



## Dana Maria Copolovici (born BAN)

**Nationality:** Romanian **Date of birth:** 16/08/1976 **Gender:** Female

**Phone number:** (+40) 257219331 **Email address:** [dana.copolovici@uav.ro](mailto:dana.copolovici@uav.ro)

**Email address:** [danaban76@gmail.com](mailto:danaban76@gmail.com)

**Website:** <https://orcid.org/0000-0002-1491-0473>

**Website:** <https://www.brainmap.ro/dana-copolovici>

**Website:** <https://www.scopus.com/authid/detail.uri?authorId=23481081800>

**Website:** <https://scholar.google.com/citations?user=6m7emJ8AAAAJ&hl=ro>

**Work:** Bd. Revolutiei, No. 77, 310130 Arad (Romania)

### ABOUT ME

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Married to Lucian, one child: Radu

### WORK EXPERIENCE

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#### Vice-rector

**"Aurel Vlaicu" University of Arad** [ 01/05/2024 – Current ]

City: Arad | Country: Romania

Responsible for scientific research;  
Management and Scientific Research Coordination

**Member of the Romanian Agency for Quality Assurance in Higher Education - ARACIS (expert teacher evaluator registered in the National Register of Teacher Evaluators in 2024)**

**Romanian Agency for Quality Assurance in Higher Education** [ 2024 – Current ]

**Expert in the Expert Corps of the National Register of Experts (REXCD) for the certification of research and development activities**

[ 2023 – Current ]

Intelligence specialization area at national level: 7. Health - advanced prevention, diagnosis and treatment

**Member of the General Council of the Romanian Chemical Society (SChR)**

**Romanian Chemical Society** [ 2022 – Current ]

#### Secretary

**Romanian Chemical Society, Arad Branch** [ 2020 – Current ]

#### Professor

**Faculty of Food Engineering, Tourism and Environmental Protection, "Aurel Vlaicu" University of Arad** [

02/10/2017 – Current ]

City: Arad | Country: Romania

Main activities and responsibilities: Teaching and research  
Lectures, courses, seminars, laboratories in environmental engineering, chemistry, biology and food engineering  
Type of business or sector: Education and scientific research

## Director

**Department of Continuing Education and Training (DCET), "Aurel Vlaicu" University of Arad** [ 05/12/2019 – 30/04/2024 ]

City: Arad | Country: Romania

Main activities and responsibilities: coordination of DCET activity  
Type of activity or sector: Education and management

## Member of the National Council for Attestation of University Degrees, Diplomas and Certificates (CNATDCU) – Committee on Biology and Biochemistry

**Ministry of Education** [ 2017 – Current ]

## Member of the Faculty Council

**Faculty of Food Engineering, Tourism and Environmental Protection, "Aurel Vlaicu" University of Arad** [ 2016 – 2024 ]

City: Arad | Country: Romania

## Member of the Department Council

**Department of Technical and Natural Sciences, "Aurel Vlaicu" University of Arad** [ 2016 – 2024 ]

City: Arad | Country: Romania

- responsible with scientific research activities

## Professor, PhD Supervisor at the Biomedical Sciences Doctoral School

**University of Oradea** [ 01/10/2016 – Current ]

City: Oradea | Country: Romania

Main activities and responsibilities: Teaching and research: supervision and coordination of doctoral students  
Type of activity or sector: Education and scientific research

## Associate Professor

**Faculty of Food Engineering, Tourism and Environmental Protection, "Aurel Vlaicu" University of Arad** [ 01/10/2014 – 01/10/2017 ]

City: Arad

Main activities and responsibilities: Teaching and research  
Lectures, courses, seminars, laboratories in environmental engineering, chemistry and food engineering  
Type of activity or sector of activity: Education and scientific research

## Lecturer

**Faculty of Food Engineering, Tourism and Environmental Protection, "Aurel Vlaicu" University of Arad** [ 01/10/2013 – 31/07/2014 ]

Teaching and research  
Lectures, courses, seminars, laboratories in environmental engineering, chemistry and food engineering  
Type of business or sector: Education and scientific research

## Researcher

**Institute of Research, Development, and Innovation in Technical and Natural Sciences, UAV, Arad** [ 05/03/2012 – 05/07/2013 ]

City: Arad | Country: Romania

Main activities and responsibilities: research  
Type of activity or sector of activity: scientific research

## Senior Researcher

*Institute of Technology, Faculty of Science and Technology, University of Tartu, Estonia* [ 01/01/2012 – 30/06/2013 ]

City: Tartu | Country: Estonia

Main activities and responsibilities: research  
Type of activity or sector of activity: scientific research

## Postdoctoral Researcher

*Institute of Technology, Faculty of Science and Technology, University of Tartu, Estonia* [ 01/03/2010 – 31/12/2011 ]

City: Tartu | Country: Estonia

Main activities and responsibilities: research  
Type of activity or sector of activity: scientific research

## Extraordinary researcher

*Institute of Technology, Faculty of Science and Technology, University of Tartu, Estonia* [ 15/01/2008 – 28/02/2010 ]

City: Tartu | Country: Estonia

Main activities and responsibilities: research  
Type of activity or sector of activity: scientific research

## Assistant Researcher

*Research Institute for Analytical Instrumentation, INCDO-INOE 2000* [ 2001 – 2002 ]

City: Cluj-Napoca | Country: Romania

Main activities and responsibilities: research  
Type of activity or sector of activity: scientific research

## EDUCATION AND TRAINING

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### Habilitation in Biology (OMENCS 5945, 4.12.2015)

*Cell-Penetrating Peptides: Versatile Vectors for Delivering Therapeutics, 2015* [ 04/12/2015 ]

### Ph. D. in Chemistry, (OMECT, Nr. 3439 din 12.03.2008)

*"Babes-Bolyai" University, Cluj-Napoca, Romania* [ 01/10/2002 – 12/12/2007 ]

City: Cluj-Napoca | Country: Romania | Level in EQF: EQF level 8

### M.Sc in Chemistry

*Faculty of Chemistry and Chemical Engineering, "Babes-Bolyai" University* [ 01/10/2001 – 30/06/2002 ]

City: Cluj-Napoca | Country: Romania | Level in EQF: EQF level 7

### B.Sc. in in Chemistry

*Faculty of Chemistry and Chemical Engineering, "Babes-Bolyai" University* [ 01/10/1997 – 30/06/2001 ]

City: Cluj-Napoca | Country: Romania | Level in EQF: EQF level 6

## BACCALAUREATE

*"Andrei Muresanu" National High School* [ 15/09/1991 – 30/06/1995 ]

City: Bistrița | Country: Romania | Level in EQF: EQF level 4

## LANGUAGE SKILLS

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**Mother tongue(s):** Romanian

**Other language(s):**

### English

**LISTENING** C1 **READING** C2 **WRITING** B2  
**SPOKEN PRODUCTION** C2 **SPOKEN INTERACTION** C2

### French

**LISTENING** A2 **READING** A2 **WRITING** A2  
**SPOKEN PRODUCTION** A2 **SPOKEN INTERACTION** A2

### Italian

**LISTENING** B2 **READING** B2 **WRITING** A2  
**SPOKEN PRODUCTION** A2 **SPOKEN INTERACTION** B2

### German

**LISTENING** A2 **READING** A2 **WRITING** A2  
**SPOKEN PRODUCTION** A2 **SPOKEN INTERACTION** A2

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## MANAGEMENT AND LEADERSHIP SKILLS

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**Project director** "New chiral organo-antimony derivatives containing intramolecular coordination". Grant CNCISIS 1/93, 2004-2006, project director: Dana Maria Ban.

"Design, Synthesis and Applications of New Chimeric CPPs for Intracellular Delivery of Nucleic Acids and Drugs", Mobilitas MJD64, 2010-2013, project director: Dana Maria Copolovici.

"New Methods for Cell-Specific Delivery of Therapeutic Molecules", Project ETF 9438, 2012-2013, project director: Dana Maria Copolovici.

"Cell-penetrating peptides-containing systems as a potential platform for the use in breast and prostate cancer treatment", Project PN-III-P4-PCE-2021-0639; PCE 98/2022, 2022-2024, project director: Dana Maria Copolovici.

**Mentor** Post-doctoral research project: PN-III-P1-1.1-PD-2019-0607 - Nanoparticles from natural waste with potential medical applications (NATWAMED)", project director: Dr. Ing. Moisa Cristian.

**Member in management team** Project POSCCE- O.2.2.1, 621/2014 Research Center in Natural and Technical Sciences, 2014-2015, Director CS I Dr. Cecilia Sirghie (value 15.000.000 RON).  
Project POC/448/1/1/Mari infrastructuri de CD/1/Mari infrastructuri de CD, Cod 128019, Centru de Cercetare in Bio-Eco-Economie Sustenabila (BioEcoES), 2021-2023, Director: Ramona Lile, (value 35.000.000 RON)

### Member in 21 national or international research projects

#### Scientific coordinator of PhD theses Coordinator of PhD theses: 2

1. Popițanu (Pascu) Angela Corina (2021) with the title: "The influence of abiotic and biotic stress on ecosystems";
2. Asztalos (Csakvari) Adriana Cecilia (2021) with the title: "Determination of the chemical composition, biochemical and therapeutic properties of extracts obtained from medicinal plants".

#### Co-supervised PhD theses: 3

1. Julia Suhorutsenko (2012), together with Prof. Dr. Ülo Langel, with the title: "Cell-penetrating peptides: cytotoxicity, immunogenicity and application for tumor targeting", Institute of Technology, Faculty of Science and Technology, University of Tartu, Estonia;

2. Mihaela-Alexandra Bogdan (2021), together with Prof. Dr. Habil. Simona Bungău, with the title: "Physico-chemical properties and therapeutic benefits of *Lavandula angustifolia* L essential oil.", University of Oradea);
3. Rîșteiu (Moț) Maria Daniela (2022), together with Prof. Dr. Habil. Camelia Buhaș, with the title: "Essential oils - potential applications in the hospital environment").

#### **Member of the expert committees for the evaluation of doctoral/habilitation theses PhD theses: 5**

1. Mariana Kovacs (Tocai) "Studies on the antioxidant effect of selenium-rich plant extracts", Scientific supervisor: Prof. Univ. Dr. Ing. Petru Burescu, 2018.
2. Adriana Ramona Memete, "Studies on the phytochemical composition of fruits of the genera *Morus*, *Rubus*, *Vaccinium* and *Amelanchier* and evaluation of their different biological effects", Scientific supervisor: Prof. Univ. Dr. Simona Ioana Vicaș, 2022.
3. Eva Kleszken, „Abordări noi și de actualitate cu privire la efectele biologice ale vâscului european (*Viscum album* L. ssp. *album*)” Scientific PhD supervisor: Prof. Univ. Dr. Simona Ioana Vicaș, 2023.
4. Alexandra Cristina Tocai (Moțoc), „Comparative studies on the morphological, phytochemical characterization, evaluation of the antioxidant and antimicrobial potential of plant tissues belonging *Sanguisorba officinalis* L. și *Sanguisorba minor* Scop.”, Scientific supervisor: Prof. Univ. Dr. Simona Ioana Vicaș, 2023.
5. Cristian Adrian Orădan, "Dezvoltarea și optimizarea unui aliment functional pe baza de carne prin valorificarea compușilor bioactivi din fructele de *Prunus serotina* Ehrh." Scientific PhD supervisor: Prof. Univ. Dr. Simona Ioana Vicaș, 2024.

#### **Habilitation thesis: 1**

1. Prof. Dr. Diana Cupșa "Macrozoobenthic invertebrate and vertebrate communities in aquatic habitats, ecological, trophic and conservation importance", University of Oradea, Romania, 2017.

**2023-present - Head of Biological Analysis Laboratory, "Aurel Vlaicu" University of Arad, Romania.**

**2015-present - Head of Microscopy Laboratory, "Aurel Vlaicu" University of Arad, Romania.**

**2016-present Annual organization of the scientific event „STUDENT SCIENTIFIC SESSION”, Faculty of Food Engineering, Tourism and Environmental Protection, "Aurel Vlaicu" University, Arad, Romania.**

**2021-present Annual organization of the scientific event „PhD STUDENTS’ DAYS”, Faculty of Food Engineering, Tourism and Environmental Protection, "Aurel Vlaicu" University of Arad, Arad, Romania.**

#### **DIGITAL SKILLS**

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Origin / Microsoft Office / PRISM Model Checker (Advanced)

#### **DRIVING LICENCE**

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Driving Licence: B

#### **COMMUNICATION AND INTERPERSONAL SKILLS**

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**Communication skills** Very good communication skills obtained through participation in various national and international conferences with oral presentations, summer school, postgraduate courses.

**Other skills** Spectroscopy (UV/VIS, IR, Raman, diode array spectrophotometer), gas chromatography, liquid chromatography, NMR spectroscopy, solid phase synthesis (manual and automated), synthesis of inorganic and organometallic compounds, Schlenk techniques, mass spectrometry (MALDI-TOF-MS, CI-MS, ES-MS), bioluminescence, handling of cells in culture, flow cytometry, handling of laboratory animals, microscopy

(fluorescence, epifluorescence, confocal), atomic force microscopy, electron microscopy (SEM, TEM), immunohistology and histochemistry, X-ray diffraction.

## HONOURS AND AWARDS

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[ 2023 ] Istanbul, Turkey

**Best Presentation award** *Peptides With Antimicrobial Properties*, – Dana Maria Copolovici, Cristian Moisa, Dana G. Radu, Andreea I. Lupitu, Simona Gavrilăş, Mihaela Dochia, Lucian Copolovici, 6th International Conference on Recent Trends in Multi-Disciplinary Research Innovation In Multidisciplinary Research & Practice, Istanbul, Turkey, 10th-11th November 2023.

[ 2023 ] Bucharest, Romania

**Best poster award** *Antimicrobial Cell-Penetrating Peptides*, Cristian Moisa, Andreea Ioana Lupitu, Lucian Octav Copolovici, Dana Maria Copolovici, International Conference "Agriculture for Life, Life for Agriculture", 8-10 June 2023.

[ 2022 ] Bucharest, Romania

**Best Oral Paper Award** *The influence of elevated carbon dioxide on Raphanus sativus plants*, Flavia Bortes, Andreea Lupitu, Cristian Moisa, Dana Copolovici, Virgiliu Ciutina, Denisa Peteleu, Lucian Copolovici, Agriculture for Life, Life for Agriculture, 2-4 Iunie, 2022.

[ 2018 ] Bucharest, Romania

**Best poster award** *Variation in phenolic content and antioxidant activity of different plant parts of Primula veris*, Andreea Lupitu, Daniel Tomescu, Claudia Anca Mot, Cristian Moisa, Dana Maria Copolovici, Lucian Copolovici presented at The International Conference Agriculture for Life, Life for Agriculture, 9-11 June 2018.

[ 2016 ] Bucharest, Romania

**Best poster award** *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, 09-11 June 2016.

[ 2018 ] Bucharest, Romania

**Best poster award** *Essential oil composition, total phenolic content, and antioxidant activity - determined from leaves, flowers and stems of Origanum vulgare L. var. aureum*, Cristian Moisa, Lucian Copolovici, Andreea Lupitu, Georgeta Pop, Virgiliu Ciutina, Dana Maria Copolovici, Agriculture for Life, Life for Agriculture, 9-11 June 2018.

[ 2018 ] Romanian Chemical Society

**Honor Diploma of the Romanian Chemical Society**

[ 2013 ]

**Special Mention No 1** "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.

## ADDITIONAL INFORMATION

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### Membership of professional societies

Romanian Chemical Society (2001-present)

The European Peptide Society (2008-present)

Romanian Society of Biochemistry and Molecular Biology (2014-present)

National Society for Environmental Science and Engineering (2017-present)

### Conferences

Over 220 poster or oral presentations at national and international conferences

## **Publications**

65 ISI (Web of Science / Clarivate), 5 ISI Proceedings articles

2 books

2 book chapters published in international journals

20 articles in BDI journals

1 international patent

## **Citations**

Over 2235 (Web of Science - Clarivate), without self-citations: 2054.

H-index 23 (Web of Science - Clarivate), 27 (Google Scholar).

## **Reviewer for scientific journals**

Chemical Reviews, FEBS Letters, Scientific Reports, ACS Macro Letters, Chemical Communications, Urban Climate, Toxins, Cellulose, Cancers, Marine Drugs, Saudi Pharmaceutical Journal, Plants, Synlett, Langmuir, Molecules, Biomolecules, Pharmaceuticals, European Journal of Medicinal Chemistry, Therapeutic Delivery, Advanced Drug Delivery Reviews, Applied Nanoscience, Cellulose Chemistry and Technology, Computer Methods and Programs in Biomedicine, Current Gene Therapy, Current Drug Safety, Journal of Applied Research on Medicinal and Aromatic Plants, etc.

## **Expert**

The Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI), Romania; National Science Centre from Poland (Narodowe Centrum Nauki – NCN), Poland;

National Recherche Agency (ANR), France;

EIT Raw Materials GmbH, Germany.

[ 2017 – Current ]

## **Chief editor**

Scientific and Technical Bulletin Series Chemistry, Food Science & Engineering, "Aurel Vlaicu" University Publishing House, Arad, ISSN 1582-1021 (<http://www.uav.ro/jour/index.php/stb-cfse>)

## **Guest Editor**

Molecules (Special Issue "Biomolecules from Plant and Animal Wastes: From Processing to Application in Food and Medicine": [https://www.mdpi.com/journal/molecules/special\\_issues/Biomolecules\\_Plant](https://www.mdpi.com/journal/molecules/special_issues/Biomolecules_Plant))

International Journal of Molecular Sciences (Special Issue "Research on Plant Bioactive Phytochemical" [https://www.mdpi.com/journal/ijms/special\\_issues/Research\\_on\\_Plant\\_Bioactive\\_Phytochemical](https://www.mdpi.com/journal/ijms/special_issues/Research_on_Plant_Bioactive_Phytochemical) )

Journal of Functional Biomaterials (Special Issue "Antibacterial, Antimicrobial and Antioxidant Properties of Biomaterials Derived from Peptides and Peptoids", Editors: Robert Vasile Gradinaru and Dana Maria Copolovici, [https://www.mdpi.com/journal/jfb/special\\_issues/0LA4LR3R25](https://www.mdpi.com/journal/jfb/special_issues/0LA4LR3R25). Molecules (Special Issue "Biomolecules from Plant and Animal Wastes: From Processing to Application in Food and Medicine: II": [https://www.mdpi.com/journal/molecules/special\\_issues/biomolecules\\_plant\\_waste](https://www.mdpi.com/journal/molecules/special_issues/biomolecules_plant_waste).

[ 2013 ]

## **Postgraduate specializations**

Participation in "Intellectual Property Training Session", Szeged, Hungary

[ 2015 – 2016 ]

## **Certificates for Professional Competences, 2019, The Western University of Timișoara, Romania**

Advanced Scientific Research (for Education Sciences)

### **Internships abroad**

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 ofTechnology (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.