


PERSONAL INFO



Rodica Vârban

 Cluj-Napoca, Romania

 rodica.varban@usamvcluj.ro,

 +40264596384/115 (office)

gender F | birthdate 31/10/1965 | nationality Romanian

WORKPLACE

- | | |
|----------------|--|
| 2022 - Present | Professor
Faculty of Agriculture
University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca
Calea Mănăştur St. No. 3-5, 400374 Cluj-Napoca, Romania |
| 2014 - 2022 | Associate Professor
Faculty of Agriculture
University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca
Calea Mănăştur St. No. 3-5, 400374 Cluj-Napoca, Romania |
| 2007 - 2014 | Lecturer
Faculty of Agriculture
University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca
Calea Mănăştur St. No. 3-5, 400374 Cluj-Napoca, Romania |
| 2002 - 2007 | Assistant professor
Faculty of Agriculture
University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca
Calea Mănăştur St. No. 3-5, 400374 Cluj-Napoca, Romania |
| 1993 - 2002 | Research Engineer
Faculty of Agriculture
University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca
Calea Mănăştur St. No. 3-5, 400374 Cluj-Napoca, Romania |

TEACHING ACTIVITY

- | | |
|----------------|--|
| 2029 – Present | Course and Practical Works: Vegetal Resources from wild flora
(1 st year Masters level – Organic Agriculture) |
| 2010 - Present | Botany Course: Plant Morphology and Anatomy
(1 st year Undergraduate level - Biology) |
| 2012 - Present | Botany Course: Botany I and II
(1 st year Undergraduate level - Agriculture, Montanology, Operation of machinery and facilities in the food industry) |
| 2012 - Present | Course and Practical Works: Medicinal plants from native flora
(1 st year Graduate level – Master in Management of natural and agritourist resources) |
| 2005 - 2009 | Botany Course: Systematic Botany
(1 st year Undergraduate level – Forestry) |
| 2005 - 2009 | Botany Course: Plant Anatomy and Morphology, Systematic Botany
(1 st year Undergraduate level – Engineering and environmental protection) |
| 2009 | Botany Course: Systematic Botany
(1 st year Undergraduate level - Agriculture, Montanology) |

March 2023



2001 - Present **Practical Works: Plant Morphology and Anatomy, Systematic Botany**
(1st year Undergraduate level – Agriculture, Montanology, Horticulture, Landscape Architecture, Biology, Engineering and environmental protection)

EDUCATION

2012 **BSc Degree: Biology**
Faculty of Agriculture
University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Romania

2003 **PhD Degree in Agronomy**
Faculty of Agriculture
University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Romania

1999 **Engineering Degree: Agronomy**
Faculty of Agriculture
University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Romania

1984 **Baccalaureate Degree**
Sanitary High School, Oradea, Romania

SPECIALIZATIONS

- Virus testing by Elisa method, Potato Research Institute, Brasov, 1996
- Internal audit course for Quality Management Systems ISO 9001: 2008 and ISO 19011: 2002 (2009)
- Course: "Improving the university staff responsible for quality assurance in order to increase the skills of evaluation of academic programs", organized by S.C. Fiatest Bucharest, May 25-29, 2011, contract POSDRU/86/1.2/S/6273
- Course "Improving the university staff responsible for quality assurance in order to increase the evaluation skills of academic programs", Iasi September 26-28, 2011, contract POSDRU/86/12/S/6273
- Course "Initiation in the creation and development of digital content", organized by S.C. Siveco Romania, contract POSDRU/86/12/S/6273
- Training and competence training course in management and technology ID-IFR, 2013, organizer: ARACIS - UBB Cluj-Napoca
- Training course for the integration in the didactic process of educational technologies for blended-learning at university level, 2013, UT Cluj-Napoca
- Project Management course, C.D.M.
- Habil., PhD supervising, Domain Agronomy, 2022

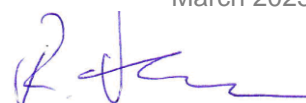
COMMITTEES

- expert evaluator for A.R.A.C.I.S. (Romanian National Council of Academic Evaluation and Accreditation of Higher Education Institutions)
- responsible for the study program Agriculture - Distance education, Faculty of Agriculture
- responsible for the Biology - day study program
- responsible for Quality Assurance Faculty of Agriculture (RACF), member of C.E.A.C.
- expert auditor in USAMV Audit Commission (CAI)
- member of the license commission - Biology specialization
- dissertation committee member - master Biology of agroecosystems
- member of the editorial team at the magazine Notulae Botanicae Horti Agrobotanici (2004-2007)
- member editor of the journal Advances in Agriculture & Botany
- member Editorial Board at International Journal of Advanced Research in Botany
- Secretary of the Bachelor's Degree Commission in Biology (2004, 2005, 2006)
- Secretary of the admission commission, Faculty of Agriculture: 2006, 2007, 2008

PROJECTS

2005 - 2007 **Project coordinator:** CNCISIS Grant, Type A, code 802: Biotechnology for the production of virus-free hop cuttings,

March 2023



- 2013 - 2014 **Project coordinator:** Contract PN-II-IN-CI-2013-1-0108: Production of planting material for the species *Arnica montana* L., financing contract no. 210 CI,
- 2021 - Present **Project coordinator:** "Diversification of the assortment of cultivated plants by introducing into culture new plant species of medicinal, food, technical and phytoremediation potential" contract no. 6816/27.04.2021
- Member** of the research team (10 research contracts: CNCIS, PN II, Sector Plan, etc.)

AFFILIATIONS

- 2006 - Present member of the "Association of Medicinal and Aromatic Plants of Southeast Europe" (AMAPSEEC)
- 2011 member of the Romanian Society for Grassland
- 2004 member of the Bioterra Bioagriculturists Association
- 2002 member of the association "Potato Growers in Romania"
- 1993 member of the association "Hop Growers in Romania"

PATENTS

- **Patent for plant varieties** no. 00161 for the "SUPERALFA" hop variety, issued by the State Office for Inventions and Trademarks 30.12.2008, authors: Leon Sorin Muntean, Solovăstru Cernea, Alexandru Salontai, Gavrilă Morar, Dan I. Vârbă, Leon Muntean, Marcel Duda, Sorin Muntean, **Rodica Vârbă**, Maria Tofană.
- **Patent for plant varieties** no. 00160 for the variety *Echinacea pallida* Nutt. entitled "Napoca", issued by the State Office for Inventions and Trademarks 30.12.2008, authors: Leon Sorin Muntean, Solovăstru Cernea, Alexandru Salontai, Gavrilă Morar, Dan I. Vârbă, Leon Muntean, Marcel Duda, Sorin Muntean, **Rodica Vârbă**, Maria Tofană
- **Patent for plant varieties** no. 00253 for the *Echinacea purpurea* L. variety entitled "Cluj", issued by the State Office for Inventions and Trademarks 30.05.2011, authors: Leon Sorin Muntean, Tamas Mircea, Dan I. Vârbă, Muntean Leon, Muntean Sorin, Solovăstru Cernea, Gavrilă Morar, Marcel Duda, **Rodica Vârbă**, Oniga Iliora.

AWARDS

March 2023



- Diploma of Excellence and Gold Medal for 2013, ARDEAL variety, Exhibition of Scientific Research, Innovation and Invention PRO INVENT, 11th edition, Cluj-Napoca
- Diploma of Excellence and Gold Medal 2013, for the CLUJ variety, International Invention Show Pro Invent 11th edition Cluj-Napoca
- Diploma of Excellence and Gold Medal 2013, for the NAPOCA variety, Exhibition of Scientific Research, Innovation and Invention PRO INVENT, 11th edition Cluj-Napoca
- Diploma of excellence and gold medal, 2012 for the CLUJ variety, Exhibition of Scientific Research, Innovation and Invention PRO INVENT 10th edition, Cluj-Napoca
- Diploma of Excellence and Gold Medal 2012, for the NAPOCA variety, Exhibition of Scientific Research, Innovation and Invention PRO INVENT, 10th edition, Cluj-Napoca
- Gold medal, 14th International Inventica Symposium 2010, Iasi, for the Napoca variety, *Echinacea pallida* Nutt
- Diploma of Excellence and Silver Medal, Exhibition of Scientific Research, Innovation and Invention PRO INVENT, 7th edition 2009 Cluj-Napoca, for Napoca and Superalfa variety patents
- Diploma of Excellence and Gold Medal, Exhibition of Scientific Research, Innovation and Invention PRO INVENT, 6th edition 2008 Cluj-Napoca, for the hop variety Superalfa de Cluj and Echinacea variety Napoca
- Diploma of Excellence and Gold Medal, Exhibition of Scientific Research, Innovation and Invention PRO INVENT, 5th edition 2007 Cluj-Napoca, for the Napoca variety of *Echinacea pallida* Nutt
- Diploma "Professor Bologna" - 2012 awarded by the National Association of Romanian Student Organizations (ANOSR)

EXPERTISE

- plant anatomy and morphology
- aromatic and medicinal plants
- crop science and technology
- plant phenology and physiology
- plant ecology and vegetation studies
- education and educational management

INTERESTS

- novel approaches in breeding, cultivation and utilization of aromatic, medicinal plants and hop
- pharmaco-botanical and morphological studies of some medicinal plants
- vegetation studies of native Romanian flora

COMPETENCES

Languages: English B2-C1, Romanian native

PC: Microsoft Office, Polifact

Personal abilities: communication, coordination and team work

SUMMARY

papers: **101** published papers


books: **17**

patents: **3**

REPRESENTATIVE WORKS (SELECTION)

PAPERS

March 2023



1. Ioana Crișan, Andreea Ona, Dan Vârban, Leon Muntean, **Rodica Vârban**, Andrei Stoie, Tania Mihăiescu, Adriana Morea, 2023, Current Trends for Lavender (*Lavandula angustifolia* Mill.) Crops and Products with Emphasis on Essential Oil Quality, *Plants*, 2023, 12, 357, F.I. 4,658
<https://www.mdpi.com/2223-7747/12/2/357>
2. **Rodica Varban**, Ioana CRIȘAN, Dan VÂRBAN, Crina MUREȘAN, Alexandru GHEȚE, Andrei STOIE, Andreea ONA, 2022, Cultivation potential of chia (*Salvia hispanica* L.) in Cluj county, *AgroLife Scientific Journal* (ISI proceeding)
3. Dan Vârban, Marius Zăhan, Carmen Rodica Pop, Sonia Socaci, Răzvan Stefan, Ioana Crisan*, Loredana Elena Bota, Ileana Miclea, Adriana Sebastiana Muscă, Alexandru Marius Deac and **Rodica Vârban***, 2022, Physicochemical Characterization and Prospecting Biological Activity of Some Authentic Transylvanian Essential Oils: Lavender, Sage and Basil, *Metabolites* 2022, 12(10), 962; F.I 5.581, <https://doi.org/10.3390/metabo12100962>
4. Coroian, M.; Pop, L.M.; Popa, V.; Friss, Z.; Oprea, O.; Kalmár, Z.; Pinte, A.; Borșan, S.-D.; Mircean, V.; Lobonțiu, I.; Militaru, D.; **Vârban, R.**; Györke, A. Efficacy of *Artemisia annua* against Coccidiosis in Broiler Chickens: A Field Trial. *F.I 4,926 Microorganisms* 2022, 10, 2277. doi: [10.3390/microorganisms10112277](https://doi.org/10.3390/microorganisms10112277)
5. Rodica Vârban, Daniela Benedec, Sonia Socaci, Daniela Hanganu, Dan Vârban, Carmen Pop, Mirela Mărginean, Iliora Oniga, 2022, The chemical composition and the antibacterial activity of essential oils obtained from three varieties of *Mentha x piperita* f. citrata, *FARMACIA*, 2022, Vol. 70, 3, F.I. 1.55 DOI 10.31925/farmacia.2022.3.9 <https://farmaciajournal.com/wp-content/uploads/art-09-Varban-Benedec-Oniga-440-446.pdf>
6. **Rodica Vârban**, Vidican, R., Ona, A. D., Vârban, D., Stoie, A., Gâdea Stefania, Vâtcă, S., Stoian, V., Crișan, I., & Stoian, V., 2022, Modelling plant morphometric parameters as predictors for successful cultivation of some medicinal Agastache species. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, 50(1), F.I 1.249, DOI10.15835/nbha50112638
7. **Rodica Vârban**, Vârban Dan, Crișan Ioana, 2021, Leaf micromorphology of jute (*Corchorus olitorius* L.) in conditions from Cluj County. *Scientific Papers. Series B, Horticulture* 65(2): 308-314.
<http://horticulturejournal.usamv.ro/index.php/scientific-papers/current-issue?id=1074>
9. **Rodica Vârban**, Ona Andreea, Stoie Andrei, Vârban Dan, Crișan Ioana, 2021, Phenological Assessment for Agronomic Suitability of Some Agastache Species Based on Standardized BBCH Scale. *Agronomy* 11(11): 2280 [FI=3.417]. <https://www.mdpi.com/2073-4395/11/11/2280>
10. **Rodica Vârban**, Crișan Ioana, Vârban Dan, Ona Andreea, Olar Loredana, Stoie Andrei, Ștefan Răzvan, 2021, Comparative FT-IR Prospecting for Cellulose in Stems of Some Fiber Plants: Flax, Velvet Leaf, Hemp and Jute. *Applied Sciences* 11(18): 8570 [FI=2.838]. <https://www.mdpi.com/2076-3417/11/18/8570>
11. Victoria Pop Moldovan, Rodica Vârban*, Larisa Corcoz, Anca Pleșa, Vlad Stoian1*, Roxana Vidican, Divergence in corn mycorrhizal colonization patterns due to organic treatment, 2021, *Plants*, 10(12), 2760, F.I. 3, 935; <https://doi.org/10.3390/plants10122760>
12. **Rodica Vârban**, Ioana Crișan, Dan Vârban, Andreea Ona, Loredana Olar, Andrei Stoie, Răzvan Ștefan, 2021, Comparative FT-IR Prospecting for Cellulose in Stems of Some Fiber Plants: Flax, Velvet Leaf, Hemp and Jute. *Applied Sciences* 11(18): 8570 IF=2.679, Q2]. <https://doi.org/10.3390/app11188570> [WOS:000699328100001,
13. Sorin Daniel Vâtcă, Valentina Ancuța Stoian, Titus Cristian Man, Csaba Horvath, Roxana Vidican, Ștefania Gâdea, Anamaria Vâtcă, Ancuța Rotaru, **Rodica Vârban**, Moldovan Cristina, Vlad Stoian, 2021, Agrometeorological Requirements of Maize Crop Phenology for Sustainable Cropping-A Historical Review for Romania. IF=3.251, Q1]. *Sustainability* 13(14): 7719. <https://doi.org/10.3390/su13147719> [WOS:000677185100001,
14. Alexandra Epure, Daniela Benedec, **Rodica Varban**, Daniela Hanganu, Cristina Dragan, Iliora ONIGA, 2020, Phytochemical analysis of some medicinal plant products with antioxidant potential, *Hop and Medicinal Plants* 28: 227- 236. <https://journals.usamvcluj.ro/index.php/hamei/article/view/14002>
15. Vârban Dan I., **Rodica Vârban***, Liviu Tomoș, Marcel M. Duda, Cristina Moldovan, Sorin Muntean, Raluca Roxana Cincea, Alexandru B. Ghețe, 2019, Biodynamic agriculture - concept and effect of the application of the BD product 500 on the rooting of some mint cuttings. *Hop and Medicinal Plants* 27: 129-139. <https://journals.usamvcluj.ro/index.php/hamei/article/view/13593>

March 2023

16. Benedec Daniela, Oniga Ilioara, Hanganu Daniela, Gheldiu Ana Maria, Puscas Cristina, Radu Duma, Mihaela Tiperciuc Brindusa, **Varban Rodica**, Vlase Laurian, 2018, Sources for developing new medicinal products: biochemical investigations on alcoholic extracts obtained from aerial parts of some Romanian *Amaryllidaceae* species. BMC Complementary and Alternative Medicine 18: 226. [WOS:000440202100002]
17. Dan Ioan Vârban, **Rodica Vârban***, Alexandru Ghețe, Antonia Odagiu, Robert Ștefan Czako, 2018, The influence of some products on the rooting of *Rosmarinus officinalis* L. cuttings. Hop and Medicinal Plants 26: 94-100. <http://journals.usamvcluj.ro/index.php/hamei/article/view/13237>
18. **Vârban Rodica**, Dan Ioan Vârban*, Andrei Stoie, Ileana Bogdan, Antonia Odagiu, Alexandru Ghețe, 2018, Identification of weed species present in lavender crops (*Lavandula angustifolia* L.) and (*Mentha piperita* L.) from the UASVM Cluj-Napoca campus. Hop and Medicinal Plants 26: 101-114. <https://journals.usamvcluj.ro/index.php/hamei/article/view/13238>
19. Vârban Dan Ioan, **Rodica Vârban***, Maria Tofană, Ancuța Mihaela Rotar, Cristina Moldovan, Alexandru Ghețe, 2017, The study of composition and antibacterial activity of the volatile oil of the Sevstopolis lavender variety, cultivated in climatic conditions of Cluj-Napoca. Hop and Medicinal Plants, 25. <http://journals.usamvcluj.ro/index.php/hamei/article/view/12881>
20. Vârban D.I., **Rodica Vârban**, Duda M.M., Muntean S., Moldovan C, 2016, The influence of substrates on rooting of *Salvia officinalis* L. cuttings. Hop and Medicinal Plants 24: 52-56. <https://journals.usamvcluj.ro/index.php/hamei/issue/view/328>
21. **Rodica Vârban**, Vârban Dan Ioan, Mihăiescu Tania, Păcurar Florin, 2014, Research on the optimisation of *Arnica montana* L. seedling production, Analele Universitatii din Oradea, Fascicula de Protectia Mediului 232: 157-162. ISSN 1583-4301.
22. **Rodica Vârban**, A. Stoie, 2013, Species inventory of protected areas from Suatu. Analele Universitatii din Oradea, Fascicula de Protectia Mediului, 21: 782-791. ISSN 1583-4301.
23. **Rodica Varban**, D. Varban, 2-12, Comparative study of the active ingredients content *Plantago lanceolata* L. ProEnvironment 5: 248 – 250.
24. Vârban Dan Ioan, **Rodica Vârban***, Antonia Odagiu, 2012, Testing Germination Capacity on Seeds of *Arnica montana* L. specie, ProEnvironment 5: 251 – 255.
25. **Rodica Vârban**, Alexandra Raducanu, D.I. Vârban, 2011, The wood species from Central Park of the Gherla town. Agricultura 77-78: 100-107. ISSN 1221-5317.
26. **Rodica Vârban**, Dan Vârban, Andrei Stoie, The preservation of nature and biodiversity in the county of Cluj, Analele Universitatii din Oradea, Fascicula de Protectia Mediului 15: 822-828.
27. **Rodica Vârban**, A. Stoie, D. Pleșa, 2009, The inventory of the species belonging to the University of agricultural Sciences and Veterinary Medicine Cluj-Napoca arboretum, Bulletin UASVM Agriculture 66(1): 513-520. <http://journals.usamvcluj.ro/index.php/agriculture/article/view/4310>
28. Doina Stana, **Rodica Vârban**, 2005, Biological ecological and agricultural indicators of grassland flora from Aghireșu area, Cluj district. Notulae Botanicae Horti Agrobotanici, 33: <https://www.notulaebotanicae.ro/index.php/nbha/article/view/191>

BOOKS

1. **Rodica Vârban**, Dan Ioan Vârban, 2017, Plante medicinale cultivate și din flora spontană, Ed. Bioflux, ISBN 978-606-8877-13-5, 357 pages.
2. **Varban, Rodica**, Botanică 1, 2016, Ed. Bioflux, ISBN 978-606-8191-95-9, 266 pages.
3. **Rodica Vârban**, 2015, Botanica 2 - Sistematica plantelor, Ed. AcademicPres, Cluj-Napoca, ISBN 978-973-744-454-7, 494 pages.
4. **Rodica Vârban**, Florin Păcurar, Dicționar de botanică, pratologie și agroecologie, 2011, Ed. Risoprint Cluj-Napoca, ISBN 978-973-530666-3, 407 pages.
5. **Rodica Vârban**, Andrei Stoie, Botanică sistematică, Lucrări practice, 2013, Ed. AcademicPres Cluj-Napoca, ISBN 978-973-744- 293-2, 272 pages.
6. A. Stoie, **Rodica Vârban**, Botanică - Morfologia și anatomia plantelor, îndrumător de lucrări practice, 2012, Ed. AcademicPres Cluj-Napoca, ISBN 978-973-744-281-9, 194 pages.

March 2023

7. Vârbă Dan Ioan, **Rodica Vârbă**, Albert Imbre, 2005, Plante medicinale cultivate și din flora spontană, Ed. Risoprint Cluj-Napoca, ISBN 973-656-991-8, 172 pages.
8. Doina Stana, **Rodica Vârbă**, 2006, Lucrări practice – morfologia și anatomia plantelor- Ed. Rustic, Cluj-Napoca, 142 pages.
9. Muntean Leon S., M. Tămaș, Dan I. Vârbă, A. Fițiu, **Rodica Vârbă**, 2003, Tehnologii în agricultura ecologică – Plante medicinale și aromatice, Ed. Risoprint Cluj-Napoca, ISBN 973-656-521-1, 225 pages.

PROFILES

<https://www.researchgate.net/profile/Rodica-Varban>

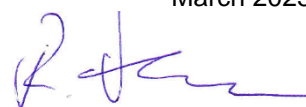
<https://scholar.google.com/citations?user=MV1fNA0AAAAJ&hl=en&oi=ao>

<https://orcid.org/0000-0002-6749-3669>

I hereby declare that all the information mentioned in my resume is true and correct to the best of my knowledge.

Professor phd. Rodica Vârbă

March 2023



March 2023

