, p.766-770 2. P.Cornea, S,Matei, M.Ciuca, C.Voaides, M.Matei, G.Popa, A.Pop, 2008, Molecular polymorphism in Romanian isolates of *Trichoderma*	**Coordinator ICPA** Partners; USAMV Buc; BIOTEHNOL; I.Biol.Buc; Biophan Natura Naturan	**Patent . RO/01293/2010:** aplicare Elicitors producing Botrytis cinérea strains: product for strawberry plants immunization against gray molds

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28.	Modern methods and techniques for the prevention, diagnosis and combating major diseases in animals	Innovative drugs with high therapeutic potential from vegetable resources SQMEDI/NO. 132/2012, 2012-2015	1. S.Danaila, N.Babeanu, O.Popa, D.Stanciu, I.Popa, 2012, Preliminary studies on *in vitro* behavior of various somatic explants from some cultivated Amaranthus genotypes, Scientific Bulletin, seria F, Biotechnologies, vol. XVI, p. 9-14	**Coordinator USAMV Buc**. /Partners:ICCF; UPB; Slavia Pharm SRL; ECOIND	
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38.		Project PN 2, contract no. 36/2007 National Technology Platform Food for life, 2007 – 2009		**Coordinator IBA Buc/** Partner: USAMV Buc	
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