

	
Personal information	
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Citizenship	Romanian
Date of birth	31.05.1968
Desired employment/ Occupational field	Alexandru Ioan Cuza University, Faculty of Biology, Departement of Biology
Thesis title, year and institution support	“ <i>Research on metabolic processes in some cellulolytic species under different growth condition</i> ”, 2005, Faculty of Biology, Alexandru Ioan Cuza University
Professional experience	
Period	<ol style="list-style-type: none"> 1. 2007-present 2. 2004 – 2007 3. 2002 – 2004 4. 1997 – 2002 5. 1995 – 1997 6. 1994 – 1995
Occupation or held position	<ol style="list-style-type: none"> 1. Lecturer 2. Assistant 3. Senior researcher at Microbiology Laboratory 4. Researcher at Microbiology Laboratory 5. Researcher assistant at Microbiology Laboratory; 6. Stagiary researcher at Microbiology Laboratory.
Main activities and responsibilities	<ol style="list-style-type: none"> 1. Scientific research and educational activities 2. Scientific research and educational activities 3. Research 4. Research 5. Research 6. Research

Name and address of the employer's	<ol style="list-style-type: none"> Alexandru Ioan Cuza University, Iași Alexandru Ioan Cuza University, Iași Biological Research Institute, Iași Biological Research Institute, Iași Biological Research Institute, Iași Biological Research Institute, Iași
Education and training	
Period	<ol style="list-style-type: none"> 1998 - 2005 1993 - 1994 1989 - 1993 1982 - 1986
Qualification/Diploma obtained	<ol style="list-style-type: none"> PhD in Biology, Biochemistry specialty/Alexandru Ioan Cuza University, Faculty of Biology Specialization in Applied Biology (Master Equivalent) Degree in Biology/ " Alexandru Ioan Cuza University, Faculty of Biology Baccalaureate/high school general education "George Bacovia", Bacau
Principal subjects/Occupational skills covered	<ol style="list-style-type: none"> Biochemistry, Applied Enzymology, Biotechnology, Food Biochemistry/Working with depth notions and concepts, principles and methodologies specific to working Biochemistry. Specific areas of Biology education cycle Specific areas of Biology education cycle Specific areas of high school education cycle
Teaching	<p>Teaches</p> <ol style="list-style-type: none"> General Biochemistry Biochemistry of secondary metabolites Molecular mechanisms of fermentation processes (Master) Food biochemistry (Master) Biochemistry of microorganism metabolites (Master) Metabolic transformations in agricultural and food raw materials (Master) <p>University courses or textbooks and printed books</p> <ul style="list-style-type: none"> ● <u>Lăcrămioara Oprică</u>, 2011 – Food Biochemistry, Tehnopress Publishing House, Iasi. ● Cojocaru Dumitru, Olteanu Zenovia, Ciornea Elena, <u>Oprică Lăcrămioara</u>, Cojocaru Sabina- 2007, <i>General Enzymology</i> TEHNOPRESS Publishing House, Iași. ● Alexandru Manoliu, Manuela Elisabeta Sidoroff, <u>Lăcrămioara Oprică</u>, Sorin Diaconeasa, Tatiana Tofan-Burac, 2007 - Biotechnology Dictionary - Roumain, English, Russian, French, Finnish, Tehnic Publishing House, Bucuresti. ● Alexandru Manoliu, <u>Lăcrămioara Oprică</u>, Sorin Diaconeasa, Tatiana Tofan-Burac, Eugen Cârdei, Costică Savin, 2002 - Poliglot Biotechnology Dictionary - roman, englez, rus, francez, Corson Publishing House.
Scientific research	<p>► Areas of competence: Biochemistry, Biotechnology, Applied Microbiology, Biotechnology</p> <p>Member of scientific societies and professional committees:</p> <p>Member of the Romanian Society of Biochemistry and Molecular Biology; Member of the Society for Life Sciences 'Probios';</p> <p>► The main results of the research (during 1996-2013) were concretiyed in a number of 98 papers published in national and international journals (9 articles ISI).</p>

Scientific research	<p>RESEARCH ON CONTRACT/GRANT</p> <p>- Contributor at some contracts during 1995-2011 period</p> <ol style="list-style-type: none"> 1. 2008-2011, Program PN II: Complex characterization of cytostatic active extracts of <i>Claviceps purpurea</i> strains obtained by parasexual hybridization biotechnology, to capitalize on veterinary therapeutics. 2. 2008-2011, Program PN II: Improving the genetic potential and complex characterization of plant biotypes group future impact on ecological and sustainable development in horticulture. 3. 2007-2009, Program CEEEX: Soil and water resources management in agroecosystems affected by excessive drought to maintain biodiversity. 4. 2007-2008, Grant GAR: Phillosphere complex study of plant species grown in the Botanical Garden of Iasi - premise for the foundation of new opportunities in the care and protection of anthropogenic ecosystems. 5. 2006-2008, Grant CNCISIS: Polluted soils micoremediation from areas considered environmentally critical. 6. 2006-2008, CEEEX (BIOTECH), Getting submerged strains of <i>Claviceps purpurea</i> with high and preferential glucanosynthetic capacity and establish areas of biomedical recovery of native glucan preparations. 7. 2006-2008, CEEEX (BIOTECH), biotechnological recovery of production potential in <i>Hypophae rhamnoides ssp. carpathica</i> by the complex characterization of varieties, source of organic crops for sustainable agriculture. 8. 2005-2007, CEEEX (MENER): The use of some morphological, structural, ultrastructural and biochemical biomarkers in assessment of human impact on biodiversity Ceahlau National Park and adjacent area. 9. 2005-2007, CEEEX (AGRAL): Characterization of bioactive principles of plant and fungal origin with cytostatic, immunomodulatory, metabolic and neurotropic action and its application in functional food. 10. 2004-2006, BIOTECH: The use of natural electromagnetic non-ionizing radiation (infrared radiation in combination with ultraviolet radiation) in modulating metabolism cellulolytic species <i>Alternaria alternata</i> to optimize growth conditions biosynthesis of cellulases in the forest industry waste. 11. 2003-2005, BIOTECH: Optimization of biosynthetic efficiency of some strains of <i>Claviceps purpurea</i> by somatic hybridization biotechnology and establish new areas of biomedical and biopesticides use of ergoline alkaloids. 12. 2003-2005, BIOTECH: Optimizing biodegradation of forest industry waste by cellulolytic microorganisms using physical push factors (magnetic and electromagnetic fields). 13. 2002-2004, RELANSIN: Technology modernization of combat diseases and pests at pear tree by studying the effectiveness of pesticides in relation with their influence on physiological and biochemical processes in plants and on some soil biochemical parameters in order to obtain high quality products 14. 2001-2002, RELANSIN: Research on the role of some pesticides in combating major diseases in different varieties of apple and cherry study correlated with histological and physiological changes in plants and the accumulation of these substances in fruits. 15. 2000-2002, ORIZONT 2000: Study of fundamental metabolic parameters at <i>Chaetomium globosum</i> and <i>Alternaria alternata</i> species in cultivation conditions on media containing wastes from forestry (sawdust from paper industry). 16. 2000-2002, Grant, Dynamic of enzyme systems, proteins, and nucleic acids biosynthesis in cellulolytic <i>Chaetomium globosum</i> species under the influence of physical factors (magnetic liquid, low intensity microwave). 17. 1999-2001, Fungal biodiversity study - Genrer <i>Mycosphaerella Johanson</i> in Romania 18. 1999-2001, Research on interaction microorganism - host plant in some forms of parasitism and symbiosis. 19. 1998-1999, Grant, Research on fungal biodiversity. 20. 1996-1999, ORIZONT 2000: Research on optimization of propagating material production technology in application for obtaining sclerotia of <i>Claviceps purpurea</i> 21. 1995-1999, ORIZONT 2000: Studies on amyolytic and lignocellulosolytic microorganisms in view to get of some microbial strains producing biologically active substances. 22. 1995-1998, Research on the cellular differentiation in some species of fungi producing active ingredients and specific markers
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SELECTED PAPERS LIST

► ARTICLES ISI

- **Elena Truta, Gabriela Vochita, Craita Maria Rosu, Maria Magdalena Zamfirache, Zenovia Olteanu, Lacramioara Oprica, 2013**, Karyotype traits in Romanian selections of edible blue honeysuckle, *Turkish Journal of Biology*, 37(1): 60-68.
- **Rosu Craita Maria, Manzu Ciprian, Olteanu Zenovia, Lăcrămioara Oprică, Oprea Adrian, Ciornea Elena, Zamfirache Maria Magdalena, 2011**, Several Fruit Characteristics of *Rosa* sp Genotypes from the Northeastern Region of Romania, *Notulae Botanicae, Horti Agrobotanici Cluj-Napoca*, 39 (2), p. 203-208.
- **Stefan M., Dunca S., Olteanu, Z ., Oprica L, Ungureanu, E, Hritcu, L, Mihasan M , Cojocaru D., 2010**, Soybean (*Glycine Max* [L] Merr.) Inoculation With *Bacillus Pumilus* Rs3 Promotes Plant Growth And Increases Seed Protein Yield: Relevance For Environmentally-Friendly, Agricultural Applications, *Carpathian Journal Of Earth And Environmental Sciences*, 5 (1), pp. 131-138.
- **Truță E., Căpraru G., Surdu S. , Zamfirache M.M. , Olteanu Z., Rosu CM, Oprica L, 2010**, Karyotypic Studies in Ecotypes of *Hippophae rhamnoides* L. from Romania, *Silvae Genetica*, 59 (4), pp. 175-182.
- **Al. Manoliu, L. Oprică, Z. Olteanu, I. Neacsu, V. Artenie, D.E Creangă, I. Rusu, I. Bodale, 2006** - Peroxidase activity in magnetically exposed cellulolytic fungus, *Journal of Magnetism and Magnetic Materials*, Elsevier Edit, Amsterdam, 300, p.323-326.
- **Manoliu Al., Băsu Felicia, Oprică Lăcrămioara, Ioan Ionela, 2007**, Influence of the brown rust (*Puccinia recondita* (Dietel & Holw.) on the nutritive values in different sorts of wheat, *Romanian Biotechnological Letters*, Vol. 12, No. 5, pp. 3422 - 3429.
- **Al. Manoliu, Lăcrămioara Oprică, Dorina-Emilia Creangă, 2005** - Ferrofluid and cellulolytic fungi, *Journal of Magnetism and Magnetic Materials*, 289, p.473-475, Elsevier Edit., Amsterdam.
- **Al. Manoliu, Zenovia Olteanu, Lăcrămioara Oprică, Maria Magdalena Zamfirache, Dorina Creangă, 2002** - Petroleum ferrofluid influence on cellulase specific activity in *Chaetomium globosum*, *Romanian Biotechnological Letters*, vol. 7, nr. 3, pp. 737-745.
- **Al. Manoliu, Lăcrămioara Oprică-Antohe, Dorina Creangă, C. Cotae, 1999** - The influence of the petroleum ferrofluids upon cellulolytic fungi *Chaetomium globosum* Kunze: Fr.- *Journal of Magnetism and Magnetic Materials*, t. 201, p. 446-448.

ARTICLES BDI (DURIN LAST FIVE YEARS)

- **Crețu Ruxandra, Lăcrămioara Oprică, Vochița Gabriela, Truță Elena, Băra Csilla Iuliana, Gheorghită Gogu, 2012**, The effect of *Trifolium rubri flos* (red clover flower) hydroalcoholic extract on some biochemical parameters in *Triticum aestivum* L. Plants, *Analele Științifice ale Universității "Alexandru Ioan Cuza"*, Secțiunea Genetică și Biologie Moleculară, XIII(1), pg. 63-69.
- **Lăbușcă Ana Valencia, Alexandru Manoliu, Lăcrămioara Oprică, 2012** – Influence of *Polystigma rubrum* (Pers.) DC attack on some biochemical parameters in different plum cultivars, *Analele Științifice ale Universității "Alexandru Ioan Cuza"*, Secțiunea Genetică și Biologie Moleculară, XIII(2), pg. 81-91.
- **Lăbușcă Ana Valencia, Alexandru Manoliu, Lăcrămioara Oprică, 2012** – Influence of *Polystigma rubrum* (Pers.) DC fungus attack on mineral elements content of different plum fruits cultivar, *Analele Științifice ale Universității "Alexandru Ioan Cuza"*, Secțiunea Genetică și Biologie Moleculară, XIII(2), pg. 91-97.
- **Truță Elena, Zenovia Olteanu, Roșu Crăița, Elena Ciornea, Maria Magdalena Zamfirache, Lăcrămioara Oprică, Maria Asaftei, 2012** – Some aspects of chemophenotype heterogeneity in *Lonicera*, *Cornus* and *rosa* genotypes in relation to chromosome constitution, *Analele Științifice ale Universității "Alexandru Ioan Cuza"*, Secțiunea Genetică și Biologie Moleculară, XIII(2), pg. 73-81.
- **Truta Elena, Olteanu Zenovia, Zamfirache Maria Magdalena, Ciornea Elena, Oprica Lacramioara, Vochița Gabriela, 2011**, Considerations on the relationship between chromosome constitution and biochemical phenotype in five ecotypes of seabuckthorn. *Analele Științifice ale Universității Alexandru Ioan Cuza, Secțiunea Genetică și Biologie Moleculară*, XII(2), pg. 65-74.
- **Zenovia Olteanu, Lăcrămioara Oprică, Elena Truță, Maria Magdalena Zamfirache, 2011**, Behaviour of antioxidative enzymes and of soluble protein in wheat seedling after lead induced stress, *Analele Științifice ale Universității Alexandru Ioan Cuza, Secțiunea Genetică și Biologie Moleculară*, Tomul XII, fasc. II, pp. 75-85, ISSN:1582-3571.
- **Ana-Valencia Lăbușcă, Alexandru Manoliu, Lăcrămioara Oprică, 2012**, Influence Of The Attack Of The Fungus *Polystigma Rubrum* (Pers.) Dc (Red Leaf Spot) On Nutritional Value Of Fruits In Different Plum Cultivars, *Analele Științifice ale Universității Alexandru Ioan Cuza, Secțiunea Genetică și Biologie Moleculară*, Tomul XII, fasc. 4, pp. 139-147, ISSN:1582-3571.

- **Lacramioara Oprica, Zenovia Olteanu, Simona Isabela Dunca, Stefan Marius, Maria Magdalena Zamfirache, 2011**, The Tillage Effect On The Soil Acid And Alkaline Phosphatase Activity, *Analele Științifice ale Universității Alexandru Ioan Cuza, Secțiunea Genetică si Biologie Moleculară*, Tomul XII, fasc. 4, pp. 103-111, ISSN:1582-3571.
- **Lăcrămioara Oprică, Zenovia Olteanu, Elena Truță, Gabriela Vochița, 2011**, Early biochemical responses of *Brassica napus var Exagone* seed germination at salt treatment, *Analele Științifice ale Universității Alexandru Ioan Cuza, Secțiunea Genetică si Biologie Moleculară*, Tomul XII, fasc. 4, pp. 95-103, ISSN:1582-3571.
- **Lăcrămioara Oprică, 2011**, Early effect of NaCl treatment on the protein content in seedling of three wheat cultivar, *Analele Științifice ale Universității Alexandru Ioan Cuza, Secțiunea Genetică si Biologie Moleculară*, Tomul XII, fasc. 4, pp. 87-95, ISSN:1582-3571.
- **Olteanu Zenovia, Ștefania Surdu, Crăița Roșu, Elena Truță, Maria Magdalena Zamfirache, Lăcrămioara Oprică, 2010**, Dynamics Of Alkaloid Biosynthesis In Correlation With Lipid Biosynthesis In Submerged Cultivated Strains Of *Claviceps Purpurea*, *Analele Științifice ale Universității Alexandru Ioan Cuza, Secțiunea Genetică si Biologie Moleculară*, Tomul XI, fasc. 4, pp. 33-40 , ISSN:1582-3571.
- **Al. Manoliu, Elena Tutu, Lăcrămioara Oprică, Elena Ciornea, Petronela Grădinaru, 2010** – Influence of the culture medium pH on the activity of some oxidoreductases in *Monilinia laxa* (Aderh.& Ruhl) honey parasite on plum, *Analele Științifice ale Universității Alexandru Ioan Cuza, Secțiunea Genetică si Biologie Moleculară*, Tomul XI, fasc. 4, p. 41-46 , ISSN:1582-3571.
- **Al. Manoliu, Mihaela Balan, Lăcrămioara Oprică, Petronela Grădinaru, 2010** - The evolution of catalase and peroxidase activity in *Phanerochaete chrysosporium* grown on media containing beech and fir sawdust and under the influence of some amino acids, *Analele Științifice ale Universității Alexandru Ioan Cuza, Secțiunea Genetică si Biologie Moleculară*, Tomul XI, fasc. 4, p. 47-52, ISSN:1582-3571.
- **Bădăluță Nicoleta, Zenovia Olteanu, Lăcrămioara Oprică, Gogu Ghiorghită, 2010** - The contents variations of the carotenoid pigments and total lipids in seabuckthorn false fruit and fruit, *Analele Științifice ale Universității Alexandru Ioan Cuza, Secțiunea Genetică si Biologie Moleculară*, Tomul XI, fasc. 4, p. 117-122 , ISSN:1582-3571.
- **Bădăluță Nicoleta, Maria Magdalena Zamfirache, Lăcrămioara Oprică, Zenovia Olteanu, Gogu Ghiorghită, 2010** - The monthly dynamics of the protein biosynthesis in the leaves harvested from *Hippophae Rhamnoides* L. varieties, *Analele Științifice ale Universității Alexandru Ioan Cuza, Secțiunea Genetică si Biologie Moleculară*, Tomul XI, fasc. 4, p. 122-128 , ISSN:1582-3571.
- **Arteni Mihaela, Olteanu Zenovia, Lăcrămioara Oprică, Balan Mihaela, 2010**, Researches on the activity of oxidoreductases from tissues sampled in different stages of development at *Silurus glanis*, *Lucrările științifice seria Zootehnie, Universitatea de Științe Agricole și Medicină veterinară Iași*, 54 (15), pp. 228-232.
- **Manoliu Alexandru, Balan Mihaela, Olteanu Zenovia, Lăcrămioara Oprică, Arteni Oana, 2010** – Comparative studies on the activity of catalase in white rot fungus *Phanerochaete chrysosporium* grown on media containing coniferous and deciduous sawdust, *Universitatea de Științe agricole și Medicină Veterinară “Ion Ionescu de la Brad” Facultatea de Horticultura, Iași*, pp. 643-649.
- **Elena Maxim, Lăcrămioara Oprica, Gabriela Căpraru, Elena Truță, Arteni Vlad, 2009** - Action of Caffeine and Sodium Azide on Activity of Some Antioxidative Enzymes in *Carum carvi* L. seedlings, *Analele Științifice ale Universității Alexandru Ioan Cuza, Tomul X, fasc. 4, Secțiunea Genetică si Biologie Moleculară*, p. 63-68, ISSN:1582-3571.
- **Elena Truta, Maria Magdalena Zamfirache, Zenovia Olteanu, Lăcrămioara Oprică, Ramona Gaileș, 2009** - Cytogenetic damage induced by magnesium in wheat root meristems. *Analele Științifice ale Universității Alexandru Ioan Cuza, Tomul X, fasc. 3, Secțiunea Genetică si Biologie Moleculară*, p. 5-11.
- **Alexandru Manoliu, Mihaela Balan, Lăcrămioara Oprică, 2009** - Studies on catalase and peroxidase activity in *Phanerochaete chrysosporium* Burds cultivated on spruce sawdust media. *Analele Științifice ale Universității Alexandru Ioan Cuza, Tomul X, fasc. 3, Secțiunea Genetică si Biologie moleculară*, p. 35-41.
- **Lăcrămioara Oprică, 2008** - Effect of microwave on the dynamics of some oxidoreductase enzymes in *Brassica napus* germination seeds, *Analele Științifice ale Universității „Alexandru Ioan Cuza”, Secțiunea Genetică și Biologie Moleculară*, TOM IX, fasc. 3, pp. 99-104.
- **Lăcrămioara Oprică, 2008** - The effect of saline stress on activity of some antioxidative enzymes during wheat seed germination, *Analele Științifice ale Universității „Alexandru Ioan Cuza”, Secțiunea Genetică și Biologie Moleculară*, TOM IX, fasc. 3, pp. 93-98.
- **Lăcrămioara Oprică, Zenovia Olteanu, Dumitru Cojocar, Maria-Magdalena Zamfirache, Cătălin Tănase, Vasiliță Chinan, 2008** – Oxydoreductase activity of some fungi harvesting from Călimani National Park areas, *Analele Științifice ale Universității „Alexandru Ioan Cuza”, Secțiunea Genetică și Biologie Moleculară*, Tom IX, fasc. 4, pp. 55-59.