




Curriculum vitae	
Personal informations	
Name / Surname	AUREL MAXIM
Phone number(s)	+ 40-264-596.384
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E-mail (s)	aurel.maxim@usamvcluj.ro ; maxim0067@yahoo.com
Citizenship	Romanian
Field of activity	
Academic rank / Scientific title	Professor PhD
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"> - 22 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



<p>Specializations / Qualifications</p>	<ul style="list-style-type: none"> - 2023: Publishing Opportunities Workshop with einformation - 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) – <i>European Structural and Cohesion Funds Expert</i>, Code COR 242 213 - 2010: Training course for using the platform <i>ID-Assistant</i> for tutors, Cluj-Napoca - 2007: RENAR FPS 1 <i>Course Presenting the SR EN ISO/CEI 17025:2005 requirements</i>, Cluj-Napoca - 2004-2005: <i>Post-graduate course in Psychopedagogy</i> in the Department for the preparation of teachers – UASMV Cluj-Napoca - 2003: <i>Plants genetic manipulation</i>, University of Nottingham, Great Britain - 2001: <i>Producing «Virus free» nursing material for fruit-trees</i>, Angers - France - 1999: <i>Molecular methodologies for diagnosis of plant viruses</i> (RT-Polymerase Chain Reaction, Western blotting), Praha – Czech Republic - 1997: <i>Course for effective communication</i>, Bucharest - 1997: <i>Immunoelectron microscopy</i>, Chişinău – Moldavia Republic - 1996: <i>Serological diagnosis of fruit trees viruses</i>, Chişinău – Moldavia Republic - 1993: <i>MS-DOS computer system and shell Windows</i>, Bucharest - 1993: <i>«AgroExpert» system for warning phytosanitary treatments of diseases and pests</i>, Bucharest - 1992: <i>Automatical system «AgroExpert» for warning phytosanitary treatments of phytopathogenic agents fruit trees</i>, Wien – Austria
<p>Work experience Period / Occupation or position held / Name of employer</p>	<p>2016 – present, Professor at the Department of Engineering and Environmental Protection; PhD Supervisor - Order of the Minister of National Education no. 4134 din 21.06. 2017</p> <p>2008 – 2016, Associate Professor PhD at UASMV Cluj-Napoca at the Department of Environmental and Plant Protection</p> <p>2004 – 2008, Lecturer PhD at USAMV Cluj - Napoca at the Department of Environmental and Plant Protection</p> <p>2002 – 2004: Senior researcher II at Fruit Research and Growing Station (FRGS) Bistrita and Head of the Plant Protection - Ecology Laboratory</p> <p>1998 – 2002: Senior researcher III at FRGS Bistrita and Head of the Plant Protection - Ecology Laboratory</p> <p>1995 – 1998: Junior researcher at FRGS Bistrita, at Plant Protection - Ecology Laboratory</p> <p>1992 – 1995: Research assistant at FRGS Bistrita, at Plant Protection - Ecology Laboratory</p> <p>1991 – 1992: Researcher engineer at FRGS Bistrita, Plant Protection - Ecology Laboratory</p>
<p>Attribution and administrative activities</p> <p>Professional affiliations</p>	<ul style="list-style-type: none"> - Director of studies at distance learning at specialization - Engineering and Environmental Protection UASMV Cluj-Napoca - Master Coordinator - Protection of Natural and Man-Made Systems, UASMV Cluj-Napoca - Coordinator of the Ecology Discipline, UASMV Cluj-Napoca - Member of the Administration Council of FRGS Bistrita, 1997-2004 - Vice president of The <i>Technical Institute for Ecological Agriculture Association</i> with the head office in Cluj-Napoca - Scientific director of <i>Eco Mont Foundation</i>, Cluj-Napoca - member of the <i>European Society for Soil Conservation</i> - member of the <i>Bioterra</i> bio farmers association from Romania - member of the <i>Romanian Society for Ecological Agriculture</i> - member of the <i>National Society for the Plants Protection from Romania</i> - member of the <i>Biological Security Commission</i> (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 <i>Information Center Regarding Genetically Modified Organisms</i> from Romania (2006-2015) - General secretary of <i>Eco Ruralis Foundation</i>, Cluj-Napoca (2009-2015)



Professional prestige	<ul style="list-style-type: none">- 2025. "Exceptional Reviewer" (Q1) nomination, <i>Horticulturae</i> journal (MDPI), for the outstanding quality of peer-review reports.- 2025. Merit Diploma, awarded by the Fruit Growing Research and Development Station Bistrița (under the aegis of the Academy of Agricultural and Forestry Sciences "Gheorghe Ionescu-Șișești"), for contributions to large-scale research in the field of fruit tree protection.- 2023. Award of research results - Web of Science Articles, Competition 2023 - for the paper: Investigations on Fungi Isolated from Apple Trees with Die-Back. <i>Plants</i> 2022, 11, 1374. https://doi.org/10.3390/plants11101374- 2022. Award of Research Results - Web of Science Articles, Competition 2022 - for the paper: Alternative Control of Phragmidium rubi-idaei Infecting Two Rubus Species. <i>Plants</i> 2021, 10, 1452. https://doi.org/10.3390/plants10071452- 2021. Award of research results - Web of Science Articles, Competition 2021 - for the paper: Conservation of vegetable genetic diversity in Transylvania-Romania. <i>Sci Rep</i> 10, 18416 (2020). https://doi.org/10.1038/s41598-020-75413-x- 2018. Excellence Award - Bioterra, Romanian Association of Bioagriculturers- 2012: Appointed <i>Bologna professor</i> 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: <i>Award of Horticultural Society, Romania</i> for the book <i>Virology of Fruit Trees</i>- 1996: <i>Award of Plant Protection Society, Romania</i> for the best scientific paper of youth researcher- Member of the Editorial Boards (Scientific Committees) of ISI - and BDI-indexed journals:<ul style="list-style-type: none">• <i>Frontiers in Microbiology</i>• <i>American Journal of Agriculture and Forestry</i>• <i>Horticulturae</i> (MDPI) – Special Issues:<ul style="list-style-type: none">○ <i>Recent Advances in Fungal Plant Pathogens of Horticultural Crops</i>○ <i>The Effect of Plant Pathogens on Horticultural Plants</i>• <i>Agrobiodiversity & Agroecology Journal</i>• <i>International Journal of Applied Science</i>• <i>ProEnvironment / ProMediu – Journal of Documentation</i>• <i>Extreme Life, Biospeleology & Astrobiology</i>• <i>Advances in Environmental Sciences</i>• <i>Advances in Agriculture & Botany</i>• <i>Aquaculture, Aquarium, Conservation & Legislation</i>• <i>Universal Journal of Agricultural Research</i>• <i>Buletin Documentar-Informativ Horticol</i> (SRH)- Member of the Reviewer Team for the <i>International Journal of Applied Science</i>, IDEAS SPREAD INC (New York, USA)- Peer Reviewer for 123 ISI-indexed scientific articles published in journals of the MDPI group (<i>Ecologies, Plants, Forests, Horticulturae, Diversity, Agronomy, Sustainability, International Journal of Molecular Sciences, Current Issues in Molecular Biology, International Journal of Environmental Research and Public Health, Genes</i>) and <i>Frontiers in Microbiology</i> (Frontiers), as well as for 62 BDI-indexed scientific articles.- Scientific Consultant of <i>Eco Ruralis Catalogue</i>. Editions I (2013), II (2014) and III (2015)- Scientific reviewer for the following books: <i>Ecological Management</i> by Petru Burduhos, Bioflux Publishing House, Cluj-Napoca, 2021; <i>Biometeorology and plant phenology</i> by Sorin Vătcă, AcademicPres Publishing House, Cluj-Napoca, 2020; <i>Saving the Peasant Farm</i> - Avram Fițiu, Sens Publisher, Arad, 2017; <i>Applied Ecology</i> - Șandor Mignon et al., Rd. Digital Data Publisher Cluj, 2012; <i>Ecology of human settlements</i> - Vasile Laslo, Publisher University of Oradea, 2006- Member of the organizing committee of the international symposium <i>Meeting on Plum Pox</i>, Pitesti-Maracineni, Romania, 27-29 August 2001- Secretary of the Organizing Committee at the conference <i>Fighting viruses and mycoplasma at culture plants</i> - Bistrița, 14 September 1994
Research contracts – project manager/ scientific advisor	1. Identification and conservation of local varieties of solano-fruited vegetables suitable for organic farming. Contract, Ministry of Research, Innovation and Digitisation No 7/17.01.2024 - Project manager



	<p>2. <i>Extensive orchards and local fruit varieties conservation - key elements of the traditional landscape in Transylvania.</i> Contract 203/2014 (2014-2015) - Project manager</p> <p>3. Partnerships – PN II, financing contract 51-071-PNCDI 2/18.10.2007. <i>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 –</i> Project manager</p> <p>4. Priority 8.1. Policy – oriented research – scientific support to policies (SSP). FP6-2005-SSP-5-A. <i>Opportunities for farm seed conservation, breeding, and production –</i> Scientific advisor on behalf of Romania</p> <p>5. International project TRANSVIR NO QLK 3-CT-02140. <i>Environmental Impact Assessment of Transgenic Grapevines and Plums on the Diversity and Dynamics of Virus Populations.</i> TRANSVIR No QLK 3-CT-02140 – responsible partner. Period 2003-2004. Finance Source: Europe Union (Bruxelles) – Scientific advisor on behalf of Romania</p> <p>6. Project GRANT B.M. - 4533 RO. <i>Extending the technologies of producing quality apples with minimal expenses on private farms.</i> Period 2002-2004. Finance Source: World Bank - Scientific advisor, partner</p> <p>7. <i>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.</i> PROJECT 3425 Contract no. 723, ANSTI FINANCING - Scientific advisor, partner</p> <p>8. Theme A 32 from the research program ORIZONT 2000. <i>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.</i> Period: 2000-2002. Finance Source: Ministry of Agriculture and Alimentation - Scientific advisor, partner</p> <p>9. Theme A 35 from the research program ORIZONT 2000. <i>Monitoring populations of pests from apple, pear and plum plantations through different agro-technology methods with low impact on the environment.</i> Period: 2000-2002. Finance Source: Ministry of Agriculture and Alimentation - Scientific advisor, partner.</p> <p>10-13. 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</p>
Research contracts – lecturer / expert	<p>1. SCIENCE BUILDING THE FUTURE, Funding source: European Research Executive Agency (REA). Program: HORIZON-MSCA-2022-CITIZENS-01, Contract duration: 2022 - 2024</p> <p>2. Europe Aid Project/127765/C/ACT/MULTI/1-165: <i>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.</i> Transylvania Ecological Club - lecturer</p> <p>3. <i>Traditional seed – the key for biodiversity protection.</i> SEE Grants, 2009-2014, within the program NGO fund in Romania, <i>Sustainable Development component.</i> CIVITAS Foundation for civil society. Contract no. RO2013-C3-008 – lecturer</p> <p>4. <i>Conservative and participatory management in protected natural area «Natura 2000»: Turda and Tureni Habitat Areas.</i> Contracting authority, Cluj County Council. Contract 130528/20.08.2012 – expert</p> <p>5. <i>Support capacity assessment of habitats with human activities from Rodna National Park.</i> Contracting authority, Maramures county council. Contract no.11/06.12.2011 – expert</p> <p>6. <i>Natura 2000 Site Management – Câmpia Careiului (ROSCI0020).</i> 2010 – Priority axis 4 SOP ENVIRONMENT – expert</p> <p>7. <i>Environmental education for the sustainable development of the mountain area in SW County Cluj.</i> Financing contract no. 20671 din 27.02.2008 – Environmental Fund – lecturer</p>
Research contracts – member of the research group	<p>1. Assessment, conservation and valorisation of the local vegetable genetic heritage, ADER project 6.1.5. Period 2023-2025.</p> <p>2. ERANET BIODIVERSA entitled <i>Scenario for ensuring multiple ecosystem services and biodiversity conservation in viticultural agroecosystems,</i> European Commission H2020, ERA-NET COFUND, Period 2020-2023</p> <p>3. <i>Ecosystem Services Provided by Soil biodiversity - understanding and management.</i> Contract 94/3.10.2016. UEFISCDI. Period 2016-2019</p> <p>4. <i>Innovative and sustainable intensification of food and embedded systems non-food products to develop agroecosystems resilient to factors climate in Europe and worldwide.</i> FACCE SURPLUS ERANET Cofund-73. Period 2016-2019</p>



Total number of papers/ Patents	<p>5. <i>Agro-écologie: savoirs, pratiques et transmission</i>. Grant Agreement N° 213-4163/001-001, Project Number 538785-LLP-1-2013-1-FR-LEONARDO-LLP</p> <p>6. Project CEEEX- <i>Laboratory for analysis of the air quality</i>. Contract no. 16/10.08.2006</p> <p>7. Project CEEEX - M4 C2 - 2909 entitled: <i>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</i> - member of the research group</p> <p>8. <i>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</i>. Contract no. 102/3.10.2005 - member of the research group</p> <p>9. Project PN II - <i>Scientific substantiation for including the Cusma area (Bistrita Nasaud County) in the Europeans Ecology Network «Natura 2000»</i>. Contract no. 31025/14.09.2007 - member of the research group</p> <p>10. RELANSIN. Project no. 3363. Period 2001-2003. Finance Source: Ministry of Education and Research - scientific advisor, partner</p> <p>- 6 scientific books (on 5 first author); 10 university textbooks (at 7 first author), 200 scientific articles, of which 20 articles in ISI Thomson Reuters rated journals and ISI proceedings indexed volumes, 82 BDI articles and 98 articles in other journals</p> <p>- 4 variety patents as first author of which: <i>Solanum lycopersicum</i> (Cassiana, Danamari and Chandona) patented at ISTIS: no. 00502/10.10/2018, 00503/10.10/2018 and 00656/20.07.2022 and <i>Lactuca sativa</i> (Tiralessia 50) patented at ISTIS no. 00657/20.07.2022</p>
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Relevant papers	<p>Books (5):</p> <ol style="list-style-type: none"> 1. Agroecology, 2023. Editura AcademisPres, Cluj-Napoca, eISBN 978-630-309-071-9 2. Natural Resources, 2019. Editura AcademisPres, Cluj-Napoca, E-ISBN:978-973-744-774-6 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 <p>Scientific papers (5):</p> <ol style="list-style-type: none"> 1. Assessment of Tomato (<i>Solanum lycopersicum</i>) Landraces for Their Agronomic, Biochemical Characteristics and Resistance to <i>Phytophthora infestans</i>. <i>Agronomy</i> 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). <i>Plants</i> 2022, 11, 1374. https://doi.org/10.3390/plants11101374 3. Alternative Control of <i>Phragmidium rubi-idaei</i> Infecting Two <i>Rubus</i> Species. <i>Plants</i> 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. <i>Sci Rep</i> 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. <i>Not. Bot. Hort. Agrobot. Cluj</i> 39(1):107-113 (2010) 			
Personal skills	<ol style="list-style-type: none"> 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
Language	English	Independent user	Independent user	Independent user
Language	French	Elementary user	Elementary user	Elementary user



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Additional information	<ul style="list-style-type: none">- 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- Detection for the first time in Romania <i>Plum Pox Virus</i> 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 <i>Marinul - Romanian fireplace of Salaj</i> (650 pages). Authors: A. Maxim, P. Maxim, T. Șandor, 2012. Caiete Silvane Publisher, Zalău.
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Date: 20 April 2026

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