



Curriculum vitae



Personal information

First name(s) / Surname(s) **Rusu Teodor**
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Web <http://orcid.org/0000-0002-5979-3258>
<https://publons.com/researcher/1233035/rusu-teodor>

Domains of activity

Teaching degree/ Scientific title **University Professor Ph.D, Faculty of Agriculture, USAMV Cluj-Napoca**
Coordinator of master - Rural Development, PhD supervisor

Department / Key Words Tehnical and Soil Sciences - Agrotechnics, Soil Tillage, Weed Control, Crop Rotation, Conservative Agriculture, Rural Development, Climatic Changes

Domains of competence Agrotechnics, herbology and soil management
Soil sciences – pedologic studies and land evaluation, pedoameliorations and soil erosion control studies
Technique experimentally and analysis of variance (ANOVA)
Environment economy and land management
Specialization in research – development - extension project elaboration
Rural development and climate changes

Domains of interest Rural development, soil conservation systems for a sustainable agriculture, anti-erosion systems, minimum soil tillage, no-tillage, carbon sequestration.
Integrated control of weeds and correct use of herbicides.
Weed biology and ecology, weed assessment.
Crop rotation and differentiated agrotechnics.
Laboratory field research methods for evaluation of physical, hydrophysical, agrochemical and agrobiological features of soil.

Teaching activity 2011-present: Course **Agrotechnics and Herbology** – II Agriculture
2007- present Course and Practice Laboratories - **Rural Development** – Master
2007-2012: Course and Practice Laboratories - **Environmental Economy** – III IPM
2007- present: Course and Practice Laboratories – **Sustainable Development** – Master
2005-present: Course and Practice Laboratories **Experimental Technics** – II Agriculture
2003 – 2006: Course and Practice Laboratories – **Agrotechnics and Herbology** – II IPM
1999- present: Course and Practice Laboratories – **Agrotechnics** – II Horticulture
1999- 2004, Course and Practice Laboratories – **Agrotechnics** – III Biology and Agriculture
1999-2001, Course and Practice Laboratories – **Soil Exploitation** – II MDAR
1996-2004, Practice laboratories – **Agrotechnics** - III Agriculture
Scientific coordinator for 67 graduation theses

Education and training

Education PhD. DEGREE IN AGRICULTURAL SCIENCES, 2002, University of Agricultural Sciences and Veterinary Medicine Cluj – Napoca
AGRONOMIST ENGINEER DIPLOMA, 1993, University of Agricultural Sciences and Veterinary Medicine Cluj - Napoca
HIGH SCHOOL DEGREE, 1986, Agroindustrial High School Sărmaşu, Mureş county



- Specializations and qualifications **Speciality courses:**
- **Legal Technical Expert** - authorization no.91/18.05.2010 - specialization Agriculture - Ministry of Justice.
 - **Course of Trainer** - certified G series, no. 00082425 - Cluj EPA, Ministry of Labour, Family and Social Protection.
 - **Course of Work Protection Inspector** - Certificate Series F, no. 0086156 - SC Formarom SRL Zalau.
 - **Course: Research – Development - Implementation Projects’ Management** – certificate 479/23.03.2001 – Management Agency for Scientific Research, Innovation and Technological Transfer – Polytechnics Bucharest
 - **TEACHING COURSE** - certificate B series nr. 0006189 / 15 June 1999 – University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca

Work experience

- Dates / Occupation or position held/ Name of employer
- 2014-present, Director, Office of Soil Survey and Agrochemical Cluj, www.ospacluj.ro**
2008-present, professor, USAMV Cluj, Vice –Dean Faculty of Agriculture (2008-2012)
2005- 2008, conferentiar, USAMV Cluj-Napoca
2002-2005, lecturer, USAMV Cluj-Napoca
1992-2002, assistant professor, USAMV Cluj-Napoca
1996-1999, PhD student with frequency, USAMV Cluj-Napoca
1993-1996, pedologist engineer, Pedological and Agrochemical Studies Office Cluj-N
- Professional affiliations
- 2013, membru, European Society of Soil Conservation (ESSC)
2013, membru, Italo-Latin American Society of Ethnomedicine (SILAE)
2012–present, President Br. Transylvania Romanian National Society of Soil Science (SNRSS) - <http://snrsstransilvania.usamvcluj.ro>
2010, membru, European Geosciences Union (EGU)
2004, Director: Research Center: Minimal Systems and Sustainable Agricultural Technologies – SMTAD, www.usamvcluj.ro/2006/SMDT/index.htm.
2004, member, International Union of Soil Sciences – IUSS, www.iuss.org.
2003, member, The Society for Ecological Agriculture - SAE
2000, member, ISTRO – International Soil Tillage Research Organization, www.istro.org
1997, member, National Society for Weed Study and Control – SNRCSB member European Weed Research Society (EWRS), www.ewrs.org
1994, member, Romanian National Society for Soil Sciences – SNRSS, member ISSS – International Society of Soil Science, www.iss.org
- Coordinated research contracts
- Responsible for Romania, Horizon 2020 (H2020-SFS-2014-2: Soil quality and function), Nr. Proiect: 635201 – LANDMARK: *LAND Management: Assessment, Research, Knowledge base.* 2015-2019. http://cordis.europa.eu/project/rcn/193323_en.html**
MACSUR member 1&2 - FACCE JPI Knowledge Hub: *Detailed Climate Change Risk Assessment for European Agriculture and Food Security, in Collaboration with International Projects.* 2015-2020. www.macsur.eu/index.php/about/partners
Management Committee Member, ESSEM Action ES1104 COST: *Arid Lands Restoration and Combat of Desertification.* Earth System Science and Environmental Management. 2013-2016. www.cost.eu/COST_Actions/essem/ES1104?management
Manager project PN II PCCA, PN-II-PT-PCCA-2013-4-0015, c. 175/2014-2017, UEFISCIDI: *Expert system for monitoring risks in agriculture and adaptation of the conservative agricultural technologies to climate change.* www.usamvcluj.ro/SMDT/proiecte_pn2/MODSOIL.htm
Manager project CI, UEFISCIDI (2013-2014): PN-II-IN-CI-2013-1-0007, c. 196CI/22.10.2013-2014: *Implementation of conservative farming technologies for spring crops.* Beneficiary SC Nora Ly Agroserv SRL Viişoara, Cluj.
Manager contract research, SC Pombis SA: *Implementation of no tillage technology in maize crop.* c. 4842/25.04.2013.
Manager project, IDEAS program - Exploratory Workshops PN-II-ID-WE-2012-4-092, c 85/24.09.2012: *Management of Soil, Water and Carbon - Benefits Environmental, Economic and Social.* www.usamvcluj.ro/SMDT/symposium2013/index.php



Manager project CI, UEFISCIDI (2012): PN-II-IN-CI-2012-1-0201c. 109CI/20.07.2012: *Implementation of minimum tillage technology at winter crops and optimizing soil use to SC Nora Ly Agroserv SRL in terms of cross-compliance.* Beneficiary: SC Nora Ly Agroserv SRL Viişoara, Cluj.

Manager project CI, UEFISCIDI (2012): PN-II-IN-CI-2012-0017 c. 4CI/21.05.2012: *No-tillage technology implementation and increasing adaptation of SC Pombis SRL economically, environmental and organizational.* Beneficiary: SC Pombis SA Bistrita.

Manager contract research SC Agrocons Parox SRL (2011): *Research on improving no-tillage technology to maize culture.* c. 3654/14.04.2011.

Manager project PN II Parteneriate, MECI – CNMP, (2008-2011), *Monitorization of the impact of agriculture upon global climatic changes, soil, water and carbon management, through conservative systems: minimum tillage and no-tillage, in Transylvanian Plain.* c. 52-114/1.10.2008-2011, www.usamvcluj.ro/SMDT/proiecte_pn2/MIA-SCG.htm

Manager project PNII, Parteneriate, MECI – CNMP, (2007-2010): *Alternative crops with adaptative potential for different ecological conditions and complex valorification thereof through biotechnologies.* Contract nr. 51-018/ 15.09.2007, <http://www.agro-bucuresti.ro/cabio-cyam/home.php>

Manager project CEEX, M. III, MEC-CNMP (2006-2008): *The promotion of the sustainable agricol technologies research and soil tillage conservative systems integration in the European research domain / ERA-TIL.* Project number 129/2006. c.129/1.08.2006-2008. www.usamvcluj.ro/SMDT/proi_ceex/ERA_TIL.htm

Manager project CEEX, M. I, MEC – AMCSIT (2006-2008): *Complex system to research the agricol fields degradation phenomena and the negative impact of agriculture upon the natural resources and global climatic changes / OSFOL-SICS.* Project number 124/20.07.2006-2008. www.usamvcluj.ro/SMDT/proi_ceex/OFSOL_SICS.htm

Manager project (2006): *Researches in demonstrativ plots at sunflower crop – 15 hybrid Large strip.* MONSANTO EUROPE S.A. BRUXELLES BRANCH BUCUREŞTI. Contract nr. 17/2006.

GRANT director (2004-2006): *Researches concerning the influence of minimal soil working systems on conservation of fertility, biodiversity and water reserve accumulated in soil as an eco-technologic base for sustainable agriculture.* CNCSIS – MEC, tip A. Cod CNCSIS 753/2004. www.usamvcluj.ro/SMDT/Proi_curente/proiect_curent_2.htm

GRANT director (2002-2003): *Researches concerning the influence of unconventional soil tillage systems on biological and phytosanitary conditions of soil,* CNCSIS tip AT Grant. Partner: MEN-CNCSIS, theme nr. 57, cod 147/2003, commission 5, 2002-2003. www.usamvcluj.ro/SMDT/Proi_finaliz/proiect_5.htm

Collaborator in 28 research projects

Publications - 25 books, 4 courses, 4 practice guides, 6 course supports for IDD
- 452 published scientific articles, from which 199 in national and 153 in foreign revues
- 31 communications in different national and international scientific manifestations
- 17 research reports and collaboration in 43 contract reports to beneficiary

Significant published articles

Significant published books:

1. **Rusu Teodor**, 2018. *Agrotechnics and Herbology I*. Editura AcademicPres Cluj-Napoca, p. 207.
2. **Rusu Teodor**, 2018. *Agrophytotechnical I*. Editura AcademicPres Cluj-Napoca, p. 270.
3. Szajdak L.W., **Rusu Teodor**, 2016. *Free Sulfuric Amino Acids and Rhodanese in Soils under Rye Cropping and Crop Rotation*. [In:] *Bioactive Compounds in Agricultural Soils*. Ed. Szajdak L.W. Springer International Publishing Switzerland. pp. 91-122. DOI: 10.1007/978-3-319-43107-9_4
4. Ion, V., M. Rurac, **Teodor Rusu**, A.G. Băşa, 2016, *Agricultural consultancy*. Editura Ceres Bucureşti, p. 262.
5. **Rusu Teodor**, Bogdan Ileana, Pop Adrian Ioan, 2012, *Guided by practical work at Agrotechnics*. Ed. Grinta Cluj-Napoca, p. 291.
6. **Rusu Teodor**, Moraru Paula, Cacovean Horea, 2011, *Rural Development*. Ed. Risoprint Cluj-Napoca, p. 167.
7. **Rusu Teodor**, David Weindorf, Moraru Paula, Horea Cacovean, Vasile Turcu, 2009, *Research methods of soil and plants*. Ed. Risoprint Cluj-Napoca, p. 157.
8. **Rusu Teodor**, Marinela Ghereş, 2008, *The environmental economy*. Ed. Risoprint Cluj-Napoca, p. 258.
9. **Rusu Teodor**, Imre Albert, Andrei Bodis, 2007, *The ecotechnics of field crops*. Ed. Risoprint Cluj-Napoca, p. 191.



10. **Rusu Teodor**, Laura Paulette, Horea Cacovean, Vasile Turcu, 2007, *The physics, the hydrophysics, the chemistry and the breathing of the soil - researching methods*. Ed. Risoprint Cluj-Napoca, p.188.
11. **Rusu Teodor**, Petru Guș, 2007, *Soil compaction - processes and consequences*. Ed. Risoprint, Cluj-Napoca, p. 276 (simposium).
12. **Rusu Teodor**, 2005, *Agrotechnics*. Ed. Risoprint Cluj-Napoca, p. 334.

Significant published articles:

1. Ahmad Hamidov, Katharina Helming, Gianni Bellocchi, Waldemar Bojar, Tommy Dalgaard, Bhim Bahadur Ghaley, Christian Hoffmann, Ian Holman, Annelie Holzkämper, Dominika Krzeminska, Sigrun H. Kværnø, Heikki Lehtonen, Georg Niedrist, Lillian Øygarden, Pytrik Reidsma, Pier Paolo Roggero, **Teodor Rusu**, Cristina Santos, Giovanna Seddaiu, Eva Skarbøvik, Domenico Ventrella, Jacek Źarski, Martin Schönhart, 2018. *Impacts of climate change adaptation options on soil functions: A review of European case-studies*. Land Degrad Dev., no. 29, p. 2378–2389. <https://doi.org/10.1002/ldr.3006> (**Impact factor 7.27**).
2. Ghaley, B.B.; **Rusu, T.**; Sandén, T.; Spiegel, H.; Menta, C.; Visioli, G.; O'Sullivan, L.; Gattin, I.T.; Delgado, A.; Liebig, M.A.; Vrebos, D.; Szegi, T.; Michéli, E.; Cacovean, H.; Henriksen, C.B., 2018. Assessment of Benefits of Conservation Agriculture on Soil Functions in Arable Production Systems in Europe. *Sustainability* 2018, 10(3), 794; doi:10.3390/su10030794, (**Impact factor 2.075**).
3. **Rusu, T.**, C. L. Coste, P. I. Moraru, L. W. Szajdak, A. I. Pop & B. M. Duda, 2017, *Impact of climate change on agro-climatic indicators and agricultural lands in the Transylvanian Plain between 2008-2014*. Carpathian Journal of Earth and Environmental Sciences, February 2017, Vol. 12, No. 1, p. 23-34. (**Impact factor 0.671**).
4. **Rusu, T.**, P.I. Moraru, 2015. *Impact of climate change on crop land and technological recommendations for the main crops in Transylvanian Plain, Romania*. Romanian Agricultural Research, No. 32. DII 2067-5720 RAR 2015-89 (on line), p. 1-9 (**Impact factor 0.167**).
5. Bora, F. D., C. I. Bunea, **T. Rusu**, N. Pop, 2015. *Vertical distribution and analysis of micro-, macroelements and heavy metals in the system soil-grapevine-wine in vineyard from North-West Romania*. Chemistry Central Journal, 9:19, pag. 1-13, doi: 10.1186/s13065-015-0095-2 (**Impact factor 2.19**).
6. **Rusu, T.**, 2014. *Energy efficiency and soil conservation in conventional, minimum tillage and no-tillage*. International Soil and Water Conservation Research, Vol. 2, No. 4, p. 42-49, ISSN 2095-6339. doi:10.1016/S2095-6339(15)30057-5.
7. **Rusu, T.**, I. Bogdan, P. Moraru, A. Pop, I. Oroian, D. Marin, O. Ranta, S. Stanila, M. Ghereș, M. Duda and C. Mogoșan, 2013. *Influence of minimum tillage systems on the control of Convolvulus arvensis L. on wheat, maize and soybean*. Journal of Food, Agriculture & Environment, Vol. 11, Issue 2, p. 563-566 (**Impact factor 0.435**).
8. **Rusu, T.** and I. Bogdan, 2012. *Influence of Degree Infestation with Echinochloa crus-galli Species on Crop Production in Corn*. Herbicides - Properties, Synthesis and Control of Weeds, Mohammed Naguib Abd El-Ghany Hasaneen (Ed.), cap. 24, p. 453-470, ISBN: 978-953-307-803-8, InTech, DOI: 10.5772/31475 (**Chapter book**).
9. **Rusu, T.**, P.I. Moraru and I. Rotar, 2011, *Effect of soil tillage system on soil properties and yield in some arable crops*. Journal of Food, Agriculture & Environment, Vol. 9, Issue 3&4, p. 426-429 (**Impact factor 0.517**).
10. **Rusu T.**, P. Gus, I. Bogdan, P. I. Moraru, I. A. Pop, D. Clapa, I. M. Doru, I. Oroian and L. I. Pop, 2009, *Implications of Minimum Tillage Systems on Sustainability of Agricultural Production and Soil Conservation*. Journal of Food, Agriculture & Environment, vol. 7(2), p. 335-338 (**Impact factor: 0.232**).
11. **Rusu, T.**, P. Gus, I. Bogdan, P. I. Moraru, A. Pop, D. Weindorf, H. Cacoveanu, 2008, *Effect of minimum tillage on the control of Convolvulus arvensis L.* Journal of Plant Diseases and Protection, p. 587-590, Special Issue XXI (**Impact factor: 1.32**).
12. **Rusu, T.**, P.Guș, I. Bogdan, I. Oroian, L. Paulette, 2006, *Influence of minimum tillage systems on physical and chemical properties of soil*. Journal of Food, Agriculture & Environment, vol. 4(3-4), p. 262-265 (**Impact factor: 0.232**).
13. **Rusu, T.**, P. Guș and I. Bogdan, 2006, *The influence of minimum soil tillage systems on weed density, frequency of phytopatogenous agents and crop yields of soybean, wheat, potato, rape and corn*. Journal of Food, Agriculture & Environment, vol. 4(1), p. 225-227, (**Impact factor: 0.232**).



Personal skills and competences

Mother tongue(s): Romanian

Other language(s)	Self-assessment	Understanding	Speaking	Writing
Language English		Good	Good	Good
Language French		Good	Good	Medium

Additional information

2020, 2022, Expert evaluator at Technology Agency of the Czech Republic
 Since 2005 - Expert evaluator at Romanian Council for Research - Ministry of Education and Research of Romania – MEC, CNCIS, CEEX, PN II, TE.
 PhD supervisor, since 2009. Coordinate 23 doctoral.
Editor: 4 journals; Editorial board member: 28 journals; ISI journals reviewer: 10; BDI journals reviewer: 29; citations in ISI journals: 156; citation in BDI journals: 189.

Hirsch factor (2024):

Web of Science	Scopus	Google Scholar
13	13	21

26.02. 2024, Cluj-Napoca

Prof. Dr. Rusu Teodor
 Faculty of Agriculture,
 USAMV Cluj-Napoca