

## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s) **RADU NICOLETA**

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Nationality Romanian

Date of birth September, 1969

Gender female

**Desired employment / Occupational field** **SCIENTIST in the fields of Life Sciences and Engineering Sciences**

### Work experience

Dates **2020-present**

Occupation or position held **ASSOCIATE PROFESSOR**

Main activities and responsibilities Education in the field of Biotechnology

Name and address of employer **Doctoral School of Biotechnology from University of Agronomic Sciences and Veterinary Medicine of Bucharest, Bd. Mărăști, no. 59, District 1, Bucharest, 011464**

Type of business or sector Education in the field of life & engineering sciences

Dates **2001-present**

Occupation or position held **Scientist, Project Manager, Tutor.**

Main activities and responsibilities Research, Development and Education in the field of Biotechnology and Life Science

Name and address of employer Biotechnology Dept. INCDCP Bucharest, 202, Splaiul Independentei street, District 6, Bucharest, ROMANIA

Type of business or sector Research & Development & Education in the field of life & engineering sciences

Dates	<b>2008-present</b>
Occupation or position held	<b>Head of Education and Bioethics Comission</b>
Main activities and responsibilities	Education
Name and address of employer	Romanian Society of Bioengineering and Biotechnology
Type of business or sector	Education & Research in the fields of Life Sciences, Engineering Sciences and Entrepreneurship

<b>Dates</b>	<b>2011</b>
Occupation or position held	<b>Postdoctoral study</b>
Main activities and responsibilities	postdoctoral student in the field of Medical Biotechnology
Name and address of employer	University of Agricultural Science and Veterinary Medicine Cluj Napoca & University POLTEHNICA of Bucharest
Type of business or sector	Research & Education in the field of Medical Biotechnology

<b>Dates</b>	<b>1995-2001</b>
Occupation or position held	<b>Designer, Project Manager</b>
Main activities and responsibilities	<b>Engineering project manager; Research project manager</b>
Name and address of employer	<b>Engineering Company, IITPIC (S.C. IPROCHIM S.A) Bucharest, ROMANIA</b>
Type of business or sector	<b>Industrial Engineering ; Research &amp; Development</b>

**Education and training**

Dates	<b>2010</b>
Title of qualification awarded	<b>Master of science in the field of Biotechnology</b>
Principal subjects/occupational skills covered	Engineering Science
Name and type of organisation providing education and training	POLITEHNICA University of Bucharest

Dates	<b>2005</b>
Title of qualification awarded	<b>Ph.D in the field of Engineering Science</b>
Principal subjects/occupational skills covered	Engineering science

Name and type of organisation providing education and training

University POLITEHNICA of Bucharest

Dates

**1995**

Title of qualification awarded

**Master of science in the field of Inorganic Chemistry**

Principal subjects/occupational skills covered

Engineering Science

Name and type of organisation providing education and training

University POLTEHNICA of Bucharest

Dates

**1994**

Title of qualification awarded

**Engineer, Bachelor of Engineering Science Degree**

Principal subjects/occupational skills covered

University student in the field of engineering science

**Personal skills and competences**

Mother tongue(s)

**Specify mother tongue: Romanian**

Other language(s)

**English, French, German**

Self-assessment

*European level (\*)*

**English**

**French**

**German**

Understanding		Speaking				Writing			
Listening		Reading		Spoken interaction		Spoken production			
	C1		C2		C2		C1		C2
	B1		B1		B1		B1		B1
	-		-		-		-		-

(\*) *Common European Framework of Reference for Languages*

Social skills and competences

**Organisational skills and competences**

**- Head of Education and Bioethics Commission in Romanian Society of Bioengineering and Biotechnology**

**Technical skills and competences**

Skills and competences in research and training in the fields of engineering science, life sciences, entrepreneurship and modern methods of learning.

**Computer skills and competences**

Proficient user for programs of modeling and statistics , such as:

Fuzzy Tech, Neuronal Networks,

Table Curve 2D; Table Curve 3D, Origin, Student, Anova.

Usual programmes of Mac OS, Windows, for writing, graphics and internet .

**Artistic skills and competences**

**Literature writing**

<b>Other skills and competences</b>	<b>Teaching skills; elaboration of scientific books and literature</b>
<b>Driving licence</b>	<b>Holder of driver licence, B category</b>
<b>Additional information</b>	<ul style="list-style-type: none"> <li>- Evaluator for the Romanian National Research Programme;</li> <li>- Evaluator for the EU PROGRAMME, POSCEE type</li> <li>- Evaluator for HORIZON 2020 Programme,</li> <li>- Evaluator for EUROSTAR Programme</li> <li>- Evaluator for EUREKA Programme</li> </ul> <p><b>Reviewer for:</b></p> <ul style="list-style-type: none"> <li>- Journal of Experimental Pharmacology</li> <li>- International Journal of Nanomedicine</li> <li>-Journal of Clinical and Experimental Oncology</li> <li>- Journal of Hematology Research, USA</li> <li>- Open Access Medical Statistics</li> <li>- Innovation and Entrepreneurship in Health</li> <li>- Research Journal of Educational Studies and Review</li> <li>- Net Journal of Social Sciences</li> <li>- Advances in Medical Education and Practice</li> <li>- Journal of Agricultural Science and Technology A&amp;B</li> <li>- International Journal of Agricultural Policy and Research</li> <li>- International Research Journal of Plant and Crop Sciences</li> <li>- African Journal of Agricultural Research</li> <li>- Chemical Engineering Transaction</li> <li>- Romanian Biotechnological Letter</li> <li>- Asian Food Science Journal</li> <li>- European Journal of Nutrition and Food Safety</li> <li>- European Journal of Medicinal Plants</li> <li>- Annual Research &amp; Review in Biology</li> <li>- Biotechnology Journal International</li> <li>- Plant Cell Biotechnology and Molecular Biology</li> <li>- Journal of Applied Bioinformatics &amp; Computational Biology</li> <li>- International Journal of Applied Microbiology</li> <li>- Current Journal of Applied Science &amp; Technology</li> <li>- African Educational Research Journal</li> <li>- Net Journal of Agricultural Science</li> </ul> <p><b>Annexes</b> See Annex 1 and Annex 2 for books, papers and projects.</p>

**BOOKS**

1. Ana Aurelia Chirvase, Nela Zambila, **Nicoleta Radu**. Manual de prezentare si utilizare a metodologiei de control interfazic si al produsului finit la tehnologia de obtinere a biopreparatelor cu bacterii simbiotice fixatoare de azot. Editura PRINTECH, Bucuresti **2006**. ISBN 973-718-466-1/ 978-973-718-466. Nr. pag:124

2 **Nicoleta Radu**, Ana Aurelia Chirvase, Gabriela Pintilie, Cosmin Corobea, Isabel Ghita, Oana Coman. Nanopreparate terapeutice pe baza de iridoide isolate din specii vegetale indigene. Editura PRINTECH, Bucuresti, **2008**, ISBN 978-606-521-100-1. Nr. pagini: 290

3. **Nicoleta Radu**, Ana Aurelia Chirvase, Narcisa Babeanu, Ovidiu Popa, Misu Moscovici, Nela Zambila, Niculae Dinca. Fezabilitatea produselor biotehnologice cu activitate de biostimulare biofertilizare si antagonism microbial cu aplicatii in agricultura durabila. Editura PRINTECH, Bucuresti, **2008**. ISBN 978-606-521-059-2. Nr. pagini: 104

4. Camelia Ungureanu, Ana Aurelia Chirvase, **Nicoleta Radu**, Adrian Onu, Aurora Salageanu, Mihaela Hilebrand, Ileana Stoica, Felicia Antohe. Manual de prezentare biotehnologii avansate de preparare a unor produse biologice terapeutice de uz uman si de diagnostic cu integrarea unor metode optimizate de asigurare a calitatii si de control, in conformitate cu standardele si normele europene. Editura Politehnica Press, ISBN 978-973-7838-92-6, Bucuresti **2008**; 107 pages

5. BIODIESEL FEEDSTOCKS AND PROCESSING TECHNOLOGIES. Edited by Margarita Stoycheva and Gisela Montero. Ed. Intech, ISBN 978-953-307-713-0, Printed in October **2011**, CROATIA Chapter 20. Progress in egetable Oils Enzymatic Transesterification to Biodiesel-Case Study. Ana Aurelia Chirvase, Luminita Tcacenco, **Nicoleta Radu**, Irina Lupescu , pag. 411-426.

6. **Nicoleta Radu**, Ana Aurelia Chirvase, **2011**. Biotehnologii de obtinere si aplicatii ale biopreparatelor din Monascus sp. Editura Printech, Bucuresti, 2008. ISBN 978-606-521-706, 150 pages

7. Curs de formare: Afaceri in domeniul stiintelor vietii si drepturi de proprietate intelectuala. **Coordonator: Nicoleta Radu**. Editura Printech, Bucuresti, **2015**. ISBN:978-606-23-0439-3. Curs elaborat in cadrul Life Long Learning Programme Leonardo da Vinci; 246 pages

8. Training textbook: Entreprise business and intellectual property on life sciences. **Coordinator: Nicoleta Radu**. Editura Printech, **2015**, Bucharest. ISBN: 978-606-23-0438-6. Training content elaborated in the framework of Lifelong Learning Programme Leonardo da Vinci.:166 pages.

9. Entrepreneuriat et propriete intellectuelle dans le secteur des sciences de la vie. **Coordonnees par Nicoleta Radu**. Edited by Imprimerie Espace Copie **2015**, Bayonne, France. ISBN 978-2-9554817-0-7. Ce contenu de formation a été developpe dans le cadre du Programme europeen d'Education et Formation Tout au Long de la Vie Leonardo da Vinci. Nombre de pages:124.

10. Mokomasis vadovėlis ĮMONIŲ VEIKLA IR INTELEKTINĖ NUOSAVYBĖ GYVYBĖS MOKSLŲ SRITYJE. **Nicoleta Radu – vadovėlio koordinatorė**. Spaustuvė: Kaunas, **2015**, Lithuania. Ši mokomoji

medžiaga yra parengta vykdant Leonardo da Vinči (LdV) programos. Išleido ir spausdino UAB "Vitae Litera". Puslapių skaičius:105.

11. *Head and Neck Cancer*. Published by SMGroup, 160 Greentree Drive, Suite 101, Dover, DE 19904, USA. <http://www.smgebooks.com/head-neck-cancer/index.php>. Printed in **november 2017**. Apoptosis and Autophagy Pathways, A New Therapy Approach in Head and Neck Cancer. Authors: Marinela Bostan, Georgiana Gabriela Petrică-Matei, Răzvan Hainăroșie, **Nicoleta Radu**, Viviana Roman. **Pag.1-9**

12. *New Uses of Micro and Nanomaterials*, Edited by , Marcelo Rubén Pagnola, Jairo Useche Vivero and Andres Guillermo Marrugo .Ed. INTECH, **2018**. Chapter: Polymeric micro and nanosystems for modern and historic wood artifacts preservation. Authors: R. M. Ion; P. Ghioca; L. Iancu; R. Grigorescu, **Nicoleta Radu**. <http://dx.doi.org/10.5772/intechopen.79135>.

13. Nicoleta Radu, Narcisa Băbeanu, Petruța Cornea, Mariana Calin, Luiza Jecu, Iuliana Răut, Ana Maria Gurban, Mihaela Doni. 2020. Paintings characteristics from inside of wooden churches achieved in the period 1750-1850. *Archaeometrical study of selected objectives from Golesti Museum of Viticulture and Pomiculture*. Ruse Press, 2020, pag. 153-158, ISBN 978-619-91466-1-3

## **ANNEX 2.**

### **PAPERS indexed ISI Thomson**

1. **Radu, N.**, Bondar, E., Meghea, A., Rau, I., 2006. Removal cooper and cobalt from diluted aqueous system by bio sorption process. *Revista de Chimie* 7, 711-717, Bucharest, ISSN 0034-7752 . (F.I. =0.287)

2. **Radu, N.**, Lanyi, S., Rau, I., Chirvase, A., 2007. Effect generated by urea interaction with calcium nitrate and calcium dihydrogenophosptae, *Revista de Chimie*, 2,158-162, Bucharest, ISSN 0034-7752 (F.I. =0.261)

3. Dima, G., **Radu, N.**, Chirvase, A., Pena E. L., 2007. Studies regarding using biomass in bioremediation of wastewater with heavy metal. *Rev. Chim.* 58(6), 561-565, Bucharest, ISSN 0034-7752. (F.I. =0.261)

4. **Radu, N.**, Lanyi, S., Meghea, A., 2007. Studies concerning the recovery of nutrient from industrial wastewaters as fertilisers, *Journal of Environmental Protection and Ecology*, 866-874, ISSN 1311-5065 (without F.I)

5. **Radu, N.**, Meghea, A., 2007. Studies concernig the use of microbial biomass by fertilisers manufacture, *Journal of Environmental Protection and Ecology*, p.875-890 ISSN 1311-5065 (without F.I)

6. M.Ferdes, C.Ungureanu, **N.Radu**, A. Chirvase 2009. Antimicrobial effect of *Monascus sp* red rice against some bacterial and fungal strains. *Chemical Engineering Transaction* ISSN 197-9791, vol. 17, p. 1089-1094 (without F.I.).

7. C.Ungureanu, M.Ferdes, A.Chirvase, **N.Radu**, 2009. Study of relationship concerning the pigment production and growth rate for five mutant strains of *Monascus sp*. *Chemical Engineering Transaction* , ISSN 197-9791, vol. 17, p. 1149-1154 (without I .F.)

**8. Nicoleta Radu**, Cosmin Corobea, Ileana Rau, 2009. New Nano biomaterials based on irridoidic compounds. *Nanobiosystems: Processing, Characterization, and Applications II*. Vol. 7403, 74030Q, ISBN: 9780819476937. (without I.F)

**9. Nicoleta Radu**, Isabel G. Cristescu, Dragomir Coprean, Ileana Rau, 2009. Biological properties of nanomaterials based on irridoidic compounds, *Nanobiosystems: Processing, Characterization, and Applications II, Proceeding SPIE* Vol. 7403, 74030R, ISBN: 9780819476937. (without I.F)

**10. Radu, N**; Ghita, I; Caloian, F, Ileana Rau, 2010. Biopigments, Obtaining and Properties. *Mol. Cryst. Liq. Cryst.*, ISSN 1542-1406 Volume: 523, p. 1-10. (I.F=0.543)

**11. Radu, N**; Ghita, I; Rau, I., 2010. Therapeutic Effect of Polysaccharides from Plantago Species. *Mol. Cryst. Liq. Cryst.*, ISSN 1542-1406 Volume: 523, p. 236-246. (I.F=0.543)

**12. Radu, N**; Ghita, I; Coman, O, Rau I. 2010. Therapeutic Effect of Flavonoids Derived from Plantago Species, *Mol. Cryst. Liq. Cryst.*, ISSN 1542-1406, Volume: 523, p. 273-281. (I.F=0.543)

**13. Radu, N**; Ghita, I; Rau, I., 2010. Therapeutic Effect of Irridoidic Compounds from Plantago Species, *Mol. Cryst. Liq. Cryst.*, ISSN 1542-1406, Volume: 523, p. 289-296. (I.F.=0.543)

**14. Chirvase A., Ungureanu, C., Tcacenco, L., Radu, N.**, 2010. Determination of yeast strains characteristics as lipase providers for enzymatic trans esterification to biodiesel. *Rev. Chim.*, vol. 61, nr.9, pp. 866-868, ISSN 0034-7752.(I.F= 0.693)

**15. Radu, N.**, Badea M.N., Ferdes M., Rau I., 2012. Antioxidant Properties of Fungal Biomaterial. *Mol. Cryst. Liq. Cryst.*, ISSN 1542-1406, vol.555, pp. 202-207. (I.F=0.53)

**16. Radu, N.**; Doncea S.; Ferdes M.; Salageanu A. Rau, I., 2012. Biostimulatory Properties of Monascus sp. Bioproducts. *Mol. Cryst. Liq. Cryst.* ISSN 1542-1406, vol.555, pp.195-201. (F.I.=0,53)

**17. Radu N.**; Salageanu, A.; Ferdes; Rau, I. **2012**. Cytotoxicity Study Regarding Some Products Derived from *Monascus sp.*, *Mol. Cryst. Liq. Cryst.*, ISSN 1542-1406, vol.555, pp.189-194 (F.I.=0,53)

**18. Nicoleta Radu**, Ana Aurelia Chirvase, Narcisa Babeanu, Ovidiu Popa, Renata Steponaviciene, Fantxoia Hastaran, **2014**. Modern learning system and improved curricula for education management in life sciences, to promote the business enhancement, **Agro Life Scientific Journal** 3,(1), 116-119, ISSN 2285-5718.

**19. Nicoleta RADU**, Ana Aurelia CHIRVASE, Narcisa BABEANU, Ovidiu POPA, **2015**. Educational management in the field of life sciences – blending learning for bioentrepreneurs training. *SCIENTIFIC PAPERS SERIES MANAGEMENT, ECONOMIC ENGINEERING IN AGRICULTURE AND RURAL DEVELOPMENT* VOL. 15, ISSUE 2, 301-304 ISSN 2284-7995.

**20. Nicoleta RADU**, Ana Aurelia CHIRVASE, Narcisa BABEANU, Ovidiu POPA, **2015**. Educational management in the field of life sciences - key competences needed to start and develop the innovative sme's. **Scientific papers series management, economic engineering in agriculture and rural development**, VOL. 15, ISSUE 2, 297-300, ISSN 2284-7995.

**21. Nicoleta Radu**, Viviana Roman & Ciprian Tănăsescu, **2016**, Biomaterials obtained from probiotic consortia of microorganisms. Potential applications in regenerative medicine, *Molecular Crystals and Liquid Crystals*, 628:1, 115-123. (IF =0,571)

22 **Nicoleta Radu**, Aurora Salageanu & Ciprian Tănăsescu, **2016**. Studies regarding the mechanisms involved in tissue regeneration, due to application of biomaterials obtained via biotechnology, *Molecular Crystals and Liquid Crystals*, 628:1, 204-212. (I.F. = 0.571).

23. **Nicoleta Radu**, Mihai Cosmin Corobea, Oana Andreia Coman & Ciprian Tanasescu **2016** Nanomaterials with antioxidant properties, obtained via biotechnology, using the solid state biosynthesis, *Molecular Crystals and Liquid Crystals*, 627:1, 210-219 (I.F.=0,571).

24. **Nicoleta Radu**, Viviana Roman, Marinela Bostan, Mariana Voicescu, Ciprian Tanasescu, **2017**. Bioproduct obtained from probiotic microorganisms consortia-studies regarding the effects generated in vitro on two types of leukemic cell lines. *Molecular Crystals and Liquid Crystals*, 655:1, 655, 275-286. (I.F. =0,633)

25. **Nicoleta Radu**, Viviana Roman, Marinela Bostan, Mariana Voicescu & Ciprian Tanasescu, **2017** Effects of biomaterials obtained from consortia of probiotic microorganism in submerged biosynthesis on THP1 cells line. *Molecular Crystals and Liquid Crystals*, 655:1, 255-265. (I.F. =0,633)

26. **Nicoleta Radu**, Mariana Voicescu, Elena Radu & Ciprian Tanasescu, **2017** Biomaterial with antioxidant and antifungal activities, obtained from romanian indigenous plants, *Molecular Crystals and Liquid Crystals*, 655:1, 243-249(I.F. =0.633)

27. **Nicoleta Radu**, Viviana Roman, Marinela Bostan, Elena Radu & Ciprian Tanasescu **2017** Influence of some spice food based bioproducts on human monocytic cells line type THP-1, *Molecular Crystals and Liquid Crystals*, 655:1, 114-123. (I.F. =0.633)

28. **Nicoleta Radu**, Mariana Voicescu, Elena Radu & Ciprian Tanasescu **2017** *Zingiber officinale* based bioproduct. Properties and influence on some cellulolytic and keratinolytic fungi, *Molecular Crystals and Liquid Crystals*, 655:1, 103-113. (I.F. =0.633)

29. Anton, Adina-Mirela, Rau, Ileana, Kajzar, Francois, Simion, Alina-Marieta, Pirvu, Cristian, **Radu, Nicoleta**, Simion, Cristian. Natural materials with enhanced optical damage threshold. *Optical Materials*. Dec. 2018, Vol. 86, p1-6 (I.F =2.69) .

30. **Radu N.** Chirvase, A. A.; Babeanu N.; Popa O.; et all,. **2018**, Education management in the field of life sciences-skills needed to start and develop an innovative SME Scientific Papers, Series Management, Economic Engineering In Agriculture And Rural Development, ISSN 2284-7995.Vol. 18 Issue 2, p.375-381.

31. Ana-Alexandra Sorescu, Alexandrina Nuță, Rodica-Mariana Ion, Sabina Georgiana Nițu, **Nicoleta Radu**, Sofia Teodorescu "Complex nanoconjugate materials obtained from eco-friendly gold and silver nanoparticles and zinc phthalocyanine derivatives", Proc. SPIE 10977, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies IX, 109770H (**31 December 2018**); doi: 10.1117/12.2324928; <https://doi.org/10.1117/12.2324928>.

32. **Nicoleta RADU**, Ana Aurelia CHIRVASE, Narcisa BABEANU, Mihaela BEGEA. 2019. Entrepreneurship in the field of life sciences: the personal skills needed to start an innovative SME. Scientific Papers Series anagement Economic Engineering in Agriculture and Rural Development, vol.19, (2) 375-379.

33. Marinela Bostan, Georgiana Gabriela Petrică-Matei Gabriela Ion, **Nicoleta Radu**, Mirela Mihăilă, Răzvan Hainăroșie, et all.2019. Cisplatin effect on head and neck squamous cell carcinoma cells is modulated by ERK1/2 protein kinases. *Exp Ther Med.*; 18(6), 5041–5051. I.F 1.448.



34. M. Caramihai, **N. Radu\***, M. Bostan,, G. Ion, A. A. Chirvase, M. Constantin, M. Doni, N. Babeanu. 2019.Fuzzy Predictions Regarding In Vitro Behavior of Cells Line Under Cytostatic Treatment. *IEEE Xplore*, 27 January 2020, p 1-5. Electronic ISSN: 2575-5145, Print on Demand (PoD) ISSN: 2575-5137. **I.F. 4.463** . DOI: [10.1109/EHB47216.2019.8970088](https://doi.org/10.1109/EHB47216.2019.8970088)
35. M. Bostan, **N.Radu\***, N.Babeanu, M.G.Zaharie, C.A.H.Tanasescu, 2020. Biological properties of biomaterial obtained from *syzygium aromaticum*. *Molecular Crystals and Liquid Crystals*,accepted, in press, (I.F: 0.56).
36. V. Roman, **N.Radu\***, M.Bostan, O.Popa. C.A.H.Tanasescu, 2020. Effect of melaleuca alternifolia bioproduct on acute monocytic leukemia cells line. *Molecular Crystals and Liquid Crystals*, accepted, in press (I.F: 0.56).
37. **N. RADU**, M. BEGEA\*, O.POPA. 2020. Risk assessment regarding pollution with nutrients on the surface water due to use of fertilizers with microbial biomass. *Journal of Environmental Protection and Ecology*, ISSN 1311-5065 , accepted, in press. (I.F: 0.7)
38. M. Begea, **N. Radu\***, N. Babeanu. 2020. Impact generated in the soil and vegetables due to using the fertilizers with microbial biomass. *Journal of Environmental Protection and Ecology*, ISSN 1311-5065, accepted, in press. (I.F: 0.7).
39. Radu, N.; Chirvase, A.A.; Babeanu, N.; Popa, O.; Cornea, P.; Pirvu, L.; Bostan, M.; Ciric, A.; Mathe, E.; Radu, E.; Doni, M.; Constantin, M.; Raut, I.; Gurban, A.M.; Begea, M. Study Regarding the Potential Use of a Spent Microbial Biomass in Fertilizer Manufacturing. *Agronomy* **2020**, *10*, 299. <https://doi.org/10.3390/agronomy10020299> (I.F.:
40. **Nicoleta RADU**, Ana Aurelia CHIRVASE, Narcisa BABEANU, Mihaela BEGEA. 2020. Studies regarding personal skills needed in entrepreneurship- case study in France, Lithuania and Romania. *Scientific Papers Series anagement Economic Engineering in Agriculture and Rural Development*, 20(2), 403-408.
41. Bostan, M.; Petrică-Matei, G.G.; **Radu, N.**; Hainarosie, R.; Stefanescu, C.D.; Diaconu, C.C.; Roman, V. The Effect of Resveratrol or Curcumin on Head and Neck Cancer Cells Sensitivity to the Cytotoxic Effects of Cisplatin. *Nutrients* **2020**, *12*, 2596. <https://doi.org/10.3390/nu12092596> (I.F.:2.603) 4.546)
42. Ioan, D.-C.; Rău, I.; Albu Kaya, M.G.; **Radu, N.**; Bostan, M.; Zgârian, R.G.; Tihan, G.T.; Dinu-Pîrvu, C.-E.; Lupuliasa, A.; Ghica, M.V. Ciprofloxacin-Collagen-Based Materials with Potential Oral Surgical Applications. *Polymers* **2020**, *12*, 1915. <https://doi.org/10.3390/polym1209191> (I.F.: 3.426)

## PAPERS INDEXED BDI

1. Stoica, L, Jitaru, I., **Radu N.** 1999, Removal and Recovery of Phosphate Anions from Wastewater by Flotation Technique, *Phosphorus Research Bulletin*, 10, 466 - 474, France, ISBN 0-444-98880-7 (indexed Scopus, INSPEC, Google Scholar).
2. Stoica L. **Radu N.**, Lanyi Sz., **2004**, Removal of phosphate anions from heterogeneous systems by precipitation - flocculation-flotation. *In: Science and Technology for Environmental Protection*. Vol. 11. No. 2. p. 108-119. **(Indexed Google Scholar)**

3. **Radu, N.**, Rau, I., Marica, E., Meghea, A., 2004. Environmental impact by nutrients recovering from industrial effluents, *Journal of Environmental Protection and Ecology* Vol. 5, no 3, ISSN 1311-5065 (I.F 0.168).
4. Stoica L. **Radu N.**, Lanyi Sz., 2004, Study concerning the separation of phosphate anions from diluted aqueous systems in the presence of transition metals, *Material Science Bull.* 66. p. 39-50 (**Indexed Scopus**).
5. **Radu, N.**, Nedelcu, G., Meghea, A., Sandru, L. 2004. Characteristics of calcium phosphate isolated by molecular flotation. *Analele ASAS-ICPP*, Bucharest, 33, ISSN 0365-575X;
6. **Radu, N.**, Meghea, A., Marica e., Sandru L, Bondar, E., 2005. Studies regarding biological effect generated by some fertilisers with microbial biomass, Edited by AISTEDA, Bucuresti, 34, ISBN 973-8408-121.
7. Stamatina, L., **Radu, N.**, Ghita, I., Dima, G., Coman, O.A., 2005. Study concerning antibacterial effect ,in vitro" of some extract from Plantago sp. Edited by AISTEDA, Bucharest, 34, ISBN 973-8408-12-1
8. 7.Zambila, **N., Radu**, N., Chirvase, A.A., Marica, E. 2005. Biofertilisers with nitrogen fixing bacteria on organomineral support, Edited by AISTEDA, 13, Bucharest, ISBN 973-8408-12-1.
9. Oana Andreia Coman, Isabel Ghita, Manole Claudia, Manureanu Narcisa, Spanu Iuliana, **Nicoleta Radu**, Ana Segarceanu, Ion Fulga, 2005. Experimental study on analgesics and sedative effects of polysaccharide extract of some extract derived from Plantago sp., Edited by AISTEDA,13, Bucharest, ISBN 973-8408-12-1, 2005
10. Nela Zambila, **Nicoleta Radu** Ana Aurelia Chirvase, 2006, Biotehnologie durabila:Obtinerea biopreparatelor cu bacterii simbiotice fixatoare de azot, Edited by AISTEDA, Bucharest, ISBN 10: 973-8408-29-6; ISBN 13: 978-973-8408-29-6
11. **Nicoleta Radu**, Ana Aurelia Chirvase, Nela Zambila, Elena Bucur, Lucia Sandru, 2006, Study regarding the effect of biofertilisers with N-fixing bacteria to different soil biocenosis Edited by AISTEDA, Bucharest, ISBN 10: 973-8408-29-6; ISBN 13: 978-973-8408-29-6
12. Coman, O., Ghita, I., **Radu. N.**, Dima, G., Pintilie, G., Fulga, I., 2006, Plantain (Plantago sp.) Used in traditional medicine, chemical constituents and biological activities. *Medicina Moderna*, 3, 152-154, ISSN 1223-047 (**Indexed Medline**)
13. **12.Radu, N.**, Chirvase, A.A., Caramihai, M., Sandru, L, Bucur, E., Nedelcu G., 2006, Study regarding some property of fertilisers with microbial biomass. *ANALELE ASAS-ICPP*, Bucharest, ISSN 0365-575X
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## COMMUNICATION PRESENTED AT INTERNATIONAL / NATIONAL CONFERENCE

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30. **Nicoleta Radu\*** Ana Aurelia Chirvase , Narcisa Babeanu, Fantxoă Hastaran , Birute Velykiene. **KEY COMPETENCES NEEDED TO START AND DEVELOP THE INNOVATIVE SME'S IN THE FIELD OF LIFE SCIENCES.** Section: Environment engineering and protection of cultural heritage, International Symposium Priorichem, October, 2015, Bucharest, Romania

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## COMMUNICATION PRESENTED AT NATIONAL (ROMANIAN) CONFERENCE

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**23.** C. Ungureanu, A. A. Chirvase, M. Caramihai, **N. Radu**, The intelligent modelling of biotechnologies for the human bio therapeutics preparation. International Symposium on Chemistry for sustainable development priorities PRIORICHEM, Abstract works, p. 88, ISBN 978-973-0-06996-9, 29-30 October, **2009**, Sinaia, Romania.

**24.** Ana Aurelia Chirvase, Luminita Tcacenco, Elena Berteanu, Irina Lupescu, **Nicoleta Radu**, Stela Popovici. Biocatalysts for transesterification of vegetable oils to biodiesel. National Symposium with international participation. PRIORITIES OF CHEMISTRY FOR A SUSTAINABLE DEVELOPMENT PRIOCHEM October 28 to 29, 2010 Bucharest, ROMANIA

## INVENTION PATENTS

1. Aurelia Meghea, **Nicoleta Radu**, Ileana Brandusa Rau, E. Marica, Sandru Lucia. Fertilizers with microbial biomass. Patent no. 121557/2007, Romania

2. R.M.Ion, N.Ion, L.Iancu, **N.Radu**. Compozitie antifungica pentru restaurarea / conservarea artefactelor de lemn si procedeu de folosire. Patent Request no. **A 2019 - 00054/31.01.2019**, OSIM, Romania

## AWARDS

**1. CNCSIS prize** for the Patent entitled "Fertilizers with microbial biomass". Patent no. 121557/2007, Romania. Authors: A. Meghea, **N. Radu**, I. Rau, E.Marica, L. Sandru.

**2. Gold Medal** awarded to Patent request entitled "Compozitie antifungica pentru restaurarea / conservarea artefactelor de lemn si procedeu de folosire". Authors: R.M.Ion, N.Ion, L.Iancu, **N.Radu**. PROINVENT, Editia XVII, **20-22 Martie 2019, Cluj Napoca;**

**3. Silver Medal** awarded to Patent request entitled: "Antifungal Composition for restoration/prevention of wood artifacts and methods to use". Authors: R.M.Ion; N.Ion; L. Iancu; **N.Radu**. EUROINVENT, 11 Edition, European Exhibition of Creativity and Innovation, 18 May, 2019, Iasi, Romania.

**4. CNCSIS prize** for Article entitled: Studies concernig the use of microbial biomass by fertilisers manufacture, Published in *Journal of Environmental Protection and Ecology*. Authors: **Radu, N.**, Meghea, A.

**5. CNCSIS prize** for Article entitled: Studies regarding using biomass in bioremediation of wastewater with heavy metal. Published in : Rev. Chim. Authors: Dima, G., **Radu, N.**, Chirvase, A., Pena E. L.

**6. CNCSIS prize** for Article entitled: Studies concerning the recovery of nutrient from industrial wastewaters as fertilisers, Published in: *Journal of Environmental Protection and Ecology*, Authors: **Radu, N.**, Lanyi, S., Meghea, A.

**7. UEFISCDI prize** for Article entitled: Natural materials with enhanced optical damage threshold. Published in: *Optical Materials*. Authors: Anton, Adina-Mirela; Rau, Ileana; Kajzar, Francois; Simion, Alina-Marieta; Pirvu, Cristian; **Radu, Nicoleta**; Simion, Cristian.

**PROJECT MANAGER/HEAD OF PROJECT IN NATIONAL/INTERNATIONAL  
RESEARCH PROJECT**

<b>PROJECT IDENTIFICATION</b>		<b>FUNCTION</b>	<b>PERIOD</b>
C1	Contract no. 152/1996-1997. Study to obtaining the greenhouse fertilizers. Beneficiary: Romanian Ministry of Research and Technology.	HEAD OF PROJECT partner IITPIC Bucharest	1995-1997
C2	Contract no. 152/1996, Ad.40/1997. Study regarding resized equipment for superphosphate factory in order to modernizing Beneficiary: Romanian Ministry of Research and Technology.	HEAD OF PROJECT partner IITPIC Bucharest	1996-1997
C3	Contract no. 126/46/1997. Technical data regarding pollutants emission from Romanian inorganic industry Beneficiary: ICPEAR Bucharest, Romania	HEAD OF PROJECT partner IITPIC Bucharest	1997
C4	Contract no. 100/3006/1997. Environmental balance with petrochemical distribution station. Beneficiary: S.C. WINEX S.A OLT	PROJECT MANAGER IITPIC Bucharest	1997
C5	Contract no. 013/222/1997 Ecological installation with superphosphate factory. Beneficiary: S.C. NITRAMONIA S.A Fagaras, Romania.	PROJECT MANAGER IITPIC Bucharest	1997
C6	Contract no. 100/3109 1998. Environmental balance with level I and II. Beneficiary: ELECTROCARBON SLATINA, Romania.	PROJECT MANAGER IITPIC Bucharest	1998
C7	Contract no. 6122 GR / 2000-2001 Study regarding phosphorus removal and recovery from aqueous water. Beneficiary: Romanian Ministry of Research and Technology. Value: 4.850 €	PROJECT MANAGER IITPIC Bucharest & University Politehnica of Bucharest	2000-2001
C8	Contract no. PN.04.39.01.03./2004. Contract BIOTECH no 063/2001. Biofertilizers based on sub products resulted from antibiotics factory. Beneficiary: Romanian Ministry of Research and Technology. Value: 96.643 €	PROJECT MANAGER I.N.C.D.C.P. Bucharest	2001-2004
C9	Study regarding environmental impact generated of nutrient removal from industrial wastewater. Beneficiary: Romanian Ministry of Research and Value: 18.276 €	PROJECT MANAGER I.N.C.D.C.P. Bucharest	2004-2005
C10	Contract BIOTECH no 4597/2004. Fungal biomass used in wastewater bioremediation. Value 39.164 €	PROJECT MANAGER I.N.C.D.C.P. Bucharest	2004-2007

C11	Contract CEEEX no 6/2005. Advanced biotechnology to obtaining therapeutic bio product applied GMP rules. Beneficiary: Romanian Ministry of Research and Technology. Value: 26.316 €	HEAD OF PROJECT partner I.N.C.D.C.P. Bucharest	2005-2008
C12	Innovative biotechnology used to obtain therapeutic nano products with <i>Monascus sp.</i> Contract no. PN II 62-070. Beneficiary: Romanian Ministry of Research and Technology. Contracting Value: 500.000 €	PROJECT MANAGER I.N.C.D.C.P. Bucharest	2008-2011
C13	Biotechnology for obtaining biostimulators products, organic fertilizers and microbial antagonists. Beneficiary: National Authority of Research and Education. Contract no <b>PN 09.09.01.04 /2012 . Contracting value : 203.260 €</b>	HEAD OF PROJECT I.N.C.D.C.P. Bucharest	2012
<b>KEY PERSON / SCIENTIST AT INTERNATIONAL PROJECT</b>			
I1	Contract no.214/2001. Unconventional method applied to wastewater metal depollution. International Research grant between Politehnica University of Bucharest - Univ. Thessaloniki, Greece.	KEY PERSON	2001
I2	Contract EUREKA no. E 3100/CAWB/2004-2005. Immobilized biofilm used at organic charge removal from wastewater.	KEY PERSON	2004-2005
I3	Contract EUREKA no. PN-III-P3-3.5-EUK- 2017-D-0111 MALTFLOURS! Innovative composite flours to improve the nutritional quality of fortified bakery products .	KEY PERSON	2020-2022
I4	Pilot project nr. RO/B/F/PP 141028 December 2000-February 2004. Euro competencies Transfer in Vocational Guidance for Young Specialists in Bioscience Field.	Scientist	2001-2004
I5	Project nr. 2013-1-RO1-LEO05-28758. IMPROVED CURRICULA AND MODERN LEARNING SYSTEM TO PROMOTE THE NEW DIRECTIONS OF BUSINESS ENHANCEMENT IN LIFE SCIENCES APPLICATIONS	KEY PERSON	2013-2015
I6.	Project no 2019-1-RO01-KA203-063773 . Creating Virtual Reality e-resources for European Sustainable Education in circular bio economy with bio-based products CYRUS	KEY PERSON	2019-2021

<b>SCIENTIST / KEY PERSON IN NATIONAL ROMANIAN PROJECT</b>			
M1	Contract no. B4 849 / 1999 -2000. Restructuring strategy for the chemical-fertilizer sub-branch.; Beneficiary: Ministry of Industry and Trade	KEY PERSON	2000
M2	Contract RELANSIN no. 500/13.01.2000. Harmonization of Romanian standards to EU legislation, fertilizer sub-branches" Beneficiary ANSTI, SC AZOMURES SA Targu Mures, S.C. TURNU SA Turnu Magurele	KEY PERSON	2000
M3	Contract funding 886/18.09.2000. New technologies for obtaining PERFORMANT solid fertilizers - Beneficiary: ANSTI, S.C. S.A AZOMURES Targu Mures, S.C. S.A TURNU Turnu Magurele	KEY PERSON	2000-2001
M4	ANSTI-MEC contract no. 495/2001-2002. Unconventional methods of remediation regenerative aqueous systems contaminated with anions and their exploitation in the form of oxides or salts. Beneficiary: Ministry of Research	KEY PERSON	2001-2002
M5	AMCSIT Contract no. 884/2000. Advanced technologies for sulfur fertilizer in order to ensure soil soluble sulfur. Beneficiary: Ministry of Research	Scientist	2000-2002
M6	BIOTECH Contract 015/2001: Getting therapeutic dermatology acting pharmaceuticals using plants from Cruciferae family. Beneficiary:	Scientist	2001-2004
M7	BIOTECH Contract no 016 / 2001. Total recovery of Seabuckthorn ( <i>Hippophae rhamnoides</i> ) by unconventional methods. Beneficiary: Ministry of Research	Scientist	2001-2004
M8	VIASAN Contract no 124/2004. Getting the new generation of bioproduct based on <i>Plantago sp.</i> <i>Beneficiary:</i> Ministry of Research	KEY PERSON	2004-2006
M9	CEEX Contract no. 27/2005. Activity of biostimulation, biofertilisation and microbial antagonism of biotechnological products with applications in sustainable agriculture. Beneficiary: Ministry of Research	KEY PERSON	2005-2008

M10	BIOTECH Contract no. 4600/2004. Process control and final product at obtaining of biofertilisers with nitrogen-fixing symbiotic bacteria. Beneficiary: Ministry of Research	KEY PERSON	2004-2007
M11	CEEX Contract no. 177/2006. Therapeutic nanoproducts based on iridoids isolated from native species of plant Beneficiary: Ministry of Research.	KEY PERSON	2006-2009
M12	PN II- Contract no. 61-028/2007. Obtaining products with hypoglycemic activity. Beneficiary. Ministry of Research	KEY PERSON	2007-2010
M13	PNCDI I -Contract no. 61-032. Development of advanced systems for biocatalytic transesterification of vegetable oils to biodiesel. Beneficiary: Ministry of Research	KEY PERSON	2007-2010
M14	PNCDI II - Contract no. 62-051. Intelligent control decision based on multicriterial advanced algorithms and applied at the preparation of therapeutic bio products for human use. Beneficiary: Ministry of Research	KEY PERSON	2008-2011
M15	Contract no 34N. Biotechnological use of industrial animal waste substrates using the biodegradation properties of keratinolytic microfungi. Beneficiary UEFISCDI.	Scientist	2016-2017
M16	Project 22BG. Valorisation in agriculture of by-products resulting from the baker yeast manufacture.	Scientist	2016-2018
M17	Contract no. 51PCCDI/2018. Project code" PN-III-P1-1.2-PCCDI-2017-0476 New diagnosis and treatment technologies for the conservation and revitalization of archaeological components from national cultural heritage- ARHEOCONS	KEY PERSON	2018-2020
M18	Contract no PN 1822 0401/2018 Next CHEM. Synergistic architectures with nanomaterials for the retention and destruction of drug wastes. Beneficiary: UEFISCDI.	Scientist	2018
M19	Program ChemErgent Advanced Chemistry for Innovative and Emerging Technologies. Nanotechnologies with Applications in Monitoring and Environmental Protection. Beneficiary: UEFISCDI.	Scientist	2019-2022
M20	SECTORIAL PROJECT: Innovative methods and techniques for evaluating interventions of conservation and restoration, preservation and monitoring of traditional constructions in Romania.	KEY PERSON	2019-2020
21	PN III Strategii biotehnologice pentru materiale de constructii inovative ce incorporeaza un bioprodus bacterian	Scientist	2021-2022

Februarie 2021

Signature: *N. Radu*