

Curriculum vitae Europass



Personal information

Last name/First name **MUREȘAN ELENA ANDRUȚA**
Address
Phone
E-mail andruta.muresan@usamvcluj.ro
Nationality Romanian
Date of birth 15/07/1983

Professional experience

Period	2016 – present
Function or position held	Associate Professor (2023); Lecturer PhD (2020); Assistant Professor (2016-2020)
Main activities and responsibilities	Teaching and research activity
Name and address of employer	University of Agricultural Sciences and Veterinary Medicine, Cluj Napoca, Romania
Type of activity or sector of activity	Higher education and research
Period	19.11.2013 – 21.04.2014
Function or position held	Research Assistant in TPPA
Main activities and responsibilities	Applying appropriate research methods to achieve the project objectives; Solving technological problems related to obtaining prototypes of sugar products; Performing physico-chemical and sensory analyses / preparing interim research reports;
Name and address of employer	University of Agricultural Sciences and Veterinary Medicine, Cluj Napoca, Romania
Type of activity or sector of activity	Cercetare – Dezvoltare – PN-II-IN-CI -2013 -1- 0048
Period	13.08.2012 – 1.12.2012;
Function or position held	Research Assistant in TPPA
Main activities and responsibilities	Applying appropriate research methods to achieve the project objectives; Solving technological problems related to obtaining prototypes of sugar products; Performing physico-chemical and sensory analyses / preparing interim research reports;
Name and address of employer	University of Agricultural Sciences and Veterinary Medicine, Cluj Napoca, Romania
Type of activity or sector of activity	Research – Development – Project PN-II-IN-CI-2012-1-0047, and PN-II-IN-CI-2012-1-0010
Period	1.10.2010 – 30.09.2013
Function or position held	PhD
Main activities and responsibilities	Development of analytical methods for determining the main biochemical compounds in apples Statistical interpretation / critical discussion of the obtained scientific results; Elaboration / defense of papers according to the individual training plan in doctoral studies; Participation in symposia with scientific papers; Practical work in the discipline of Plant Raw Materials 2010-2011 / 2011-2012 / 2012-2013
Name and address of employer	University of Agricultural Sciences and Veterinary Medicine, Cluj Napoca, Romania
Type of activity or sector of activity	Research – Development – Innovation

Education and training

2025 – Habilitation thesis – domain Food engineering -Advanced analysis of vegetable raw materials and their utilization in the development of innovative food products, University USAMV, Cluj-Napoca, Romania

Period 1.10.2010 - 30.09.2013

Education level **PhD Diploma – USAMV Cluj-Napoca**

Specialization Vegetable raw materials in the food industry

Name and type of educational institution University of Agricultural Sciences and Veterinary Medicine, Cluj Napoca, Romania

Period 1.10.2006 – 8.06.2010

Education level **Engineer Diploma - Food Engineering**

Specialization Tehnologia prelucrării produselor agricole

Name and type of educational institution University of Agricultural Sciences and Veterinary Medicine, Cluj Napoca, Romania

Period 1.10.2007 – 15.02.2009

Education level **Master diploma:**

Specializarea Food protection products

Name and type of educational institution University of Agricultural Sciences and Veterinary Medicine, Cluj Napoca, Romania

Period 1.10.2002 – 4.06.2006

Diploma obținută **Chemistry Diploma**

Name and type of educational institution University Babeș - Bolyai, Cluj-Napoca, Romania

Perioada 1.10.2002 – 8.06.2006

Education level **Graduation Certificate, Department for Teacher Training**

Name and type of educational institution University Babeș - Bolyai, Cluj-Napoca, Romania

Research projects **Director / Project Manager:2**

PN-III-P1-1.1-PD-2019-1108, Research Contract No. 71 PD / 2020, "Investigation of phytochemical compounds in apple fruits from wild species, traditional and modern varieties: essential knowledge for apple breeding based on the nutrafruit concept"

PN-III-P2-2.1-CI-2018-1047, Research Contract No. 181 CI/2018, Alternative technologies for the valorization of germs and seeds of Cucurbitaceae, Asteraceae and Amaranthaceae into functional products.

Project Member for 6 National Projects

PN-III-P2-2.1-CI-2018-1352, CONTRACT 232CI/2018 - Innovation Checks, Innovative Menus for Preschoolers

PN-III-P2-2.1-CI-2018-1428, CONTRACT 245CI/2018 - Innovation Checks, Innovative Pastry Products

PN-III-P2-2.1-CI-2017-0722, CONTRACT141 CI/2017 Innovation Checks, Superior Valorization of Hemp Seed, Nettle Seed and Mushroom Flours to Obtain Innovative Bakery Products by Fortifying Them

PN-II-IN-CI -2013 -1- 0048 - INNOVATION Program Subprogram- Innovation support services "Innovation vouchers", "Technology for obtaining a functional mustard assortment with medicinal plant extract"

PN-II-IN-36 CI-2012-1-0047 - INNOVATION Program Subprogram- Innovation support services "Innovation vouchers", "Increasing productivity, competitiveness and quality of products obtained at Mag Comimpex'94"

PN-II-IN-36 CI-2012-1-0010 - INNOVATION Program Subprogram- Innovation support services "Innovation vouchers", "Research on the technology for obtaining a kit for making home beer"

Awards

Awarding of research results:

2021- PN-III-P1-1.1-PRECISI-2021-59526 (Food Safety System (HACCP) as Quality Checkpoints in a Spin-Off Small-Scale Yogurt Processing Plant, Journal Sustainability) (yellow area)

2021- PN-III-P1-1.1-PRECISI-2021-57936 The Use of Activated Micronized Zeolite Clinoptilolite as a Possible Alternative to Antibiotics and Chestnut Extract for the Control of Undifferentiated Calf Diarrhea: An In Vitro and In Vivo Study

2021- PN-III-P1-1.1-PRECISI-2021-57558 (The Physicochemical and Antioxidant Properties of Sambucus nigra L. and Sambucus nigra Haschberg during Growth Phases: From Buds to Ripening, Journal Antioxidants) (red area)

2021- PN-III-P1-1.1-PRECISI-2021-58011 (Advanced Characterization of Hemp Flour (Cannabis sativa L.) from Dacia Secuieni and Zenit Varieties, Compared to Wheat Flour, Journal Plants-Basel) (red area)

2021- PN-III-P1-1.1-PRECISI-2021- 58327 (Hemp (Cannabis sativa L.) Flour-Based Wheat Bread as Fortified Bakery Product, Journal Plants-Basel) (red area)

2021- PN-III-P1-1.1-PRECISI-2021-59457 (Changes in Physicochemical and Microbiological Properties, Fatty Acid and Volatile Compound Profiles of Apuseni Cheese during Ripening, Journal Foods) (yellow area)

2021 - PN-III-P1-1.1-PRECISI-2021-53892, pg. 80, Articol Metabolomics as a Tool to Elucidate the Sensory, Nutritional and Safety Quality of Wheat Bread—A Review

2021 PN-III-P1-1.1-PRECISI-2021-57408 (Red Oak (Quercus rubra L.) Fruits as Potential Alternative for Cocoa Powder: Optimization of Roasting Conditions, Antioxidant, and Biological Properties, Journal Forests) (red area)

2021- PN-III-P1-1.1-PRECISI-2021-55495 PUSCAS ANDREEA Phenolics Dynamics and Infrared Fingerprints during the Storage of Pumpkin Seed Oil and Thereof Oleogel

2019 - PN-III-P1-1.1- PRECISI-2019- 30552. Quantitative Analysis by HPLC and FT-MIR Prediction of Individual Sugars from the Plum Fruit Harvested during Growth and Fruit Development

2018 - PN-III-P1-1.1-PRECBVT-2018-1585 - Premiarea rezultatelor cercetarii - brevete, Procedeu de obținere a unui produs pe bază de semințe oleaginoase integrale

2018 - PN-III-P1-1.1- PRECISI-2018- 27139 - Folic acid, minerals, amino-acids, fatty acids and volatile compounds of green and red lentils. Folic acid content optimization i wheat-lentils composite flours

2018 - PN-III-P1-1.1-PRECISI-2018-21647- Bioactive Compounds and Volatile Profile Dynamics During Fruit Growth of Several Plums Cultivars

2016 - PN-III-P1-1.1- PRECISI-2016-12024- In situ analysis of lipid oxidation in oilseed based food products using near-infrared spectroscopy and chemometrics: The sunflower kernel paste (tahini) example

International Awards

POSTER Prize la 16th Euro Fed Lipid Congress Belfast, UK, September 2018, LAMI-019 Enhancing the Unsaturated Fat Content and Techno-Functional Properties of Whipped Creams by Designing New Structured Fats – Blends of Rice Bran Wax Oleogel and Butter as Fat Model Systems

Best Poster Award - International Conference on Obesity and Diet Imbalance, The higher utilization of flour from nettle seeds in order to obtain innovative bakery products by their fortification

Computer skills

Microsoft 2010 Office tools (Word, Excel, PowerPoint), Minitab (16) Statistics

Mother tongue

Română

Known street languages

Autoevaluare

Understanding

Speaking

Writing

Nivel european (*)	Listening	Reading	Spoken interaction	Spoken production	Writing
Limba engleză	B2	B2	B2	B2	B1
Limba franceză	B2	B2	B2	B2	B2

Hobby Swimming, Travel.

Communication skills Good communication skills acquired through own teaching experience at the university and postgraduate level.

Organizational/managerial skills Member of the organizing committee of the international symposium "Prospects for the 3rd Millennium Agriculture"
Member of the admission committee of the Faculty of Food Science and Technology
Member of the committee for promoting the study programs of USAMV Cluj-Napoca
Member of the committees for the master's dissertation examination - Food processing systems and quality control
Member of the committees for the bachelor's degree examination - Agricultural product processing technology, Food engineering, Food product control and expertise

Additional Information Member of the Association of Romanian Food Industry Specialists in Education, Research and Production (ASIAR). from 2016 - 2023

Member of EPSO – European Plant Science Organisation from 2017 -2023

Member of Slow Food, Convivium: Cluj Transilvania – from 2016 -2023

Patents

1. Muresan AE, Mureșan V, Muste S, Racolta E, Stan L, Nicolae M, Galchis GF, Vlaic RA, Petru G (2023) Patent No. RO 134168 /2023, "Nutritional bar composition based on flour from dried seed germs from the cucurbitaceae, asteraceae and amaranthaceae families"
2. Muresan V, Rotar AR, Racolta E, Mureșan AE, Coman C, Pop OL, Vlaic RA, Muste S, (2023), Patent No. RO 133598 /2023 "Compositions for nutritionally optimized sugar products"
3. Muresan V, Racolta E, Socaciu C, Muste S, Muresan EA, (2018) Patent of Invention no. RO 131181 /2018 "Process for obtaining a product based on whole oilseeds" (CBI A 00981 / 12.12.2014 nutritional"

Member of the Editorial Board **Member of the Editorial (Scientific) Committee of some QUOTED/INDEXED journals - Web of Science or Guest Editor - special Issue**

Guest Editor of Special Issue "Spicy and Aromatic Plants", Topical Advisory Panel Member of Agronomy, Topical Advisory Panel Member of Sustainability, Topical Advisory Panel Member of Applied Sciences, Topical Advisory Panel Member of Nutrients, Topical Advisory Panel Member of International Journal of Molecular Sciences, Horticulturae- Reviewer Board.

Member of the Editorial (Scientific) Committee of some journals included in international databases (BDI); Guest Editor- special Issue

Frontiers in Food Science and Technology, Current Investigations in Agriculture and Current Research (CIACR), International Journal of New Innovations in Engineering and Technology, Journal of Nutrition Food Science and Technology, Acta Scientific Nutritional Health, Journal of Gynecology and Reproductive Health, Annals of Agricultural & Crop Sciences, Asian Journal of Food Research and Nutrition, Medicon, Journal of Microbiology and Biotechnology Reports

Awards obtained with coordinated students 2022- Student Scientific Session, Faculty of Food Engineering, Tourism, and Environmental Protection, The XXth Edition, November 24-26, 2022, Arad, Romania, FOR THE SCIENTIFIC PAPER: VALORISATION OF ACACIA FLOWER POWDER (*ROBINIA PSEUDOACACIA*) IN THE MANUFACTURING OF GLUTEN-FREE GINGERBREAD (stud. Cristina Berengea)

Coordinated undergraduate and dissertation theses

2023 - Direct coordination of 2 bachelor's theses and 4 dissertations
2022 - Direct coordination and co-supervision of 3 bachelor's theses and 3 dissertations
2021 - Direct coordination and co-supervision of 7 bachelor's theses and 2 dissertations
2020 - Direct coordination and co-supervision of 4 bachelor's theses
2019 - Direct coordination and co-supervision of 11 bachelor's theses
2018 – Direct coordination and co-supervision of 12 bachelor's theses
2017 – Direct coordination and co-supervision of 7 bachelor's theses
2016 – Direct coordination and co-supervision of 3 bachelor's theses

ISI Web of Science Core Collection indexed publications with Impact Factor/ publications indexed in other international databases (BDI)

ISI Web of Science publications: 32 scientific articles, of which 28 in ISI WoS journals with impact factor (9 main author). BDI publications: 36 scientific articles, of which 15 main author, 3 Invention Patents, 1 teaching manual and 1 practical work guide, 2 scientific books and 2 chapters in international publishing houses

Selection:

1. **Mureșan Andruța E.**, Sestras Adriana F., Militaru Madalina, Pucean Adriana, Tanislav Anda E., Pușcaș Andreea, Mateescu Madalina, Mureșan Vlad, Marc (Vlaic) Romina A., Sestras Radu E., Chemometric comparison and classification of 22 apple genotypes based on texture analysis and physico-chemical quality attributes, *Horticulturae* 2022, 8, 64. <https://doi.org/10.3390/horticulturae8010064> (IF = 2.923, Q1)
2. Marțiș, (Petruț) Georgiana Smaranda, Mureșan Vlad, Marc (Vlaic) Romina Maria, Mureșan Crina Carmen, Pop Carmen Rodica, Buzgau Giorgia, **Mureșan Andruța Elena**, Ungur Rodica Ana, Muste Sevastița, The Physicochemical and Antioxidant Properties of *Sambucus nigra* L. and *Sambucus nigra* Haschberg during Growth Phases: From Buds to Ripening, *Antioxidants* 2021, 10, 1093. <https://doi.org/10.3390/antiox10071093> (IF = 7.675, Q1)
3. Romina A. VLAIC¹, Vlad MUREȘAN¹, **Andruța E. MUREȘAN^{1*}**, Crina C. MUREȘAN, Adriana PĂUCEAN, Viorel MITRE, Simona M. CHIȘ, Sevastița MUSTE, The Changes of Polyphenols, Flavonoids, Anthocyanins and Chlorophyll Content in Plum Peels during Growth Phases: from Fructification to Ripening, *Not Bot Horti Agrobo*, 2018, 46(1):148-155. DOI:10.15835/nbha46111017, Print ISSN 0255-965X; Electronic 1842-4309, Available online: www.notulaeobotanicae.ro (IF 0.648)
4. R. A. Vlaic, S. A. Socaci, **A. E. Mureșan**, C. Mureșan, O. P. Moldovan, S. Muste*, and V. Mureșan, Bioactive Compounds and Volatile Profile Dynamics During Fruit Growth of Several Plums Cultivars, *J. Agr. Sci. Tech.* (2017) Vol. 19: 1565-1576, <http://jast.modares.ac.ir/article-23-7975-en.html>, (IF 0.89)
5. Marc (Vlaic) Romina Alina, Niculae Mihaela, Páll Eموke, Mureșan Vlad *, **Mureșan Andruța ***, Tanislav Anda, Pușcaș Andreea, Mureșan Crina Carmen, Cerbu Constantin, Red Oak (*Quercus rubra* L.) Fruits as Potential Alternative for Cocoa Powder: Optimization of Roasting Conditions, Antioxidant, and Biological Properties, *Forests* 2021, 12, 1088. <https://doi.org/10.3390/f12081088> (IF = 3.282, Q1).
6. Pușcaș Andreea, Tanislav Anda E., Marc Romina A., Mureșan Vlad, **Mureșan Andruța E.***, Pall Eموke, Cerbu Constantin, Cytotoxicity Evaluation and Antioxidant Activity of a Novel Drink Based on Roasted Avocado Seed Powder, *Plants* 2022, 11, 1083. <https://doi.org/10.3390/plants11081083> (IF = 4.658, Q1)
7. Pușcaș Andreea, Tanislav Anda Elena, Marc Romina Alina, Mureșan Vlad, **Mureșan Andruța Elena***, Valorization of mango peel and seed wastes in a biologically enriched biscuit assortment, *Turkish Journal of Agriculture and Forestry* 2023, 47(6), 29, <https://doi.org/10.55730/1300-011X.3156> (IF=2.669, Q1)
8. Szanto L.G.; Marc, R.A.*; **Muresan, A.E.***; Muresan, C.C.; Puscas, A.; Ranga, F.; Fetea, F.; Moraru, P.I.; Filip, M.; Muste, S. Improving Jelly Nutrient Profile with Bioactive Compounds from Pine (*Pinus sylvestris* L.) Extracts. *Forests* 2025, 16, 11. <https://doi.org/10.3390/f16010011>, (IF 2.4, Q1),
9. **Andruța E. Mureșan**, Simona Man, Sonia A. Socaci, Andreea Pușcaș, Anda Elena Tanislav, Eموke Pall, Vlad Mureșan*, and Constantin G. Cerbu, Functionality of Muffins Fortified with Apple Pomace: Nutritional, Textural, and Sensory Aspects, *Appl. Sci.* 2024, 14, 6439. <https://doi.org/10.3390/app14156439>, (IF 2.5, Q1.)
10. Alexandra Mădălina Mateescu, **Andruța Elena Muresan***, Andreea Puscas, Vlad Muresan, Radu E. Sestras and Sevastița Muste, Baby food purees obtained from ten different apple cultivars and vegetable mixtures: product development and quality control, *Appl. Sci.* 2022, 12, 12462. <https://doi.org/10.3390/app122312462>, (IF 2.838, Q2)

Cluj-Napoca

Associate Professor Andruța Elena Mureșan