



**Curriculum vitae
Europass**

**PERSONAL
INFORMATION**

Name /surname

OPRICĂ Lăcrămioara Anca

Address

Alexandru Ioan Cuza University,
Faculty of Biology, Department of Biology,
Carol I Avenue, no. 20 A, 700506, Iași, Romania

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Nationality

Română

Date of birth

31.05.1968

Place of work

Since 2004 at the "Alexandru Ioan Cuza" University in Iasi, Faculty of Biology,
Biochemistry Laboratory (teaching and scientific research activity).

**EDUCATION AND
TRAINING**

2020– present: Assistant Professor, Alexandru Ioan Cuza University, Faculty of Biology,
Department of Biology(teaching and research activity);
2007 – 2020: Lecturer, Alexandru Ioan Cuza University, Faculty of Biology, Department of
Biology(teaching and research activity);
2004 – 2007: Assistant, Alexandru Ioan Cuza University, Faculty of Biology, Department of
Biology(teaching and research activity);
2002 – 2004: CP III at Biological Research Institute, Iași (research activity);
1997 - 2002: Researcher at Biological Research Institute, Iași (research activity);
1994 - 1997: Asistent researcher at Biological Research Institute, Iași (research activity).

**Education and Training
1998 – 2005**

Education

2005 - PhD in Biology and Cum laude distinction
Faculty of Biology, "Alexandru Ioan Cuza" University in Iasi.
Thesis title: Research on some metabolic processes in some cellulolytic species in different
growth conditions, prepared under the direction of Prof. Dr. Vlad Artenie

1993 – 1994

Postgraduate (MA equivalent) "Alexandru Ioan Cuza" University, Faculty of Biology and
Geography-Geology.

1989 – 1993

Graduate in Biology, "Alexandru Ioan Cuza" University, Faculty of Biology-Geography-Geology.

Training mobility

2015-2019 - Teaching internships within the Erasmus program, Nyiregyhaza University, Hungary,
Agricultural University of Athens (Biotechnology Department), Mehmet Akif Ersoy University,
Burdur, Turkey

PERSONAL SKILLS					
Mother tongue(s)	Romanian				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English language	B1	B1	B1	B1	B1
French language	B1	B1	B1	B1	B1
	Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user Common European Framework of Reference for Languages				
Fields of competence/Fields of research	Biochemical and physiological response of plant species (glycophytes - crop and medicinal plants, halophytes) to combined saline and abiotic stress (saline, water, the action of gamma radiation); Plant and agri-food biochemistry, Biotechnology, Biochemistry of cellulolytic fungi, Secondary metabolites, Synthesis of silver nanoparticles using "Green Chemistry", evaluation of the antioxidant activity of some plant species with economic potential and cellulolytic fungi				
Membership in international and national scientific societies	<ul style="list-style-type: none"> Member of the Romanian Society of Cell Biology (SRBC) Member of the Society for Life Sciences "Probios" 				
Didactic activity	<ul style="list-style-type: none"> Courses Holder of some disciplines at the Faculty of Biology, "Alexandru Ioan Cuza" University in Iasi: Food Biochemistry (Microbial and cell Biotechnology Master - II year); Metabolites biochemistry of microorganisms (Microbial and cell Biotechnology specialization - Master - II year); Secondary metabolites (specialization Biochemistry, Bachelor - year III, optional); Principles of chronobiology (Developmental Biology Master - II year); General Biochemistry (Biology, Bachelor - II year); Biochemistry (Medical Physics/Byophysics, Bachelor - II year); Metabolic transformations in raw food (Food bioprocess Master - II year). 				
	<ul style="list-style-type: none"> Practical works / Seminars Food Biochemistry (Microbial and cell Biotechnology Master - II year); Principles of chronobiology (Developmental Biology Master - II year); General Biochemistry (Biology, Bachelor - II year); Biochemistry (Medical Physics/Byophysics, Bachelor - II year); Metabolic transformations in agro foodraw materials (Food bioprocess Master - II year); General Chemistry (Biology / Biochemistry / Ecology, Bachelor - year I and ID); Environmental Chemistry (Ecology, Bachelor - year I and ID); Enzyme Biotechnology (Microbial and cell Biotechnology Master - II year). 				
Organisational skills and competences	<ul style="list-style-type: none"> Manager of research projects and team member of some research projects Member in the organizing committee of local scientific Guidance of diploma and dissertation theses (over 110 so far). 				
Technical skills and competences	PC use (Word, Excel, Powerpoint, Corel Draw); processing image processing; scientific calculations				

<p>Other scientific skills and abilities</p>	<ul style="list-style-type: none"> ● Member of the Editorial Board of the Journal of Experimental and Molecular Biology ● Periodic reviewer at ISI and BDI journals <ul style="list-style-type: none"> ■ National: <i>Scientific Annals of the University "Alexandru Ioan Cuza" from Iasi (Genetics and Molecular Biology and Plant Biology), Roumanian Biotechnological Letter etc.</i> ■ International: <i>International Journal of Biochemistry Research & Review, Journal of Agricultural Science and Technology, International Journal of Biochemistry Research & Review, Journal of Agricultural Science and Technology, International Journal of Fruit Science, Environmental Technology, Waste management, Physiology and Biochemistry, Molecules, Plants etc.</i>); Permanent member in Reviewer Board at <i>Plants journal</i>. ● Member of the commissions for the support of doctoral theses at "Alexandru Ioan Cuza" University in Iasi, "Gr.T.Popa" University of Medicine and Pharmacy Iasi. ● Member of the commissions of the doctoral dissertations/theses at "Alexandru Ioan Cuza" University from Iasi. ● Member of competition commissions for advancement in university education/research ("Alexandru Ioan Cuza" University from Iasi and the Institute of Biological Research Iasi). ● Member of first degree commissions, in pre-university education. ● Member of the organizing committees of some editions of the annual scientific events of Faculty of Biology ("Alexandru Ioan Cuza" University from Iasi).
<p>Driving license</p>	<p>B category</p>
<p>Additional Information</p> <p>Publications:</p> <p>Citations:</p> <p>Awards:</p> <p>Research projects:</p> <p>Conferences:</p> <p>Other information:</p>	<ul style="list-style-type: none"> ● Books: 5 books in academic publishing houses (2 books - sole author, 3 books - co-author) and 4 book chapters ● 182 scientific works of which: <ul style="list-style-type: none"> - Articles in extenso in ISI rated journals: 46 papers (28-main author, 18-contributor) - Articles in extenso in journals indexed in BDI journals: 88 papers (43-main author, 45-contributor) - Articles in extenso in the volumes of international and national conferences: 48 ● 690 citations (according to Google citation) ● h-index -8 (Web of science), 23 (Google citation), 7 (Scopus) ● The "Emanoil Teodorescu" award of the Romanian Academy on December 13, 2018 for my book <i>Secondary metabolites in plants. Origin, structure and function</i> ● 8 awarded articles in: 2016, 2017, 2019, 2020, 2021 ● Project manager – 12 research projects (Appendix 3) ● Member of research teams – 41 projects of which 8 are international ● Participation with papers at over 30 national and international conferences (Appendix 3)
<p>ANNEXES</p>	<p>Appendix 1 – List of book</p> <p>Appendix 2 – List of Research projects</p> <p>Appendix 3 – List of ISI and BDI scientific papers published</p> <p>Appendix 4 – Internal and external conferences</p>

26.06. 2023

**Associate professor dr.,
Lăcrămioara Oprică**

Appendix 1 – Books

- **Oprică L., 2016** – Secondary metabolites in plants, Origin, structure, functions, "Alexandru Ioan Cuza" University Publishing House, Iasi, 294 pages. (Book awarded with the "Emanoil Teodorescu" Romanian Academy Award on December 13, 2018)
- **Oprică L., 2011** – Biochemistry of food products, Tehnopress Publishing House, Iasi, 384 pages
- Cojocaru D, Olteanu Z., Ciornea E., **Oprica L., Cojocaru SI, 2007** - General enzymology, Tehnopress Publishing House, 537 pages.
- Manoliu A, Sidoroff ME, **Oprica L., Diaconeasa S, Tofan-Burac T, 2007** - Polyglot dictionary of Biotechnology - Romanian, English, Russian, French, Finnish, Technical Publishing House, 609 pages.
- Manoliu A, **Oprică L, Diaconeasa S, Tofan-Burac T, 2002** -Polyglot Dictionary of Biotechnology - Romanian, English, Russian, French, Corson Publishing House, 567 pages.

Book chapters:

1. **Oprică L, Vochița G, 2021**, Enzymatic activity in halophytes, În: Handbook of Halophytes. From Molecules to Ecosystems towards Biosaline Agriculture (Ed. Grigore MN), Springer, 1877-1900. https://doi.org/10.1007/978-3-030-17854-3_77-1
2. Gostin IN., **Oprica L., Onofrei M., Anton SG., 2020**, The impact of organic farming on the environment, with accent to the changes occurring in agroecosystems, 145-163, In: Course for trainers: Organic farming, eco-market and their capitalization through the entrepreneurial initiative (Eds. Marco Platania, Marko Jeločnik, Irina Neta Gostin). "Alexandru Ioan Cuza" University Press - Iași and Institute of Agricultural Economics – Belgrade.
3. **Oprica L., Gostin IN., Onofrei M., Anton SG, 2020**, Biochemical difference between organic and conventional foods. A comparative study, 83-101, In: Course for trainers: Organic farming, eco-market and their capitalization through the entrepreneurial initiative (Eds. Marco Platania, Marko Jeločnik, Irina Neta Gostin), "Alexandru Ioan Cuza" University Press - Iași and Institute of Agricultural Economics – Belgrade
4. Racuciu M, Creanga DE, **Oprica L, 2023**, Nanosized ferrites in environmental sciences, cap 17, In: Applications of nanostructured ferrites (Ed. Singh JP, Chae KH, Srivastava RC, Caltun OF), p. 357-377, Elsevier.

Awarded articles:

Awarded articles in: 2016, 2017, 2019, 2020, 2021

- **PN-III-P1-1.1-PRECISI-2016-11830**, Andries M., Pricop D., **Oprică L., Creangă DE., Iacomi F., 2016**, The effect of visible light on gold nanoparticles and some bioeffects on environmental fungi, *International Journal of Pharmaceutics*, 505(1-2):256-261. (nr. 697).
- **PN-III-P1-1.1-PRECISI-2016-11721**, Lipsa R., Nita T., Darie-Nita RN., **Oprică L., Vasile C, Chiriac A., 2016**, Biodegradation of poly (lactic acid) and some of its based systems with *Trichoderma viride*, *International Journal of Biological Macromolecules*, 88:515-526. (nr. 588).
- **PN-III-P1-1.1- PRECISI-2017- 18743**, Stoleru E., Hitruc E., Vasile C., **Oprica L.,** Biodegradation of poly(lactic acid)/chitosan stratified composites in presence of the *Phanerochaete chrysosporium* fungus, *Polymer Degradation And Stability* (nr. 524)
- **PN-III-P1-1.1- PRECISI-2019- 36121**, **Vochița G, Oprica L., Gherghel D., Mihai CT, Rabah B., Lobiuc A.,** Graphene oxide effects in early ontogenetic stages of *Triticum aestivum* L. seedlings, 2019, [Ecotoxicology and Environmental Safety](#), 181(15):345-352.
- **PN-III-P1-1.1- PRECISI-2020- 43172**, Stoleru E, Vasile C, **Oprică L, Onur Y, 2020**, Influence of the chitosan and rosemary extract on fungal biodegradation of some plasticized PLA-based materials, *Polymers* 2020, 12(2), 469
- **PN-III-P1-1.1- PRECISI-2020- 51638**, **Oprica L, Grigore MN, Caraciuc I, Gherghel D, Mihai CT, Vochita G, 2020**, Impact of Proton Beam Irradiation on the Growth and Biochemical Indexes of Barley (*Hordeum vulgare* L.) Seedlings Grown under Salt Stress, *Plants*, 9(9), 1234
- **PN-III-P1-1.1- PRECISI-2021- 55575**, **Oprică L., Andries M., Sacarescu L., Popescu L., Pricop D., Creanga D., Balasoiu M., 2020**, Citrate-silver nanoparticles and their impact on some environmental beneficial fungi, *Saudi Journal of Biological Sciences*, 27(12):3365-3375.
- **PN-III-P1-1.1- PRECISI-2021- 61891**, Petrea SM., Costache M., Cristea D., Strungaru SA., Simionov IA., Mogodan A., **Oprică L., Cristea V., 2020**, A Machine Learning Approach in Analyzing Bioaccumulation of Heavy Metals in Turbot Tissues, *Molecules*, 25 (20):4696 , (nr.176)

Appendix 2 – List of scientific research projects (manager, research team member).

Nr. crt.	Project title, identification data	Manager/ Responsible	Period
1.	Project FDI: The skills of the future on the labor market (SKILLS-UP), cod CNFIS-FDI-2023-F-0496	Project manager	2023
2.	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: “ <i>Biomediated synthesis and characterisation of silver nanoparticles valorization of grape pomace</i> ”(Leader from Romania – Oprică L, Leader from Dubna – Rogkaev A.) - 2500 USD	Responsible of project	2021
3.	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: “ <i>Plant-extract-assisted green synthesis of metal nanoparticles and their effect on environmental fungi</i> ” (no. 10) (Leader from Romania – Oprică L, Leader from Dubna – Rogkaev A.) - 3000 USD	Responsible of project	2020
4.	Bilateral scientific project Romania - Belarus competition AR-FRBCF-2020-2021 (National Academy of Sciences of the Republic of Belarus and Foundation of the Republic of Belarus for Fundamental Research): “ <i>Assessment of the biochemical effects of Si nanoparticles treatments on selected medicinal herbs O. basilicum (Romanian participant) and agricultural plants Triticum aestivum (Belarussian participant) in condition of salinity conditions</i> ” (Leader from Romania - Oprică L, Leader from Minsk - Molchan O.)	Responsible of project	2020-2021
5.	Financing project PN-III-P2-2.1-PTE2019-0697, no. 51PTE/2020, "Optimization of fish and plant biomass growth technologies within intensive multi-trophic aquaculture systems by using intelligent visual recognition and IoT techniques" 99,000 lei	Responsible of project	2020-2022
6.	Bilateral scientific project Romania - Belarus competition AR-FRBCF-2018-2019 (National Academy of Sciences of the Republic of Belarus and Foundation of the Republic of Belarus for Fundamental Research): “ <i>Assesement of selenium nanoparticles role for alleviating biochemical effect of salt stress and drought in some medicinal and agricultural plants, in the context of global salinization and aridization</i> ” (Leader from Romania - Oprică L, Leader from Minsk - Molchan O)	Responsible of project	2018-2019
7	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: „ <i>Investigation of Vaccinium myrtillus extract in the mediation of silver nanoparticles green synthesis and the effect of their on environmental microorganisms</i> ” (no. 7) (Leader from Romania - Oprică L, Leader from Dubna – Sergey I Tiutiunikov). - 1400 USD	Responsible of project	2019
8	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: “ <i>Characterization of silver nanoparticles using green synthesis and their effects on environmental microorganisms metabolic activity</i> ” (no. 43) (Leader from Romania - Oprică L, Leader from Dubna - Kuklin A) - 1800 USD	Responsible of project	2018
9	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: “ <i>Combined experimental researches of metallic nanoparticles: structural characterization and effect control on environmental microorganisms metabolic activity</i> ” (Leader from Romania - Oprică L, Leader from Dubna - Kuklin A) - 2500 USD	Responsible of project	2017
10	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: “ <i>Silver nanoparticles preparation by chemical methods and their structural investigation</i> ”(57) Leaderfrom Romania - Oprică L, Leader from Dubna - Gorshkova J) - 1300 USD	Responsible of project	2016
11.	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: “ <i>Magnetic nanoparticles impact on some microorganisms involved in forestry waste degradation</i> ”, (81) (Leaderfrom Romania - Oprică L, Leader from Dubna - Balasoiu M) - 1200 USD	Responsible of project	2016
12.	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: “ <i>Experimental study of the impact of environmental particles processed microflora</i> ”, (no. 75) (Leader from Romania - Oprică L, Leader from Dubna - Balasoiu M) - 1500 USD	Responsible of project	2015

Member of the team of national/international projects

Nr. crt.	Project title, identification data	Member	Period
1	Proiect “Start experiență – START EXE”, POCU/626/6/13/130654 (Manager project Urda OA)	Member	2021-2022
2.	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: Structural and computational analysis of antioxidant coated magnetic nanoparticles – the case of the gallic acid; evidencing of some bioeffects in young plantlets (Leader from Romania – prof. Creanga D and Racuciu M., Leader from JINR – prof. Balasoiu M.) - 2300 USD	Member	2021
3.	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: Microstructural analysis on some new magnetic nanoparticles for in vitro comparative research aiming the improving of biocompatibility upon healthy and tumor cell lines, identified with the theme code (Leader from Romania – prof. Creanga D, CS III. Daniela Gherghel, Leader from JINR – Dr. Balasoiu M.) - 4000 USD	Member	2021

4.	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: The impact of proton irradiation in cereal embryos (Leader from Romania – prof. Creanga D, CS II. Vochita G, Leader from JINR – prof. Molokanov AG) - 2300 USD	Member	2021
5.	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: „Proton beam exposure of plant seeds and the induced bioeffects – laboratory study” (no. 7) (Leader from Romania – prof. Dorina Creanga, Leader from Dubna – prof. Molokanov AG)	Member	2020
6.	ERASMUS + Parteneriate strategice (ERASMUS+KA 203): “Evaluation of agro-ecological development potential through transnational cooperation and entrepreneurial innovation (AGROECOINN)” (Project 2019-1-RO01-KA203-063939) (Project Manager – Conf. Irina GOSTIN)	Member	2019-2022
7.	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: Experimental investigation of the behavior of eukariotic environmental organisms (Romanian leader: Creanga D.E., leader: Molokanov A.) - 2083 USD.	Member	2019
8.	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: Structural investigation of surface modified magnetic nanosystems synthesized by conventional or ecofriendly methods and their impact on the environment (Romanian leader: Creanga D.E., leader: Molokanov A.) - 2350 USD.	Member	2019
9.	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: New nanocomposite layers and thin films based on graphene and polymers for hybrid solar cells and medical applications (Romanian leader: Creanga D.E., http://www.ifa-mg.ro/jinr/projects_2018/04-4-1121-UAIC.php JINR leader: Tropin TV) - 3200 USD.	Member	2018
10.	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: Silanized magnetic nanoparticles with potential utilization in environmental application (Romanian leader: Creanga D.E., http://www.ifa-mg.ro/jinr/projects_2018/04-4-1121-UAIC.php JINR leader: Balasoiu M.) - 2600 USD.	Member	2018
11.	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: Multilayered nanoparticles with organic/inorganic composition and biological impact (Romanian leader: Creanga D.-E., JINR leader: Balasoiu M.) . (http://www.ifa-mg.ro/jinr/projects_2017/04-4-1121-2015-2017-UAIC.php)	Member	2017
12.	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: Yielding of magnetic nanoparticles with various chemical composition and study of their bioeffects (Romanian leader: Creanga D.-E., JINR leader: Balasoiu M.) (nr. 81) (http://www.nipne.ro/international/cooperations/jinr/Romania-JINR_projects_and_grants_2016.pdf).	Member	2016
13.	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: Magnetic nanoparticles impact on some microorganisms involved in forestry waste degradation, (RESEARCH PROJECT 2016 JINR-Romania no. 91 (81)) (Leader from Romania - Lăcrămioara Oprică, Leader from Dubna - Maria Balasoiu), 1200 USD.	Member	2016
14.	Bilateral scientific collaborations Romania - IUCN, Dubna, Russia: Experimental study of the impact of environmental particles processed microflora, (RESEARCH PROJECT 2015 JINR-Romania no. 75) (Leader from Romania - Lăcrămioara Oprică, Leader from Dubna - Maria Balasoiu), 1500 USD.	Member	2015
15.	PN II – IDEI: Philosopher complex study of plant species in collections Botanic Garden Iasi (Project nr.1040/2009)	Member	2009-2011
16.	Program PN II: Improving the genetic potential and complex characterization of plant biotypes group future impact on ecological and sustainable development in horticulture.” (Projectnr. 52142/2008)	Member	2008-2011
17.	Program CEEEX: Soil and water resources management in agroecosystems affected by excessive drought to maintain biodiversity, (Project PC nr. 51-017).	Member	2008-2011
18.	Grant GAR: Philosphere complex study of plant species grown in the Botanical Garden of Iasi – premiză pentru fundamentarea de noi oportunități în ocrotirea și protecția unor ecosisteme antropizate, Beneficiar Ministerul Educației și Cercetării(Project nr.74/2007).	Member	2007-2009
19.	Program PN II: Improving the genetic potential and complex characterization of plant biotypes group future impact on ecological and sustainable development in horticulture.” (Projectnr. 52142/2008)	Member	2007-2008
20.	Grant CNCSIS: Polluted soils micoremediation from areas considered environmentally critical, finanțare CNCSIS (Project nr.1174/2006).	Member	2006-2008
21.	CEEEX (BIOTECH), Ecological reconstruction of degraded soils from mining activities by micoremediere processesf (Project nr.128/2006).	Member	2006-2008
22.	CEEEX (BIOTECH), Getting submerged strains of <i>Claviceps purpurea</i> with high andpreferential glucanosynthetic capacity and establish areas of biomedical recovery of native glucan preparations. (Project nr. 110/2006).	Member	2006-2008
23.	CEEEX (MENER), Research on decolorization of dye solutions through new oxidative processes, microbiological and sorption, for the rehabilitation and recycling of wastewater from the textile industry (Project nr.730/2006).	Member	2006-2008
24.	CEEEX (MENER), Advanced research on the use of cereals and cereal waste to obtain bio-ethanol and bio-methanol used as alternative energy resources in the bio-economy	Member	2006-2008
25.	CEEEX (BIOTECH), biotechnological recovery of production potential in <i>Hyppophae rhamnoides</i> ssp.carpatica by the complex characterization of varieties, source of organic crops for sustainable agriculture., (Project nr. 109/2006).	Member	2006-2008

26.	CEEX (BIOTECH) , Ecological reconstruction of degraded soils from mining activities by micoremediere processesf (Project nr.128/2006).	Member	2005-2007
27.	CEEX (BIOTECH) , Getting submerged strains of <i>Claviceps purpurea</i> with high andpreferential glucanosynthetic capacity and establish areas of biomedical recovery of native glucan preparations. (Project nr. 110/2006).	Member	2005-2007
28.	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. (Ctr. Nr. 4591/2004).	Member	2004-2006
29.	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. (Ctr. Nr. 03-1-PDT-3341/2003).	Member	2003-2005
30.	BIOTECH : Optimizing biodegradation of forest industry waste by cellulolytic microorganisms using physical push factors (magnetic and electromagnetic fields). (Ctr. Nr. 3340/2003).	Member	2003-2005
31.	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(Ctr. Nr. 1709/2003).	Member	2002-2004
32.	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. (Ctr. Nr. 1199/2001).	Member	2001-2002
33	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). (Ctr. Nr. 668/2001).	Member	2000-2002
34.	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 (Project de cercetare științifică, Grant tip A, Beneficiar MCT).	Member	2000 - 2002
35.	Grant tip A , Fungal biodiversity study - Geder <i>Mycosphaerella</i> Johanson in Romania (Project de cercetare științifică, Beneficiar MCT).	Member	1999 - 2001
36.	Research on interaction microorganism - host plant in some forms of parasitism and symbiosis. (Project nr. 5124/1999, Grant tip C, Beneficiar MCT).	Member	1999-2001
37.	Research on fungal biodiversity (Project nr. 4 125/1998, Beneficiar MCT).	Member	1998-1999
38.	Studies on the ability of microorganisms to produce biodegradable polymer mixtures (Project nr. 1055/1996, Beneficiar MCT).	Member	1996-1998
39.	ORIZONT 2000 : Research on optimization of propagating material production technology in application for obtaining sclerotia of <i>Claviceps purpurea</i> " (Project nr. 101/1996, Beneficiar MCT).	Member	1996-1999
40.	ORIZONT 2000 : Studies on amyolytic and lignocellulosolytic microorganisms in view to get of some microbial strains producing biologically active substances. (Project nr. 61 A1/1995, Beneficiar MCT).	Member	1995-1999
41.	Research on the cellular differentiation in some species of fungi producing active ingredients and specific markers (Project nr. 61B/1995-1998, Beneficiar MCT).	Member	1995-1998

Appendix 3 – Scientific papers *in extenso*

Articles published in extenso in journals from the international scientific circuit

		Scientific articles published <i>in extenso</i> in Web of Science rated journals with impact factor - lead author
2023	1	Oprica L. , Vochita G., Grigore M.-N., Shvidkiy S., Molokanov A., Gherghel D., Les, A, Creanga D., 2023, Cytogenetic and Biochemical Responses of Wheat Seeds to Proton Irradiation at the Bragg Peak, <i>Plants</i> , 12(4), 842;
2022	2	Dunca S, Oprica L. , Simionov IA, Antache A, Nica A, Grigore MN, Miron A, Costin D, Magean R, Petrea SM, 2022, Antibacterial Activity of <i>Ocimum basilicum</i> L. Extracts Grown in Aquaponic Conditions Against Gram-positive and Gram-negative Species
	3	Oprică L. , Shvidkiy S., Molokanov A., Vochita G., Creanga D., 2022, Some effects of proton irradiation in young seedlings of wheat, <i>Romanian Journal of Physics</i> , 67(9-10), 813
	4	Oprica L. , Miclaus S, Vochita G, Creanga D, Ungureanu E, 2021, Low-Thermal Microwave Effects On The Enzyme Activity In The Cellulolytic Fungus <i>Phanerochaete chrysosporium</i> , <i>Romanian Reports In Physics</i> , 73(4), 1-17
	5	Oprica L. , Grigore MN, Caraciuc I, Gherghel D, Mihai CT, Vochita G, 2020, Impact of Proton Beam Irradiation on the Growth and Biochemical Indexes of Barley (<i>Hordeum vulgare</i> L.) Seedlings Grown under Salt Stress, <i>Plants</i> , 9(9), 1234 .
2020	6	Babusca D., Popescu L., Sacarescu I, Dorohoi DO, Creanga D, Oprica L. , 2020, Two phase photochemical synthesis of silver nanoparticles and their impact on the chlorophylls , <i>Molecular Crystals and Liquid Crystals</i> , 698(1), 56-64, Taylor & Francis.
	7	Oprică L. , Andries M., Sacarescu L., Popescu L., Pricop D., Creanga D., Balasoiu M., 2020, Citrate-silver nanoparticles and their impact on some environmental beneficial fungi, <i>Saudi Journal of Biological Sciences</i> , 27(12):3365-3375.
	8	Stoleru E., Vasile C, Oprică L. , Onur Y, 2020, Influence of the chitosan and rosemary extract on fungal biodegradation of some plasticized PLA-based materials, <i>Polymers</i> 2020, 12(2), 469
2019	9	Vochita G., Oprică L. , Gherghel G, Mihai CT, Boukherroub R., Lobiuc A., 2019, Graphene oxide effects in early ontogenetic stages of <i>Triticum aestivum</i> L. seedlings, <i>Ecotoxicology and Environmental Safety</i> , 181(15): 345-352.
	10	Oprică L. , Antohe RG., Verdes A., Grigore MN., 2019, Effect of freeze-drying and oven-drying methods on flavonoids content in two romanian grape varieties, <i>Revista de chimie</i> , 70(2):491-494.
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Appendix 4 – Participation in scientific events:

■ National:

•	The 10th IEEE International Conference on E-Health and Bioengineering - EHB 2021, Grigore T. Popa University of Medicine and Pharmacy, Web Conference, Romania, November 18-19, 2022
•	The 9th IEEE International Conference on E-Health and Bioengineering - EHB 2021, Grigore T. Popa University of Medicine and Pharmacy, Web Conference, Romania, November 18-19, 2021
•	Simpozionul „Biologia și dezvoltarea durabilă” 3 decembrie 2020, Bacau
•	Simpozionul Biology and sustainable development, The 17 th edition 5-6 December 2019, Bacau, Romania
•	11 th National Congress With International Participation and 37 th Annual Scientific Session Of The Romanian Society Of Cell Biology (Constanța 20-23 iunie 2019
•	21st Romanian International Conference on Chemistry and Chemical Engineering, Constanta, 4-7 septembrie 2019
•	10 ^{ÈME} édition du Colloque Franco-Roumain de Chimie Appliquée (COFRROCA 2018), Bacau, 27-29 iunie 2018
•	11 th International Conference on Physics Advanced Material, 7-14 septembrie, 2016
•	16 th International Balkan Workshop in Applied Physics and Material Science, Constanta, 6-9 iulie 2016
•	5 th IEEE International Conference on E-Health and Bioengineering - EHB 2015 Grigore T. Popa University of Medicine and Pharmacy, Iași, 19-21 noiembrie, 2015.
•	The 3rd CEEP Workshop on Polymer science, Iasi 23-26, septembrie 2015
•	2nd Technical Meeting ACTIBIOSAFE Brasov, Romania, 22 May 2015.
•	15-th Romanian Textiles and Leather Conference” - CORTEP’2014 which will be held in Poiana Brasov, 4-6 September, 2014
•	Conferința Anuală de Didactică, Predeal, 19-21 septembrie 2012
•	Sesiunea științifică a Facultății de Biologie “Impactul antropocentric asupra diversității structurale și funcționale a sistemelor biologice”, 2012;
•	Sesiunea științifică a Facultății de Biologie “Biologia în anul omagial Charles Darwin”, Iași, 2009;
•	Al XII-lea Simpozion Internațional de Magneziu, Iași, 2009;
•	Sesiunea Științifică a Facultății de Biologie – Biochimie și Biologie moleculară – Prezent și Perspective, Iași, 2008
•	Sesiunea Științifică anuală a Facultății de Biologie - Biologie vegetală - Conservarea diversității plantelor <i>in situ</i> și <i>ex situ</i> , Iași, 2008
•	Sesiunea de comunicări științifică anuală a Universității din Bacău, Facultatea de Științe, catedra de Biologie, 2008;
•	Simpozionul „Realizări în cercetarea științifică din biotehnologie obținute prin Programul CEE (BIOTECH)”, Iași, 2008
•	Sesiune științifică “Conservarea diversității plantelor <i>in situ</i> și <i>ex situ</i> ”, Universitatea “Alexandru Ioan Cuza”, Facultatea de Biologie, Iași, 2007 - 2008.
•	XXXVI Annual Meeting of European Society for New Methods in Agricultural Research (ESNA), Iași, 2006
•	Sesiunea științifică națională “Biologia la începutul secolului XXI, Universitatea “Alexandru Ioan Cuza”, Iași, 2005
•	Simpozionul științific anual – Horticultura – știință, calitate, diversitate și armonie, 1998-2006
•	Al X-lea Simpozion de microbiologie și biotehnologie, Iași, 2004

■ International:

•	Hybrid: 13th International Conference on Physics of Advanced materials, 4th Autumn School on Physics of Advanced Materials, Sant Feliu de Guixols, September 24-30, 2021
•	International Euroasia Congress on Scientific research and recent trends VII, 6 december 2020, Baku Azerbaijan, Oral presentation, online
•	2nd International Conference on Semiconductors, Optoelectronics and Nanostructures (ICSON-2019) Barcelona, 19-20 august 2019
•	12th International Conference on Physics of Advanced Materials , Heraklion, 19-26 septembrie, 2018
•	3 rd International Summer School and Workshop „Complex and Magnetic Soft Matter Systems: Physico-mechanical properties and structure” Dubna 27-30 iunie 2017
•	Condensed Matter Research at the IBR-2” Dubna 7-11 octombrie 2017
•	2 nd International Summer School and Workshop, Complex and magnetic soft matter systems: physico-mechanical properties and structure, Dubna, 29 septembrie – 3 octombrie 2017
•	3rd International Conference on Small Angle Neutron Scattering dedicated to the 80th anniversary of Yu.M. Ostanevich , Dubna, 2016
•	14 th International Biotechnology Symposium and Exhibition, Biotechnology for the Sustainability of Human Society, 14 -18 September 2010 Palacongressi, Rimini – Italy. - International Congress of Mycology, 5-9 august, Istanbul, 2008
•	4 th Symposium on Biosorption and Bioremediation, Praga, 2007
•	3 rd International Seabuckthorn Association Conference, Quebec, 2007
•	IV Balkan Botanical Congress, Bulgaria, Sofia, 2006