

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s)

Nicoleta Gabriela HĂDĂRUGĂ

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E-mail

nico hadaruga@yahoo.com

Romanian Nationality

Date of birth

October 1971

Female Gender

Desired employment / Occupational field Banat's University of Agricultural Sciences and Veterinary Medicine, Timisoara **Associate Professor Doctor Engineer**

Work experience

Dates

2008 to present

Occupation or position held

Associate Professor Dr. Eng.

Vice-Dean of the Faculty of Agroalimentary Products Technology, Banat's University of Agricultural

Sciences and Veterinary Medicine of Timişoara (from 2012)

Main activities and responsibilities

Courses: Quality control of vegetable food products, Bioflavors, Natural extracts and additives, Adultering legislation and evaluation in food industry

Scientific secretary of the Faculty of Agroalimentary Products Technology (2008-2012)

Name and address of employer

Banat's University of Agricultural Sciences and Veterinary Medicine of Timisoara. Calea Aradului 119. 300645-Timisoara; Faculty of Agroalimentary Products Technology; Department of Food Science

Type of business or sector

Higher education

Dates

Dates

2005 - 2008

Occupation or position held

Assistant Professor Dr. Eng.

Main activities and responsibilities

Courses: Quality control of vegetable food products, Flavors and flavor systems, Bioflavors Experimental practice coordinator: Quality control of vegetable food products, Flavors and flavor

systems, Bioflavors

Department coordinator: The Quality Evaluation in University Education

Name and address of employer

Banat's University of Agricultural Sciences and Veterinary Medicine of Timisoara, Calea Aradului 119, 300645-Timisoara; Faculty of Agroalimentary Products Technology; Department of Agroalimentary Products Control and Expertise

Higher education

Type of business or sector

1999 - 2005

Occupation or position held

Teaching Assistant Eng.

Main activities and responsibilities

Courses: Flavors and Flavor Systems, Bioflavors

Experimental practice coordinator: Quality control of vegetable food products, Quality control of natural food extracts and additives, Flavors and flavor systems, Spices and spice systems, Bioflavors, Isolation of bioactive compounds from plants, Technology of food additives, Meat and meat products technology, Food products rheology, Food physics

Name and address of employer

Banat's University of Agricultural Sciences and Veterinary Medicine of Timişoara, Calea Aradului 119, 300645-Timişoara; Faculty of Agroalimentary Products Technology; Department of Agroalimentary Products Control and Expertise

Type of business or sector

Higher education

Education and training

Dates 2005

Title of qualification awarded

Ph.D. (in Engineering Sciences / Chemical Engineering)

Principal subjects/occupational skills

Protection and controlled release of bioactive compounds (Scientific promoter: Prof. Dr. Eng. Alfa Xenia LUPEA)

Name and type of organisation providing education and training

"Politehnica" University of Timişoara (IOD)

Level in national or international classification

ISCED5

Dates

1998-1999

Title of qualification awarded

Master of Science (M.Sc.)

Principal subjects/occupational skills covered

Speciality: Natural Extracts and Additives

Name and type of organisation providing education and training

Banat's University of Agricultural Sciences and Veterinary Medicine of Timişoara, Calea Aradului 119,

Level in national or international classification

ISCED5

Dates

1993-1998

Title of qualification awarded

Bachelor of Science (B.Sc.)

Principal subjects/occupational skills covered

Speciality: Agroalimentary Products Technology

Name and type of organisation providing education and training Level in national or international

Banat's University of Agricultural Sciences and Veterinary Medicine of Timişoara, Calea Aradului 119, 300645-Timişoara; Faculty of Agroalimentary Products Technology

300645-Timişoara; Faculty of Agroalimentary Products Technology

ational ISCED5

classification

Dates 1991-1993

Title of qualification awarded

Technical Designer

Principal subjects/occupational skills covered

Speciality: Design of Leather Goods and Relatives

Name and type of organisation providing education and training

Highschool of Textile Industry of Timişoara

1991

Title of qualification awarded

Software operator

Principal subjects/occupational skills

Speciality: Operating on computer systems IBM PC/XT/AT

Name and type of organisation providing education and training

Young People House of Timişoara

Dates

1986-1990

Title of qualification awarded

Highschool Diploma

Principal subjects/occupational skills covered

Speciality: Electrotechnics

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Name and type of organisation providing education and training

Industrial Highschool of Baia de Aries, Alba

Personal skills and competences

Mother tongue(s)

Romanian

Other language(s)
Self-assessment

European level (*)

English German

Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production		
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user

(*) Common European Framework of Reference for Languages

Social skills and competences

Dynamic communicator with good teaching, mentoring, relationship-building, and problem-solving abilities

Organisational skills and competences

Organizing, coordination, and management skills:

- scientific research programs, organizing of scientific conferences
- scientific coordination of licence and master theses
- research and didactic labs in the university agroalimentary field

Technical skills and competences

- experience in isolation, purifying, and semisynthesis of odorant/flavoring compounds, natural compounds and natural systems with biological activity
- nanoencapsulation of bioactive compounds and systems in cyclodextrins and liposomes
- advanced physico-chemical analyses (GC-MS/FID chromatography, HPLC-UV-VIS/DAD/RI chromatography, UV-VIS spectrophotometry, thermal analyses TG/DTG/DSC, Karl Fischer analysis etc.)

Computer skills and competences

- Microsoft Windows (Windows 7, Vista, XP, 2000) operating systems
- Microsoft Office (Word, Excel, Power Point, Visio)
- Adobe Acrobat package
- Advanced chemistry programs (ISIS Base&Draw, Chem Office, ACD, HyperChem packages)
- Instrumental data acquisition programs (GC-MS intruments, HPLC Chemstation and ChromPass, Lambda 25, UV-Vis Analyst etc.)
- Statistical programs (Statistica, TableCurve, Origin, The Unscrambler packages)
- WEB browsers

Artistic skills and competences

- Fashion design, shoes, and leather goods design
- Computer aided design
- Painting

Other skills and competences

- Music, travels, literature

Driving licence

Category B

Additional information

Editor-in-Chief:

Journal of Agroalimentary Processes and Technologies (Agroprint - Timişoara)

Reviewer

Journal of Inclusion Phenomena and Macrocyclic Chemistry (Springer) International Journal of Food Properties (Taylor & Francis)

Member of national scientific societies/professional affiliation:

- 1) The Romanian Chemistry Society, 2004 to present
- 2) The Association for Multidisciplinary Research from the West Side of Romania, 2000 to present
- 3) Association of Food Industry Specialists from Romania (ASIAR), 2009 to present

Book chapters (foreign publishers):

- 1) Clemons, P.A.; Olah, M.; Rad, R.; Ostopovici, L.; Bora, A.; **Hădărugă, N.G.**; Hădărugă, D.; Moldovan, R.; Fulias, A.; Mracec, M.; Oprea, T.I., Expanding the Genetic Code. Chemical Informatics; In: *Chemical Biology: From Small Molecules to Systems Biology and Drug Design*, Wiley-VCH, New York, 2007, pp. 723-788, ISBN-10: 3527311505, ISBN-13: 9783527311507
- 2) Olah, M.; Mracec, Maria.; Ostopovici, Liliana; Rad, Ramona; Bora, Alina; **Hădărugă, Nicoleta G.**; Olah, Ionela; Banda, Magdalena; Simon, Z.; Mracec, M.; Oprea, T.I., "WOMBAT: World of Molecular Bioactivity". In: Oprea, T.I. (ed.), *Cheminformatics in Drug Discovery*, Wiley-VCH, New York, 2004, pp. 223-239, ISBN 978-3-527-30753-1

Journal articles - selection (ISI foreign publishers):

- 1) Hădărugă, N.G.; Hădărugă, D.I.; Isengard, H.-D., Water content of natural cyclodextrins and their essential oil complexes: a comparative study between Karl Fischer titration and thermal methods, Food Chemistry 2012, 132(4), 1651-1659, doi: 10.1016/j.foodchem.2011.11.003 (ISI 3.655) 2) Hădărugă, D.I.; Hădărugă, N.G.; Bandur, G.; Isengard, H.-D., Water content of flavonoid/cyclodextrin nanoparticles: relationship with the structural descriptors of biologically active compounds, Food Chemistry 2012, 132(4), 1741-1748, doi: 10.1016/j.foodchem.2011.06.004 (ISI 3.655)
- 3) **Hădărugă**, **N.G.**; Hădărugă, D.I.; Isengard, H.-D., "Surface water" and "strong-bonded water" in cyclodextrins: a Karl Fischer titration approach, *Journal of Inclusion Phenomena and Macrocyclic Chemistry* **2012**, *Online First*, doi: 10.1007/s10847-012-0143-7; ISSN (Print): 0923-0750, ISSN (Online): 1573-1111 (ISI 1.886))
- 4) Riviş, A.; **Hădărugă, N.G.**; Gârban, Z.; Hădărugă, D.I., Titanocene / cyclodextrin supramolecular systems: a theoretical approach, *Chemistry Central Journal* **2012**, *6*, 129, doi: 10.1186/1752-153X-6-129 (**ISI 3.280**))
- 5) Hermenean, A.; Popescu, C.; Ardelean, A.; Stan. M.; **Hădărugă, N.G.**; Mihali, C.-V.; Costache, M.; Dinischiotu, A., Hepatoprotective Effects of *Berberis vulgaris* L. Extract/β-Cyclodextrin on Carbon Tetrachloride-Induced Acute Toxicity in Mice, *International Journal of Molecular Sciences* **2012**, 13, 9014-9034, ISSN: 1422-0067, doi: 10.3390/ijms13079014 (**ISI 2.598**)
- 6) **Hădărugă**, **N.G.**, *Ficaria verna* Huds. extracts and their β-cyclodextrin supramolecular systems, *Chemistry Central Journal* **2012**, 6:16, ISSN 1752-153X, doi: 10.1186/1752-153X-6-16 (**ISI 3.280**)
- 7) Hădărugă, N.G.; Gharibeh Branic, A.; Hădărugă, D.I.; Gruia, G.; Pleşa, C.; Costescu, C.; Ardelean, A.; Lupea, A.X., Comparative study on *Juniperus communis* and *Juniperus virginiana* essential oils: TLC and GC analyses, *Journal of Planar Chromatography Modern TLC* **2011**, 24(2), 130-135, doi: 10.1556/JPC.24.2011.2.9, ISSN 0933-4173 (ISI 0.767)
- 8) Hădărugă, D.I.; **Hădărugă, N.G.**; Butnaru, G.; Tatu, C.; Gruia, A., Bioactive microparticles (10): Thermal and oxidative stability of nicotine and its complex with β-cyclodextrin, *Journal of Inclusion Phenomena and Macrocyclic Chemistry* **2010**, *68*(1), 155-164, doi: 10.1007/s10847-010-9761-0; ISSN 0923-0750 (**ISI 1.220**)
- 9) **Hădărugă**, **N.G.**; Hădărugă, D.I.; Păunescu, V.; Tatu, C.; Ordodi, L.; Bandur, G.; Lupea, A.X., Bioactive Nanoparticles (6). Thermal Stability of Linoleic Acid / α and β -Cyclodextrin Complexes, *Food Chemistry* **2006**, 99(3), 500-508; doi: 10.1016/j.foodchem.2005.08.012, ISSN 0308-8146 (**ISI 3.458**)

International Conferences - selection:

- 1) Hădărugă, D.I.; **Hădărugă**, **N.G.**; Corpaş, L.; Isengard, H.-D., Karl Fischer water titration of cyclodextrins: parameter optimization, The 7th International Conference on Water in Food (EuroFoodWater2012), Helsinki, Finland, June 3-5, 2012 (to be published in *Food Chemistry* **2012** (ISI 3.655)), *Book of Abstracts*, Oral communication OC19, pp. 31, http://www.efw2012.eurofoodwater.eu/index.php
- 2) Corpaş, L.; **Hădărugă, N.G.**; Riviş, A.; Hădărugă, D.I.; Isengard, H.-D., Water content of wheat flour and bread products by Karl Fischer titration: a PCA multivariate approach, The 7th International Conference on Water in Food (EuroFoodWater2012), Helsinki, Finland, June 3-5, 2012 (to be published in *Food Chemistry* **2012** (ISI 3.655)), *Book of Abstracts*, Poster presentation (The best poster oral presentation) P20, pp. 60, http://www.efw2012.eurofoodwater.eu/index.php
- 3) Hădărugă, N.G.; Pînzaru, I.A.; Corpaş, L.; Hădărugă, N.G.; Isengard, H.-D., Karl Fischer water content of saturated and unsaturated fatty acid / α and β -cyclodextrin supramolecular systems: correlation with structural parameters, The 7th International Conference on Water in Food (EuroFoodWater2012), Helsinki, Finland, June 3-5, 2012 (to be published in *Food Chemistry* **2012** (ISI 3.458)), *Book of Abstracts*, Poster presentation P21, pp. 61, http://www.efw2012.eurofoodwater.eu/index.php
- 4) Hădărugă, D.I.; **Hădărugă**, **N.G.**; Isengard, H.-D., "Surface water" and "strong-bonded water" in cyclodextrins: a Karl Fischer titration approach, *The 2nd European Conference on Cyclodextrins*, Asti, Italy, October 2-4, 2011 (Published in *Journal of Inclusion Phenomena and Macrocyclic Chemistry* **2012**, (**ISI 1.886**)), http://www.cdtec.unito.it/eurocd2011/
- 5) **Hădărugă, N.G.**; Hădărugă, D.I.; Gârban, Z., Metallocene / cyclodextrin supramolecular systems: a theoretical approach, *The 2nd European Conference on Cyclodextrins*, Asti, Italy, October 2-4, 2011, http://www.cdtec.unito.it/eurocd2011/
- 6) Hădărugă, D.I.; Pînzaru, I.A.; **Hădărugă, N.G.**; Peter, F., New flavonoid derivative (silybin, rutin-fatty acid bioconjugates) / cyclodextrin supramolecular systems with potential hepatoprotective activity, *The 2nd European Conference on Cyclodextrins*, Asti, Italy, October 2-4, 2011, http://www.cdtec.unito.it/eurocd2011/
- 7) Hădărugă, D.I.; **Hădărugă, N.G.**; Bandur, G.; Isengard, H.-D., Water content of flavonoid/cyclodextrin nanoparticles, The 6th International Conference on Water in Food, Reims, France, 21-23 March **2010**, *Book of Abstracts*, pp. 17
- 8) **Hădărugă, N.G.**; Hădărugă, D.I.; Isengard, H.-D., Water content of natural cyclodextrins and their essential oil complexes: a comparative study between Karl Fischer titration and thermal methods, The 6th International Conference on Water in Food, Reims, France, 21-23 March **2010**, *Book of Abstracts*, pp. 67
- 9) Oprea, T.I.; Olah, M.; Mracec, Maria; Rad, Ramona; Ostopovici, Ramona; Bora, Alina; **Hadaruga**, **Nicoleta G.**; Bologa, C.G., Mapping Bioactivity Space for Fragment-Based Lead Discovery, *Proceedings of the 229th American Chemical Society National Meeting*, San Diego, CA, March 13-17, **2005**
- 10) Oprea, T.I.; Kappler, M.A.; Allu, T.K.; Mracec, Maria; Olah, M.; Rad, Ramona; Ostopovici, Liliana; Bora, Alina; **Hădărugă, Nicoleta G.**; Baroni, M.; Zamora, I.; Berellini, G.; Aristei, Yasmin; Cruciani, Gabrielle; Bologa, C.G.; Edwards, B.S.; Sklar, L.A.; Balakin, K.V.; Savchuk, N.; Brown, D.; Larson, R.S., "Mining Large Chemical Spaces in Lead and Drug Discovery", *Proceedings of the 15th European Symposium on Quantitative Structure-Activity Relationships & Molecular Modelling "QSAR & Molecular Modelling in Rational Design of Bioactive Molecules"*, Istambul, Turkey, September 5-10, **2004**, 531-535, ISBN: 975-00782-0-9

Grants - selection:

- 1) Biomedical application of metallic compounds Metallomics, Education & Research Ministry, National Program II, PCCE_Idei, No 140 / 2008, Years 2010-2013, Value: 700 000 Lei (Director Partner 8)
- 2) Complex Researches on the Obtaining and Magnetic Properties of Co_oFe_{3-δ}O₄ Ferrimagnetic Nanoparticle Systems with Potential Antineoplastic Activity, Education & Research Ministry, National Program II, PN II, contr. No 3239 / 2007-2010, Value: 17 000 Lei (Director Partner 4)
- 3) Stabilization of the Bioactive Compounds from Compositae Family by Cyclodextrin Nanoencapsulation, Education & Research Ministry, Grant A, CNCSIS code 326, contr. No 44GR /2007-2008, Value: 53 900 Lei (Director)

Research fellowships:

"Cyclodextrin nanoparticles: water determination using classical Karl Fischer method", Universität Hohenheim, Institut für Lebensmittelwissenschaft und Biotechnologie, Hohenheim, Germany, August to September 2008

Research prizes – selection for the year 2012 (UEFISCDI article type):

- 1) UEFISCDI Code: **PN-II-RU-PRECISI-2012-6-0007** (**prize** for the paper: "Water content of flavonoid/cyclodextrin nanoparticles: relationship with the structural descriptors of biologically active compounds", *Food Chemistry* **2012**, *132*(4), 1651-1659, doi: 10.1016/j.foodchem.2011.06.004 (ISI 3.655))
- 2) UEFISCDI Code: **PN-II-RU-PRECISI-2012-6-0013** (**prize** for the paper: "Water content of natural cyclodextrins and their essential oil complexes: a comparative study between Karl Fischer titration and thermal methods", *Food Chemistry* **2012**, *132*(4), 1741-1748, doi: 10.1016/j.foodchem.2011.11.003 (ISI 3.655))
- 3) UEFISCDI Code: **PN-II-RU-PRECISI-2012-6-0559** (**prize** for the paper: "*Ficaria verna* Huds. extracts and their beta-cyclodextrin supramolecular systems", *Chemistry Central Journal* **2012**, 6, 16, doi: 10.1186/1752-153X-6-16 (ISI 3.281))

Annexes

Lists of Journal articles, Proceedings papers, Journal citations and other scientific materials can be obtained upon request