



## Curriculum Vitae Europass

### Personal information

First name(s) / Surname(s) **CORDEA Mirela Irina**

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Fax(es)

E-mail [mcordea@usamvcluj.ro](mailto:mcordea@usamvcluj.ro)

Citizenship Romanian

Marital status Unmarried

Date of birth

Gender Female

### Domains of activity

Teaching degree/ Scientific title Prof. habil. PhD

Department / Key Words Plant breeding

Domains of competence Genetics and Plant Breeding  
Experimental design  
Seed production  
Plant biotechnology

Domains of interest Plant breeding, horticulture

Teaching activity Horticultural plant breeding  
Management of seed production and planting material Stress of plant reaction  
Forestry of plant breeding  
Biotechnological tools for seed production and planting material Experimental Design

### Education and training

- 2017 – Public defense of Habilitation thesis in Horticulture
- 1998 – 2004 University of Agricultural Science and Veterinary Medicine Cluj-Napoca, Diploma of Doctor, serie C, nr. 0010500
- 1988 – 1993 University of Agricultural Science and Veterinary Medicine Cluj-Napoca, Diploma of Horticultural Engineer, serie I Nr. 1833
- 1983 – 1987 Industrial high school Jibou, Diploma serie: F Nr. 46888



Specializations and qualifications	<p>- <b>2007:</b> University of Copenhagen, Faculty of Life Sciences, Department of Agricultural Sciences, Copenhagen, Denmark, postdoc scholarship provided by the Ministry of Education and Research Romania, through CNBSS (6 months);</p> <p>- <b>2002 - 2003:</b> Danish Institute of Agricultural Science, the Royal Veterinary and Agriculture University, Copenhagen, Denmark, Plant Biotechnology Dpt., Marie Curie scholarship (1 year);</p> <p>- <b>2001:</b> University of Nottingham, UK, School of Biosciences, Plant Science Division, full-time MSc, Plant Genetic Manipulation (5 months);</p> <p>- <b>1999:</b> De Montfort University, School of Agriculture and Horticulture, Lincoln, UK; specialization in: Short Term Agricultural Higher Education (1 month)</p>
<b>Work experience</b>	
Dates / Occupation or position held/ Name of employer	<p><b>2016 – up to now</b> – Vice-dean of Research, Faculty of Horticulture, UASVM Cluj-Napoca</p> <p><b>2018 – up to now</b> – PhD Coordinator in Horticulture, IOSUD – SAI, UASVM Cluj-Napoca</p> <p><b>Feb. 2015 – up to now</b> – Professor, Faculty of Horticulture, UASVM Cluj-Napoca</p> <p><b>Oct. 2008 – 2015</b> – Associate Prof., Faculty of Horticulture, UASVM Cluj-Napoca</p> <p><b>2004 – 2008</b> – Lecturer, Faculty of Horticulture, UASVM Cluj-Napoca</p> <p><b>2001 – 2004</b> - Assistant professor, Faculty of Horticulture, UASVM Cluj-Napoca</p> <p><b>1998 – 2001</b> - Full time PhD Student, Faculty of Horticulture, UASVM Cluj-Napoca</p>
Professional affiliations Memberships	<p>1998 - Romanian Association of Roses in Romania</p> <p>2003 - EUCARPIA (European Association for Research on Plant Breeding) – Representative for Romania</p> <p>2003 - ISHS (International Society for Horticultural Sciences)</p> <p>2012 - Horticulture and Forestry Society from Transylvania</p> <p>2013 – Romanian Horticultural Society</p> <p>2015 – EBTNA (European Biotechnology Thematic Network Association)</p> <p>2015 - EPSO, European Plant Sciences Organization</p>
Coordinated research contracts	<p><b>2023-2026 –Project partner responsible</b>, Evaluation, conservation and valorization of autochthonous vegetable genetic heritage, ADER Project no. 6.1.5./21.07.2023.</p> <p><b>2014 – 2017, Scientific and Consulting project, Director</b>, Research on biological and economic efficiency of sweetcorn lyophilization.</p> <p><b>2005 – 2007, Grant CNCSIS Director</b>, Determining the authenticity of F<sub>1</sub> hybrids in <i>Ipomoea</i> genus, by RAPD analysis.</p> <p>- <b>2022-2024 - Contract 14 PFE, Member</b>, Increasing institutional performance through mechanisms for consolidating and developing research directions within USAMV CN.</p> <p>- <b>2018 - 2020 - Contract no. 37PFE/06.11.2018, Member</b>, Increasing the institutional performance through consolidation and development of research directions within the USAMVCN.</p> <p><b>2009 - 2011, Grant PN-II-ID-PCE-2008-2 Member</b>, Effect of genotype x crop environment interaction upon yield and kernel quality in sweet corn grown in conventional and organic (low input) systems of agriculture.</p> <p><b>2007 - 2008, Grant CNCSIS nr. 848, Member</b>, Developing modern methods to exploit artificial variability in <i>Pirus communis</i>: phenotypic selection complemented by MAS (Bulk Segregate Analysis).</p> <p><b>2007 – 2008, Grant CNCSIS Member</b>, The genetic variability and fruit production stability on the main plums cultivars in Transylvania by molecular markers and nonparametric methods.</p> <p><b>2006 – 2008, Proiect CEEX, Modul I, Tip: P-CD, Nr. Proiect: 29/19.07.2006</b>, Landscape appropriation and modernization in Romania and its favorable impact on environment and human beings.</p> <p><b>2006 - 2008, Proiect CEEX, modul III, nr. 1864</b>, Inhacement of participations of Romania horticultural research into European and international programs on germplasm cryopreservation.</p> <p><b>2006 - 2008, Grant CNCSIS</b>, Use of molecular analyses to identify individual of pharmaceutical value, originated in different growing areas of <i>Ginkgo biloba</i> L.</p> <p><b>2005 – 2007, Grant CNCSIS Member</b>, The phenotypic variability and polymorphism at molecular level on the main apples cultivars in Transylvania.</p> <p><b>2004 - 2006, Grant CNCSIS Member</b>, RAPD molecular markers for gene identification witch control ideotyp and daises resistance in apple.</p> <p><b>2002- 2004, Grant CNCSIS Member</b>, In vitro mutation in lettuce for breeding purposes.</p> <p><b>2001 - 2003, Grant CNCSIS Member</b>, Inducing variability in <i>Ipomoea</i> genus by means of intra-and interspecific hybridization.</p> <p><b>1998 – 2001, Grant CNCSIS Member</b>, Somaclonal variation and in vitro induced mutations in ornamental species for breeding purposes.</p>

Referent, evaluator, expert etc.	<ul style="list-style-type: none"> <li>- Referent for PhD thesis (USAMV Cluj-Napoca and USAMVB Timisoara, UBB Cluj-Napoca)</li> <li>- External evaluator for PhD thesis „Comparative analyses of plant responses to drought and salt stress in related taxa: A useful approach to study stress tolerance mechanisms” MOHAMAD AL HASSAN, Polytechnic University of Valencia Spain 2015</li> </ul>
Publications	<ul style="list-style-type: none"> <li>- 4 books/courses, 2 chapters in national and international books, 1 Horticultural plant breeding-practical work;</li> <li>- 94 published scientific articles: 33 in journals ISI or ISI indexing, 73 in journals indexing in International Data Base and 34 in another scientific journals and paper conference.</li> </ul>
Significant published books and articles	<p><b>6 books/courses and one practical works</b></p> <ol style="list-style-type: none"> <li>1. <b>CORDEA MIRELA</b>, BORSAI ORSOLYA, 2021, Salt and water stress responses in plants în Cartea: Plant Stress Physiology-Perspectives in Agriculture <a href="https://www.intechopen.com/chapters/79405">https://www.intechopen.com/chapters/79405</a></li> <li>2. Mirela Irina Cordea, Adrian George Peticilă, 2021, L'utilisation des déchets alimentaires sous forme de compost in Le Gaspillage alimentaire - Gestion et revalorization des déchets alimentaires, Ed. AcademicPres, Cluj-Napoca.</li> <li>3. <b>CORDEA MIRELA IRINA</b>, 2014, Zorelele, Ed. AcademicPres, Cluj-Napoca, ISBN 978-973-744-366=3, 173 pag.</li> <li>4. <b>CORDEA MIRELA IRINA</b>, 2014, Ameliorarea plantelor horticole-lucrari practice, Ed. AcademicPres, Cluj- Napoca, ISBN 978-973-744-359-5, 156 pag.</li> <li>5. <b>CORDEA MIRELA</b>, 2008, Producerea de sămânță și material săditor horticol, Ed. AcademicPres, Cluj- Napoca, ISBN 978-973-744-114-0, 205 pag.</li> <li>6. ARDELEAN, M., R. SESTRAȘ, <b>MIRELA CORDEA</b>, 2007, Tehnică experimentală horticolă, Ed. AcademicPres, Cluj-Napoca, ISBN 973-744-8266-75-0, 110 pag.</li> <li>7. ARDELEAN MARIN, R. SESTRAȘ, <b>MIRELA CORDEA</b>, 2006, Ameliorarea plantelor horticole, Ed. AcademicPres, Cluj-Napoca, ISBN 10: 973-744-037-4; ISBN 13: 978-973-744-037-2, 132 pag.</li> </ol>
	<p><b>Published articles in the last years:</b></p> <ol style="list-style-type: none"> <li>1. Hârța M, Clapa D, Cornea-Cipcigan M, Borsai O, Pop R, <b>Cordea MI.</b> (2023), Multivariate Assessment of Genetic Relationships between Two Streptocarpus Cultivars and Their F1 Progenies Using Morphological Characteristics and SCoT Molecular Markers. Horticulturae. 15;9(4):497.</li> <li>2. Cornea-Cipcigan, M., <b>Cordea, M. I.</b>, Mărgăoan, R., &amp; Pamfil, D. (2022). Exogenously Applied GA3 Enhances Morphological Parameters of Tolerant and Sensitive <i>Cyclamen persicum</i> Genotypes under Ambient Temperature and Heat Stress Conditions. Plants, 11(14), 1868.</li> <li>3. Boboc Oros, P., Cantor, M., <b>Cordea, M. I.</b>, &amp; Cătană, C. (2022). Plant Regeneration Protocol for Recalcitrant Passionflower (<i>Passiflora quadrangularis</i> L.). Horticulturae, 8(4), 337.</li> <li>4. <b>CORDEA Mirela Irina</b>, POP Rodica, <i>Ipomoea platensis</i> – multiplication of a new ornamental species in Romania, Scientific Papers-Series B, Horticulture 65, no. 1 (2021): 621-626.</li> <li>5. SOBOLU, Rodica, <b>Mirela CORDEA</b>, Ioana POP, Luisa ANDRONIE, and Dana PUSTA. "Automatic sorting of potatoes according to their defects." Scientific Papers-Series B, Horticulture 64, no. 1 (2020): 462-468.</li> <li>6. Sobolu, R., <b>Mirela CORDEA</b>, I. Pop, D. Popescu, and D. Pusta. "Grapes' leaves disease detection through image processing." Scientific Papers-Series B, Horticulture 63, no. 1 (2019): 247-252.</li> <li>7. Vintila, A. I., M. I. Cordea, A. Pinteaa, and S. Vatca. "Evaluation of abiotic stress reaction on Lophanthus anisatus." Journal of Biotechnology 305 (2019): S61.</li> <li>8. MIHALESCU, Lucia, Oana MARE ROSCA, Anca DUMUTA, <b>Mirela CORDEA</b>, and Zorica VOȘGAN. "Study of the Influence of Lead Microelement on the Process of Water Accumulation in (<i>Phaseolus vulgaris</i>) Plants." Bulletin of the University of Agricultural Sciences &amp; Veterinary Medicine Cluj-Napoca. Agriculture 76, no. 2 (2019).</li> <li>9. Sobolu, R., L. Stanca, D. Pusta, I. Pop, and M. Cordea. "IMAGE PROCESSING TECHNIQUE APPLYING TO DETECT BLACK SPOT AND RUST DISEASES AT ROSES." Managerial Challenges of the Contemporary Society. Proceedings 12, no. 1 (2019): 68-73.</li> <li>10. CĂLUGĂR, Anamaria, <b>Mirela Irina CORDEA</b>, Anca BABEȘ, Melinda FEJER, and Manastur St. "Dynamics of Starch Reserves in Some Grapevine Varieties (<i>Vitis vinifera</i> L.) During Dormancy." Bulletin UASVM Horticulture 76 (2019): 2.</li> <li>11. CORDEA, Mirela Irina, Rodica POP, Cristian Radu SISEA, Adrian PETICILĂ, and Alexandra Ioana VINTILĂ. "Artificial hybridization and in vitro seed germination in Phalaenopsis sp." Scientific Papers-Series B, Horticulture 63, no. 1 (2019): 535-539.</li> <li>12. <b>CORDEA, Mirela Irina</b>, and Alexandra TIRIPLICĂ. "Influence of Pollen Germination Capacity on a Successful Artificial Hybridization in Cyclamen sp." (2019).</li> <li>13. ANDRECAN, Andreea Flavia, Viorel MITRE, Olimpia IORDĂNESCU, and <b>Mirela Irina CORDEA</b>, 2018, Influence of Technology and Environment on the Pollen Germination Capacity in Cherry, Bulletin of the University of Agricultural Sciences &amp; Veterinary Medicine Cluj-Napoca. Horticulture 75, no. 2.</li> <li>14. <b>CORDEA, Mirela Irina</b>, Ioana Delia Pop, Sonia BORS-OPRIȘA, and Lucia Mihalescu, 2018, Pollen analysis in some tulip cultivars, Scientific Papers-Series B, Horticulture 62: 601-604.</li> <li>15. MIHALESCU, Lucia, Zorica VOȘGAN, Monica MARIAN, Stela JELEA, Oana MARE ROȘCA, Flavia POP, Aurel MAXIM, and <b>Mirela CORDEA</b>, 2018, Studies Regarding the Combat of the Braches Burns Produced by the Phomopsis Vaccinii at Blueberry Bushes Cultivated in Maramures County, Bulletin USAMV series Agriculture 75: 2.</li> <li>16. Cristina Bianca POCOL, Călin MOLDOVAN-TESELIOS, Daniele CAVICCHIOLI, <b>Mirela Irina CORDEA</b>, AgroLife Scientific Journal - Volume 6, Number 1, 2017 ISSN 2285-5718 Has the Leader Programme Been Effective in Promoting Local Rural Development? An Evaluation on Two Romanian Regions.</li> </ol>

17. Lucia MIHALESCU, Zorica VOȘGAN, Oana MARE ROȘCA, Monica MARIAN, Stela JELEA, Flavia POP, Anca DUMUȚA, Aurel MAXIM, **Mirela CORDEA**, Study of the Influence of External Factors on the Germination of Bean Seeds, Bulletin UASVM series Agriculture 73(2)/2016 Print ISSN 1843-5246; Electronic ISSN 1843-5386.
18. Lucia MIHALESCU, Zorica VOȘGAN, Oana MARE ROȘCA, Monica MARIAN, Stela JELEA, Flavia POP, Anca DUMUȚA, Aurel MAXIM, **Mirela CORDEA**, Measures to Prevent and Combat Pear Scab (*Venturia pirina*) in the Climate Conditions of Lapusel, Bulletin UASVM series Agriculture 73(2)/2016, Print ISSN 1843-5246; Electronic ISSN 1843-5386.

<https://scholar.google.com/citations?user=0cUjTqIAAAJ&hl=en>

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WOS researcherID AAG-1043-2019

## Personal skills and competences

Mother tongue(s)

**Romanian**

Other language(s)  
Self-assessment

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
<b>English</b>	C1 Proficient user	C1 Proficient user		B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user	
<b>French</b>	A1 Basic user	A1 Basic user		A1 Basic user	A1 Basic user	A1 Basic user	A1 Basic user	A1 Basic user	

European level  
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(\*) [Nivelul Cadrului European Comun de Referință Pentru Limbi Străine](#)

## Conferences

- 2000 – Mondial Conference of Roses – Kazanlak, Bulgaria, 28.05 – 04.06.
- 2002 – International Symposium “Innováció, a tudomány és a gyakorlat egysége az ezredforduló agráriumban, 11-12 April 2002 Debrecen, Hungary
- 2005 – International Symposium, “Proceedings 45<sup>th</sup> Croatian symposium on Agriculture”, 15-18 Feb., Opatia, Croatia
- 2006 – International Symposium “Proceedings of the 22nd International Eucarpia Symposium, Section Ornamentals, “Breeding for Beauty”, Sanremo, Italy, 15-19 Sept.
- 2008 – International Symposium, “First Symposium on Horticulture in Europe, Vienna, Austria, 17-20 Feb.
- 2008 – The 18th Congress General EUCARPIA “Modern Variety Breeding for Present and Future Needs”, 9-12 Sept. 2008, Valencia, Spain.
- 2010 - The 28th International Horticultural Congress, 22-27 August, Lisbon, Portugal.
- 2012 - 3rd Scientific Conference “New findings in organic farming research and their possible use for Central and Eastern Europe” Prague, Czech Republic, November 14 - 15, 2011 Prague.
- 2014 – U- multirank 25 June 2014, Brussels.
- 2017 – SME Organics, 5-9 feb. 2017, Bari, Italia – stakeholder USAMV Cluj-Napoca

## Teaching mobility

- 2004 – The Royal Veterinary and Agricultural Sciences (KVL) Copenhagen, Denmark, TA Erasmus, 21-26 sept. 2004.
- 2005 – Institute National D`Horticulture, Angers, France, TA Erasmus, 3-10 July.
- 2005 – University of Nottingham, England, TA Erasmus, 21 – 25 July 2005.
- 2005 – Writtle College, Chelmsford, England, TA Erasmus, 2005.
- 2007 – University of Copenhagen, Faculty of Life Sciences, Danemark, 15-20 sept., TA Erasmus.
- 2008 – Universitat Politècnica de València, Spain, 9-12 Sept., TA Erasmus
- 2009 – Università Cattolica del Sacro Cuore – Istituto di Frutti-Viticultura, Faculta' di Agraria Piacenza”, Italy, Lifelong Learning Erasmus program, IP, 16 Feb. – 6 March.
- 2009 – Universitat Politècnica de València, 2-9 July, TA Erasmus, Spain.
- 2010 – Akdeniz University – Antalya Turkey, 19-26 Sept. 2010, TA Erasmus
- 2011 – Akdeniz University – Antalya Turkey, 16-23 Sept. 2011, TA Erasmus
- 2012 - Polytechnic University of Madrid, Spain, 11 – 15 June 2012, TA Erasmus
- 2014 – Universitat Politècnica de València, Spain, 10-15 April , TA Erasmus
- 2018 – Agricultural University of Athens, Greece, 4 – 7 June 2018, TA Erasmus
- 2019 - Universitat Politècnica de València, Spain, 26 February - 02 March, TA Erasmus

**Organizational/  
managerial  
skills**

- Vice-dean of research Faculty of Horticulture 2016 up to now;
- Coordinator for the Master program: Genetic Engineering in Plant Breeding;
- Responsible for the ERASMUS program of the Faculty of Horticulture;
- Responsible for the Quality Assurance of the Faculty of Horticulture;
- Academic Advisor for the Department of Horticulture and Landscape;
- Member of the Senate of UASVM Cluj-Napoca;
- Coordinator the Newsletter of UASVM Cluj-Napoca;
- Organizing the „European Biotechnology Days 9-11 Oct. 2014;

Cluj-Napoca  
27.02.2024

Prof.habil. Dr. Mirela Irina CORDEA