

PERSONAL INFORMATION

Andrea Bunea

📍 Mănăştur Street, no. 3-5, 400372 Cluj-Napoca (România)

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✉ andrea.bunea@usamvcluj.ro; andrea_bunea@yahoo.com

Gender Female | Date of birth 22/04/1974 | Nationality Romanian

POZITION Professor, PhD

PROFESIONAL EXPERIENCE

- 2017-present **Professor**
University of Agricultural Science and Veterinary Medicine, Animal Science and Biotechnology Faculty. Mănăştur Street, no 3-5, 400372 Cluj-Napoca (România); <http://www.usamvcluj.ro>
Field: Chemistry, Biochemistry 1, Biochemistry 2, Enzymology, courses and practical works
Teaching and scientific activity
- 2013–2017 **Associate Professor**
University of Agricultural Science and Veterinary Medicine, Animal Science and Biotechnology Faculty. Mănăştur Street, no 3-5, 400372 Cluj-Napoca (România); <http://www.usamvcluj.ro>
Field: Chemistry, Biochemistry 1, Biochemistry 2, Enzymology, courses and practical works
Teaching and scientific activity
- 2005–2013 **Lecturer**
University of Agricultural Science and Veterinary Medicine, Animal Science and Biotechnology Faculty. Mănăştur Street, no 3-5, 400372 Cluj-Napoca (România); <http://www.usamvcluj.ro>
Field: Chemistry, Biochemistry 1, Biochemistry 2, Enzymology, courses and practical works
Field: Special Enzymology, course and practical work
Teaching and scientific activity
- 2001–2005 **Teaching assistant**
University of Agricultural Science and Veterinary Medicine, Animal Science and Biotechnology Faculty. Mănăştur Street, no 3-5, 400372 Cluj-Napoca (România); <http://www.usamvcluj.ro>
Field: Chemistry and Biochemistry, Special Enzymology, courses and practical works
Teaching and scientific activity
- 1999–2001 **Preparatory**
University of Agricultural Science and Veterinary Medicine, Animal Science and Biotechnology Faculty. Mănăştur Street, no 3-5, 400372 Cluj-Napoca (România); <http://www.usamvcluj.ro>
Field: Chemistry and Biochemistry – practical work

Teaching and scientific activity

EDUCATION

- 2000–2006 **PhD in Biotechnology** Nivelul 8 CEC
University of Agricultural Science and Veterinary Medicine, Animal Science and Biotechnology Faculty. Mănăştur Street, no 3-5, 400372 Cluj-Napoca (România);
Biochemistry, Spectroscopy, Liquid chromatography
- 01/2002–04/2002 **Doctoral fellowship** Nivelul 8 CEC
Bremen University, Biophysics Department, Bremen (Germany)
Extraction, separation and quantification of natural compounds
- 05/2003-07/2003 **Doctoral fellowship** Nivelul 8 CEC
Gent University, Food Safety and Quality Department, Belgium
Extraction, quantification and separation of natural compounds from different vegetal sources
- 05/2004-07/2004 **Doctoral fellowship** Nivelul 8 CEC
Gent University, Food Safety and Quality Department, Belgium
Extraction, quantification and separation of natural compounds from different vegetal sources
- 05/2005-07/2005 **Doctoral fellowship** Nivelul 8 CEC
Gent University, Food Safety and Quality Department, Belgium
Extraction, quantification and separation of natural compounds from different vegetal sources

PERSONAL COMPETENCES

Native language Romanian

OTHER LANGUAGES

	UNDERSTANDING		SPEAKING		WRITING
	LISTENING	READING	CONVERSATION	ORAL	WRITTEN EXPRESION
English	B2	B2	C1	C1	B2

Communication competences Team spirit, organisational skills
Good communication skills

Ability to adapt to multicultural environments, gained through experience working abroad

Organisational / managerial skills

Vicerector: 2020-present
 Project manager: research activity projects - 2
 Vicedean for research: 2016-2020
 Organisation of scientific events:

- International Symposium UASVM 2016, 2017, 2018
- International Symposium „Pigments in Food” - 2016

Job-related skills

Chromatographic skills – CC, HPLC, GC, GC/MS
 Spectroscopy
 General biochemistry, enzymatic activities determination, antioxidant methods

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Experienced	Experienced	Experienced	Experienced	Experienced

Levels: Basic user - Independent user - Proficient user
Digital competences - Self-assessment grid

ADDITIONAL INFORMATION

AFILIATIONS

Member in scientific and professional societies

- Romanian Chemistry Society
- Romanian Biochemistry and Molecular Biology Society
- European Plant Science Organisation

Scientific Reviewer: J Agric Food Chem, Food Chem, Food Res Int, Notulae Botanicae, Molecules MDPI

SCIENTIFIC ACTIVITY

Publications

- 26 articles in ISI Journals with impact factor; 12 articles in ISI proceedings
- 65 articles published in other databases
- Citations (excluding self-citations): 490 (According with WOS)
- Chapters in books published in international publishing houses: 1
- Participations at international Conferences: over 20
- Hirsch index 12 (WOS)
- ResearcherID: Author ID: 56962720300; <http://orcid.org/0000-0002-2358-485X>
- Award ASAS "Ion Adameşteanu" – Book "Stresul oxidativ și antioxidanți naturali" 2015

ANNEXES

Anexa 1 – Selective list of publications and research grants

Books and chapter in books:

1. **Andrea Bunea**, Procyanidins: Structure and occurrence, 2016, Nova Science Publishers, 19 pages
2. Sanda Andrei, Andrea Bunea, **Adela Pinte**a, Stresul oxidativ și antioxidanți naturali, Editura AcademicPres Cluj, 2014, ISBN: 978-973-744-354-0S
3. **Andrea Bunea**. Enzimele și aplicațiile lor biotehnologice, 2013. Editura AcademicPres. ISBN 978-973-744-306-9

Selective list of publications:

1. I.Grosu, L. Toupet, G. Ple, S. Mager, E. Mesaros, **Andrea Varga**, Elena Bogdan, **2000** - Synthesis and Stereochemistry of Novel Dibrominated 1,5-Dioxaspiro[5.5]undecane Derivatives , Monatshefte fur Chemie-Chemical Monthly, vol 131, p. 277-286.
2. Adela Pintea, Andrea Varga, Piotr Stepnowski, Carmen Socaciu, Monica Culea, Horst A. Diehl, **2005**- Chromatographic analysis of carotenol fatty acid esters in *Physalis alkekengi* and *Hippophae rhamnoides*. Pytochemical Analysis, Vol 16 (3):188-195
3. **Andrea Bunea**, Mirjana Andjelkovic, Carmen Socaciu, Otilia Bobis, Madalina Neacsu, Roland Verhé & John Van Camp, **2008** – Total and individual carotenoids and phenolic acids in fresh, refrigerated and processed spinach (*Spinacia oleracea* L.), Food chemistry 108:649-656
4. **Andrea Bunea**, Dumitrița O. Rugina, Adela M. Pintea, Zorița Sconța, Claudiu I. Bunea, Carmen Socaciu, **2011** - Comparative Polyphenolic Content and Antioxidant Activities of Some Wild and Cultivated Blueberries from Romania, X. Not Bot Hort Agrobot, 39 (2).
5. Adela Pintea, Dumitrita Rugină, Raluca Pop, **Andrea Bunea**, Carmen Socaciu, Diehl, H.A., **2011** - Antioxidant effect of trans-resveratrol in cultured human retinal pigment epithelial cells, Journal of Ocular Pharmacology and Therapeutics, 27(4), 315-321.
6. Adela Pintea, Dumitrita Olivia Rugina, Raluca Pop, **Andrea Bunea**, Carmen Socaciu, **2011** - Xanthophylls protect against induced oxidation in cultured human retinal pigment epithelial cells, Journal of Food Composition and Analysis, 24 (2011), 830-836.
7. **Andrea Bunea**, Dumitrița Rugină, Adela Pintea, Sanda Andrei, Raluca Pop, Claudiu Bunea, Constantin Bele, **2012** - Carotenoid and fatty acids profile of bilberries and cultivated blueberries from Romania. Chemical Papers, 66(10), 935-939.
8. Dumitrița Rugină, Zorița Sconța, Loredana Leopold, Andrea Bunea, Adela Pintea, Carmen Socaciu, **2012** - Antioxidant activities of chokeberry extracts and the antiproliferative potential of their anthocyanin fraction on HeLa human cervical tumor cells. Journal of Medicinal Food, 15(8), 700-706.
9. **Andrea Bunea**, Carmen Socaciu, Adela Pintea. Xanthophyll Esters in Fruits and Vegetables, **2014**. Not Bot Horti Agrobot, 42(2):310-324.
10. **Andrea Bunea**, Dumitrița Rugină, Zorița Sconța, Raluca Pop, Adela Pintea, Carmen Socaciu, Flaviu Tăbăran, Karin Struijs, John VanCamp, **2013**. Anthocyanin determination in blueberry extracts from various cultivars and their antiproliferative and apoptotic properties in B16-F10 metastatic murine melanoma cells. Pytochemistry, 95, 436-444.

National Projects:

Programul/Proiectul	Function	Sume	Type of financing	Period
Research Grant CNCSIS, programe type AT, no .64, code: 62- Separation, characterisation and enzymatic hydrolyses of carotenoid esters with biomedical applications	Project Manager	40.000 lei	CNCSIS Type AT	2003-2004
Research Grant CNCSIS, programe type TE, no.168- Testing antioxidant, antiprolipherative and proapoptotic properties of blueberry polyphenols extract on cell culture	Project manager	692.064 lei	CNCSIS Type TE	2010-2013

Member in the team of international projects

NATO Res. Project Ref.LST.CLG. 977807 - "Extraction and Incorporation procedures for Carotenoid Pigments in Different Food and Drug matrices"	2001-2002
Project Flandra-Romania: Gent University, Department of Food quality and Safety. Belgium. Extraction, quantification and separation of natural compounds from some vegetal sources	2003-2005

Cluj-Napoca, 24.06.2020

Prof.dr. Andrea Bunea

