



Curriculum vitae Europass
Personal information

Surname(s) / First name(s)

Mironescu, Monica

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Nationality

Romanian

Date of birth

18.08.1970

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Linkedin ID

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Work experience

Period

2014- present

Occupation or position held

Associate professor at Faculty of Agricultural Sciences, Food Industry and Environmental Protection, Department of Agricultural Sciences and Food Engineering

Main activities and responsibilities

Member in the Internationalization Commission at University Lucian Blaga of Sibiu (ULBS)
Erasmus responsible at the Faculty of Agricultural Sciences, Food Industry and Environmental Protection

Coordinator of Biotechnology and Microbiology lab at the Research Center in Biotechnology and Food Engineering from ULBS

Teaching and research in the field of: Novel food // Hygiene // Sugars (sugar and replacers, starch and derivatives, confectionery, chocolate and sweets): Technology, engineering, quality assurance and safety

Name and address of employer

University Lucian Blaga of Sibiu, Romania

Type of business or sector

Activity as university teaching, scientific activity, didactic activity and research activity in the area of novel food, food hygiene, sugars, starch and confectionery industry. Coordinator for students master and bachelor projects

Period

2002- 2013

Occupation or position held

Lecturer at Faculty of Agricultural Sciences, Food Environmental Protection

Main activities and responsibilities

Teaching and research in the field of: Food biotechnology // Hygiene // Sugars (sugar and sugar replacers, starch and derivatives, confectionery) Technology, Engineering and Quality control, Quality assurance and food safety in sugar, starch and confectionery industry

Name and address of employer

„Lucian Blaga” University of Sibiu, Romania

Type of business or sector

University teaching, scientific activity, didactic activity and research activity in the area of food biotechnology, especially hygiene, starch and confectionery industry. Coordinator for students master and bachelor projects

Period

1996- 2002

Occupation or position held

Assistant at Faculty of Agricultural Sciences, Food Industry and Environmental Protection

Main activities and responsibilities

Teaching and research in the field of: Microbiology // Starch and Confectionery Technology, Engineering and Quality control

Name and address of employer

„Lucian Blaga” University of Sibiu, Romania

Type of business or sector

University teaching, scientific activity, didactic activity and research activity in the area of food biotechnology, especially food microbiology; starch and confectionery industry.

Education and training

Period Title of qualification awarded Principal subjects/Occupational skills covered Name and type of organisation providing education and training	August 2010 – October 2011 Postdoctoral studies with the final work „Researches on starch capitalisation by enzymatic and microbial bioconversion and creation of an expert system in food biotechnology for command and control of starch bioconversion”/ Postdoctoral School for Biodiversity and Food Biotechnology based on Eco-economy and Bio-economy Microbial and enzymatic biotechnology Command and control of microbial and enzymatic bioprocesses, specialised on starch superior capitalisation Romanian Academy, National Institute for Economical Researches „Costin C. Kirişescu” / „Lucian Blaga” University of Sibiu, Romania
Period Title of qualification awarded Principal subjects/Occupational skills covered Name and type of organisation providing education and training	October 1997- February 2006 Ph.D in the field Industrial Engineering with the thesis “Studies and researches on the production and characterisation of microbial polysaccharides by using the microorganism <i>Haloferax mediterranei</i>”, scientific coordinator Prof. Dr. Ing. Vasile Jâşcanu Universitatea Lucian Blaga din Sibiu, Romania, in collaboration with Prof. Dr. Ing. Clemens Posten Technical University of Karlsruhe (actually Karlsruhe Institute of Technology), Germania Bioengineering/ Obtaining and characterisation of microbial polysaccharides „Lucian Blaga” University of Sibiu, Romania, Technical University of Karlsruhe (actually Karlsruhe Institute of Technology), Germania
Period Title of qualification awarded Principal subjects/Occupational skills covered Name and type of organisation providing education and training	October 1995 – July 1996 Master Special technologies in the food industry „Dunărea de Jos” University from Galaţi, România
Period Title of qualification awarded Principal subjects/Occupational skills covered Name and type of organisation providing education and training	October 1990 - July 1995 Engineering in food industry Technologies and equipment in dairy, fermentative, starch and confectionery industry „Dunărea de Jos” University from Galaţi, România

Language skills and competences

Mother tongue(s)

Romanian

Other language(s)

Self-assessment

European level ()*

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	

English	B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user
German	B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user
French	C1 Advanced user	C1 Advanced user	C1 Advanced user	C1 Advanced user	B2 Independent user

(*) Common European Framework of Reference (CEF) level

Novel food and sustainability

Biopolymers as edible films and coatings

Food sugars (sugar and sugar replacers, starch, confectionery, honey)

Natural antimicrobials

Hygiene

- 4 scientific books + 3 applicative books for students, in the field of starch and confectionery technology, food microbiology and food hygiene;
- 130 research papers (61 WOS and international databases, 52 in international conferences proceedings and abstract books, 17 in other publications)

Scientific and technical Expertise

Researches applications/ published papers

Projects

International projects

- Member project COST "MIC Network – New paths for science, sustainability and standards" 2021-2025, <https://www.cost.eu/actions/CA20130/>
- Member project Erasmus+ Strategic Partnership in Higher Education, entitled *UniverCity – Strategic Partnerships of Higher Education for Community*, UniverCity Project no. 2020-1-BG01-KA203-079271, 2020-2023, <https://sites.google.com/ulbsibiu.ro/university/>, Beneficiary subproject "Application of the Zero Waste principle to the development of the range of local beekeeping products through the superior utilization of residues"
- **Responsible** Partner ULBS international project Erasmus+ Capacity Building in Higher Education, intitulat "Strategic Platform for Ameliorating Tunisian Higher Education on Food Sciences and Technology" SPAAT4FOOD, Project no. 585729-EPP-1-2017-1-TN-EPPKA2-CBHE-JP, oct. 2017 – aug. 2021, <https://www.spaat4food.com/>
- Member to the international project Erasmus+ action KA2 Cooperation for Innovation and the Exchange of Good Practices Strategic Partnerships for Higher Education, entitled "Knowledge triangle for food innovation by harnessing the tradition and assuring sustainability" KNOWinFOOD, identifier 2016-1-RO01-KA203-024797, sep 2016 - feb 2019, <http://knowinfood.grants.ulbsibiu.ro/ro/home/>, <http://ec.europa.eu/programmes/erasmus-plus/projects/eplu-project-details-page/?nodeRef=workspace://SpacesStore/33518701-7133-417c-a41f-0f9afa302fc0>
- **Director** the international mobility grant (Joint research project) "Contemporary methods for control and characterisation of EPS and PHB produced by microorganisms" with Bulgarian Academy of Science, Sofia, Bulgaria, Ian. 2012-Dec.2014
- Member to the international project Leonardo LLP-LdV/TOI/2013/RO?007; 2013-1-RO1-Leoo5-28756; ID:536962 "Transfer of innovation-European food safety training", Nov. 2013-Nov.2015, www.efst.eu
- Member to the international project NUTritional LABeling Study in Black Sea Region Countries, Project number: 318946 - FP7-PEOPLE - 2012 – IRSES, <http://www.nutrilabproject.eu/>
- Member to the international mobility Joint research project "Monitoring of biotechnological processes for quality control in the food industry", with Bulgarian Academy of Science, Sofia, Bulgaria, ian. 2007- dec. 2010
- Beneficiary of Socrates/Erasmus grant „Methoden zur Charakterisierung degradierter Stärkemoleküle (Amylopektin) mittels Gel-Permeations-Chromatographie (GPC)“ at Universität Karlsruhe, Institut für Lebensmittelverfahrenstechnik, Karlsruhe, Germania, iun.-aug.2005
- Beneficiary grant from the Program Kompetenznetz Verfahrenstechnik PRO3, Germania, "Optimierung der fed-batch Kultivierung der Mikroorganismen", 01.01.-30.09.2002

- Member international project „Optimisation of batch fermentation processes in food industry“ Topical group K Biotechnology no. 6.K0A.6.A, coordinators Prof. Dr. C. Posten, Universität Karlsruhe, Institut für Mechanische Verfahrenstechnik und Mechanik, Karlsruhe (German partner) and Prof. Dr. R. Tzoneva, PeninsulaTechnikon, Dept. of Electrical Engineering (South Africa partner), 2002

National projects

- Responsible for training activities and internationalization project “ULBS Fostering Global Growth”, code CNFIS-FDI-2024-F-0434, 01.05.2024-15.12.2024
- Trainer in the ROSE secondary education project, sub-project "Summer AGRI-FOOD", grant no. AG328/SGU/PV/III code COR 242401
- Responsible for training activities and internationalization project “Connecting the world through International Academic Cooperation”, code CNFIS-FDI-2021-0097, code COR 235104
- **Manager** Project "Research on production optimization and quality assurance in honey processing units" service contract research no. 9/21.12.2020 with the Association of Bee Honey Processors and Exporters from Romania (Asociația Procesatorilor și Exportatorilor de Miere de Albine din România) APEMAR
- **Director** national research project CNCIS nr. 473 program "Ideas – Exploratory research" entitled „Cercetări privind producerea, caracterizarea și modelarea structurală și funcțională a polizaharidelor sintetizate de microorganisme extrem halofile - Researches on the production, characterisation and structural and functional modelling of polysaccharides synthesised by extremely halophilic microorganisms”, 2009-2011
- Expert to POS DRU project 39/3.2/G/ 26960 “Formare profesională continuă în scopul creșterii competitivității organizațiilor din domeniul alimentar privind asigurarea calității proceselor și siguranța alimentului” (Continue professional learning to increase food quality assurance and food safety), 2009-2011.
- Subproject „Expert system in food biotechnology for command and control of starch bioconversion” in the project POSDRU/89/1.5/S/63258, Postdoctoral School for Biodiversity and Food Biotechnology based on Eco-economy and Bio-economy, 2010-2011
- Member to the research project PNCDI2 no. 91-011 “Produse și tehnologii ecologice pentru conservarea integrată a patrimoniului cultural național arhitectural din zona Sibiu-Capitală culturală europeană 2007” (Ecological products and technologies for integrate preservation of the national architectural heritage in the region Sibiu-European cultural city), 2007-2010
- Member to the research project CEEX 3822 no. 135/2005-2008 „ Tehnologii moderne neconvenționale, conforme cu reglementările europene, de epurare a apelor uzate și de tratare a nămolului rezidual în scopul reutilizării acestuia” (Modern non-conventional technologies, in accordance with the European legislation, for wastewater cleaning and treatment of residual mud for reutilisation), 2008-2010
- Member to the research project AGRAL nr. 2032/2004-2007 „Studii privind reevaluarea și elaborarea de soluții pentru valorificarea lacurilor de la Ocna Sibiului ca obiectiv turistic, balneoclimateric și de agrement turistic” (Studies on re-evaluation and finding solutions for the capitalisation of Ocna Sibiului lakes as touristic and climatic objective), 2004-2007
- Member to the research project 7659/2001 with ANSTI, " Sistem de asistarea a deciziei la conceperea și conducerea proceselor de obținere enzimatică a siropurilor de glucoză" (Decision support system at command and control processes for the enzymatic obtaining of glucose syrups), 2001
- Member to the research project 27/1998 theme 9 code CNCSU 196 " Mediu virtual de învățare pentru industria zahărului" (Learning virtual environment for sugar industry), 1998

Editorial activity

Managing editor to the journal „ Acta Universitatis Cibiniensis. Series E: Food Technology”, <http://www.degruyter.com/view/j/auft>

Editor to the journal "The Bulletin of the Polytechnic Institute of Iași",

<http://www.bipcic.icpm.tuiasi.ro/editorialboard.html>

Editor to the journal Agrarian Science,

<https://www.vetpress.ru/jour/pages/view/Editorial><https://www.vetpress.ru/jour/index>

Erasmus activity

Erasmus agreements started and sustained, with:

- Karlsruhe Institute of Technology, Germany, since 2005
- Bulgarian Academy of Sciences, Bulgaria, since 2005
- University of Food Technology, Plovdiv, Bulgaria, since 2012
- Université Claude Bernard de Lyon, France, since 2018
- University of Debrecen, Hungary, since 2018
- Universidade Católica Portuguesa, Portugal, since 2019
- University of Sfax, Tunisia, since 2019
- University of West Attica, Greece, since 2022
- Centrale Supélec, France, since 2024
- University Gaziantep, Turkey, since 2025

Courses and specialisations

- 2020 expert Manager of social enterprises
- 2018 Courses on "Student-centered learning through Project Based Learning" project CNFIS - FDI - 2018 - 0957
- 2017-2018 Courses on Didactic and psychology at high education level, Scientific research, in the project „Passion in teaching, excellence in research”, CNFIS-FDI-2017-042
- 2014-2015 Post-university courses in the project "Universitaria - Școala de didactică universitară și cercetare științifică" (Universitaria – School of university didactic and scientific research), Project ID: POSDRU 157/1.3/S/135590
- 2012-2013 Post-university courses in the project "Școală universitară de formare inițială și continuă a personalului didactic și a trainerilor din domeniul specializărilor tehnice și ingineresti" (University school for initial and continue formation of teachers in the technical and engineering field), DidaTec, project POSDRU/87/1.3/S/60891
- 2013 Post-university classes in the project "Dezvoltarea și implementarea unui program-pilot integrat pentru creșterea accesului la învățământul superior pentru persoane cu dizabilități" (Developing and application on an integrated pilot-program for increasing the access to high education for persons with disabilities), project POSDRU/86/1.2./S/63951
- 2012-2013 Post-university classes in the project "Excelență academică în învățământul la distanță și învățământul cu frecvență redusă – un demers pentru calitate" (Academic excellence in the long-distance learning – an ask for quality), project POSDRU/86/1.2/S/61878
- Oct 2010-sep 2011 Post-university classes in the project POSDRU/89/1.5/S/63258, Școala Postdoctorală pentru Biodiversitate Zootehnică și Biotehnologii Alimentare pe baza Ecoeconomiei și Bioeconomiei necesare Ecosanogenezei (Postdoctoral School for Biodiversity and Food Biotechnology based on Eco-economy and Bio-economy)
- 2009 Course "Advanced methods in polysaccharides research", Turku-Abo, Finlanda
- 2009 Course „Food hygiene, from equipment design to GHP implementation”, Bucharest, organised de EHEDG, INMA, USAMV Bucharest, IBA and ASAS
- 2005 Course Lebensmittelverfahrenstechnik - Prof. Dr. Ing. Heike Schuchmann, Universitatea „Friedericiana” Karlsruhe (TH), Germania
- 2005 Course Einführung in Rheologie - Dr. Ing. Bernard Hochstein, University „Friedericiana” Karlsruhe (TH), Germany
- 2005 Course Managementul proiectului (Project management)– Conf. Dr. Dumitrașcu Dan, University „Lucian Blaga” Sibiu, Romania
- 2001 Course Integrierte Bioprozesse - Prof. Dr. Ing. Clemens Posten University „Friedericiana” Karlsruhe (TH), Germany
- 2001 Course „LabView” – specialist from NI Instruments

Research stages abroad

22 aug. – 22 sep. 2011: research stage at Institute of System Engineering and Robotics , Bulgarian Academy of Science, Sofia, Bulgaria

1 june-31 august 2005: research stage as Erasmus student at the Food Engineering Institute, Technical University of Karlsruhe, Germany, professor Heike Schuchmann, finalised with the research work „Characterization of degraded starch molecules using Gel Permeation Chromatography (GPC)”

1 january 2001 – 31 sep. 2002: doctoral research stage at the Institute for Bioengineering, Technical University of Karlsruhe, Germany, professor Clemens Posten

1 march – 31 august 2000: research stage at the Institute for Bioengineering, Technical University of Karlsruhe, Germany, professor Clemens Posten, finalised with the research work “CO₂ Gleichgewicht in biologische Medien”.

Organising competency and skills

- Member in the organisation committee of the International Conference “*Agricultural and Food Sciences, Processes and Technologies*”, 2007, 2010, 2012, 2014, 2015, 2017 and of the International Conference Integrated Systems in Agriculture and Food 2007, 2013
- Member in the organisation committee of the International Congress CEFOOD 2018 <http://ceefood.conferences.ulbsibiu.ro/2018/>
- President in 12 commissions for according the 1st degree at gymnasium professors

Skills and competences in activities with students

Students contests

Tutorial activity with students in bachelor and master projects, since 2003.

- Coordinating three teams formed by international students (from universities: Zaragoza in Spain, Debrecen in Hungary, Plovdiv in Bulgaria, Lyon in France and Sibiu in Romania) in the frame of the Erasmus KA220-HED project “E-learning tools for Food technology and development education” E-FOOD, code project 2022-1-BG01-KA220-HED-000085089, <http://www.e-food.uft-plovdiv.bg/>; in the period May-July 2025 the students worked in online and realised case studies for developing novel food products
- Participation with students at the national contest Ecotrophelia 2019, local phase ULBS, where the students coordinated by me won the prize I, and then participation at the national phase with the product *SIBBAR- sustainable vegetable-based bar with fruits*
- Participation with students at the national contest Ecotrophelia 2018, local phase ULBS, where the students coordinated by me won the prize I and then at the national phase, the fourth place with the product *Sweet Hermannstadt – flavour from nature: starch-based jelly with essential oils*
- Participation with students in the contest “*Gastronomia tradițională locală: valori reinterpretate prin tineri pentru noi toți*” organised by ULBS and Local Council Sibiu and Townhall Sibiu in 2017, where the students coordinated by me won the prize for innovative products
- Participation with students at the national contest Ecotrophelia 2014, local phase ULBS, where the students coordinated by me won the prizes I and III, and then at the national phase, the third prize and the special prize “*Expergo Innovation Award*” for the best product with the best integrated sensory attributes for the product *Mirabelle – chocolate candies with interior Mirabelle jam, goji and apricot kernels*

Other

- Organisation of the Annual students’ symposium in the field of Food Technologies (XXIII edition in 2024)
- Organisation of the Annual students symposium in the field of Confectionery Technology (XIX edition in 2019) and workshop Sweet Xperience (6th edition in 2024)

Inventions

- Member invention „Compozitii biocide pentru reabilitarea conservativa a fatadelor biodeteriorate ale edificiilor de piatra si zidarie veche” (Biocidal compositions for preserving stone and brick old buidings) registered to OSIM with no. RO 127610-A2.

**Member in scientifically
organisations**

Asociația Specialiștilor de Industrie Alimentară din România ASIAR din învățământ, cercetare și producție (Association of specialists from the food industry in Romania in education, research and production)

Centrul de Cercetare în Biotehnologii și Inginerii Alimentare CCBIA, ULBS (Research centre in biotechnology and food technology)

ISEKI Food Association

Societatea Română de Biologie Celulară SRBC (Romanian Society for Cell Biology) until 2015

**Computers competency &
knowledge**

Office (Excel, Word, PowerPoint)

16.07.2025

Assoc Prof. Dr. Ing. Monica MIRONESCU



ADDITIONAL INFORMATION

Doctoral thesis

„Studii și cercetări privind producerea și caracterizarea polizaharidelor de origine microbiană folosind microorganismul *Haloferax mediterraneus*”. Doctor în „Științe ingineresti”, domeniul Inginerie industrială, conducător științific Prof. Dr. Ing. Vasile Jâșcanu Universitatea Lucian Blaga din Sibiu, Romania, în cotutelă cu Prof. Dr. Ing. Clemens Posten Universitatea Tehnică Karlsruhe, Germania

Postdoctoral studies

„Sistem expert în biotehnologii alimentare pentru conceperea și conducerea proceselor de bioconversie a amidonului”, Școala Postdoctorală pentru Biodiversitate Zootehnică și Biotehnologii Alimentare pe baza Ecoeconomiei și Bioeconomiei necesare Ecosanogenezei, Academia Română

Books:

1. Mironescu Monica, *Știința și tehnologia produselor zaharoase*, Ed. Performantica, , ISBN 978-606-685-482-5, Iași, 2016, 187 p
2. Mironescu Monica, *Tehnologia amidonului*, 250 p., Ed. Univ. Lucian Blaga Sibiu, ISBN 978-606-12-1186-9, 2015
3. Mironescu M., Mironescu I.D., *Bioingineria amidonului. Vol I. Amidonul. Enzimele amilolitice și modul lor de acțiune. Bioconversia amidonului la siropuri de glucoză și maltoză*, 255 p., Ed. Univ. Lucian Blaga Sibiu, 2014, ISBN 978-606-12-0807-4 978-606-12-0808-1
4. Mironescu M., *Igiena în industria alimentară. Manual pentru uzul studenților la forma de Învățământ la Distanță*, Editura Universității "Lucian Blaga" din Sibiu, 2013, ISBN 978-606-12-0446-5, 137 p.
5. Mironescu V., Mironescu M., *Obținerea și asigurarea calității produselor zaharoase*, Editura Universității "Lucian Blaga" Sibiu, 2000, vol I, 250p, ISBN 973-651-153-7
6. Mironescu V., Mironescu M., *Obținerea și asigurarea calității produselor zaharoase*, Editura Universității "Lucian Blaga" Sibiu, 2000, vol II, 272p., ISBN 973-651-158-8
7. Oprean L., Mironescu M., *Microbiologie. Lucrări practice*, Ed. Univ. "Lucian Blaga", Sibiu, ISBN 973-651-166-9, 2000, 271 pp.

+ chapters books:

8. Mironescu M., *Aspecte bioenergetice ale halofilismului*, în "Biodinamica lacurilor de la Ocna Sibiului", ed. Letiția Oprean, p. 60-82, Ed. Univ. "Lucian Blaga", Sibiu, 2008, ISBN 978-973-569-6
9. Mironescu M., *Ameliorarea calității microbiologice a nămolurilor terapeutice din lacurile de la Ocna Sibiului*, în "Biodinamica lacurilor de la Ocna Sibiului", ed. Letiția Oprean, p. 250-270, Ed. Univ. "Lucian Blaga", Sibiu, 2008, ISBN 978-973-569-6
10. Mironescu I.D., Mironescu M., "Modelarea matematică a influenței unor factori asupra calității microbiologice a nămolului rezidual tratat cu microunde" (cap. 41.8), în "Apa – resursa fundamentală a dezvoltării durabile. Metode și tehnici neconvenționale de epurare și tratare a apei", Coordonator Letiția Oprean, Editura Academiei Române, București, 2012, vol. III, p. 540-550, ISBN 978-973-27-2269-5

Main publication ISI/ Clarivate Analytics or indexed in international databases

1. Virchea L-I, Frum A, Georgescu C, Pecsénye B, Máthé E, **Mironescu M**, Crăciunaș M-T, Totan M, Tănăsescu C, Gligor F-G. An Overview of the Bioactivity of Spontaneous Medicinal Plants Suitable for the Improvement of Lung Cancer Therapies. *Pharmaceutics*. 2025; 17(3):336. <https://doi.org/10.3390/pharmaceutics17030336>
2. Kumarasamy, R. V., Natarajan, P. M., Umapathy, V. R., Roy, J. R., **Mironescu, M.**, & Palanisamy, C. P. (2024). Clinical applications and therapeutic potentials of advanced nanoparticles: A comprehensive review on completed human clinical trials. *Frontiers in Nanotechnology*, 6, 1479993
3. Jin W., Pei J., Roy J. R., Jayaraman S., Ahalliya R. M., Kannappan G. V., **Mironescu M.**, Palanisamy C. P., Comprehensive review on single-cell RNA sequencing: A new frontier in Alzheimer's disease research, *Ageing Research Reviews*, 2024, Vol. 100, 102454, ISSN 1568-1637, <https://doi.org/10.1016/j.arr.2024.102454>. (<https://www.sciencedirect.com/science/article/pii/S1568163724002721>)
4. Pei J., Palanisamy C. P., Srinivasan G. P., Panagal M., Kumar S. S. D., **Mironescu M.**, A comprehensive review on starch-based sustainable edible films loaded with bioactive components for food packaging, *International Journal of Biological Macromolecules*, 2024, Volume 274, Part 1, 133332, ISSN 0141-8130, <https://doi.org/10.1016/j.ijbiomac.2024.133332>. <https://www.sciencedirect.com/science/article/pii/S0141813024041370>)
5. Pei J, Palanisamy CP, Jayaraman S, Natarajan PM, Umapathy VR, Roy JR, Thalamati D, Ahalliya RM, Kannappan GV, **Mironescu M**. Proteomics profiling of extracellular vesicle for identification of potential biomarkers in Alzheimer's disease: A comprehensive review. *Ageing Res Rev*. 2024 Aug;99:102359. doi: 10.1016/j.arr.2024.102359. <https://www.sciencedirect.com/science/article/abs/pii/S1568163724001776>
6. Pei J., Yan Y., Jayaraman S., Rajagopal P., Natarajan P. M., Umapathy V. R., Gopathy S., Roy J. R., Sadagopan J. C., Thalamati D., Palanisamy C. P., **Mironescu M.**, A review on advancements in the application of starch-based nanomaterials in biomedicine: Precision drug delivery and cancer therapy, *International Journal of Biological Macromolecules*, 2024, Volume 265, Part 1, 130746, ISSN 0141-8130, <https://doi.org/10.1016/j.ijbiomac.2024.130746>. (<https://www.sciencedirect.com/science/article/pii/S0141813024015502>)
7. Pei J., Yan Y., Palanisamy C. P., Jayaraman S., Natarajan P. M., Umapathy V. R., Gopathy S., Roy J. R., Sadagopan J. C., Thalamati D., **Mironescu M.** "Materials-based drug delivery approaches: Recent advances and future perspectives" *Green Processing and Synthesis*, vol. 13, no. 1, 2024, pp. 20230094. <https://doi.org/10.1515/gps-2023-0094>
8. Tarapoulouzi, M.; **Mironescu, M.**; Drouza, C.; Mironescu, I.D.; Agriopoulou, S. Insight into the Recent Application of Chemometrics in Quality Analysis and Characterization of Bee Honey during Processing and Storage. *Foods* 2023, 12, 473. <https://doi.org/10.3390/foods12030473>
9. Palanisamy, C.P., Pei, J., Alugogu, P., Anthikapalli, N.V.A., Jayaraman, S., Veeraraghavan, V.P., Gopathy, S., Roy, J.R., Janaki, C.S., Thalamati, D., **Mironescu, M.**, Luo, Q., Miao, Y., Chai, Y., Long, Q. New strategies of neurodegenerative disease treatment with

- extracellular vesicles (EVs) derived from mesenchymal stem cells (MSCs). *Theranostics*, 2023, 13(12), 4138-4165. <https://doi.org/10.7150/thno.83066>
10. Georgescu C, Frum A, Virchea LI, Sumacheva A, Shamtsyan M, Gligor FG, Olah NK, Mathe E, **Mironescu M.**, Geographic Variability of Berry Phytochemicals with Antioxidant and Antimicrobial Properties. *Molecules*. 2022 Aug 5; 27 (15): 4986. doi: 10.3390/molecules27154986. PMID: 35956934; PMCID: PMC9370609. <https://www.mdpi.com/1420-3049/27/15/4986>
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