



IOSUD - UNIVERSITATEA „DUNĂREA DE JOS” DIN GALAȚI

Memoriul științific al studentului doctorand

MEMORIU ȘTIINȚIFIC

Drd. Marcu (Lungu) Emanuela

Studii de doctorat

Perioada: 2021 - 2025

Conducător științific: Prof.dr. ec. habil. Maria-Magdalena TUREK-RAHOVEANU

Domeniul de doctorat: **Inginerie și Management în Agricultură și Dezvoltare Rurală**

Titlul tezei de doctorat: **Optimizarea tehnică a culturii de grâu prin zonarea și aclimatizarea soiurilor și hibrizilor în județul Brăila**

Activitate științifică

A. Lista de lucrări științifice (articole în reviste sau volume)

• Anul 2022

1. Emanuela LUNGU, Maria-Magdalena Turek-Rahoveanu- The Effects of The Influence of Climatic Factors on The Average Yields of Wheat Varieties:An Evaluation in The Brăila Experimental Field, Romania. Rahoveanu **IBIMA Publishing Communications of International Proceedings, Vol. 2022 (9), Article ID 4049222 -BDI**

<https://ibimapublishing.com/p-articles/40AGRI/2022/4049222>

2. Luxița RÎȘNOVEANU, Daniela OPREA, Alin Ionel GHIORGHE, Daniela TRIFAN, **Emanuela LUNGU**, Marian BRĂILĂ - Biodiversity and adaptability of some agricultural plants used as technological elements in the practice of the dry-farming work system in Southeast area of Romania. Scientific Papers. Series A. Agronomy, Vol. LXV, No. 1, 2022,pag. 514-519. ISSN 2285-5785; ISSN CD-ROM 2285-5793; ISSN Online 2285-5807; ISSN-L 2285-5785. WOS:000861074500075 **Journal Impact Factor ISI- 1.45**

https://agronomyjournal.usamv.ro/pdf/2022/issue_1/Art75.pdf

• Anul 2023

1.Emanuela LUNGU, Maria-Magdalena TUREK-RAHOVEANU - Research on agroecological zoning for winter wheat (Triticum Aestivum L.) in South-Eastern Romania. Scientific Papers Series Management, Economic Engineering in Agriculture and Rural Development Vol. 23, Issue 1, 2023 Print ISSN 2284-7995, pp.363-372, WOS:000989840300040 **Journal Impact Factor ISI- 1.45**

<https://managementjournal.usamv.ro/index.php/scientific-papers/3182-elements-of-productivity-and-production-quality-in-peppers-in-relation-to-the-variety-and-applied-fertilization>

2.Emanuela LUNGU, Ionut RACZ, Daniel George SERBAN, Daniela TRIFAN, Ionel Alin GHIORGHE, Maria Magdalena TUREK RAHOVEANU - Grain yield and quality

performances of different breeding cultivars under different seeding rate. 41st IBIMA Economics, Finance, and Accounting Conference 26- 27 June 2023 Virtual Conference Granada Spain. **IBIMA Publishing Communications of International Proceedings, Vol. 2023 (2), Article ID 4122823 -BDI**

<https://ibimapublishing.com/p-articles>
<https://ibima.org/accepted-paper/grain-yield-and-quality-performances-of-different-breeding-cultivars-under-different-seeding-rate/>

3. Daniel George SERBAN, **Emanuela LUNGU**, Maria Magdalena TUREK RAHOVEANU - Research on Digitization in Agricultural Farms from Romania. 41st IBIMA Information System Management Conference 26- 27 June 2023 Virtual Conference Granada Spain. **Publishing Communications of International Proceedings, Vol. 2023 (5), Article ID 4120323 -BDI**

<https://ibima.org/accepted-paper/research-on-digitization-in-agricultural-farms-from-Romania/>

• **Anul 2024**

1. **EMANUELA LUNGU**, ȘERBAN FLORINA-LOREDANA, TRIFAN DANIELA, GHIORGHE ALIN, MOCANU FLORIN, ȘERBAN DANIEL-GEORGE, TUREK-RAHOVEANU MARIA MAGDALENA - Sustainability of wheat crops in the context of climate change. [Special Issue - International Conference On Trends & Innovations In Management, Engineering, Sciences And Humanities \(January 2024\)](#) **IMPACT FACTOR - 9.907**
<https://doi.org/10.37082/IJIRMP.S.ICTIMESH-23.11>

2. Florina Loredana SERBAN, **Emanuela LUNGU**, Daniel-George SERBAN, Maria Magdalena TUREK RAHOVEANU. Effects and Contributions of Agri-Environmental and Measures to the Development of Rural Areas in Romania. International Conference on Interdisciplinary **International Peer Reviewed Open Access Journal ISSN 2581 – 7175 DOI Studies in Education, Research and Technology 2024 (ISERT-2024)**
([10.5281/zenodo.14677358](https://doi.org/10.5281/zenodo.14677358) <https://ijsred.com/isert-2024-issues.html> - **BDI**

3. Daniel-George SERBAN, **Emanuela LUNGU**, Florina Loredana SERBAN, Maria Magdalena TUREK RAHOVEANU. Smart Farming Technologies Existent in SE of Romania. International Conference on Interdisciplinary Studies in Education, Research and Technology 2024 (ISERT-2024) **International Peer Reviewed Open Access Journal DOI :10.5281/zenodo.14677329 -BDI**
<https://ijsred.com/isert-2024-issues.html>

4. Alin-Ionel Ghiorghe, Cioromele Gabriela Alina, Daniela Trifan, Nicoleta Axinti, Luxița Rîșnoveanu, Marian Brăilă, **Emanuela Lungu**- Comparative analysis of various winter wheat varieties cultivated under the climatic conditions of A.R.D.S. Brăila. Scientific Papers. Series A. Agronomy, Vol. LXVII, No. 2, 2024, WOS:001369756100032 **Journal Impact Factor ISI- 1.45** https://agronomyjournal.usamv.ro/pdf/2024/issue_2/Art32.pdf

5. **Emanuela MARCU**, Ionel Alin Ghiorghe, Daniel ȘERBAN, Gabriela Alina CIOROMELE, Maria Magdalena TUREK RAHOVEANU- Efficiency of maize and sunflower crops under

the impact of drought in Braila county, Romania. Scientific Papers Series Management, Economic Engineering in Agriculture and Rural Development. Vol. 24, Issue 4, 2024, WOS:001437484400009 **Journal Impact Factor ISI- 1.45**

https://managementjournal.usamv.ro/pdf/vol.24_4/Art57.pdf

6. Daniela TRIFAN, **Emanuela LUNGU**, Alin Ionel GHIORGHE, Daniel George SERBAN- The importance of agroforestry curtains for anti-erosion protection and increasing the productivity of agricultural crops. Scientific Papers. Series A. Agronomy, Vol. LXVII, No. 1, 2024. WOS:001305979800115 **Journal Impact Factor ISI- 1.45**

https://www.agronomyjournal.usamv.ro/pdf/2024/issue_1/Art117.pdf

7. Daniela TRIFAN, Alin Ionel GHIORGHE, **Emanuela LUNGU**, Daniel George SERBAN, Vlad MIHAILA- Methods of remediation of saline soils in long-term experiences and through rice cultivation at ARDS Braila. Scientific Papers. Series A. Agronomy, Vol. LXVII, No. 2, 2024, pp.94-99, WOS:001369756100011, ISSN 2285-5785 **Journal Impact Factor ISI- 1.45** https://agronomyjournal.usamv.ro/pdf/2024/issue_2/Art111.pdf

8. Daniel-George ȘERBAN, **Emanuela LUNGU**, Florina Loredana ȘERBAN, Maria Magdalena TUREK RAHOVEANU- Digital Transformation in Romania's Agriculture in The Period 2023-2027. Scientific Papers Series Management, Economic Engineering in Agriculture and Rural Development Vol. 24, Issue 4, 2024, WOS:001437484400030. **Journal Impact Factor ISI- 1.45** https://managementjournal.usamv.ro/pdf/vol.24_4/Art79.pdf

Anul 2025

1. **Emanuela LUNGU**, Trifan Daniela, Mocanu Florin, Daniel George Șerban, Florina Loredana Șerban, Maria Magdalena Turek-Rahoveanu- Dissemination of the research results obtained with a view to the zoning and acclimatization of wheat varieties and hybrids in Romania. International Journal of Scientific Research and Engineering Development (IJSRED). International Conference On "Management, Engineering, Sciences and Humanities", Bangkok, Thailanda, (MESH - 2025) <https://zenodo.org/records/15378416>
2. Daniel George Șerban, **Emanuela LUNGU**, Trifan Daniela, Florina Loredana Șerban, Maria Magdalena Turek-Rahoveanu. Digitalisation of Agriculture in Romania Potential, Challenges and Copmarative Analysis. International Journal of Scientific Research and Engineering Development (IJSRED). International Conference On "Management, Engineering, Sciences and Humanities", Bangkok, Thailanda, (MESH - 2025) <https://zenodo.org/records/15378312>
3. Florina Loredana Șerban, Daniel George Șerban, **Emanuela LUNGU**, Trifan Daniela, Maria Magdalena Turek-Rahoveanu. The Role of Agrotourism in Promoting Sustainable Development in Rural Communities. International Journal of Scientific Research and Engineering Development (IJSRED). International Conference On "Management, Engineering, Sciences and Humanities", Bangkok, Thailanda, (MESH - 2025) <https://zenodo.org/records/15378335>

B. Participări la conferințe/workshop-uri

1. **Emanuela LUNGU**, Daniela TRIFAN, Florin Dumitru BORA, Magdalena TUREK RAHOVEANU - Cercetări privind zonarea agroecologică a culturii de grâu de toamnă (*Triticum aestivum* L.) în sud-estul României. Conferința "10th edition of SCDS-UDJG – Perspectives and challenges in doctoral research" Universitatea "Dunărea de Jos" Galați 9 -10.06.2022.
2. **Emanuela LUNGU**-Participation in the virtual Conference UGAL-Scientific and cultural dialogues on 24th of October to 3rd of November 2022 organized at "Dunarea de Jos" University of Galati-IDEI (UGAL).
3. **Emanuela LUNGU**, Daniela Trifan, Florin Dumitru Bora, Maria-Magdalena Turek-Rahoveanu - Testing of cereal lines and varieties (barley, wheat, and triticale) in the pedoclimatic conditions from Braila Plain, Romania. 10th edition of SCDS-UDJG – Perspectives and challenges in doctoral research, 09-10.06.2022, poster. In curs de publicare.
4. **Emanuela LUNGU**-Pariciparea la Targul de Transfer Tehnologic Ediția a II-a, 15 noiembrie 2023 din cadrul Universitatii "Dunarea de Jos" din Galati.
5. **Emanuela LUNGU**, Daniel George SERBAN, Ionel Alin GHIORGHE, Maria Magdalena TUREK RAHOVEANU - Research on the influence of pedoclimatic factors on production and quality indices of wheat varieties tested at S.C.D.A. Braila in the 2021-2022 agricultural year. Scientific Conference Of Doctoral, Schools – SCDS –UDJ 2023. The Eleventh Edition, Galati, 8 – 9 of June 2023.
6. **Emanuela LUNGU**, Daniela TRIFAN, Daniel George SERBAN, Ionel Alin GHIORGHE, Maria Magdalena TUREK RAHOVEANU - Sustainability of wheat crops in context globalization and climate change. Scientific Conference Of Doctoral, Schools – SCDS – UDJ 2023. The Eleventh Edition, Galati, 8 – 9 of June 2023.
7. Daniel George SERBAN, **Emanuela LUNGU**, Maria Magdalena TUREK RAHOVEANU - Cercetari privind digitalizarea in fermele agricole din Romania. Scientific Conference Of Doctoral, Schools – SCDS –UDJ 2023. The Eleventh Edition, Galati, 8 – 9 of June 2023.
8. **Emanuela LUNGU**, Ionel Alin Ghiorghe, Daniel George SERBAN, Gabriela Alina CIOROMELE, Magdalena TUREK RAHOVEANU –Efficiency of agricultural crops under the impact of drought. 12th edition of SCDS-UDJG – Perspectives and challenges in doctoral research, 06-07.06.2024
9. **Emanuela LUNGU**, Daniela TRIFAN, Florin MOCANU, Ioana GORGOVAN, Daniel George ȘERBAN, Alin GHIORGHE, Vlad MIHĂILĂ, Marian BRĂILĂ, Maria Magdalena TUREK RAHOVEANU „Production and quality results of some autumn wheat genotypes in the soil and climatic conditions of the Northern Baragan Plain, Romania” - Istanbul International Multidisciplinary Conference on Economics, Business, Technology and Social Sciences – 2024, organizată de European Institute for Research and Development, în perioada 08-14 Mai 2024 , orașul Istanbul, țara Turcia.

A. Proiecte de cercetare științifică

- B. 2023-2026-ADER 20.1.1. (Contract 2011/21.07.2023) – ” Sistem de monitorizare armonizat la nivel național a sănătății solurilor afectate și/sau cu risc de degradare (exces de săruri, eroziune, compactare)” (ICDPP București), responsabil proiect;
- C. 2023-2026-ADER 1.2.2 (Contract 1.2.2./ 19.07.2023) - ”Înființarea de perdele agroforestiere și studiul influenței acestora asupra protecției antierozionale și a evapotranspirației culturilor agricole”, membru în echipă.
- D. 2023-2026-ADER 20.1.3. (contract 2013/17.07.2023) - „Măsuri și recomandări pentru reducerea riscului la salinizarea și eroziunea solului sub influența schimbărilor climatice”, membru în echipă.
- E. 2023-2026-ADER 1.3.1. (contract 131/18.07.2023) – ”Cercetări privind îmbunătățirea/ameliorarea germoplasmei de porumb pentru creșterea randamentului de utilizarea apei și nutrienților din sistemul de fertilizare”, membru în echipă.
- F. 2023-2026-ADER 2.1.1. (contract 211/17.07.2023) - ”Sistem de monitorizare cu ajutorul dronelor și alertă timpurie pentru gestionarea dăunătorilor de sol din culturile de porumb și floarea soarelui”, membru în echipă.
- G. 2023-2024- Temă de cercetare (ADER 1.1.4., contract 1389/05.04.2024) - Testarea a 25 de genotipuri de orz și orzoaică de toamna anul I INCDA Fundulea)
- H. 2023-2024- Temă de cercetare - Testarea de soiuri și linii de grâu umblător și de primăvară, în anul agricol 2024-2025 (contract SCDA Turda nr. 1460/26.07.2024), pentru proiectul ADER 1.1.2.” *Dezvoltarea lucrărilor de ameliorare și crearea de soiuri de grâu umblător și de primăvară*”, membru în echipă.
- I. 2023-2024 - Temă de cercetare - Testarea agrochimică a produsului Agrosulf granulat la culturile de orz, floarea soarelui și porumb (Contract 16/2024- ICPA București), responsabil temă.
- J. 2023-2024 - Temă de cercetare - Cercetări/testări erbicide (Contract nr.531/ 13.03.2024 – Nufarm România SRL), responsabil temă.
- K. 2023-2024 - Temă de cercetare - Experiențe/loturi demonstrative cu orz, mazăre, bob (Contract nr. 441/5.03.2024 – SC Saaten Union România SRL), responsabil temă.
- L. 2023-2024 - Temă de cercetare - Testarea in camp experimental a unor sortimente de ingrasaminte noi in vederea autorizarii pentru folosirea in agricultura din Romania (Contract 502/2016 prelungire-AA 1/2024-ICPA București), responsabil temă.

Student-doctorand

