

CĂLINESCU Mirela Florina



Alexandru Golescu street, no. 63, 117719, Ștefănești, Argeș, Romania

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WORK EXPERIENCE

<p>2022-present</p>	<p>Head of department – Scientific researcher II degree Research Institute for Fruit Growing, Pitesti, Romania (RIFG Pitesti), Orchard Technologies – Phytosanitary Protection Laboratory, Mărului Street, no. 402, Mărăcineni, Argeș, code 117450, https://icdp.ro/</p> <ul style="list-style-type: none"> ▪ Coordination of research-development activity; ▪ Setting-up experimental fields, demonstrative plots; ▪ Organizing scientific events (scientific sessions, workshops) and other technological transfer actions; ▪ Project management/technical-scientific and economic-financial coordination of research projects; ▪ Testing the biological efficacy of new plant protection and nutritional products; ▪ Bio-ecological study, symptomatology and measures to prevent the attack of new pathogens in small fruit, strawberry and fruit orchards; ▪ The behavior of the new genotypes of fruit orchard, small fruit and strawberry to specific pathogens; ▪ Ecological technological sequences for pathogens prevention and control in small fruit, strawberry and fruit orchard; ▪ Coordination of national and international projects; ▪ Participation in conferences and publication of results in national and international specialized journals.
<p>2017-2022</p>	<p>Scientific researcher II degree Research Institute for Fruit Growing, Pitesti, Romania (RIFG Pitești), Orchard Technologies – Phytosanitary Protection Laboratory, Mărului Street, no. 402, Mărăcineni, Argeș, code 117450, https://icdp.ro/</p> <ul style="list-style-type: none"> ▪ Bio-ecological study, symptomatology and measures to prevent the attack of new pathogens in small fruit, strawberry and fruit orchards; ▪ The behavior of the new genotypes of fruit orchard, small fruit and strawberry to specific pathogens; ▪ Testing the biological efficacy of new plant protection and nutritional products; ▪ Ecological technological sequences for pathogens prevention and control in small fruit, strawberry and fruit orchard; ▪ Organization of scientific events (scientific sessions, workshops) and other technological transfer actions; ▪ Coordination of national and international projects; ▪ Participation in conferences and publication of results in national and international specialized journals.
<p>2010-2017</p>	<p>Scientific researcher III degree Research Institute for Fruit Growing, Pitesti, Romania (RIFG Pitești), Orchard Technologies – Phytosanitary Protection Laboratory, Mărului Street, no. 402, Mărăcineni, Argeș, code 117450, https://icdp.ro/</p> <ul style="list-style-type: none"> ▪ Bio-ecological study, symptomatology and measures to prevent the attack of new pathogens in small fruit, strawberry and fruit orchards; ▪ The behavior of the new genotypes of fruit orchard, small fruit and strawberry to specific pathogens; ▪ Testing the biological efficacy of new plant protection and nutritional products; ▪ Ecological technological sequences for pathogens prevention and control in small fruit, strawberry and fruit orchard; ▪ Coordination of national and international projects; ▪ Participation in conferences and publication of results in national and international specialized journals.
<p>2008-2010</p>	<p>Scientific researcher Research Institute for Fruit Growing, Pitesti, Romania (RIFG Pitești), Orchard Technologies – Phytosanitary Protection Laboratory, Mărului Street, no. 402, Mărăcineni, Argeș, code 117450, https://icdp.ro/</p>

	<ul style="list-style-type: none"> ▪ Bio-ecological study, symptomatology and measures to prevent the attack of new pathogens in small fruit, strawberry and fruit orchards; ▪ The behavior of the new genotypes of fruit orchard, small fruit and strawberry to specific pathogens; ▪ Testing the biological efficacy of new plant protection and nutritional products; ▪ Ecological technological sequences for pathogens prevention and control in small fruit, strawberry and fruit orchard; ▪ Coordination of national and international projects; ▪ Participation in conferences and publication of results in national and international specialized journals.
2007-2008	Scientific researcher Research Institute for Fruit Growing, Pitesti, Romania (RIFG Pitești), Virology and Tissue Culture Laboratory, Mărului Street, no. 402, Mărăcineni, Argeș, code 117450, https://icdp.ro/ <ul style="list-style-type: none"> ▪ Study of viral pathogens of fruit trees by using biological, serological and molecular methods (ELISA, PCR); ▪ Micropropagation of stone fruit species and some ornamental plants; ▪ Coordination of national and international projects; ▪ Participation in conferences and publication of results in national and international specialized journals.
2004-2007	Scientific researcher assistant Research Institute for Fruit Growing, Pitesti, Romania (RIFG Pitești), Virology and Tissue Culture Laboratory, Mărului Street, no. 402, Mărăcineni, Argeș, code 117450, https://icdp.ro/ <ul style="list-style-type: none"> ▪ The study of viral pathogens of fruit trees by using biological, serological and molecular methods (ELISA, PCR); ▪ Micropropagation of stone fruit species and some ornamental plants; ▪ Coordination of national and international projects; ▪ Participation in conferences and publication of results in national and international specialized journals.

EDUCAȚIE ȘI FORMARE

2005-2010	PhD in Horticulture Craiova University, Horticulture Faculty, A. I. Cuza street, no.13, Craiova, Dolj, Romania https://horticultura.ucv.ro/horticultura/
1996-2001	Agriculture engineer OVIDIUS University Constanța, Natural Sciences Faculty, Agriculture Specialization, Mamaia street, no. 124, University Alley no.1, Constanța, Romania, https://www.univ-ovidius.ro/

PERSONAL SKILLS

Romanian					
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B2
	Scrieți denumirea certificatului. Scrieți nivelul, dacă îl cunoașteți.				
Russian	A1	A1	A1	A1	A1
	Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user Common European Framework of Reference for Languages				

Communication skills: Good communication skills; skills to coordinate research-development activity; skills to organize different national and international symposium, team spirit, work capacity, adaptability for different activities.

Digital competence	UNDERSTANDING				SELF-ASSESSMENT		SPEAKING		WRITING
	Information processing	Listening	Communication	Reading	Content creation	Spoken interaction	Spoken production	Problem solving	
	C1		C1		B2		B2	B2	
	Proficient user		Proficient user		Proficient user		Proficient user	Proficient user	

Levels: Basic user - Independent user - Proficient user

Digital competences-Self-Assessment grid

European Computer Driving License, ECDL

- good command of office suite (word processor, spread sheet, presentation software)
- good command of photo editing software gained as an amateur photographer
- users for different software: ARM, IBM SPSS Statistics
- ICT Training Module: Use of ARM 7.5 program in the field of pesticide biological efficacy assessment, Syngenta, Romania, March 25 2011.
- ICT Training Module: Use of Field Pro program in the field of pesticide biological efficacy assessment, DuPont Romania, Bucharest, September 24 2009;

Other skills and abilities

- Member of Commission for Coordination of Research and Promotion of Plant Protection Products ASAS, Bucharest;
- Member of the Romanian Society of Horticulture (SRH);
- Member of the International Society for Horticultural Sciences (ISHS);
- Pedagogy and pedagogical practice course - University OVIDIUS Constanta

**Additional
Information
Publications
(selective list):**

1. Baroi, A.M., Ungureanu, C., **Calinescu, M.F.**, Vizitiu, D., Sardaescu, I.-D., Ortan, A., Fierascu, R.C., Fierascu, I., 2023. Chapter 7 - Role and application of nanosensors in crop protection for disease identification, în „Nanoformulations for Sustainable Agriculture and Environmental Risk Mitigation”, Ed. CABI, ed. Anca Sutan, ISBN: 978-180062308-8, 978-180062307-1, DOI: 10.1079/9781800623095.0007, Role and Application of Nanosensors in Crop Protection for Disease Identification | Nanoformulations for Sustainable Agriculture and Environmental Risk Mitigation (cabidigitallibrary.org); 118-141. 2023
2. **Călinescu Mirela Florina**, Chițu Emil, Mazilu Ivona Cristina, Lungu Mihaela, Zsolt Jakab-Ilyefalvi, Comeanu Margareta, Sirbu Sorina, Plăiașu Florin, Chivu Mihai, Panea Teodora (2022). Ghid tehnico-economic privind tehnologiile inovative de fertirigare a plantațiilor pomicele de cireș și măr, adaptate condițiilor pedo-climatice ale României. Ed. INVEL Multimedia, ISBN: 978-606-764-075-5, 168 p., 2022.
3. **Mirela Florina Călinescu**, Ivona Cristina Mazilu, (2021). Chapter 10. - The most common apple tree diseases and how to prevent them, in "Development of plant extracts and innovative phytosynthesized nanostructures mixtures with phytotherapeutic applications, in order to reduce biocenotic stress in horticultural crops", ISBN: 978-619-91466-2-0, Ed. - Ruse Press, 203-222, 2021.
4. **M. F. Calinescu**, I. C. Mazilu, E. Chitu, F. Plaiasu, M. Chivu, (2023). Evaluation of some cherry cultivars grafted on 'Gisela 5' rootstock grown in the hilly area of the South of Romania. V Balkan Symposium on Fruit Growing, Zagreb, Croatia, sub egida ISHS - International Society for Horticultural Science, Acta Horticulturae, in press.
5. Pandelea, G., **Călinescu, M.F.***, Mazilu, I.C., Ștefan, D.S., Ungureanu, C*. (2023). Enhancing Red Currant Berry Quality through Fertilization Using Compost from Municipal Sludge and from Vegetal Waste (2023) Agronomy, 13 (5), art. no. 1363, <https://doi.org/10.3390/agronomy13051363>.
6. **Calinescu, M.F.**, Mazilu, I.C*., Chitu, E., Chivu, M. și Plaiasu, F. (2022). Organic fertilization influence on growth and fruiting processes of three apple cultivars grown in the Maracineni-Arges area. Current Trends in Natural Sciences, Vol. 11, Issue 21, pp. 67-78, 2022. <https://doi.org/10.47068/ctns.2022.v11i21.007>
7. **Călinescu, M.**, Mazilu, I.*., Chițu, E., Plăiașu, F., Chivu, M., Lungu, M. și Panea, T. (2022). Influence of leaf and radicular fertilization on apple growth and fruiting processes. Fruit Growing Research, Vol. XXXVIII, 2022 <https://publications.icdp.ro>.
8. Enescu (Mazilu) I., **Călinescu M.***, Chitu E., Butac M., Sturzeanu M. și Sumedrea M. (2021). Influence of cultivar and fertilization with vermicompost on fruit quality and yield in *Lonicera* spp. Current Trends in Natural Sciences, Vol. 10, Issue 19, pp. 72-79, 2021 <https://doi.org/10.47068/ctns.2021.v10i19.009>.
9. Pandelea (Voicu), G., **Calinescu, M.F.**, Enescu (Mazilu), I.C. și Ștefan, D.S. (2021). The influence of some composts on the growth and fruiting processes in the species *Aronia melanocarpa* (michx.) Elliot, U.P.B. Sci. Bull., Series B, Vol. 83, Iss. 1, pp. 101-112, 2021 ISSN 1454-2331.
10. **Calinescu M.**, Mazilu I*., Chitu E., Butac M., Chivu M., Plaiasu F. și Antonescu M. (2021). Studiu privind influența portaltoilor de vigoare redusă asupra proceselor de creștere și fructificare la soiul de cireș 'Regina' în condițiile pedoclimatice din sudul României. Fruit Growing Research, Vol. XXXVII, 2021 <https://publications.icdp.ro>
11. **Călinescu M.**, Enescu (Mazilu) I.C.*, Chițu, E., Butac, M., Sumedrea, M. și Bălăuță, L., (2020). The effect of ecological fertilization on growth and yield of *Aronia melanocarpa* (Michx.) Elliot, 'Melrom' Romanian cultivar. Fruit Growing Research, Vol. XXXVI, <http://publications.icdp.ro/publicatii/lucrari%202019/II.07.%20Calinescu%20Mirela.pdf>
12. **Călinescu M.**, C. Ungureanu, C. Soare, R.C. Fierăscu, I. Fierăscu, F.C. Marin (2020). Green matrix solution for growth inhibition of *Venturia inaequalis* and *Podosphaera leucotricha*. Acta Hort. 1289: IV Balkan Symposium on Fruit Growing, 61-66. <https://doi.org/10.17660/ActaHortic.2020.1289.9>
13. **Mirela Călinescu**, Camelia Ungureanu, Marin Florin Cristian, Mădălina Militaru, Cristina Soare, Radu Claudiu Fierăscu, Irina Fierăscu, (2019). Antifungal activities of vegetal extract obtained from *Dryopteris filix-mas* (L.) fern, Fruit Growing Research, Vol. XXV, <http://publications.icdp.ro/publicatii/lucrari%202019/II.07.%20Calinescu%20Mirela.pdf>
14. Cîrstea Georgiana, **Călinescu Mirela**, Ducu Cătălin, Moga Sorin, Mihăescu Cristina, Sumedrea Dorin, Ungureanu Camelia, Butac Mădălina, Vălu Mihai-Vlad, (2019). Bioformulations of plant protection products to control *Podosphaera leucotricha* and *Venturia inaequalis* phytopathogens, Fruit Growing Research, Vol. XXV, <https://publications.icdp.ro>

Additional Information
Research projects:

58 national research projects and 10 international projects, as a team member, 7 of which as project director and 2 as responsible for the project.

Director/Responsible of the project:

- Sectoral Project of the Ministry of Agriculture and Rural Development - Romania: ADER 6.3.23/2023-2026. The use of energy autonomous systems for the digitization of certain technological sequences specific to precision fruit growing. <https://www.madr.ro/ps-2023-2026-ader-2026/ader-6-2023-2026/ader-6-3-23.html>

- Project 4433/2018-2022 ASAS 2- The Academy of Agricultural and Forestry Sciences. New orchard technologies with a favorable impact on the environment and rural development. <https://icdp.ro/cercetare/proiecte-nationale/plan-tematic-asas/asas-2/informatii-utile/>

- Sectoral Project of the Ministry of Agriculture and Rural Development - Romania: ADER 7.3.12/2019-2022. Research on early multi-sensor diagnosis of nutritional stress, in order to optimize fertigation methods in fruit growing. <https://www.madr.ro/ader-2019-2022/ader-7-2019-2022/ader-7312.html>

- PNCDI III- MCI - 12 PCCDI/2017-2020 - Executive Unit for the Financing of Higher Education, Research, Development and Innovation (UEFISCDI). Increasing the institutional capacity for research - development - innovation in the field of organic fruit growing. Responsible for the project 3. <https://12pccdi2018ecotehnopom.icdp.ro/>

- PNCDI III-MCI – 6 PCCDI/2017-2020 - Executive Unit for the Financing of Higher Education, Research, Development and Innovation (UEFISCDI). Increasing the institutional capacity of bioeconomic research for the innovative exploitation of indigenous plant resources, in order to obtain horticultural products with high added value. Responsible for the project 3. RON. <http://www.biohortinov.ro/>

- PN-III-P2-2.1-CI-2017-0778/2017-2018 - Executive Unit for the Financing of Higher Education, Research, Development and Innovation (UEFISCDI). Increasing the added value by implementing the ecological technology of nutrition and phytoprotection for blueberry species. <https://icdp.ro/cercetare/proiecte-nationale/proiect-ci-139/informatii-utile>

- PN-II-IN-CI-2013-1-0085/2013-2014 - Executive Unit for the Financing of Higher Education, Research, Development and Innovation (UEFISCDI). Implementation in the private sector of technologies for integrated control of diseases and pests in stone fruit species. <https://icdp.ro/cercetare/proiecte-nationale/proiect-212ci/informatii-utile/>

Patents:

- Co-author Patent **OSIM nr. 127519 (2013)**. "Procedure for obtaining black charcoal by carbonisation of plant debris and its management in orchards". Dorin Ioan Sumedrea, Emil Chițu, Sumedrea Mihaela, Nicolae Tănăsescu, Cristian Marin Florin, Chițu Viorica, Nicola Claudia, **Călinescu Mirela**.

- Co-author Patent OSIM 134424 (2024). "Process for obtaining a composition with an antifungal effect for combating phytopathogenic strains that affect apple crops". Cristina Liliana Soare, Irina Fierăscu, Radu Claudiu Fierăscu, Camelia Ungureanu, **Mirela Florina Călinescu**, Codruța Mihaela Dobrescu, Anca Nicoleta Șuțan

Co-author of 3 fruit cultivars patent ISTIS:

- Fruit cultivar patent ISTIS no. 4330/23.06.2021, RUMINA – apple cultivar, Isac Ilarie, Voica Gheorghe, Militaru Mădălina, **Călinescu Mirela**.

- Fruit cultivar patent ISTIS no. 9728/24.10.2019, IREAL – strawberry cultivar, Sturzeanu Monica, Coman Mihail, **Călinescu Mirela**, Nicola Claudia.

- Fruit cultivar patent ISTIS no. 7072/29.08.2018, SAROM – strawberry cultivar, Sturzeanu Monica, Dumitrică Irina, **Călinescu Mirela**, Isac Valentina.

Date,
July 2024

Signature,