

PERSONAL INFORMATION

**Dana Maria Copolovici (born Ban)**

 Elena Drăgoi St., Nr. 2, Room. L 31, Arad, Arad County, Code 310330, Romania

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 dana.copolovici@uav.ro, danaban76@gmail.com

Sex Female | **Date of birth** 16.08.1976 | **Nationality** Romanian

WORK EXPERIENCE

1.10.2014- present

Associate Professor

Faculty of Food Engineering, Tourism and Environmental Protection, „Aurel Vlaicu” University, Arad, Romania

Institute of Research, Development, and Innovation in Technical and Natural Sciences of “Aurel Vlaicu” University, Arad, Romania

- Teaching and scientific research

12.03.2014- 14.10.2015

Manager in project

Institute of Research, Development, and Innovation in Technical and Natural Sciences of “Aurel Vlaicu” University, Arad, Romania

Management

1.10.2013- 31.06.2013

Lecturer

Faculty of Food Engineering, Tourism and Environmental Protection, „Aurel Vlaicu” University, Arad, Romania

Institute of Research, Development, and Innovation in Technical and Natural Sciences of “Aurel Vlaicu” University, Arad, Romania

- Teaching and scientific research

5.03.2012- 05.07.2013

Researcher

Institute of Research, Development, and Innovation in Technical and Natural Sciences of “Aurel Vlaicu” University, Arad, Romania

Scientific research

1.01.2012- 01.03.2013

Senior Researcher

Institute of Technology, University of Tartu, Tartu, Estonia

Scientific research

1.03.2010-31.12.2011

Researcher

Institute of Technology, University of Tartu, Tartu, Estonia

Scientific research

15.01.2008-28.02.2010

Extraordinary Researcher

Faculty of Science and Technology, and Institute of Technology, University of Tartu, Estonia

Scientific research

2001-2002

Assistant Researcher

Research Institute for Analytical Instrumentation, INCDO-INOE 2000

Scientific research

EDUCATION AND TRAINING

- 2002-2007 Ph.D.
„Babes-Bolyai” University, Cluj-Napoca, Romania
- 2001-2002
▪ Chemistry
▪ M.Sc.
▪ „Babes-Bolyai” University, Cluj-Napoca, Romania
- 1997-2001
▪ Chemistry
▪ B.Sc.
▪ „Babes-Bolyai” University, Cluj-Napoca, Romania

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1/2	C1/2	C1/2	B1/2	B1/2
French	A1/2	A1/2	A1/2	A1/2	A1/2
Italian	B1/2	B1/2	B1/2	A1/2	A1/2
German	A1/2	A1/2	A1/2	A1/2	A1/2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Organisational / managerial skills

- Projects**
1. New chiral organo-antimony derivatives containing intramolecular coordination. Grant CNCSIS 1/93, 2004-2006, director of the project: Dana Maria Ban.
 2. Design, Synthesis and Applications of New Chimeric CPPs for Intracellular Delivery of Nucleic Acids and Drugs, Mobilitas MJD64, 2010-2013, director of the project: Dana Maria Copolovici.
 3. New Methods for Cell-Specific Delivery of Therapeutic Molecules, Project ETF 9438, 2012-2013, director of the project: Dana Maria Copolovici.

Projects member

1. Inter- and intramolecular interactions in organometallic compounds. Ionic and neutral hypervalent combinations. Grant CNCSIS 1998-2000, master of the project: Prof. Dr. Cristian Silvestru
2. Master and Ph.D. in organometallic chemistry. Grant CNCSIS 1998-2000, master of the project: Acad. Prof. Dr. Ionel Haiduc
3. Multidentate ligands hybrid and these complexes with metals Grant ANSTI 2000-2002, master of the project: Assoc. Prof. Dr. Anca Silvestru
4. X-ray Diffractometry National Laboratory. Grant BCUM 2000-2001, master of the project: Prof. Dr. Cristian Silvestru
5. The soil restore from the industrial pit polluted zone and re-used this in economic activities. Grant MENER, 2001
6. A regional centre for industrial accident prevention. Grant MENER, 2001
7. Biochemical analyser with spectral many channels detector using an interference filter and a diode array. Grant RELANSIN, 2001
8. European laws for dangerous reagents. Grant INFRAS, 2002
9. Hypervalent Organometallic Compounds of Main Group Elements (Sn, Pb, Sb, Bi, Se, Te) - HYPORGMET. Grant CEEX D-16/2005-2006, master of the project: Prof. Dr. Cristian Silvestru
10. Organometallic Chemistry of Compounds Containing Homo and Hetero Metal-Metal Bonds - HOHEORGMET. "Excelency Research" program, 19/2006, master of the project: Prof. Dr. Cristian Silvestru.
11. Design, synthesis and testing of novel biomimetic compounds as potential biologically active materials. Grant SF2008, 2008, master of the project: Prof. Dr. Jaak Järv.
12. Center of Excellence in Chemical Biology, Laboratory of Molecular Biotechnology, 2009-2013.
13. Tissue-specific delivery vectors, Project SF0180027s08, 2010-2013, master of the project: Prof. Dr. Ülo Langel.
14. Bast Plants - Renewable Strategic Resources for European Economy: BASTEURES (2012 - 2013); co-funded by European Union and Romanian Government through the European Regional Development Fund. Sectoral Operational Programme "Increase of Economic Competitiveness, master of the project: Prof. Dr. Ryszard Michal Kozlowski.
15. Trans-barrier targeting (2014), "Institutional Research Funding" project IUT20-26, master of the project: Prof. Dr. Ülo Langel.
16. Research Center in Technical and Natural Sciences (2014-2015) co-funded by European Union and Romanian Government through the European Regional Development Fund. Sectoral Operational Programme "Increase of Economic Competitiveness, master of the project: CS I Dr. Cecilia Sirghie.

Supervision: PhD thesis of PhD. Student Julia Suhorutsenko (2009-2012), supervisors: Prof. Dr. Ülo Langel and Dr. Dana Copolovici, held in 4 October 2012, with the title: "Cell-penetrating peptides: cytotoxicity, immunogenicity and application for tumor targeting" at Institute of Technology, Faculty of Science and Technology, University of Tartu, Estonia.

Participation at "Intellectual Property Training Session", Szeged, Hungary, 22.05.2013.

Reviewer for the following journals: *Chemical Reviews*, *FEBS Letters*, *Scientific Reports*, *ACS Macro Letters*, *Synlett*, *Langmuir*, *Molecules*, *European Journal of Medicinal Chemistry*, *Therapeutic Delivery*, *Cellulose Chemistry and Technology*, *Computer Methods and Programs in Biomedicine*, *African Journal of Biotechnology*, *Current Drug Safety*.

Member in Editorial Committee of *Scientific Bulletin of ESCORENA*, "Aurel Vlaicu" University Publishing House, Arad, ISSN 2069-8070 (<http://www.uav.ro/en/journals/scientific-bulletin-ofescorena>)

Habilitation obtained for Biology (OM Nr. 5945/Date 4.12.2015).

Technical skills and competences

- solid phase synthesis (manual and automated) of peptides and their derivatives
- synthesis of inorganic and organometallic compounds, including Schlenk techniques
- mass spectrometry (MALDI-TOF-MS, CI-MS, ES-MS)
- HPLC-MS, GC-MS
- bioluminescence, UV-VIS spectroscopy, IR spectroscopy, Raman spectroscopy, NMR spectroscopy
- cultured cells manipulations, flow cytometry
- application of cell-penetrating peptides on delivery of peptides, nucleic acids into specific cultured cells and in animal models
- FELASA Certificate category C: 5th International Course on Laboratory Animal Science, Alexander Fleming Biomedical Sciences Research Center, 19.09.-30.09.2011
- Microscopy (fluorescence, epifluorescence, confocal), atomic force microscopy, electronic microscopy (SEM)
- immunohistology and histochemistry (Immunohistology and Histochemistry Course, Estonian University of Life Science, Tartu, Estonia, 24-25.10.2011).
- X-ray diffraction studies (Institute fuer Anorganische und Physikalische Chemie der Universitat Bremen, Bremen, Germania, 10.05-17.05.2005).

Computer skills • Windows, Microsoft Office, GraphPad Prism, BDFACSDIVA, MAGELAN, MESTREC, NOVA, LYRA (Tescan), etc.

Driving licence Category B

ADDITIONAL INFORMATION

Publications 24 ISI publications (Web of Science) , 1 ISI proceedings article, and 3 other publications
2 books

Researcher ID C-5207-2012

Patent 1 international patent

Conferences 42 oral and poster presentations at national and international conferences

Honours and awards Special Mention No 1 to "Aurel Vlaicu" University from Arad, Dr. Dana Copolovici, at InnoMatch Regional innovation Fair 3-4 April 2013, Arad International, for development of methodology of bleaching of kraft pulp using polyoxometalates.
Best poster award for: "Chemical Analysis and Antimicrobial Activity of *Lavandula Officinalis* L. Essential Oils," Dana M. Copolovici, Dana Radu, Georgeta Pop, Lucian Copolovici presented at The International Conference Agriculture for Life, Life for Agriculture, Bucharest, Romania, 09-11 June 2016.

Memberships Romanian Chemical Society (2001-present),
European Peptide Society (2008-present),
Romanian Society of Biochemistry and Molecular Biology (2014-present).

Fellowships 31.03.2004 - 31.08.2004, Erasmus - Socrates fellowship, Institute fuer Anorganische und Physikalische Chemie, Bremen University, Bremen, Germany, Prof. Dr. Hans J. Breunig.
01.04.2005 - 31.07.2005, Leonardo da Vinci fellowship, Institute fuer Anorganische und Physikalische Chemie, Bremen University. Bremen, Germany, Prof. Dr. Hans J. Breunig.
12.09.2005 -13.11.2005, research fellowship, Swiss Federal Institute of Technology (ETH) in Zurich, Switzerland, Prof. Dr. Dieter A. Schlüter.
13.09.2006 - 31.11.2006, research fellowship, Dipartimento di Chimica Inorganica ed Analitica Universita degli Studi di Cagliari, Italy, Assoc. Prof. Dr. Francesco Isaia.