

PERSONAL INFORMATION VIDICAN Mirela-Roxana

[Gender](#) | [Date of birth](#) | [Nationality](#)

DOMAIN OF ACTIVITY Microbiology

TEACHING DEGREE Professor

SCIENTIFIC TITLE Phd. engineer

Microbiology, Microbial Ecology, Biodiversity of Natural and Anthropic Ecosystems, Project Management

- development of modern methodologies for studying microbial-soil-plant interactions
 - development of microbial bioremediation technologies (water, soil, air)
 - modern techniques in cultivating microorganisms and testing in a controlled environment
 - influence of inputs (mineral, with zeolite and with urban sludge) on the specific microbiome of agricultural crops
- AREA OF INTEREST
- evaluation of the mechanism of symbiotic nitrogen fixation in annual and perennial legumes
 - analysis of the presence and efficiency of mycorrhizal symbionts in cultivated and spontaneous plants
 - analysis of the functional profiles of the soil microbial community due to the differentiated application of inputs and technologies
 - modeling of the dynamics of microbial communities based on the response to environmental gradients
 - microbial mapping of the rhizosphere of cultivated and spontaneous plants
 - development of technologies regarding the use of biopreparations for agricultural crops

WORK EXPERIENCE

2026-present	Institutional Evaluations and Audit Department Coordinator - Aracis
2024-present	Vice-President of Commission 14 CNATDCU
2024-present	Director of Plant Culture Department – Faculty of Agriculture USAMV Cluj
2024-present	Vice-President of the ASAS Agricultural Technologies Commission
2024-present	Member of the ASAS Biotechnologies Commission
2022-present	ASAS Corresponding Member
2021-present	Member of the Board of Directors, BIOS Research Center of ASAS Cluj-Napoca
2022-present	Member of the ARACIS General Council
2016 - present	Member Commission 14 CNATDCU
2015 - present	Expert AUF – post-doc projects
2012 - present	Dean Faculty of Agriculture, , USAMV Cluj
2014-present	Expert ARACIS
2011 - 2012	Department Manager - Plant Culture
2009	Expert CDI - UEFISCU
2009 - present	PhD Coordinator, Microbiology
2007 – present	Professor
2006 -2008	Director Training and Information Center of USAMV Cluj
2005 – 2006	Director training center for adults through training / retraining and specialization / perfecting
2004 – present	Master Programme Coordinator: Biology of agroecosystems
2004 - present	License studies program coordinator: Biology and Montanology
2004 – present	Director of Community Programs Office USAMV Cluj
2003-2004	Director Multipurpose Training Centre for Rural Development
2002 - 2011	Member of the Senate USAMV Cluj, Department for International Relations

2002 - 2011 Director Agro-mountain department IV
2002 - 2007 Associate professor
1999 - present Institutional Program Coordinator – Socrates-Erasmus
1997 - 2002 Lecturer
1994 -1997 Assistant
1986 -1994 Researcher at the Research Station and Fruit Growing Cluj-Napoca

EDUCATION AND TRAINING

1999 Degree of "Doctor in Genetics and Plant Breeding"
seria R, nr. 0000720 din 5.05.1999
1986 The diploma of agricultural engineer "Dr. Petru Groza" Institute - Cluj-Napoca
seria C nr. 21307/10.09.1986

SPECIALIZATIONS AND QUALIFICATIONS

Training courses

Belgium, 2.05-10.05.1994, Universite de Gembloux;
Belgium 10.08-2.11.1999, Centre de Recherche Agronomique, Gent;
Belgium 15.08-30.10.2000, Centre de Recherche Agronomique, Gent;
Belgium 13.09-25.09.2000, Centre de Recherche Agronomique, Gent;
Belgium 15.03.-25.03.2005, Centre de Recherche Agronomique, Gent;
Belgium 1.07-10.07.2006, Centre de Recherche Agronomique, Gent
Belgium 10.07-10.08.2007, Centre de Recherche Agronomique, Gent
Denmark – 15.05 -03.062007- DAAS Copenhaga- „ Management of European funds
Enita Clermont Ferrand, France – 2006, 2007, 2008,2009, 2010

Visiting professor at universities

University Viterbo, Italy – 2007, 2010, 2011
University of Stockholm, Sweden – 2008
University of Gent, Belgium – 2000, 2002, 2003, 2004, 2005, 2006, 2007, 2011, 2012, 2013
University of Freiburg, Germany – 2002, 2004, 2005, 2009, 2011, 2012, 2013, 2014
University of Louisiana, Baton Rouge, USA – 2008
University of Gembloux, Belgia – 2008, 2010, 2011
Department of Vocational Training, Vichy, France – 2011
University of Politechnics, Valencia, Spain – 2011
University of Liege, Belgium – 2011
University of Boku, Viena, Austria – 2011
Ohio State University, USA – 2013
Stuttgart, Germany, Institutional Development-2014
Seoul-Daegu, South Korea, University Management, International Relations-2014
University of Siedlce Natural Science and Humanities, Poland-2014;2015
Albert Ludwigs University of Freiburg, Freiburg Germany, International Relations, Institutional Development-2009;2012;2013;2014;2015.
Madrid Spain-2015;2016
University of Athens, Greece– 2017
Stuttgart, Nuremberg, Germany-2017
Sardinia, Italy-2018
University of Agricultural Technical Engineering Valladolid, Spain-2018
University of Warszawa, Poland – 2018
Akdeniz University, Turkey-2019
Hanoi, Faculty of Agronomy, Vietnam-2019
University of Valladolid Spain-2019
University of Cordoba, Spain- 2022
USA: Minnesota State University, Virginia Tech University, PennState University- 2022
Polytechnic University of Valencia, Spain-2023
Warsaw University Poland- 2023
University of Bordeaux, France- 2023
University of Georgia, USA- 2023

PhD thesis coordinated and finalized

1. Research concerning the influence of sludges from urban wastewater treatment plants within alfalfa culture, eng. Ioan Iancu Pinteă (2012);
2. Microbiological research on soil - plant – goat milk traceability under the ecopedological conditions of Șurdești village, Maramureș county, biol. chim. Zorica Marcela Voșgan (2013).
3. Research on genetic diversity of soybean bacterial rhizobia determined by molecular methods and spectroscopy, biol. Zamfira Dincă (2015)
4. Study of the atmospheric nitrogen fixation capacity in temporary grassland ecosystems, eng.

- Ghiocel Claudiu-Dan (2015)
5. Research regarding the in vitro cultivation and response to stress factors of bacteria from *Rhizobium* and *Sinorhizobium* genus, biol. Niste Monica (2015)
 6. Researches influence of zeolite on productivity elements and microbiological activity on spring barley, soybeans and maize at ARDS Turda , biol. Sfechiş Susana (2015)
 7. Assessing the impact of the edaphic biological communities on biochemical processes in the soil to energy plants, eng. Sandor Valentina-Ancuţa (2016).
 8. Effects of soil fertilization on the structure of the microbiological community, the processes mediated by it and the technological and nutritional quality of the harvest, Onica Bogdan-Mihai (2018)
 9. Study on dynamic and effects of arbuscular mycorrhizae in some ornamentals from Cluj conditions, Crăşan Ioana (2020)
 10. Research on the mycorrhizal colonization mechanism induced by differential fertilization in the practical ecosystem, biologist Larisa Nicoleta Corcoz (2022).
 11. Research on the influence of inputs with a biostimulatory role on mycorrhizal dynamics in corn culture. Victoria-Carmen POP-MOLDOVA (mar. RUS) (2022)
 12. Effects of sustainable agricultural practices on the functional diversity of the soil microbial community in the context of global climate change. Dumitriţa Rodica Dascălu (2024)
 13. The Influence of Heavy Metals on Soil Microbiota in the Baia Mare Area. Loredana-Andrea Crişan (2026)

SKILLS ▪ Dynamism, perseverance, ability to adapt to new, practical thinking

Mother tongue Romanian

Other language	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Listening	Reading
English	C2	C2	C2	C2	C2
French	C2	C2	C2	C2	C2

ADDITIONAL INFORMATION

Publications 20 books / over 300 scientific articles (https://scholar.google.ro/citations?user=j_UaO9kAAAAJ&hl=ro)

- Projects**
1. Project CNCSIS nr. 870/2006 (2006-2008) « Researches concerning influence of bioproducts on nitrogen fixing bacteria grown «in vitro» on clover and alfalfa – director
 2. Project CEEX nr. 39/2005- „Ecological restoration of degraded grasslands by anthropic factors - RECOPAJ” ICDCP Brasov - director Dr.ing. Marusca Teodor, 2005-2008- scientific responsible
 3. Project CEEX nr. 38/2005- „Scientific and technological management of national pastoral heritage in the context of sustainable agriculture” PADUR - ICDCP Brasov-director Dr.ing. Razec Iosif, 2005-2008, scientific responsible
 4. Project CEEX nr. 10298/2000- "Researches concerning agronomic and food value of the main grassland ecosystems in Romania, under sustainable management of biodiversity and maintaining vegetation cover” BIOPAJDUR - USAMV Iasi – director - prof.dr. Vantu Vasile, 2005- 2008 scientific responsible;
 5. Sectorial plan 6.3.1, nr.338 /8.12.2006–«Biodiversity conservation of mountain agroecosystem », ICDCP Brasov, 2006-2010;
 6. Sectorial plan 6.3.4, nr.339 / 8.12.2006–«Evaluation of the productive potential of mountain grasslands and establishment of technological measures in order to increase the green mass yields”, ICDCPBrasov, 2006-2010
 7. Project CNCSIS nr.33460/2002, cod CNCSIS 770, theme 8 – „Researches concerning natural grasslands in the Apuseni Mountains (Gârda –Gheţari area) in order to elaborate a system of organic agriculture”- director prof.dr. Rotar Ioan, 2002-2004 -member
 8. ECOTEH, 2007-2013 –„ Assessment of the impact of organic production systems over

- agronomic value of fodder ecosystems and quality of livestock products in order to increase economic efficiency of farms and food security”, - scientific responsible
9. PN II, 2008-2011- „New approaches regarding sustainable use of secondary grasslands in order to preserve the cultural mountain landscape”- scientific responsible
 10. PN II, IDEI, nr. 1485 (2008-2011)- „Biodiversity Conservation of Arnica montana ecosystems through sustainable use” - scientific responsible;
 11. Project PHARE (2005-2006)-« Professional training center for adults through qualification / requalification and specialization / perfecting for the harmonization with EU legislation in the domain » - executive manager;
 12. Project PHARE (2003-2004) - « Multifunctional Training Center for Rural Development, » - executive manager
 13. Project World Bank (2006-2008) : Component 3 –« Modernization of Information and Knowledge System in Agriculture - MAKIS – project manager
 14. Project POS DRU /24/2.3/G/13663 (2009-2011)-« A new skill, a new chance!”- executive manager;
 15. POS DRU contract 61841/1.2, (2010-2013) - Improving the master degree programs with agri-food profile by promoting innovation and quality assurance in accordance with the requirements of qualifications in Romania and the European Union (CALIMAS) - Type A Expert
 16. USAMV Cluj-Napoca, (2010-2011), Strengthening the institutional capacity of the Western Regional Consortium, target group
 17. POS DRU 2.3 , 2008-2011, „Continue to Qualify”, USAMV Cluj- Napoca, - executive manager
 18. Project World Bank (2011 - 2014), MAKIS II, project manager
 19. Innovation CEC (2013) - “ The influence of fertilization with mineral zeolite and urea under ecopedological from ARDS Turda”, director
 20. Project POSDRU/161/2.1/G/132491 – Strategic steps towards local, national and transnational employment market –USAMV Responsible
 21. Contract PRESTARI DE SERVICII, Establishing and supporting the National Rural Network, C511/2/1/S/08/00/03/S2 – director
 22. Research Project, 6324/28.05.2014, Mobile applications for calculating the dose of fertilizer and fertilizer type – member
 23. Scientific research and consultancy contract 2362/26,020,2014 - 2017, Study of the influence of mineral fertilizers on productivity traits of crops and grasslands, on physical, chemical and trophic traits of soil by preserving the environment in the Transylvanian Plain.– director.
 24. Defining and developing of concept 4C for fertilizers management according to general principle: sustainable plant nutrition in based on economic, environmental and social criteria - project manager.
 25. Research and consultancy contract – Rhodia Operations (Solvay), 2017-2018 – Research on optimal use of urea nitrogen by using new products.
 26. Scientific research and consultancy contract 1074/22.01.2019. Carrying out research and development activities, respectively in carrying out actions. Specific programs to encourage knowledge transfer and innovation in agriculture, forestry and rural areas, for sustainable local management and development by establishing a "Multifunctional Training Center for harnessing the agricultural and tourism potential of the area" - project manager
 27. Research and consultancy contract – Rhodia Operations (Solvay), 2019-2020 – Research Research on the optimal use of urea nitrogen by applying new formulas, (contract no. 1075/2019).
 28. Project of The urban authority of Baia Mare Municipality - Smart Post-Industrial Regenerative Ecosystem -SPIRE, UIA04-138, (2019-2020) – project manager from UASVM.
 29. AIDER research and consultancy contract (Integrated Sustainable Economically Profitable Agriculture) - 2019-2020 - Foundation - with the business environment T - Comparative study of different soybean varieties in the eco-pedological conditions of Cojocna - project director
 30. Research and consultancy contract Azomureş, contract no. 26125/17.12.2020, testing some types of fertilizer. - Project manager
 31. Research and consultancy contract Dragoş Dima 2021. Comparative study of different leguminous plants and their testing under the conditions at Jucu - Project Director
 32. POC project "GREENTOP - Agro-Biodiversity" with electronic registration number SMIS 121447- member
 33. POCU Project .-Development of advanced and applied research skills in the logic of STEAM+HEALTH POCU 993/6/13/153310- postdoc mentor.
 34. Project Innotech OIPOS DRU NV 19730/23.12.2021-member
 35. Project B-Connect 2024-2028 – Bio-Centric Communities: Navigating Nature, Embracing

Ecosystems, Championing Technology, financed by the European Urban Initiative program – Project Director

36. HORIZON-MSCA-2023-SE-01, Scientific Exchange to assess Quality and Risks of FOODs obtained by novel processing and Packaging Technologies (SEQR FODD) - Project Director
37. PN-IV-P6-6.1-CoEx-2024-0120: Centrul de excelență în cercetare pentru promovarea neutralității și rezilienței climatice prin agricultură (AgroClim) – project manager from UASVM

Professional affiliations

European Grassland Federation, (2002);

Founding member of the Romanian Grassland Society (2008)

Member of the Board of Directors of the Efficient Resources and Sustainable Agriculture Foundation
READ (2013)

European Biodiversity initiative (2015)

April, 2026