

**Europass  
Curriculum Vitae**



**Personal information**

First name(s) / Surname(s) First name DRAGHICI Surname: RETA

Address(es) Petre Banita street, No. 213, Bl. C4, Sc 1, Ap. 1, Postal Code 207170 , City Calarasi, Dolj County, ROMANIA

Telephone(s) +40 251334402 | Mobil: +40 720874903

Fax(es) +40 251334347

E-mail [retadraghici@yahoo.com](mailto:retadraghici@yahoo.com); [ccdcpdabuleni@yahoo.com](mailto:ccdcpdabuleni@yahoo.com)

Web of Science ResearcherID: <https://www.webofscience.com/wos/author/record/B-5615-2014>

ORCID account <https://orcid.org/0000-0003-4548-0338>

ResearchGate <https://www.researchgate.net/profile/Reta-Draghici>

Scholar.google <https://scholar.google.ro/citations?user=gL5mBooAAAAJ&hl=en>

BrainMap account UEF-ID: U-1700-033C-5493 ([BrainMap](#))

Nationality Romanian

Date of birth 06.07.1957

Gender Female

**Desired employment / Occupational field** Research Development Station for Plants Culture on Sands Dabuleni – ROMANIA  
Research technology and plant cowpea breeding  
Senior Researcher I

**Work experience**

**Dates** October 1980 to the present

Occupation or position held Senior Researcher I

Main activities and responsibilities - Specialist in improving the cowpea plant;  
- Responsible for the bean cultivation technology on sandy soils;  
- Specialist in the application of technologies for cultivating cereals and technical plants in conditions of climate change

Name and address of employer Research Development Station for Plants Culture on Sands Dabuleni, Călărași. 220170, Romania, Fiscal Cod RO2281069,  
Telefon: +40251334402; Fax: +40251334347;  
e-mail: [ccdcpn.dabuleni@asas.ro](mailto:ccdcpn.dabuleni@asas.ro); [office@scdcpdabuleni.ro](mailto:office@scdcpdabuleni.ro); Website: <http://www.scdcpndabuleni.ro>

Type of business or sector Research in the field of cowpea plant improvement and technologies for growing cereals and technical plants on sandy soils

**Education and training**

**Dates** April 1996 –June 1999

Title of qualification awarded Diploma Series R, No. 0002127/1999 - Doctor in AGRICULTURE AND HORTICULTURE, Specialty CULTURE OF FIELD PLANTS, with the theme "Contributions to the establishment of the technology of growing beans (Vigna unguiculata L. Walp) on the irrigated sands of the south of Oltenia"

Principal subjects/occupational skills covered	Plant growing, Agrochemical and Agrotechnical									
Name and type of organisation providing education and training	University of Craiova									
Level in national or international classification	High trust ARACIS									
<b>Dates</b>	September 1976- August 1980									
Title of qualification awarded	Agricultural engineer									
Principal subjects/occupational skills covered	Botany, Plant growing, Plant physiology, Chemistry and biochemistry plant Agrochemistry, Agro-technical irrigation, Livestock, information system and economic analysis									
Name and type of organisation providing education and training	University of Craiova									
Level in national or international classification	High trust ARACIS									
<b>Personal skills and competences</b>										
Mother tongue(s)	Romanian									
Other language(s)										
Self-assessment	Understanding		Speaking				Writing			
<i>European level (*)</i>	Listening		Reading		Spoken interaction		Spoken production		Writing	
Language English	B1	Independent user	C1	Experienced user	B1	Independent user	B1	Independent user	C1	Experienced user
Language French	B1	Independent user	C1	Experienced user	B1	Independent user	B1	Independent user	B1	Independent user
Social skills and competences	<ul style="list-style-type: none"> <li>- Team work spirit;</li> <li>- Ability to adapt to multicultural environments, gained through experience visits in Poland (1997) and China (2011), South Korea (2016)</li> <li>- Good communication skills gained through my experience as director and responsible for coordinating partnerships in research projects</li> </ul>									
Organisational skills and competences	<ul style="list-style-type: none"> <li>- Good communication skills gained through my experience as director and responsible for coordinating partnerships in research projects</li> <li>- Good experience in project or team management is responsible for carrying out several research themes</li> </ul>									
Technical skills and competences	<ul style="list-style-type: none"> <li>- Good knowledge of modern scientific research methodology obtained through professional training course (ASAS Bucharest, 1986)</li> <li>- Understanding the plant nutrient application through graduation in 1989 within the context of fertilization rate, soil fertility, soil plant relationships</li> </ul>									

Computer skills and competences	<p>- Good knowledge of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™), by graduating in the ASAS Computer program in 1987 and initiation rate in specialty user microcomputers, organized by the Computer Training Center in 1996</p>										
Additional information	<p>- <b>Principal author in the creation of 4 varieties of cowpea</b> (<i>Vigna unguiculata</i> L Walp.):</p> <ol style="list-style-type: none"> <li>1. Ofelia variety, approved in 1998 / Certificate no. 424./06.03.2000;</li> <li>2. Aura 26 variety, approved in 2012 / Decision of the Horticultural Plant Registration Commission, Nr. 92841 / 12.05.2012.</li> <li>3. Doljana variety, approved in 2017, Certificate no. 7273 / 08.21.2017.</li> <li>4. Co-author on the creation and approval of the sweet potato variety Koretta (<i>Ipomoea batatas</i> (L.) Lam.) (Patent no. 00744 /31.05.2024)</li> </ol> <p>- <b>Main author or collaborator of 213 scientific</b> papers published in prestigious national and international journals, indexed: ISI (30); BDI (128), as well as in Scientific works of SCDCPN Dăbuleni, indexed ISBN /ISSN (55).</p> <ul style="list-style-type: none"> <li>- <b>Main author, or collaborator on 9 books</b>, of which one is the sole author and one is the main author;</li> <li>- <b>Main author or collaborator in the development/improvement of 25 technologies</b> for cultivating plants on sands, of which as the main author of 5 technologies for cultivating cowpea, beans for grains and sugar sorghum and as a collaborator for 20 technologies for cultivating on the sandy soils of the species: sorghum for grains, corn, peanuts, rye, wheat, triticale, consumer potato, sweet potato, Jerusalem artichoke.</li> <li>- <b>main author or collaborator in the elaboration of 41 popularization scientific</b> works, of which 24 main author and 17 in collaboration, works based on the obtained research results, which were published in the Research Offer and in various magazines for farmers.</li> <li>- <b>Participation with scientific papers</b> at national and international Conferences and Symposia</li> <li>- <b>Recognition of research-development</b> activity on a national and international level, through citations of works published in ISI or BDI indexed journals.</li> </ul> <table border="0" data-bbox="606 1187 1149 1400"> <tr> <td><u>Citations</u> Google Scholar</td> <td style="text-align: right;">297</td> </tr> <tr> <td><u>h-index</u> Google Scholar</td> <td style="text-align: right;">8</td> </tr> <tr> <td><u>i10-index</u> Google Scholar</td> <td style="text-align: right;">6</td> </tr> <tr> <td><u>Citations</u> Web of Science:</td> <td style="text-align: right;">119</td> </tr> <tr> <td>H-Index Web of Science:</td> <td style="text-align: right;">6</td> </tr> </table> <p>- <b>Participation in the achievement of the scientific objectives of 39 research projects won through national competition, of which:</b> - Project director: 5 research projects (one international + 4 national); - Project / Theme manager: 10 projects; - Member of the project work team: 24 projects</p> <p>- <b>Member of the Association of Breeders and Producers</b> of Seed and Planting Material from Romania (AMSEM) and the Society of Agrarian History and Retrology from Romania (SIRAR)</p> <ul style="list-style-type: none"> <li>- CDI Romania evaluator in 2008;</li> <li>- <b>Scientific reviewer in</b> various national and international scientific journals (ISI, BDI, ISSN):</li> <li>- MDPI journal Agronomy, ISSN: 2073-4395 (ISI indexing)</li> <li>- MDPI journal Sustainability, ISSN: 2071-1050 (ISI indexing)</li> <li>- MDPI Journal Forests, ISSN: 1999-4907 (ISI indexing)</li> <li>- MDPI Journal Agriculture, ISSN: 2077-0472 (ISI indexing)</li> <li>- MDPI Journal Plants, ISSN: 2223-7747 (ISI indexing)</li> </ul>	<u>Citations</u> Google Scholar	297	<u>h-index</u> Google Scholar	8	<u>i10-index</u> Google Scholar	6	<u>Citations</u> Web of Science:	119	H-Index Web of Science:	6
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	<ul style="list-style-type: none"> <li>- Journal, Vegetos, ISSN: 0970-4078</li> <li>- Journal of Agricultural and Crop Research (JACR), ISSN 2384-731X (ISI indexing);</li> <li>- Environmental Engineering and Management Journal, ISSN 1843-3707 (ISI indexing);</li> <li>- International Journal of Research in Environmental Studies, (IJRES) ISSN 2059-1977 (BDI indexing)</li> <li>- Annals of the Research and Development Station for Plant Culture on Sands Dabuleni, SUSTAINABLE EXPLOITATION OF ENVIRONMENTAL RESOURCES IN AREAS WITH SANDY SOILS, ISSN 2360 – 0829; ISSN-L 2360 – 0829, in the period 2012-2018 (not indexed)</li> <li>- <b>Activity in pre-university education:</b> <ul style="list-style-type: none"> <li>- member of the Board of Directors of the Technological High School "Petre Baniță", Călărași Dolj</li> <li>- external evaluator in the subcommittee for the Agricultural Technician exam - "Petre Baniță" Technological High School, 2016-2017, Călărași Dolj</li> <li>- evaluator member, Professional Qualification-Farmer of field crops, "Petre Baniță" Technological High School, Călărași Dolj 2017-2019</li> <li>- evaluating member, Professional Qualification-Horticulturalist, "Petre Baniță" Technological High School, Călărași Dolj 2016</li> <li>- evaluator member, Professional Qualification - Zootechnician, "Petre Baniță" Technological High School, Călărași Dolj, 2019</li> </ul> </li> <li>- <b>The travels abroad:</b> <ul style="list-style-type: none"> <li>- Poland, 20 to 27 June 1997, on technology issues cowpea; scientific paper presentation at the X Symposium Herbologie</li> <li>- China, 11 to 25 August 2011, travel to Institute of Agro-Resources and Environment, Hebei Academy of Agriculture and Forestry Sciences, China, under bilateral cooperation, by the contract no. 498/2011</li> <li>- South Korea July 18-25, 2016 - Visit to the Government Province of Gyeongsangbuk-do 455, Docheong-daero, Pungcheon-myeon, Andong-si, Republic of Korea. Presentation at the "2016 GYEONGSANGBUK-DO AGRICULTURAL TRAINING PROGRAM" of the results obtained in Romania on the sweet potato culture.</li> </ul> </li> </ul>
<b>Annexes</b>	<p>Programs experience national / international</p> <p>Selective list of Scientific papers published</p> <p>Memorandum of activity</p>

March, 2025

Dr. Eng. *Drăghici Reta,*  
*Scientific Researcher I*

**PROGRAMS EXPERIENCE NATIONAL / INTERNATIONAL**

Name Project	Function	Period: from..... by
1. Proiect nr 563/1.1.1.din 15.03.2023: „Conservation and use of germplasm resources in the breeding of bean and groundnut plants grown in sandy soils	Project director	2023-2026
2. ADER 1.4.2/2019:"Restoring the production capacity and protection of agroecosystems in sandy soils by promoting stress-tolerant plant species in cultivation thermohydric, cowpea, sorghum, rye "	Project director	2019-2022
3. Project 1740 / 10.10.2018: "Creation and promotion of genotypes of cowpea and peanuts with high productive potential, tolerant / resistant to drought, diseases and pests and superior qualities"	Project director	2018-2022
4. Contract 498/18.03.2011: "Research and application of soil nutrient best management for main crops / bilateral cooperation"	Project director	2011-2012
5. ADER 5.3.3: "Improving supply production of sandy soils agroecosystems to increase food safety and quality of primary agricultural products",	Deputy Director	2011-2014
6. ADER 1.1.6: "Research on the identification/creation of sunflower genotypes, with superior morphological characteristics, with complex resistance to adverse environmental factors, with a high degree of attractiveness for bees, suitable for cultivation in different sustainable agriculture systems, for a healthy food "	Responsible Partner	2023-2026
7. ADER 2.2.2: "Development of procedures regarding sweet potato cultivation technologies in the context of climate change and development of measures to promote the culture in Romania	Scientific responsible project	2015-2018
8. ADER Sectoral 3.1.4.: "Regeneration, multiplication and characterization of local vegetable varieties with unique carcater"	Responsible Partner	2015-2018
9. COOPERATION AGREEMENT/12.03.2014: „Scientific research and mainly improving sandy soils fertility and highly efficiency nutrient management technic for mainly sandy soil crops" – Proiect cooperare între Institute of Agro-Resources and Environment, Hebei Academy of Agricultural and Forestry Sciences, CHINA si CCDCPN Dabuleni	Responsible Project	2014-2016
10. ADER Sectoral 5.1.2 "Integrated protection of specific crops in different crop rotation agro farms, farms that include meadows with high ecological value and Natura 2000 areas"	Responsible Partner	2012-2014
11. Theme 1 / Autofinancing SCDCPN Dabueni / ASAS approval, "Highlighting and assessing the factors that generate the drought and aridation phenomena in the sandy soils areas in southern Oltenia and the establishment of sustainable measures for combating agropodoameliorative, agrofitechnical and land improvement measures"	Responsible theme	2010-2015
12. Sectoral Project 2.4.1. "Development of integrated control systems with minimum impact on the environment" / Contract no. 353/2006	Responsible Partner	2006-2010
13. Horizon 2000 Program - "Development of varieties and hybrids to peanuts, cowpea, sorghum and behavior of species and varieties and hybrids existing at the grain, industrial crops, fodder and medicinal plants grown on sandy soils"	Responsible theme	1987-2000
14. The Horizon 2000 Program - "Research on the behavior of less cultivated or uncultivated species on sandy soil in order to introduce their culture" / 1985-1994	Responsible theme	1985-1994
15. Project 4000/15.02.1984 with ICCPT Fundulea "Production and use of biomass and other unconventional energy sources in agriculture"	Responsible project	1984- 1986
16. ADER 2.1.1: "Monitoring system using drones and early warning for the management of soil pests in corn and sunflower crops"	Collaborator	2023-2026

17. ADER 5.1.3: "Identification and promotion of some technological measures in order to make better use of the production obtained from the sweet potato - Ipomoea batatas cultivated in Romania, in order to obtain products rich in nutrients and safe for consumers";	Collaborator	2023-2026
18. ADER 5.2.2: "Research on the development of modern technologies for the introduction into culture of some valuable species of medicinal and aromatic plants, in the context of supporting agroecosystems in accordance with the EU Biodiversity Strategy, to ensure the economic efficiency of traditional farms"	Collaborator	2023-2026
19. ADER 1.3.2/2019.: Improving and diversifying the germplasm of protein crops in terms of productivity and harvest quality, adaptability to biotic and abiotic stress factors intended for food products	Collaborator	2019-2022
20. ADER 2.1.4/2019: Creation and identification of sunflower genotypes with superior quality characteristics and complex resistance to biotic and abiotic factors and genetic resistance to total herbicides applied post-emergence	Collaborator	2019-2022
21. ADER 4.1.1 / 2019: Obtaining new potato varieties with superior ability to respond to abiotic and biotic stress by using the genetic determinism of tolerance traits	Collaborator	2019- 2022
22. ADER 7.3.4 / 2019: Research on in vitro selection in order to identify, multiply and promote sweet potato genotypes with tolerance to thermohydric stress	Collaborator	2019- 2022
23. Project no. 1741 / 10.10.2018: "Promoting species and varieties tolerant to climate change and thermal-hydr suitability stress in the sandy soils in southern Oltenia"	Collaborator	2018-2022
24. Project no. 1737 / 10.10.2018: Fundamentation of culture technologies through physiological research on some species of plants grown on sandy soils	Collaborator	2018-2022
25. Project 1732 / 10.10.2018 Research on the efficiency of sweet potato culture under the conditions of climate change in southern Oltenia	Collaborator	2018-2022
26. Complex Project no. 9PCCDI/2018: „COMPLEX SYSTEM OF INTEGRAL CAPITALIZATION OF AGRICULTURAL SPECIES WITH ENERGY AND FOOD POTENTIAL” (VALINTEGR)	Collaborator	2018-2020
27. Complex Project no. 27PCCDI/2018: „INNOVATIVE TECHNOLOGIES FOR IRRIGATION OF AGRICULTURAL CROPS IN ARID, SEMIARID AND SUBHUMID-DRY CLIMATE” (SMARTIRRIG)	Collaborator	2018-2020
28. ADER Sectoral 4.1.4: "Integrated technologies for preventing and combating pests in agricultural and horticultural plants with minimum resource consumption"	Collaborator	2015-2018
29. ADER Sectoral 16.3.1: "Research on establishing new systems and technologies influential conservative application of mechanized agricultural works to combat the effects of drought, soil fertility preservation and increase quantity and quality of production for the main species of cultivated plants "	Collaborator	2015-2018
30. ADER Sectoral 1.1.3: "Creating sunflower hybrids with improved resistance to drought and extreme temperatures"	Collaborator	2015-2018
31. ADER Sectoral 2.1.1: "Obtain new potato varieties adapted to climate change and economic with efficiency higher in the management of water resources and establish specific technological packages current market requirements and request farmers"	Collaborator	2015-2018
32. ADER Sectoral 5.3.1: Improving the management of the potato crop, at the farm level, by promoting a decision support system (DSS) based on the continuous monitoring of resources"	Collaborator	2011-2014
33. Contract no. 341/1.09.2004: "Design and promotion of a sustainable agriculture system under the conditions of poorly productive soils in the south of Oltenia" - AGRAL Program	Collaborator	2004-2006
34. Theme 2./ Autofinancing SCDCPN Dabueni / ASAS approval: Improvement, identification and promotion in crops of certain species and cultivation of cereals, technical plants, fodder plants and medicinal plants tolerant to stress factors in the area of sandy soil (own financing)	Collaborator	2010-2015

35. Contract 51097/2006 "Evaluating the effect of global warming on safety potato production monitoring physiological responses on plant and crop" / Program PNCDI II	Collaborator	2006-2010
36. PS-1.1.1: "Sustainable management of soil resources under the influence of anthropogenic pressures in the context of adaptation to EU agricultural policy regulations"	Collaborator	2006-2010
37. CEEEX: Project: "RESEARCH ON THE FEATURES OF THE SUSTAINABLE AGRICULTURE SYSTEM ON DIFFERENT PEDOCLIMATICAL AND TECHNOLOGICAL CONDITIONS FROM OLTENIA"	Collaborator	2006-2008
38. Contract 890/18.09.2000: "Recovery sands and sandy soils with low natural fertility (less than 1% humus) thru grain sorghum culture in the context of private agriculture, sustainable" / Relansin Program	Collaborator	2000-2002
39. Contract 891 / 09.18.2000: "Integrated protection of agricultural crops in sandy soil environmental conditions" / Program Relansin	Collaborator	2000-2002

March, 2025

Dr. Eng. Drăghici Reta,

Scientific Researcher I

**LIST OF PUBLISHED WORKS****I. DOCTORAL THESIS**

**DRĂGHICI Reta**, 1999. - Contributions to establishing the cultivation technology of the bean *Vigna unguiculata* (L.) Walp on the irrigated sands of southern Oltenia. Thesis. University of Craiova.

**II. PUBLISHED BOOKS**

1. **Reta Drăghici**, Georgeta Ciurescu, Gheorghe Matei, Aurelia Diaconu, Ștefan Nanu, Mirela Paraschivu, Iulian Drăghici, Alina Paraschiv, Mihaela Croitoru, Milica Dima, Maria Băjenaru, Florentina Netcu, Daniela Ilie, 2022. *Restoration of production capacity and protection of agroecosystems in the area of sandy soils by promoting in culture some species of plants tolerant to thermohydric stress, rye, sorghum, cowpea*. ISBN 978-606-11-8228-2, 254 pages, SITECH Publishing House, Craiova.
2. Gheorghe Matei, Nicolae-Valentin Vlăduț, Elena Trotuș, Simona-Florina Isticioaia, **Reta Drăghici**, Lorena-Diana Popa, Livia Apostol, Iulian Voicea, 2021 *Sorghum-Innovative cultivation and utilization technologies*. ISBN: 978-606-14-1728-5, University Publishing House, Craiova, 2021, 424 pages.
3. Simona-Florina Isticioaia, Elrna Trotuș, Gheorghe MATEI, Nicolae Valentin VLĂDUȚ, Livia APOSTOL, Florin NENCIU, Lorena - Diana POPA, 2021. *Jerusalem artichoke – from cultivation to exploitation*. ISBN: N 978-973-147-405-2, Ion Ionescu de la Brad Publishing House, Iași, 2021, Chapter III: Genetics and species improvement (Matei Gh., Drăghici I., **Drăghici R**), p. 40-54. Head. VIII: Cultivation technology/The need for nitrifying elements and fertilization (Mârzan O., Leonte A., Drăghici I., **Drăghici R.**, Dima M.), p. 108-114.
4. Aurelia DIACONU, Ștefan NANU, Iulian RĂȚOI, Mihaela CROITORU, **Reta DRĂGHICI**, Elena CIUCIUC, Iulian DRĂGHICI, Milica DIMA, Ioan PINTILIE, Alina Nicoleta PARASCHIV, Gheorghe COTEȚ, Loredana Mirela SFÎRLOAGĂ, 2019. *Anniversary of S.C.D.C.P.N. Dăbuleni - BRIDGE OVER THE GENERATIONS*. ISBN 978-606-11-7259-7, Sitech Publishing House, Ctaiova, 2019, 245 pages.
5. Aurelia DIACONU, Iulian RĂȚOI, Ștefan NANU, Mihaela CROITORU, **Reta DRĂGHICI**, Elena CIUCIUC, Iulian DRĂGHICI, Milica DIMA, Ioan PINTILIE, Viorel ENACHE, Alina Nicoleta PARASCHIV, Loredana Mirela SFÎRLOAGĂ, Gheorghe COTEȚ, 2019. *"6 DECADES OF RESEARCH CONCERNING THE CULTURE OF PLANTS ON SANDS"*, ISBN 978-606-11-7015-9, Sitech Publishing House, 544 pages.
6. **Drăghici Reta**, 2018. *COWPEA-PLANT OF SANDY SOILS*. Sitech Publishing House, Craiova, ISBN 978-606-11-6587-2, 183 pages
7. Diaconu Aurelia, **Drăghici Reta**, Cioloca Mihaela, Boiu Siciua Oana, Mohora Angela, Croitoru Mihaela, Paraschiv Alina, Drăghici Iulian, Dima Milica, Coteț Gheorghe, 2018. *Guide to good agricultural and environmental practices in the field of optimizing cultivation technology sweet potato*. SITECH Publishing House, Craiova. ISBN: 978-606-11-6626-8, 147 pages
8. Silvia STRĂJERU, Dana CONSTANTINESCU, Dan Mihai GIURCĂ, Creola BREZEANU, **Reta DRĂGHICI**, Alina BUZATU, Floarea BURNICHI, 2018. *CATALOG OF VEGETABLE SPECIES*, PIM Publishing House, Accredited CNCIS-66/2010, ISBN 978-606-13-4639-4 , 180 pages
9. Iulian Ratoi, Aurelia Diaconu, Vasile Toma, Mihaela Croitoru, Elena Ciuciuc, Iulian Drăghici, **Reta Drăghici**, Marieta Ploae, Milica Dima, Anica Durau, 2014. *The supply of primary agricultural products on sandy soils in Romania in the perspective of 2015-2025* . Sitech publishing house, Craiova. ISBN 978-606-11-4311-5, 221 pages

**III. SCIENTIFIC WORKS**

**3.1. ARTICLES PUBLISHED IN ISI INDEXED JOURNALS (Web of Science)**

1. **Drăghici, R.**; Nanu, Ș.; Diaconu, A.; Bîrsoghe, C.; Netcu, F.; Paraschiv, A.N.; Dima, M., 2024. *Effect of Green Cowpea Manure on the Quality Properties of Sandy Soils Under the Specific Conditions of the Dry Climate in Romania*. *Agronomy* 2024, 14, 2474. <https://www.mdpi.com/2073-4395/14/11/2474>; WOS:001365736600001;
2. Mihaela Dumitru, Nicoleta Aurelia Lefter, Georgeta Ciurescu, **Reta Drăghici**, 2024. *Effect of Bacillus licheniformis on Growth, Bone Mineralization, and Intestinal Microbiota in Broilers Fed Cowpea Diets*, *Agriculture* 2024, 14(11), 2013; <https://www.mdpi.com/2077-0472/14/11/2013> ; WOS:001364571100001
3. Maria-Florentina Băjenaru, **Reta Drăghici**, Milica Dima, Cristina Bîrsoghe, Ștefan Nanu, Nicolae Giugea, 2024. *The biology of the development process in some grape cultivars for red wines studied on the sandy soils of southern Oltenia*. *Scientific Papers. Series B, Horticulture*, Vol. LXVIII, Issue 2, Print ISSN 2285-5653, 245-250; <https://horticulturejournal.usamv.ro/index.php/scientific-papers/current-issue?id=1610>
4. **Reta DRĂGHICI**, Milica DIMA, Alina Nicoleta PARASCHIV, Maria Florentina BĂJENARU, Cristina BÎRSOGHE, 2023. *The behavior of some local and foreign cowpea genotypes in the conditions of climate changes in the south of Oltenia*. *Scientific Papers. Series A. Agronomy*, Vol. LXVI, No. 2, 2023, p. 198-207, ISSN 2285-5785; ISSN CD-ROM 2285-5793; ISSN Online 2285-5807; ISSN-L 2285-5785; Art25.pdf (usamv.ro); [https://agronomyjournal.usamv.ro/pdf/2023/issue\\_2/Art25.pdf](https://agronomyjournal.usamv.ro/pdf/2023/issue_2/Art25.pdf) WOS:001133095800065
5. Milica DIMA, **Reta DRĂGHICI**, Gheorghe COTEȚ, Florentina NETCU, Maria-Florentina BĂJENARU, 2023. *Research on the influence of harvest time on yield in groundnuts grown on sandy soils*. *Scientific Papers. Series A. Agronomy*, Vol. LXVI, No. 2, 2023, p. 181-186, ISSN 2285-5785; ISSN CD-ROM 2285-5793; ISSN Online 2285-5807; ISSN-L 2285-5785; Art23.pdf (usamv.ro); [https://agronomyjournal.usamv.ro/pdf/2023/issue\\_2/Art23.pdf](https://agronomyjournal.usamv.ro/pdf/2023/issue_2/Art23.pdf) WOS:001133095800062
6. Mirela PARASCHIVU, Otilia COTUNA, Veronica SĂRĂȚEANU, Gheorghe MATEI, **Reta DRĂGHICI**, Alina Marinela Prioteasa, 2023. *Assessment of leaf rust (P. recondita f. sp. secalis) attack in marginal areas from southern Romania*. *Scientific Papers. Series A. Agronomy*, Vol. LXVI, No. 2, 2023, p. 330-338, ISSN 2285-5785; ISSN CD-ROM 2285-5793; ISSN Online 2285-5807; ISSN-L 2285-5785; Art66.pdf (usamv.ro); [https://agronomyjournal.usamv.ro/pdf/2023/issue\\_2/Art42.pdf](https://agronomyjournal.usamv.ro/pdf/2023/issue_2/Art42.pdf) WOS:001133095800070
7. Dima, M (Dima, Milica) ; Paraschivu, M (Paraschivu, Mirela) ; Partal, E (Partal, Elena) ; Diaconu, A (Diaconu, Aurelia) ; **Drăghici, R (Drăghici, Reta)** ; Titirica, I (Titirica, Irina), 2023. *The impact of the sowing time on peanuts yield's components in marginal sandy soils in southern Oltenia, Romania*. *Romanian Agricultural Research*, Volume 40, Page 307-316; ISSN: 1222-4227; RAR 40 (incda-fundulea.ro); <https://www.incda-fundulea.ro/rar/nr40/rar40.42.pdf> WOS:001012854500029
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March, 2025

Dr. Eng. *Drăghici Reta*,  
*Scientific Researcher I*

**MEMORANDUM OF ACTIVITY\_Drăghici Reta**

The undersigned, **DRĂGHICI Reta**, first degree scientific researcher, carry out my work in the laboratory of CULTURE OF PLANTS ON SANDS - CLIMATE CHANGES, Collective "Sand improvement, field crops, technical plants" within the Development Research Station for Cultivation of Sand Slopes in Dăbuleni (<https://www.scdcpndabuleni.ro>).

Since **30.10.1980**, I have been working within SCDCPN Dăbuleni with the following professional background:

- ☐ **1980 - 1981**- trainee engineer at a farm of the Development sector of SCCC PN Dăbuleni;
- ☐ **1982** - research engineer within the Agricultural Laboratory of SCCC PN Dăbuleni;
- ☐ **1989** - scientific researcher in the specialty "Agriculture-cultivation of field plants";
- ☐ **1993** - senior scientific researcher grade III;
- ☐ **2000** - senior scientific researcher, grade II;
- ☐ **2021** - principal scientific researcher first degree.

**Starting from 2014 and until 2021**, I held the position of Head of Laboratory "Plant culture on sands" at Research Development Station for Plants Culture on Sands Dabuleni.

**In the period 1984-2003**, I carried out research activity within the National Research and Development Programs with the objective "Sustainable development systems, performing qualitatively and economically, with low impact on the environment for the cultivation of field plants" and as a subsidiary objective "Diversification the genetic base for improving the efficiency of the use of natural and technological resources, stress tolerance and quality for multiple uses", were realized through scientific deepening within the research theme: "Research on the creation of drought-tolerant bean genotypes under sandy soil conditions".

**The main objectives of the theme were:**

- ▶ Studies on the behavior of bean biological material within the germplasm collection (resistance to drought, diseases, pests, productivity, quality, earliness);
- ▶ Making hybridizations in the greenhouse and tracking bean hybrids in the F1 and F2 generations (segregation ratio, morphological and biological characters of the plant);

In the period 1986-2006, the topic of team research was focused on solving the following objectives:

- ▶ increasing the organic matter content of coarse-textured soils from the category of sands and sandy soils;
- ▶ evaluation, use, protection and improvement of natural resources (soil, water, climate) in order to increase the quantity and quality of agricultural production on poorly productive soils;
- ▶ establishing rational and economically efficient crop rotations, which capitalize on the reduced natural fertility of sandy soils;
- ▶ the development of methods, techniques and procedures for the use and valorization of soil and water resources, in the conditions of extreme climatic phenomena (drought, excess water, climate changes);
- ▶ increasing the production of cereals and technical plants through the application of essential technological links and improving the fertility of sandy soils.

**The personal contribution to solving these objectives consisted in research on:**

- the behavior of some cowpea cultivation in the conditions of the sandy soils in the south of Oltenia;
- the role of biological nitrogen fixed by the cowpea as a precursor plant, in improving the state of soil nutrition and reducing the dose of nitrogen applied to grain sorghum on sandy soils;

- reduction of fertilizer doses and differentiated fertilization depending on the specific consumption of plants;
- the presentation of cowpea cultivation technology within the training and professional training course for private farmers;
- the establishment of demonstration lots;
- capitalizing on the thermal and water potential of sandy soils through the new genotypes obtained in Dăbuleni;
- establishing the nutrition space of the plant in order to value the biological potential of the new cowpea genetic creations;
- studies regarding the fertilization system for the cowpea culture in irrigated and non-irrigated systems in order to improve the efficiency of the obtained production;
- combating weeds in cowpea culture on sandy soils; the implications of mineral and foliar fertilization on cowpea production.

**In the period 1995-1999**, I attended the training courses of the University of Craiova to obtain the title of Doctor with the theme "Contributions to the establishment of the technology of growing cowpea (*Vigna unguiculata* L. Walp) on the irrigated sands of the south of Oltenia", scientific supervisor Prof. Univ. Dr. MATEI Ion. from the Faculty of Agronomy in Craiova. During the training period, I perfected myself in the fields of: Phytotechnics, Agrochemistry and Agrotechnics, each stage of training being completed by exams and reports. In June, 1999, I obtained the title of "Doctor in AGRICULTURE AND HORTICULTURE, Specialty CULTURE OF FIELD PLANTS".

**In the period 2003-2004**, I was responsible for the execution of the theme: "Research on the improvement of the cowpea plant" within the Research - Development Contract of SCDCPN Dăbuleni, which had as its objective: "Research with immediate applicability in order to increase the potential of production and economic efficiency in agricultural and horticultural crops from the farms and production sectors of SCDCPN Dăbuleni".

**In the period 2006-2010**, I scientifically coordinated the research team, as a partner in the PS 241 sectoral project "Development of integrated combat systems with minimal impact on the environment", led by ICDPP Bucharest. Through the obtained results, the agents of damage to the main crops on the sands were identified and we established measures to reduce the degree of attack on plants, in the context of environmental protection. The research I carried out in this project led to the modeling of pest populations in wheat, corn and sunflower crops and to establishing their distribution through GIS/GPS geostatistical interpolation. Agrotechnical methods and chemical means with minimal impact on the environment and stimulating the action of biological control agents were also selected.

**During 2011-2012**, I coordinated a bilateral collaboration contract with China "Research on the management of nutrient application to the main crops", which had as objectives - improving the physico-chemical properties of sandy soils through the rational use of nutrients; - improving the coefficient of use of fertilizers and reducing the risk of soil and groundwater pollution, by using different methods of fertilization (chemical, organic, green fertilizers, fertigation); - optimization of mineral nutrition for the crops on the sands (sorghum, peanuts, cowpea, potatoes, corn, watermelons, wheat, vines). Original economic and ecological solutions were developed to obtain stable, healthy, low-cost productions, in order to protect human health and the environment. The application by farmers of the research results will determine the growth, constancy and sustainability

of their production and income, in the process of moving from a subsistence agriculture to a modern market agriculture, in accordance with the National Strategic Plan for Rural Development 2007-2013 of the MADR, based on Council Regulation (EC) 1698/2005. During August 14-24, 2011 documentation at the Institute of Agro-resources and Environment in Shijiazhaung/Hebei Academy of Agriculture and Forestry Sciences/CHINA, with the objective of strengthening Romanian-Chinese cooperation in the field of nutrient application. The internship ended with the awarding of a Certificate of Improvement on the subject of "Management of nutrient application to the main crops" by the Institute of Agro-resources and Environment, Hebei Academy of Agriculture and Forestry Sciences, China, August 15, 2011.

**In the period 2010-2015**, I coordinated the research theme "Highlighting and evaluating the factors that generate the phenomena of drought and aridification in the areas with sandy soils in the south of Oltenia and the establishment of sustainable measures to combat them through agropedo-ameliorative, agrophytotechnical and land improvement methods". The research within this theme aimed to optimize the consumption of nutrients in the main crops under the conditions of sandy soils. We obtained results regarding the influence of root and foliar fertilization on the physiology of the plant, its production and quality in cowpea, sorghum, peanut, corn, wheat and rye crops, and the significance of the fractional application of the dose in conditions on sandy soils was highlighted.

The research carried out under the theme "Improvement, identification and promotion in culture of some species and cultivation of cereals, technical plants, fodder plants and medicinal plants tolerant to stress factors in the area of sandy soils" focused on the conservation and use of germplasm resources in improving the cowpea plant. The results were realized by obtaining 3 varieties of beans: Ofelia, Aura 26 and Doljana.

**In the period 2011-2018**, I coordinated the SCDCPN Dăbuleni team, as Scientific Responsible Partner, on 2 projects financed by MADR Bucharest through the Sectoral Program ADER 2020, respectively ADER 5.1.2. (Integrated protection of agricultural crops in crop rotations specific to agroforestry holdings, farms that include meadows with high ecological value and Natura 2000 areas) in the period 2011-2014 and ADER 3.1.4 (Regeneration, multiplication and characterization of some local vegetable varieties, with a unique character) in the period 2015-2018 and I participated as a member of the work teams in achieving the objectives of 7 projects financed by MADR Bucharest. The research aimed at establishing integrated protection measures for agricultural crops in the area of sandy soils, increasing the degree of food security in areas with sandy soils by improving the supply of new varieties of cowpea and improving the management of the potato crop by monitoring the resources on the sands.

**During 2014-2015** I was responsible for the realization of the COOPERATION AGREEMENT/12.03.2014: Scientific research and mainly improving sandy soils fertility and highly efficiency nutrient management technique for mainly sandy soil crops between the Institute of Agro-Resources and Environment, Hebei Academy of Agricultural and Forestry Sciences, CHINA and CCDCPN Dabuleni, which aimed to exchange biological material in some species (cowpea, sorghum, peanuts, eggplant, watermelon).

**In the period 2018-2021** I was a member of two complex research projects within the PN III program, in which SCDCPN Dăbuleni is a partner, respectively: 9PCCDI/2018: "Complex systems for the integral utilization of some agricultural species with energy and food potential "(VALINTEGR)" and 27PCCDI/2018: "INNOVATIVE TECHNOLOGIES FOR CROP IRRIGATION IN ARID, SEMIARID AND SUBUMED-DRY CLIMATE CONDITIONS (SMARTIRRIG)".

In the framework of the 9PCCDI/2018 project, we carried out a research activity aimed at optimizing the production of sugar sorghum, by combining the genotype, fertilization, thickness and harvesting period for a superior utilization of the plant, and in the framework of the 27PCCDI/2018 project, we studied the VALUATION OF THE STATION EFFLUENT TREATMENT FOR THE IRRIGATION OF ENERGY CROPS (Sorghum and sunflower). Within the two complex projects, I was also responsible for the economic activity carried out on 7 component projects, according to the work estimates.

**In the period 2018-2022** I am coordinating Research Project no. 1740/10.10.2018: "Creation and promotion of cowpea and peanut genotypes with high productive potential, tolerant/resistant to drought, diseases and pests and with superior qualitative characteristics", financed from the state budget through MADR. The research carried out aimed at the following objectives:

- Conservation and evaluation of the use of germplasm resources in the improvement of cowpea and peanut plants in order to create new varieties;
- The hereditary diversification of the genetic base in cowpea and peanuts through intraspecific hybridization and selection;
- Promotion of cowpea and groundnut genotypes in culture with high productive potential, drought tolerant, resistant to diseases and pests and with superior quality attributes.

**In the period 2019-2022** I coordinated the project at ADER 1.4.2 / 27.09.2019 (<https://www.proiect-ader.scdcpndabuleni.ro/>): "Restoring the production capacity and protection of agroecosystems in the area of sandy soils by promoting in culture of plant species tolerant to thermohydric stress, cowpea, sorghum, rye", with the University of Craiova and INCDBNA Balotești as partners. Research within the project aimed at the following objectives: 1. The development of scientific and technological solutions to achieve significant progress in the cultivation of cowpea, sorghum and rye in a sustainable agriculture system specific to the area of sandy soils; 2. Development of fodder recipes from cowpea, sorghum for grains and rye and their testing in the livestock sector; 3. The cultivation of plants specific to arid climates on sandy soils: cowpea, sorghum, rye. As a member of the research team, I participated in the realization of 4 ADER 2022 projects.

**Starting from 2023**, I am coordinating research topic 1.1.1: "Conservation and use of germplasm resources in the improvement of cowpea and peanut plants grown in sandy fields", with funding from the state budget through MADR and I am responsible Partner in the ADER project 1.1.6 : "Research on the identification/creation of sunflower genotypes, with superior morphological characteristics, with complex resistance to adverse environmental factors, with a high degree of attractiveness for bees, suitable for cultivation in different sustainable agriculture systems, for a healthy diet", financed for the period 2023-2026 by MADR Bucharest.

Throughout the entire research activity at Research Development Station for Plants Culture on Sands Dabuleni, professional development was a constant concern. We put special emphasis on documentation, both from the specialized literature in the country and abroad in the field of bean technology and improvement, in the field of improvement and valorization of sandy soils, in the field of climate change and its implications in the growth and development of field crops, as well as in the field of perfecting the cultivation technologies of some species of cereal plants and technical plants grown on sandy soils.

March, 2025

Dr. Eng. *Drăghici Reta*,  
*Scientific Researcher I*