



Dana-Maria COPOLOVICI (born BAN)

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

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

Work: Elena Dragoi Str., Nr. 2, 310130 Arad (Romania)

ABOUT ME

Married to Lucian, one child: Radu

WORK EXPERIENCE

"Aurel Vlaicu" University of Arad; Faculty of Food Engineering, Tourism and Environmental Protection – Arad, Romania

Professor

[02/10/2017 – Current]

Main activities and responsibilities: Teaching and research

Lectures, courses, seminars, laboratories in environmental engineering, chemistry, biology, health, food engineering, and ethics

Type of business or sector: Education and scientific research

Ministry of Education and Research

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

[30/11/2016 – Current]

Ministry of Education and Research – Bucharest, Romania

Expert in the National Council for Scientific Research (CNCS)

[01/08/2025 – Current]

The CNCS has the mission to support the Ministry of Education and Research (MEC) in fulfilling its responsibilities in the field of scientific research, in fulfilling the duties of the state authority for research and development, in coordinating, financing, monitoring, and evaluating scientific research activities in Romania.

Romanian Agency for Quality Assurance in Higher Education

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

[30/11/2023 – Current]

"Aurel Vlaicu" University of Arad – Arad, Romania

Vice-rector

[01/05/2024 – 13/03/2026]

Responsible for scientific research;

Management and Scientific Research Coordination

Department of Continuing Education and Training (DCET), "Aurel Vlaicu" University of Arad – Arad, Romania

Director

[05/12/2019 – 30/04/2024]

Main activities and responsibilities: coordination of DCET activity

Type of activity or sector: Education and management

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

Member of the Faculty Council

[2016 – 2024]

 **Department of Technical and Natural Sciences, "Aurel Vlaicu" University of Arad – Arad, Romania**

Member of the Department Council

[2016 – 2024]

- responsible with scientific research activities

 **University of Oradea – Oradea, Romania**

Professor, PhD Supervisor at the Biomedical Sciences Doctoral School

[01/10/2016 – Current]

Main activities and responsibilities: Teaching and research: supervision and coordination of doctoral students

Type of activity or sector: Education and scientific research

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

Associate Professor

[01/10/2014 – 01/10/2017]

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

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

Lecturer

[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

 **Institute of Research, Development, and Innovation in Technical and Natural Sciences, UAV, Arad – Arad, Romania**

Researcher

[05/03/2012 – 05/07/2013]

Main activities and responsibilities: research

Type of activity or sector of activity: scientific research

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

Senior Researcher

[01/01/2012 – 30/06/2013]

Main activities and responsibilities: education and research

Type of activity or sector of activity: education and scientific research

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

Postdoctoral Researcher

[01/03/2010 – 31/12/2011]

Main activities and responsibilities: research

Type of activity or sector of activity: scientific research

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

Extraordinary researcher

[15/01/2008 – 28/02/2010]

Main activities and responsibilities: research

Type of activity or sector of activity: scientific research

 **Research Institute for Analytical Instrumentation, INCDO-INOE 2000** – Cluj-Napoca, Romania

Assistant Researcher

[2001 – 2002]

Main activities and responsibilities: research

Type of activity or sector of activity: scientific research

EDUCATION AND TRAINING

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

New Organoantimony Derivatives Stabilized through Intramolecular Coordination, PhD Supervisor: Acad. Prof. Dr. Cristian Silvestru.

M.Sc. in Environmental Engineering

University of Oradea [02/10/2023 – 09/07/2025]

City: Oradea | Country: Romania | Level in EQF: EQF level 7

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

Mother tongue(s): Romanian

Other language(s):

English

LISTENING C1 READING C2 WRITING B2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Italian

LISTENING B2 READING B2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION B2

French

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

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

SKILLS

Origin / Microsoft Office / PRISM Model Checker (Advanced)

DRIVING LICENCE

Driving Licence: B

HONOURS AND AWARDS

[2023] Istanbul, Turkey

Best Presentation award *Peptides With Antimicrobial Properties*, – Dana Maria Copolovici, Cristian Moisa, Dana G. Radu, Andreea I. Lupitu, Simona Gavrilas, 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 June, 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

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

71 ISI articles (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 2730, without self-citations: 2630 in Web of Science - Clarivate; over 2550 in Scopus.

H-index 27 (Web of Science - Clarivate), 28 (Scopus), 32 (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);

National Science Centre from Polonia (Narodowe Centrum Nauki – NCN);

National Recherche Agency (ANR), France, EIT Raw Materials GmbH, Germania.

[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)

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)

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/OLA4LR3R25. 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.

[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)

University Didactics and Psycho-pedagogy

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 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 Università degli Studi di Cagliari, Italy, Assoc. Prof. Dr. Francesco Isaia.

Professional Training and Certified Qualifications

Trainer – COR/RNCP code 242401, Alma Vision SRL, 2025.

Project Manager – COR/RNCP code 242101, Alma Vision SRL, 2025.

Expert in Accessing European Structural and Cohesion Funds – COR code 242213, Alma Vision SRL, 2025.

MANAGEMENT AND LEADERSHIP SKILLS

Project manager

“New Chiral Organo-antimony Derivatives Containing Intramolecular Coordination”. Grant CNCSIS 1/93, 2004-2006. Project manager: Dana Maria Ban.

“Design, Synthesis and Applications of New Chimeric CPPs for Intracellular Delivery of Nucleic Acids and Drugs”, Mobilitas MJD64, 2010-2013. Project manager: Dana Maria Copolovici.

“New Methods for Cell-Specific Delivery of Therapeutic Molecules”, Project ETF 9438, 2012-2013. Project manager: 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 manager: Dana Maria Copolovici. <https://cpps-cancer.uav.ro/>

“Exploring the World through STEAM for a Sustainable Future”, Project PN-IV-P10-SS-SC-2024-0128, 2025-2026. Project manager: Dana Maria Copolovici. <https://elsteamsust.uav.ro/>

“Innovating Hydroponic Agriculture with Photocatalytic Decontamination and Sustainable Crop Growth through Eco-fertilizers”, Project PN-IV-P7-7.1-PTE-2024-0387, 2026-2027. Partner team leader: 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 POC/448/1/1/Mari infrastrucuri de CD/1/Mari infrastrucuri de CD, Cod 128019, Centru de Cercetare in Bio-Eco-Economie Sustenabila (BioEcoES), 2021-2023, Project Manager: Ramona Lile (value 35.000.000 RON) <https://bioeco.es.uav.ro/>.

Project POSCCE- O.2.2.1, 621/2014 Research Center in Natural and Technical Sciences, 2014-2015, Project Manager: CS I Dr. Cecilia Sirghie (value 15.000.000 RON) <http://basteures.uav.ro/>.

Member in 21 national or international research projects

Doctoral Supervisor of PhD theses

PhD theses: 5

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”.
3. Moț Silvia Elena Lavinia (2024), titled: “Obtaining and Valorizing Secondary Metabolites from Plants”.
4. Drăgoiu (Popa) Carmen (2024), titled: “Bioactive Molecules with Therapeutic Potential”.
5. Buzlea (Popa) Cristina (2025), titled: “Biologically active metal nanoparticles obtained from plant resources”.

Co-supervisor of doctoral thesis: 3

1. Julia Suhorutsenko (2012), jointly 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), jointly with Prof. Dr. Habil. Simona Bungău, with the title: “Physico-chemical properties and therapeutic benefits of Lavandula angustifolia L essential oil”, University of Oradea, Romania.
3. Rîșteiu (Moț) Maria Daniela (2022), jointly with Prof. Dr. Habil. Camelia Buhaș, with the title: “Essential oils - potential applications in the hospital environment”, University of Oradea, Romania.

Member of the expert committees for the evaluation of doctoral/habilitation theses

PhD theses: 7

1. Mariana Kovacs (Tocai) "Studies on the antioxidant effect of selenium-rich plant extracts", PhD 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", PhD 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*)”, PhD supervisor: Prof. Univ. Dr. Simona Ioana Vicaș, 2023.
4. Alexandra Cristina Tocai (Moșoc), „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.”, PhD 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." PhD supervisor: Prof. Univ. Dr. Simona Ioana Vicaș, 2024.
6. Bogdan Bocaneala, "Innovative Processing Perspectives for Black Grapes from the Danube Terraces Region", PhD supervisor: Prof. Univ. Dr. Gabriela Rapeanu, 2025.
7. Cristina Precupeanu, „Possibilities for Staggered Production of Perennial Arugula (*Diplotaxis tenuifolia* L.) in Protected Environments”, PhD supervisor: Prof. Univ. Dr. Vasile Stoleru, 2025.

Habilitation thesis: 2

1. Prof. Dr. Diana Cupșa, "Macrozoobenthic invertebrate and vertebrate communities in aquatic habitats, ecological, trophic and conservation importance", University of Oradea, Romania, 2017.
2. Conf. univ. dr. Andrei Lobiuc, "Integration of Molecular Methods in Plant and Microbial Biotechnologies", West University of Timisoara, Romania, 2025.

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.

2021-2024 - Annual organization of the scientific event „PhD STUDENTS’ DAYS”, Faculty of Food Engineering, Tourism and Environmental Protection, "Aurel Vlaicu" University of Arad, Arad, Romania.

COMMUNICATION AND INTERPERSONAL SKILLS

Communication skills

Very good communication skills, developed through extensive participation in national and international conferences with oral presentations, summer schools, and postgraduate courses, as well as through experience in university top management, membership in national and international representative groups, participation in institutional delegations abroad, and active involvement in research and educational projects.

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, cell-based assays, flow cytometry, handling of laboratory animals, microscopy (fluorescence, epifluorescence, confocal), atomic force microscopy, electron microscopy (SEM, TEM), immunohistology and histochemistry, X-ray diffraction.

Arad, 2026