

## LISTA DE LUCRĂRI

Conf. dr. ing. MIRONESCU Monica

### Teza de doctorat

“Studii și cercetări privind producerea și caracterizarea polizaharidelor de origine microbiană folosind microorganismul *Haloferax mediterranei*”. Doctor în specializarea „Științe inginerești”, 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

### Studii postdoctorale

„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

### Proiecte de cercetare:

- **Proiecte în cadrul unor programe internaționale**

- 1) Coordinator Partner ULBS international project Erasmus+ Capacity Building in Higher Education, intitulat ”Strategic Platform for Ameliorating Tunisian Higher Education on Food Sciences and Technology” SPAAT4FOOD, Application Reference Number 585729-EPP-1-2017-1-TN-EPPKA2-CBHE-JP, sep 2017-oct. 2021, spaat4food.com
- 2) Membru la proiect internațional ERASMUS+, acțiunea KA2 Cooperation for Innovation and the Exchange of Good Practices Strategic Partnerships for Higher Education, intitulat ”Knowledge triangle for food innovation by harnessing the tradition and assuring sustainability” KNOWinFOOD, identificier 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>
- 3) Membru la proiect internațional Leonardo LLP-LdV/TOI/2013/RO?007;2013-1-RO1-Leo05-28756; ID:536962 ”Transfer of innovation-European food safety training”, Nov. 2013-Nov.2015 [www.efst.eu](http://www.efst.eu)
- 4) Membru la proiectul internațional FP7 NUTritional LABELing Study in Black Sea Region Countries, Project number: 318946 - FP7-PEOPLE - 2012 - IRSES, <http://www.nutrilabproject.eu/>

- **Proiecte în cadrul unor programe naționale**

- 1) Director la grant de cercetare național CNCSIS nr. 473 programul "Idei - Proiecte de cercetare exploratorie" intitulat „Cercetări privind producerea, caracterizarea și modelarea structurală și funcțională a polizaharidelor sintetizate de microorganisme extrem halofile”, proiect derulat pe 3 ani (2009-2011), valoare 1000000 RON (app. 300000 Euro), <http://cncsis.gov.ro/articole/103/Rezultate-finale-2008.html>
- 2) Expert pe termen lung la proiect POS DRU 39/3.2/G/ 26960 “Formare profesională continuă în scopul creșterii competitivității organizațiilor din domeniul alimentar privind asigurarea calității proceselor și siguranța alimentului”, axa prioritară nr. 3 ”Creșterea adaptabilității lucrătorilor și a întreprinderilor”, domeniul major de intervenție 3.2 ”Formare profesională și sprijin pentru întreprinderi și angajați pentru promovarea adaptabilității” 2009-2011.
- 3) Membru la grant de cercetare PNCDI2 – Programul 4 – Parteneriate cu numărul 91-011 “Produse și tehnologii ecologice pentru conservarea integrată a patrimoniului cultural național arhitectural din zona Sibiu-Capitală culturală europeană 2007”, 2007-2010

- 4) Membru la grant de cercetare CEEEX 3822 contract nr. 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”, 2008-2010
- 5) Membru la grant de cercetare 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”, 2004-2007
- 6) Membru la proiectul nr 7659/2001 cu ANSTI, " Sistem de asistarea a deciziei la conceperea și conducerea proceselor de obținere enzimatică a siropurilor de glucoză", 2001
- 7) Membru la proiectul nr. 27/1998 tema nr.9 cod CNCSU 196 cu titlul " Mediu virtual de învățare pentru industria zahărului" , 1998

- **Proiecte de cercetare pe bază de contract/granturi internaționale**

- 1) Director la grant de mobilități internațional de tipul “Joint research project” intitulat ”Contemporary methods for control and characterisation of EPS and PHB produced by cultivation of *Haloferax mediterranei*”cu Bulgarian Academy of Science, Sofia, Bulgaria, 2012-2014
- 2) Responsabil la grant de mobilități internațional „Optimisation of batch fermentation processes in food industry“ Topical group K Biotechnology no. 6.K0A.6.A, 2002, conducători Prof. Dr. C. Posten, Universität Karlsruhe, Institut für Mechanische Verfahrenstechnik und Mechanik, Karlsruhe (partener german) și Prof. Dr. R. Tzoneva, PeninsulaTechnikon, Dept. of Electrical Engineering (partener Africa de Sud)
- 3) Beneficiar grant Socrates/Erasmus cu titlul „Methoden zur Charakterisierung degradierter Stärkemoleküle (Amylopektin) mittels Gel-Permeations-Chromatographie (GPC)“ (Metode pentru caracterizarea moleculelor de amidon degradate (amilopectină) folosind cromatografie de permeație a gelului (GPC)) la Universität Karlsruhe, Institut für Lebensmittelverfahrenstechnik, Karlsruhe, Germania, iun.-aug.2005
- 4) Membru la grant de mobilități internațional de tipul “Joint research project” intitulat “Monitoring of biotechnological processes for quality control in the food industry”, cu Bulgarian Academy of Science, Sofia, Bulgaria, 2007-2010.
- 5) Beneficiar grant în cadrul Programului Kompetenznetz Verfahrenstechnik PRO3, Germania, cu titlul “Optimierung der fed-batch Kultivierung der Mikroorganismen”, în perioada 01.01.-30.09.2002, valoare 4500 Euro

- **Proiecte de cercetare pe bază de contract/granturi naționale**

- 1) Bursă pentru realizarea cercetării cu tema „Sistem expert în biotehнологii alimentare pentru conceperea și conducerea proceselor de bioconversie a amidonului” în cadrul proiectului POSDRU/89/1.5/S/63258, Școala Postdoctorală pentru Biodiversitate Zootehnică și Biotehнологii Alimentare pe baza Ecoeconomiei și Bioeconomiei necesare Ecosanogenezei, 2010-2011, contract nr. 18/29.07.2010
- 2) Bursă în cadrul proiectului “Școală universitară de formare inițială și continuă a personalului didactic și a trainerilor din domeniul specializărilor tehnice și inginerești”, DidaTec, proiect POSDRU/87/1.3/S/60891, contract nr. 7826/29/04.04.2013

- **Lucrări de cercetare finalizate prin raport de cercetare**

Lucrarea postdoctorală intitulată „Cercetări privind valorificarea amidonului prin bioconversie enzimatică și microbiană și crearea unui sistem expert în biotehнологii alimentare pentru conceperea și conducerea proceselor de bioconversie a amidonului” în cadrul Școlii Postdoctorale pentru Biodiversitate Zootehnică și Biotehнологii Alimentare pe baza Ecoeconomiei și Bioeconomiei Necesare Ecosanogenezei

**Cărți (monografii, tratate) publicate în edituri din țară, recunoscute de CNCSIS;**

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.
- + capitole cărți (monografii, tratate) publicate în edituri din țară, recunoscute de CNCSIS:
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

### Articole publicate în reviste de circulație internațională, specifice domeniului, cotate ISI/Clarivate Analytics sau indexate în baze de date internaționale

1. **Mironescu, M.**, Lazea-Stoyanova, A., Barbinta-Patrascu, M.E., Virchea, L.-I., Rexhepi, D., Mathe, E., Georgescu, C. Green Design of Novel Starch-Based Packaging Materials Sustaining Human and Environmental Health. *Polymers* 2021, 13, 1190. <https://doi.org/10.3390/polym13081190>, <https://www.mdpi.com/2073-4360/13/8/1190>
2. Shamtsyan M., Kolesnikov B., Pushkarev M., Gaceu L., Oprea O. B., Iatco I., Mnerie D., Mnerie G., Tita O., Tita M., Georgescu C., **Mironescu M.**, Stefanov S., Damianova S., Study of awareness of food labeling among consumers in North-West Russia, International Scientific Conference on Biotechnology and Food Technology (BFT-2020), Section Modern Biotechnology in Food Safety and Quality, vol. 215, 2020, Article Number 01002, 8 pages, <https://doi.org/10.1051/e3sconf/20202150100>
3. **Mironescu M.**, Frățilă L., Hupert A., Mironescu I.D., Obtaining and characterisation of starch-based edible films incorporating honey, propolis and bee bread, Acta Universitatis Cibiniensis. Series E: Food Technology, 2019, p. 192-198, <https://content.sciendo.com/view/journals/aucft/23/2/article-p193.xml?language=en>
4. Virchea L.I., Georgescu C., **Mironescu M.**, Obtaining and characterization of volatile oils from aromatic plants, Advances in Biological Sciences Research, 2019, volume 7, 350-353.
5. Kokina M., Shamtsyan M., Georgescu C., **Mironescu M.**, Nedovic V., Essential oil/alginate microcapsules; obtaining and applying, Immunopathologia Persa, 2019; 5(1):e04, DOI:10.15171/ipp.2019.04

6. Georgescu C., **Mironescu M.**, Mironescu I.D., The "Knowledge triangle for food innovation by harnessing the tradition and assuring sustainability" KNOWinFOOD Project as a tool to educate students to obtain innovative products incorporating bioactive compounds, *Advances in Pharmacology and Clinical Trials*, 2019, vol 4, no. 1, 5 p, <https://medwinpublishers.com/APCT/APCT16000150.pdf>, indexed [Google scholar](#), [Publons](#), [Academic Resource Index](#), [International Scientific Indexing](#),...
7. Kokina M., Shamtsyan M., Georgescu C., **Mironescu M.**, Antimicrobial activity of essential oils from plants against selected microorganisms, *Journal of Medical Bacteriology*, 2018, 7(1), 44-49, <http://jmb.tums.ac.ir/index.php/jmb/article/view/375> , indexed [Directory of Open Access Journals \(DOAJ\)](#), [Google Scholar](#), [Index Copernicus](#)
8. Moza M.I., **Mironescu M.**, Bioconversion of potato wastewater to alcohol, *Environmental Engineering and Management Journal*, 2017, vol. 16, no.3, p. 561-567, [http://www.eemj.icpm.tuiasi.ro/pdfs/vol16/no3/6\\_122\\_Moza\\_16.pdf](http://www.eemj.icpm.tuiasi.ro/pdfs/vol16/no3/6_122_Moza_16.pdf)
9. **Mironescu M.**, Mironescu I. D., Georgescu C., Investigations on using wastewater from corn processing as substrate for probiotics, *Journal of Hygienic Engineering and Design*, 2016, Vol. 15, pp. 66-71, indexed in SCOPUS, *CAB Abstracts*, *CABI Full text repository*, *Food Science and Technology*, *Global Health*, *German National Library of Science and Technology (TIB)*, *University Library of Hanover*, <http://www.jhed.mk/filemanager/JHED%20Vol.%2015/03.%20FPP/03.%20Full%20paper%20-%20Monica%20Mironescu.pdf>
10. Mironescu I. D., **Mironescu M.**, Modeling the action of microwaves on *Escherichia coli*, *Journal of Hygienic Engineering and Design*, 2016, 16, 32-37, indexed in SCOPUS, *CAB Abstracts*, *CABI Full text repository*, *Food Science and Technology*, *Global Health*, *German National Library of Science and Technology (TIB)*, *University Library of Hanover*, <http://www.jhed.mk/filemanager/JHED%20Vol.%2016/02.%20FQ&S/04.%20Full%20paper%20-%20Ion%20Dan%20Mironescu.pdf>
11. Georgescu C., Birca A., **Mironescu M.**, Tita M. A., Shamtsyan M., Mironescu I. D., Tita O., Consumer perceptions of nutrition and health claims from food labels in Romania, *Journal of Hygienic Engineering and Design*, 2016, 16, 13-18, indexed in SCOPUS, *CAB Abstracts*, *CABI Full text repository*, *Food Science and Technology*, *Global Health*, *German National Library of Science and Technology (TIB)*, *University Library of Hanover*, <http://www.jhed.mk/filemanager/JHED%20Vol.%2016/02.%20FQ&S/01.%20Full%20paper%20-%20Cecilia%20Georgescu.pdf>
12. Mironescu I. D., **Mironescu M.**, Expert system based control of the starch bioconversion process, *Proceedings of the 43 International Conference on Agricultural Engineering "Actual tasks on agricultural engineering"*, ISBN 1848-4425, p 563-572, [http://atae.agr.hr/Zbornik\\_2015.pdf](http://atae.agr.hr/Zbornik_2015.pdf)
13. Naiaretti D., **Mironescu M.**, Țița O., Antimicrobial activity of active biodegradable starch films on pathogenic microorganisms, *Annals of RSBC*, 2014, p. 75-80, indexed EBSCO Academic Search Complete (<http://www.ebscohost.com/titleLists/a9h-journals.htm>) *Index Copernicus Journal Master List*. *Scopus* ([www.scopus.com](http://www.scopus.com)) *ProQuest* ([www.proquest.com](http://www.proquest.com)), <http://www.annalsofrscb.ro/numar%20in%20curs/19%201/index%2019%201.html>
14. Gabor (Naiaretti) D., **Mironescu M.**, Țița O., Obtaining of a polysaccharidic biofilm from *Haloferax mediterranei* and its adhesion on biological surfaces, *Conference Proceedings of Nano, bio and green Technologies for a sustainable Future*, 13th International Multidisciplinary Scientific Geoconference SGEM 2013, Albena, June, ISBN 1314-2704, p. 205 – 210, <http://www.sense.nl/articles/8979> , SGEM title into ELSEVIER products, COMPENDEX, SCOPUS Citation h-index 5, <http://www.sgem.org/>, 2013
15. **Mironescu M.**, Ignatova M., Posten C., *Investigations on exopolysaccharide production by the extreme halophilic microorganism Haloferax mediterranei*, *Comptes rendus de l'Academie Bulgare de Sciences*, 65, 4, 463-472, ISSN 1310-1331, <http://www.proceedings.bas.bg/>, Factor de impact referință 2.04, Factor de impact relativ 0.1, Scor de influență 0.5358, 2012
16. **Mironescu M.**, Mironescu I. D., Moza M.I., Trifan A., Mironescu V., *Comparative analysis of quality criteria for the control of liquefaction at the obtaining of starch-based hydrolysates*, *Bulletin of the University of Agricultural and Veterinary Medicine Cluj Napoca Agriculture*, ed. Academic press, Cluj-Napoca, ISSN 1843-5246, 69 (2), p. 290-297, <http://journals.usamvcluj.ro/index.php/agriculture/article/view/8776>, indexat ISI Master Journal List,

- ISI Proceedings <http://science.thomsonreuters.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&Word=cluj>, indexat CABI (<http://www.cabdirect.org/abstracts/20103083662.html>), EBSCO, CAS, 2012
17. Mironescu I. D., **Mironescu M.**, *Petri net modelling of the starch enzymatic liquefaction*, Bulletin of the University of Agricultural and Veterinary Medicine, ed. Academic press, Cluj-Napoca, ISSN 1843-5246, 69 (2), p. 298-303, <http://journals.usamvcluj.ro/index.php/agriculture/article/view/8777>, indexat ISI Master Journal List, ISI Proceedings <http://science.thomsonreuters.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&Word=cluj>, indexat CABI (<http://www.cabdirect.org/abstracts/20103083662.html>), EBSCO, CAS, 2012
  18. Moza M.I., **Mironescu M.**, Florea A., *Influence of the physical treatments on the potato starch granules micro- and ultrastructure*, Bulletin of the University of Agricultural and Veterinary Medicine, ed. Academic press, Cluj-Napoca, ISSN 1843-5246, 69 (2), p. 304-311, <http://journals.usamvcluj.ro/index.php/agriculture/article/view/8778>, indexat ISI Master Journal List, ISI Proceedings <http://science.thomsonreuters.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&Word=cluj>, indexat CABI (<http://www.cabdirect.org/abstracts/20103083662.html>), EBSCO, CAS, 2012
  19. Moza M.I., **Mironescu M.**, Georgescu C., Florea M., Bucsa L., *Isolation and characterisation of moulds degrading mural paintings*, Annals of RSBC, 17 (1), 136-141, <http://journals.indexcopernicus.com/abstracted.php?level=5&icid=930208>, <http://www.analelesnbc.ro/arhivapdfvol17issue1/17.pdf>, [Index Copernicus](#) Value (2010): 5.20, 2012
  20. Moza M.I., **Mironescu M.**, Mironescu I.D., *Action of UV radiations on two Penicillium species spores isolated from mortar*, Annals of RSBC, 17 (2), 67-76, <http://journals.indexcopernicus.com/abstracted.php?level=5&icid=930208>, <http://www.analelesnbc.ro/arhivapdfvol17issue1/17.pdf>, [Index Copernicus](#) Value (2010): 5.20, 2012
  21. **Mironescu M.**, Mironescu I. D., *Rheological behaviour of a novel microbial polysaccharide*, Romanian Biotechnological Letters, 16 (2), 6105-6114, ISSN 1224 – 5984, Factor de impact referință 2.999, Factor de impact relativ 0.05068, Scor de influență 0.662, Scor relativ de influență 0, <http://ebooks.unibuc.ro/biologie/RBL/rbl2vol16/cuprins.htm>, 2011
  22. Georgescu C., **Mironescu M.**, *Obtaining, characterisation and screening of the antifungal activity of the volatile oil extracted from Thymus serpyllum*, Journal of Environmental Protection and Ecology, 12, 4A, 2294-2302, ISSN 1311-5065, Science Citation Index, Impact Factor (2011) = 0.102, <http://www.jepe-journal.info/vol-12-no4b-2011>, 2011
  23. **Mironescu M.**, Mironescu I.D., Trifan A., Mironescu V., *Modelling of starch gelatinisation and liquefaction with the enzyme Liquozyme*, Bulletin of the University of Agricultural and Veterinary Medicine Cluj Napoca Agriculture, ed. Academic press, Cluj-Napoca, ISSN 1843-5246, 68 (2), p. 327-332, <http://journals.usamvcluj.ro/index.php/agriculture/article/view/6577>, indexat ISI Master Journal List, ISI Proceedings <http://science.thomsonreuters.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&Word=cluj>, indexat CABI (<http://www.cabdirect.org/abstracts/20103083662.html>), EBSCO, CAS, 2011
  24. Mironescu I.D., **Mironescu M.**, Georgescu C., Ranga I.N., Iancu M.L., Oprean L., *Analysis of the extracellular polysaccharide-based structures produced by a halophilic archaeon*, Bulletin of the University of Agricultural and Veterinary Medicine Cluj Napoca Animal Sciences and Biotechnologies, ed. Academic Press, Cluj-Napoca, p. 346-351, ISSN 1843-5262, Electronic ISSN 1843-536X, 68 (1-2), <http://journals.usamvcluj.ro/index.php/zootehnie/article/view/6732>, indexat ISI Master Journal List, ISI Proceedings <http://science.thomsonreuters.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&Word=cluj>, indexat CABI (<http://www.cabdirect.org/abstracts/20103083662.html>), EBSCO, CAS, citat Asian Science Citation Index <http://ascidatabase.com/ascidetail.php?doi=bullansci.2011.346.351>, 2011
  25. **Mironescu M.**, Mironescu I.D., Oprean L., *Steady and oscillatory shear behaviour of semi-concentrated starch suspensions*, Procedia Food Science, 1, 322-327, ISSN 2211-601X, editura ELSEVIER, editori edited by George Saravacos, Petros Taoukis, Magda Krokida, Vaios Karathanos, Harris Lazarides, Nikolaos Stoforos, Constantina Tzia, Stavros Yanniotis, indexat Science Direct, [http://pdn.sciencedirect.com/science?\\_ob=ImageURL&cid=282070&user=10&pii=S2211-601X11000514&check=y&origin=browse&zone=rslt\\_list\\_item&coverDate=2011-12-31&wchp=dGLzVIV-zSkWA&md5=89dc0ca1e50dadce25af5de57f4b2737d/1-s2.0-S2211601X11000514-main.pdf](http://pdn.sciencedirect.com/science?_ob=ImageURL&cid=282070&user=10&pii=S2211-601X11000514&check=y&origin=browse&zone=rslt_list_item&coverDate=2011-12-31&wchp=dGLzVIV-zSkWA&md5=89dc0ca1e50dadce25af5de57f4b2737d/1-s2.0-S2211601X11000514-main.pdf), <http://www.sciencedirect.com/science/journal/2211601X>, 2011



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