



University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca
Manastur Street, no. 3-5, 400372, Cluj-Napoca, Romania
<http://www.usamvcluj.ro>



Curriculum vitae



Personal informations

Name / Surname	AUREL MAXIM
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Citizenship	Romanian
Date of birth	24.06.1967
Sex	M

Field of activity

Academic rank / Scientific title	Professor
Discipline / Keywords	General Ecology, Agroecology, Preservation of Biodiversity, Plant Protection
Fields of competence	<ul style="list-style-type: none">- Agroecology- The ecology of different plants and animal parasites- Conservation of genetic diversity at horticultural species- Vegetation Study- Activity of prognosis and warning of pest and diseases of fruit trees, grape and different plant crops- Elaboration of algorithms for computerized warning of phytosanitary treatment at different plant species, by using AgroExpert system based on sensors- Producing the <i>Virus free</i> fruit-growing planting stock
Fields of interest	<ul style="list-style-type: none">- Agroecology- Preservation of Agrobiodiversity- Plant Protection
Work experience	<ul style="list-style-type: none">- 19 years of teaching activity- 13 years of research

Education and training

Studies	<ul style="list-style-type: none">- PhD (1996-2000) – Plant protection – Ecology, University of Agricultural Sciences and Veterinary Medicine (UASMV) Cluj-Napoca- Bachelor of Science (1986-1991) – Faculty of Horticulture, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca
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Specializations / Qualifications

- 2022: einformation, Anelis, "Electronic access to scientific literature to support and promote the research and education system in Romania" Clarivate Analytics databases (Web of Science -Core Collection)
- 2021: Online training and education session on Quality Management of study programs for distance learning and part-time education
- 2021: Webex Web of Science - Web of Science Group, einformation
- 2016: A.N.C authorized course (The National Authority for Qualification) – *European Structural and Cohesion Funds Expert*, Code COR 242 213
- 2010: Training course for using the platform *ID-Assistant* for tutors, Cluj-Napoca
- 2007: RENAR FPS 1 *Course Presenting the SR EN ISO/CEI 17025:2005 requirements*, Cluj-Napoca
- 2004-2005: *Post-graduate course in Psychopedagogy* in the Department for the preparation of teachers – UASMV Cluj-Napoca
- 2003: *Plants genetic manipulation*, University of Nottingham, Great Britain
- 2001: *Producing «Virus free» nursing material for fruit-trees*, Angers - France
- 1999: *Molecular methodologies for diagnosis of plant viruses* (RT-Polymerase Chain Reaction, Western blotting), Praha – Czech Republic
- 1997: *Course for effective communication*, Bucharest
- 1997: *Immunoelectron microscopy*, Chișinău – Moldavia Republic
- 1996: *Serological diagnosis of fruit trees viruses*, Chisinău – Moldavia Republic
- 1993: *MS-DOS computer system and shell Windows*, Bucharest
- 1993: «*AgroExpert*» system for warning phytosanitary treatments of diseases and pests, Bucharest
- 1992: *Automatical system «AgroExpert» for warning phytosanitary treatments of phytopathogenic agents fruit trees*, Wien – Austria

Work experience

Period / Occupation or position
held / Name of employer

- 2016 – present, Professor at the Department of Engineering and Environmental Protection; PhD supervisor (2017)
- 2008 – 2016, Associate Professor PhD at UASMV Cluj-Napoca at the Department of Environmental and Plant Protection
- 2004 – 2008, Lecturer PhD at USAMV Cluj - Napoca at the Department of Environmental and Plant Protection
- 2002 – 2004: Senior researcher II at Fruit Research and Growing Station (FRGS) Bistrita and Head of the Virology - Phytopathology – Phyto pharmacy laboratory
- 1998 – 2002: Senior researcher III at FRGS Bistrita and Head of the Virology - Phytopathology – Phyto pharmacy laboratory
- 1995 – 1998: Junior researcher at FRGS Bistrita, at Virology - Phytopathology laboratory
- 1992 – 1995: Research assistant at FRGS Bistrita, at Virology - Phytopathology laboratory
- 1991 – 1992: Researcher engineer at FRGS Bistrita, Virology - Phytopathology laboratory

Attribution and administrative
activities

- Director of studies at distance learning at specialization - Engineering and Environmental Protection USAMV Cluj-Napoca
- Deputy Director - Department of Engineering and Environmental Protection
- Coordinator of the Ecology Discipline
- Member of the Administration Council of FRGS Bistrita, 1997-2004

Professional affiliations

- Vice president of The *Technical Institute for Ecological Agriculture Association* with the head office in Cluj-Napoca
- Scientific director of *Eco Mont Foundation*, Cluj-Napoca
- member of the *European Society for Soil Conservation*
- member of the *Bioterra* bio farmers association from Romania
- member of the *Romanian Society for Ecological Agriculture*
- member of the *National Society for the Plants Protection from Romania*
- member of the *Biological Security Commission* (2008-2012) from the Ministry of Environment and durable development, by decision of the Minister no. 466/22.04.2008
- Founder member and vice president of *Information Center Regarding Genetically Modified Organisms* from Romania (2006-2015)
- General secretary of *Eco Ruralis Foundation*, Cluj-Napoca (2009-2015)



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Professional prestige

- 2018. Excellence Award - Bioterra, Romanian Association of Bioagriculturers
- 2012: Appointed *Bologna professor* by the National Organization of Student Associations from Romania
- 2010: Second prize at the USAMV Cluj-Napoca graduates Gala for the "support student activities during the period of 2006-2010" - Engineering and Environment Protection in University
- 2003: *Award of Horticultural Society, Romania* for the book *Virology of Fruit Trees*
- 1996: *Award of Plant Protection Society, Romania* for the best scientific paper of youth researcher
- Member of editorial committees (scientific): *Frontiers in Microbiology*, *American Journal of Agriculture and Forestry*, *ProEnvironment ProMediu - Journal of Documentation, Research, and Professional Training*; *Advances in Agriculture & Botany* - *International Journal of the Bioflux Society*; *Bulletin UASVM Cluj-Napoca* and *Documentary-Informative Bulletin Horticulture al Romanian Horticulture Society*
- Special Edition - Editor at *The Effect of Plant Pathogens on Horticultural Plants*, University of Basilicata, Italy and *Recent Advances in Fungal Plant Pathogens of Horticultural Crops*
- Member of the review team of the *Universal Journal of Agricultural Research*, Horizon Research Publishing (HRPUB), USA and *International Journal of Applied Science IDEAS SPREAD INC*, New York, USA
- Reviewer for 44 ISI (MDPI) scientific papers - *Ecologies*, *Plants*, *Horticulturae*, *Diversity*, *Agronomy*, *Sustainability*, *International Journal of Molecular Sciences*, *Current Issues in Molecular Biology and International Journal of Environmental Research and Public Health* and *Genes* - and 34 IDB papers
- Scientific Consultant of *Eco Ruralis Catalogue*. Editions I (2013), II (2014) and III (2015)
- Scientific reviewer for the following books: *Ecological Management* by Petru Burduhos, Bioflux Publishing House, Cluj-Napoca, 2021; *Biometeorology and plant phenology* by Sorin Vătcă, AcademicPres Publishing House, Cluj-Napoca, 2020; *Saving the Peasant Farm* - Avram Fițiu, Sens Publisher, Arad, 2017; *Applied Ecology* - Șandor Mignon et al., Rd. Digital Data Publisher Cluj, 2012; *Ecology of human settlements* - Vasile Laslo, Publisher University of Oradea, 2006
- Member of the organizing committee of the international symposium *Meeting on Plum Pox*, Pitesti-Maracineni, Romania, 27-29 August 2001
- Secretary of the Organizing Committee at the conference *Fighting viruses and mycoplasma at culture plants* - Bistrita, 14 September 1994

Research contracts –
project manager/
scientific advisor

1. *Extensive orchards and local fruit varieties conservation - key elements of the traditional landscape in Transylvania*. Contract 203/2014 (2014-2015) - Project manager
2. Partnerships – PN II, financing contract 51-071-PNCDI 2/18.10.2007. *Researches regarding the inventory and preservation of the genetic diversity at different vegetable species - the essential premise in developing the ecological agriculture in Romania and of the alimentation security in the long term* – Project manager
3. Priority 8.1. Policy – oriented research – scientific support to policies (SSP). FP6-2005-SSP-5-A. *Opportunities for farm seed conservation, breeding, and production* – Scientific advisor on behalf of Romania
4. International project TRANSVIR NO QLK 3-CT-02140. *Environmental Impact Assessment of Transgenic Grapevines and Plums on the Diversity and Dynamics of Virus Populations*. TRANSVIR No QLK 3-CT-02140 – responsible partner. Period 2003-2004. Finance Source: Europe Union (Bruxelles) – Scientific advisor on behalf of Romania
5. Project GRANT B.M. - 4533 RO. *Extending the technologies of producing quality apples with minimal expenses on private farms*. Period 2002-2004. Finance Source: World Bank - Scientific advisor, partner
6. *Ensuring fruit plantations health from stone species, in terms of virus diseases in order to advise the EU Regulations in this area and to increase the competitiveness of fruit market*. PROJECT 3425 Contract no. 723, ANSTI FINANCING - Scientific advisor, partner
- 7 Theme A 32 from the research program ORIZONT 2000. *Research on bio-ecological development of pathogens in apple, pear and plum ecosystems to diminish their «biological potential» through various means of preventing and combating environmental protection*. Period: 2000-2002. Finance Source: Ministry of Agriculture and Alimentation - Scientific advisor, partner
8. Theme A 35 from the research program ORIZONT 2000. *Monitoring populations of pests from apple, pear and plum plantations through different agro-technology methods with low impact on the environment*. Period: 2000-2002. Finance Source: Ministry of Agriculture and Alimentation - Scientific advisor, partner.



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Research contracts – lecturer /
expert

9-12. 4 research themes with 23 experiences, as part of the National Academy of Sciences Research agricultural and forestry "Gheorghe Ionescu-Șișești" program, Bucharest. Period 1991-1999, member of the research team and scientific advisor

1. SCIENCE BUILDING THE FUTURE, Funding source: European Research Executive Agency (REA). Program: HORIZON-MSCA-2022-CITIZENS-01, Contract duration: 2022 - 2024
2. Europe Aid Project/127765/C/ACT/MULTI/1-165: *Good practices in sustainable agriculture and food sovereignty: developing an inclusive approach in fighting against poverty. – expert and advisor for Educational Pathways in Universities activity implementation.* Transylvania Ecological Club - lecturer
3. *Traditional seed – the key for biodiversity protection.* SEE Grants, 2009-2014, within the program NGO fund in Romania, *Sustainable Development component.* CIVITAS Foundation for civil society. Contract no. RO2013-C3-008 – lecturer
4. *Conservative and participatory management in protected natural area «Natura 2000»: Turda and Tureni Habitat Areas.* Contracting authority, Cluj County Council. Contract 130528/20.08.2012 – expert
5. *Support capacity assessment of habitats with human activities from Rodna National Park.* Contracting authority, Maramures county council. Contract no.11/06.12.2011 – expert
6. *Natura 2000 Site Management – Câmpia Careiului (ROSCI0020).* 2010 – Priority axis 4 SOP ENVIRONMENT – expert
7. *Environmental education for the sustainable development of the mountain area in SW County Cluj.* Financing contract no. 20671 din 27.02.2008 – Environmental Fund – lecturer

Research contracts –
member of the research
group

1. ERANET BIODIVERSA entitled *Scenario for ensuring multiple ecosystem services and biodiversity conservation in viticultural agroecosystems*, European Commission H2020, ERA-NET COFUND, Period 2020-2023
2. *Ecosystem Services Provided by Soil biodiversity - understanding and management.* Contract 94/3.10.2016. UEFISCDI. Period 2016-2019 - member of the research group
3. *Innovative and sustainable intensification of food and embedded systems non-food products to develop agroecosystems resilient to factors climate in Europe and worldwide.* FACCE SURPLUS ERANET Cofund-73. Period 2016-2019
4. *Agro-écologie: savoirs, pratiques et transmission.* Grant Agreement N° 213-4163/001-001, Project Number 538785-LLP-1-2013-1-FR-LEONARDO-LLP
5. Project CEEX- *Laboratory for analysis of the air quality.* Contract no. 16/10.08.2006 - member of the research group
6. Project CEEX - M4 C2 - 2909 entitled: *Accreditation of the laboratory for water testing and noise level according to SR EN ISO/CEI 17025:2005 and european directives implemented in the Romanian legislation* - member of the research group
7. *Researches regarding the ecologically integrated protection of ecosystems – the fundamental component of the concept of durable agriculture, in conformity with the Europeans agro protection norms and standards.* Contract no. 102/3.10.2005 - member of the research group
8. Project PN II - *Scientific substantiation for including the Cusma area (Bistrita Nasaud County) in the Europeans Ecology Network «Natura 2000».* Contract no. 31025/14.09.2007 - member of the research group
9. RELANSIN. Project no. 3363. Period 2001-2003. Finance Source: Ministry of Education and Research - scientific advisor, partner

Total number of papers/
Patents

- 6 scientific books (on 5 first author); 10 university textbooks (at 7 first author), 190 scientific articles, of which 20 articles in ISI Thomson Reuters rated journals and ISI proceedings indexed volumes, 72 BDI articles and 98 articles in other journals
- 4 variety patents as first author of which: *Solanum lycopersicum* (Cassiana, Danamari and Chandona) patented at ISTIS: no. 00502/10.10/2018, 00503/10.10/2018 and 00656/20.07.2022 and *Lactuca sativa* (Tiralessia 50) patented at ISTIS no. 00657/20.07.2022



Relevant papers

Books (5):

1. Natural Resources, 2019. Editura AcademisPres, Cluj-Napoca, E-ISBN:978-973-744-774-6
2. Agroecology, 2019. Editura AcademisPres, Cluj-Napoca, E-ISBN:978-973-744-773-9
3. Agrobiodiversity și Bioconservation, 2010. Editura Risoprint Cluj-Napoca ISBN 978-973-53-0418-8
4. General and Applied Ecology, 2008. Editura Risoprint Cluj-Napoca – ISBN 978-973-751-7395
5. Tree virology. The General Part, 2002. Editura Ceres, București. ISBN: 973-40-1553-7

Scientific papers (5):

1. Assessment of Tomato (*Solanum lycopersicum*) Landraces for Their Agronomic, Biochemical Characteristics and Resistance to *Phytophthora infestans*. *Agronomy* 2022, 13, 21. <https://doi.org/10.3390/agronomy13010021>
2. Investigations on Fungi Isolated from Apple Trees with Die-Back Symptoms from Basilicata Region (Southern Italy). *Plants* 2022, 11, 1374. <https://doi.org/10.3390/plants11101374>
3. Alternative Control of *Phragmidium rubi-idaei* Infecting Two *Rubus* Species. *Plants* 2021, 10, 1452. <https://doi.org/10.3390/plants10071452>
4. Maxim, A., Străjeru, S., Albu, C. et al. Conservation of vegetable genetic diversity in Transylvania-Romania. *Sci Rep* 10, 18416 (2020). <https://doi.org/10.1038/s41598-020-75413-x>
5. The Influence of Selected Meteorological Factors on Microbial Biomass and Mineralization of Two Organic Fertilizers. *Not. Bot. Hort. Agrobot. Cluj* 39(1):107-113 (2010)

Personal skills

1. Coordinating professor in Collaboration Protocol between UASMV Cluj-Napoca and the Administration of the Rodna Mountains National Park, Bistrita-Nasaud County
2. Agrobiodiversity conservation: scientific research with the identification of small producers of vegetable seed from the Western half of Romania, to identify landraces, their characterization and conservation of the seeds in the gene banks
2. Parasites control on crop plants in the integrated and ecological system
3. The ecology of plant parasites: scientific activity in the field of monitoring of biotic and abiotic environmental factors through computer systems based on the development of sensors and algorithms for warning of plant treatments
4. Vegetation studies at the tailings ponds
5. Rehabilitation of industrial degraded ecosystems: course leader of the Rehabilitation of industrial degraded ecosystems (2005-2009); scientific activity with students in the field
6. Serological and molecular techniques and diagnosis of systemic parasites in fruit trees: scientific activity in the field (13 years)
7. Proficient with Microsoft Office programme, computer graphics

Mother tongue(s)

Romanian

Other language(s)

Self-assessment	Understanding	Speaking	Writing
English	Independent user	Independent user	Independent user
French	Elementary user	Elementary user	Elementary user

Language

Language

Additional information

- Coordinating professor of the activities that are the object of the Collaboration Protocol between USAMV Cluj-Napoca and the Administration of the Rodna Mountains National Park, Bistrița-Năsăud County
- Experience in the management of research projects. I was a project manager, scientific advisor and a member of the research group in the national and international scientific research projects (28). Engaging students, master and PhD students in these activities
- Management of various activities in the field of activist ecology: environmental education, identification of local varieties of crop plants, promoting traditional farming systems



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- Detection for the first time in Romania *Plum Pox Virus* with sweet cherry and sour cherry trees in 2000
- The leadership of the student's ecology and conservation of biodiversity group within UASMV Cluj-Napoca
- Published 91 articles about social, historical and political topics, in the dailies RASUNETUL of Bistrita Năsăud (1995-2007), CAIETE SILVANE of Salaj (2013), VIATA CRESTINA (2020) and CETATEA CREDINTEI (2019, 2021).
- Interviews and media appearance on various professional topics (newspapers, radio, TV) – approx. 200
- Chairman of baccalaureate committees and member of commissions for promoting teachers within UASMV Cluj-Napoca and North University of Baia Mare
- President and member of Doctoral Committees. Member of the Habilitation Commissions
- Published book *Marinul - Romanian fireplace of Salaj* (650 pages). Authors: A. Maxim, P. Maxim, T. Șandor, 2012. Caiete Silvane Publisher, Zalău

Date: January 31, 2023

Name / Surname: Aurel MAXIM