Faculty of Food Engineering, Tourism and Environmental Protection

Department of Technical and Natural Sciences

Scientifical work Diaconescu Daniela

A. PhD thesis

"The Influences of the Biogenic Substances in the Bakery Biotechnological Processes", "Lucian Blaga" University, Sibiu, Romania, PhD supervisor professor Giurcă Voicu, Industrial Engineering field, 2002.

B. Books and chapters published

- **B1. Daniela Maria Diaconescu,** *Questions and answers Food Technologies*, Gutenberg Publishing House in Arad, ISBN 978-606-675-337-1, pg. 128, 2021.
- **B2. Daniela Maria Diaconescu**, *Technology and Quality in Bakery*, Publisher University "Aurel Vlaicu" of Arad, revised and enlarged edition, ISBN 978-973-752-620-5, pg. 311, 2012.
- **B3. Daniela Maria Diaconescu,** Ionel P. Mitroi, *Technologies, Equipment and Calculations in the Brewing Industry*, Publisher University "Aurel Vlaicu" of Arad, revised and enlarged edition, ISBN 978-973-752-585-7, pg. 354, 2011.
- **B4. Daniela Maria Diaconescu,** Maria Balint, *Methods of Evaluating the Quality of the Bread,* Publisher University "Aurel Vlaicu" of Arad, ISBN 978-973-752-508-6, pg. 150, 2010.
- **B5. Daniela Maria Diaconescu** *Technology and Quality in Bakery,* Publisher University "Aurel Vlaicu" of Arad, ISBN 978-973-752-271-9, pg. 282, 2008.
- **B6. Daniela Maria Diaconescu,** Ionel P. Mitroi, *Technologies, Equipment and Calculations in the Brewing Industry*, Publisher University "Aurel Vlaicu" of Arad, ISBN (10) 973-752-089-0, ISBN (13) 973-973-752-089-0, pg. 326, 2006.
- **B7. Daniela Maria Diaconescu,** *Baking Technology,* Publisher University "Aurel Vlaicu" of Arad, ISBN 973-8363-38-1, pg. 236, 2004.
- **B8. Daniela Maria Diaconescu,** Francisc Theiss, *Malt and Beer Technology*, Publisher University "Aurel Vlaicu" of Arad, ISBN 973-8363-55-1, pg. 212, 2004.
- **B9. Daniela Maria Diaconescu,** Francisc Theiss, *Quality Control in the Brewing Industry*, laboratory guide, Publisher University "Aurel Vlaicu" of Arad, ISBN 973-8363-62-4, pg. 85, 2004.
- **B10.** Rusănescu, N., **Diaconescu, D.**, Ciurea, M., *Practical Guide for Dairy Technology*, Publisher University "Aurel Vlaicu" of Arad, ISBN 973-9361-74-9, pg. 97, 2003.

C. Work ISI / BDI published

- C1. Popescu-Mitroi, I., **Diaconescu, D. M.** Obtaining craft ginger beer in the laboratory phase and sensory, physico-chemical characteristics, Carpathian Journal of Food Science and Technology, Volume 16, Issue 1, pg. 54-61, print ISSN 2066-6845, online ISSN 2344-5459. doi.org/10.34302/crpjfst/2024.16.1.5 FI 0,5, 2024.
- **C2.** Condrat, D., Ciutina, V., Meşter, M., Dicu, A., Zdremţan, M., **Diaconescu, D.** *Quantitative determination of some antioxidant compounds from the Vaccinum myrtills extracts*, Journal of Agroalimentary Processes and Technologies, vol. 29(2), pg. 103-106, ISSN: 2069-0053 (PRINT), AGROPRINT; ISSN (ONLINE): 2068-9551, 2023.
- **C3.** Balint, M., **Diaconescu, D.**, Zdremţan, M., Meşter, M., Ciutină, V. *Analysis of NRDP 2014-2022 Funds Mobilization for Rural Developement Strategies and the Role and Actions of AFIR in Supporting the Proces*, LUCRĂRI ŞTIINŢIFICE, SERIA I, VOL. XXIV (3), pg. 357-363, ISSN print 1453-1410, ISSN online 2069-2307, 2023.

- **C4.** Balint, M., Zdremţan, M., Meşter, M., **Diaconescu, D.**, Chiş, S. *Local Action Groups A Possibility of Rural Area and Traditional Products Economic Development. Importance and Proposals*, LUCRĂRI ŞTIINŢIFICE, SERIA I, VOL. XXV (2), pag. 19-24, ISSN print 1453-1410, ISSN online 2069-2307, 2023.
- C5. Meşter, M., Dicu, A., **Diaconescu, D.,** Zdremţan, M., Condrat, D. *Sensory Characteristics of Yoghurt Fortified with Kiwano Fruit, Scientific and Technical Bulletin, Series: Chemistry, Food Science and Engineering, vol.18, pg. 18-20, 2021.*
- **C6. Diaconescu, D.**, Zdremţan, M., Meşter, M., Hălmăgean, L., Condrat, D. *Quality Improving of Whole Wheat Bread by Using Xylanase*, International Multidisciplinary Scientific Geoconferences, 19th GeoConference on Nano, Bio and Green Technologies for a sustainable future, Conference Proceedings, volume 19, Micro and Nano technologies, Advances in Biotechnology, June 27-July 6 2019, Albena, Bulgaria, pg. 875 880, ISBN 978-619-7408-88-1/ISSN, 1314-2704, DOI: 10.5593/SGEM2019/6.1, 2019.
- **C7.** Meşter, M., Condrat, D., Zdremţan, M., **Diaconescu, D.**, Hălmăgean, L. *Phenolic Profile and Antioxidant Activity of somes Species of the Cucurbitaceae Family,* International Multidisciplinary Scientific Geoconferences, 19th GeoConference on Nano, Bio and Green Technologies for a sustainable future, Conference Proceedings, volume 19, Micro and Nano technologies, Advances in Biotechnology, June 27-July 6 2019, Albena, Bulgaria, pg. 845 852, ISBN 978-619-7408-88-1/ISSN, 1314-2704, DOI: 10.5593/SGEM2019/6.1, 2019.
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- **C9.** Hălmăgean, L., Meșter, M., Balint, M., **Diaconescu, D.**, Zdremțan, M. *Contribution to Improve the Technology of the Melon Crop with Hornes (Cucumis metuliferus) Food and Therapeutic Species*, International Multidisciplinary Scientific Geoconferences, 15th GeoConference on Nano, Bio and Green Technologies for a Sustainable Future, Conference Proceedings, Book6, volume 1, Micro and Nano technologies, Advances in Biotechnology, June 18-24 2015, Albena, Bulgaria, pg. 375 387, ISBN 978-619-7105-42-1 / ISSN 1314-2704, DOI: 10.5593/SGEM2015/B61/S25.051, 2015.
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- **C11.** Hălmăgean, L., Balint, M., Meșter, M., **Diaconescu**, D., Zdremțan, M. *The Stimulation of Morpho-Productive Characters at Momordica Charantia L. by Using Bio-stimulators*, International Multidisciplinary Scientific Geoconferences, 14th GeoConference on Nano, Bio and Green Technologies for a Sustainable Future, Conference Proceedings, volume 1, Micro and Nano technologies, Advances in Biotechnology, iunie 2014, Albena, Bulgaria, pg. 581 584, ISBN 978-619-7105-20-9, ISSN 1314-2704, DOI: 10.5593/sgem2014B61, 2014.
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- C17. Diaconescu, D., Zdremtan, M., Halmagean, L. *The influence of the Quality of Wheat Flour Gluten Upon the Way of Action of Certain Enzymatic Improvers in Bakery*. Annals of the University of Craiova, vol. XVI(LII), pg. 125-130, 2011.
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D. Articles published in journals and conference volumes with reviewers (not indexed)

- **D1. Diaconescu, D.,** Zdremţan, M., Meşter, M., Hălmăgean, L., Condrat, D. *Quality Improving of Whole Wheat Bread by Using Xylanase*, Book of Abstracts, International Symposium Research and Education in Innovation Era, 6th Edition, Arad, 8-10 Dec. 2016. **D2.** Zdremţan, M., **Diaconescu, D.,** Meşter, M., Ciutină, V., Hălmăgean, L., Lungu, M. *Study regarding the Influence of Water on Preservation of Courgettes by Lactic Fermentation*, Book of Abstracts, International Symposium Research and Education in Innovation Era, 6th Edition, Arad, 8-10 Dec. 2016.
- **D3.** Hălmăgean, L., Meșter, M., Zdremțan, M., Balint, M., **Diaconescu, D.**, Ciutină, V. *The Yellow Watermelon with Horns (Cucumis Meliferus) Food and Therapeutic Species with Adaptation Possibilities in Arad Agroecological Area.* Scientific Bulletin of Escorena (on line), ISSN 2069 8070 ISSN-L 2066-5687, ART.2, pg. 23-26, 2014.
- **D4.** Podrumar T., Balint M., Meşter M., Ciutina V., **Diaconescu D**., Hălmăgean L. *Pheromone Lures for Surveillance of Grapes Green Moth Population (Lobesia botrana den. Et schiff.)*, International Symposium "Creative Availabilities in World" II Edition of 23 February 2013, Iasi, Romania, pg.164, 2013.
- **D5.** Zdremţan M., Meşter M., Diaconescu D., *Influence of Some Types of Water on Courgettes Conservation*, International Symposium "Creative Availabilities in World" II Edition of 23 February 2013, Iasi, Romania, pg.158, 2013.
- **D6.** Hălmăgean, L., Ciutina, V., Balint, M., **Daniela D.,** *Biofertilizers A Cheap and Seif Alternatve to Chemical Fertilizers in Farming Practice*, International Symposium Research and Education in Innovation Era 4th Edition, Arad, 8-9 November 2012.

- **D7.** Zdremţan M., **Diaconescu D.**, Meşter M., Balint M., *Dextran Production from Lactic Fermentation of Watermelon*, International Symposium Research and Education in Innovation Era 4th Edition, Arad, 8-9 November 2012.
- **D8.** Diaconescu, D. Senzory Evaluation of Wheat Dough Stickiness. Scientific and Technical Bulletin XV, VOL. 15, ISSN 1582-1021, pg. 65-70, 2010.
- **D9.** Diaconescu, D., Chambree, D. Ways to Improve Bread Quality by Enzyme Use, 5 pag, Scientifical and Technical Bulletin XIV, vol. 13, ISSN 1582-1021, pg. 125-130, 2008.
- **D10. Diaconescu, D.** *Results Regarding the Using of Hemicellulases in Breadmaking.* COST Action 928, Workgroup Meeting, Montpellier 02.06.2007.
- **D11. Diaconescu, D.** The Effect of Glucose-oxidase, Hemicellulases, Xylanases, Cellulases, Amyloglucosidase and α-Amylase upon Bread Buality. COST Action 928, Workgroup Meeting, Reykjavik 30.06.-01.07.2006.
- **D12. Diaconescu, D.** *Enzymes Antistaling Additives Used in Breadmaking*. Scientific and Technical Bulletin XII, VOL. 11, ISSN 1582-1021, pg. 134-140, 2006.
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- **D17. Diaconescu, D.** Aspects of the Addition of Hemicellulose Extracted from Aspergillus oryzae in Bread. Newsletter for Milling and Bakery Industry, vol. 15, no. 3, ISSN 1222-1120, pg.6, 2004.
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- **D20. Diaconescu, D.** *The Addition of Amyloglucosidase in Bread.* International Symposium "Scientific research a bridge towards European integration" 3-4 November Arad. Annals of "Aurel Vlaicu" of Arad, Chemistry series, Engineering fascicle, ISSN 1582-3415, pg. 70-75, 2004.
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- **D26. Diaconescu, D.** The Effects of Xylanase and Cellulase Mixture into Bread without Added Fiber. Comparison. International Symposium "Advances in Scientifical and Technical Milling and Bakery Industry and Adjacent Sectors" 5-7 June, Sibiu. Newsletter for Milling and Bakery Industry, vol. 14, no. 2, trim. II, ISSN 1222-1120, pg. 34-37, 2003.
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- **D29.** Diaconescu, D., Ivan, E. Effects of Modification of the Processing Conditions in Breadmaking. Scientific and Technical Bulletin, vol. 7, ISSN 1582-1021, pg. 65-69, 2002.
- **D30. Diaconescu, D.**, Giurcă, V., Cărăban, A. Comparative Study of the Effects of Hemicellulase and Xylanase on Bread with Added Bran. Annals of University of Oradea,vol. VIII, ISSN 1224-7626, pg. 115-120, 2001.
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- **D33.** Cărăban, A., Giurcă, V., **Diaconescu, D**. *The Influence of Vitamins on the Enzymatic Activity of Amylase in Wheat*. Annals of University of Oradea, vol. VIII, ISSN 1224-7626, pg. 223-230, 2001.
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- **D35. Diaconescu, D.** *Proposed New Enzymes to Bread Improver*. Annals of University of Oradea, vol. VII, ISSN 1224-7626, pg. 218-227, 2000.
- **D36. Diaconescu, D.** *Interference of Some Endogenous and Exogenous Enzymes in Baking.* Annals of University of Oradea, vol. VII, ISSN 1224-7626, pg. 228-235, 2000.
- **D37. Diaconescu, D.** *The Hemicellulases Action in Bread Enriched with Dietary Fiber.* Annals of University of Oradea, vol. VII, ISSN 1224-7626, pg. 207-217, 2000.
- **D38. Diaconescu, D.**, Giurcă, V., Idiţoiu, C. şi Beju, C. *The Enzymes and Bread Quality*. Annals of "Aurel Vlaicu" of Arad, ISSN 1582-3415, pg. 151-160, 2000.
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- **D40.** Diaconescu, D. Effects of Exogenous and Endogenous Lipids in Baking. International Scientific Session, 22-23 May 1998, "Lucian Blaga" University, Sibiu, Romania. Scientific Bulletin "Altexim-I Sibiu'98", vol. III, Food Technologies, ISBN 973-9280-96-X, pg. 393-400, 1998.
- **D41.** Tămăşdan, Şt. T., Luca, T., **Diaconescu, D**. *Considerations on Radioactive Pollution of the Environment and Food.* Scientific Session "25 Years of Higher Technical Education in Arad", 30-31 October, Arad. Works of Scientifical Session of the University "Aurel Vlaicu" of Arad, vol.IV, Environment Protection, ISBN 973-98365-0-X, ISBN 973-98365-4-2, pp. 39-43, pg. 5, 1997.

- **D42.** Tămăşdan, Şt. T., **Diaconescu, D.**, Luca, T. *Considerations on Environmental Pollution by Plastics for Packaging*. Scientific Session "25 Years of Higher Technical Education in Arad", 30-31 October, Arad. Works of Scientifical Session of the University "Aurel Vlaicu" of Arad, vol.IV, Environment Protection, ISBN 973-98365-0-X, ISBN 973-98365-4-2, pg. 50-54, 1997.
- **D43. Diaconescu, D.** *The Internal and External Lipids Influence over the Wheat Flour Dough and Bread.* Scientific and Technical Bulletin, series Chemistry, Food science & Engineering, year III, vol. 3, ISSN 1582-1021, pg. 32-37, 1997.
- **D44.** Theiss, F., **Diaconescu, D.** *Physiological and Psychological Beer Properties*. Scientific and Technical Bulletin, series Chemistry, Food science & Engineering, year III, vol. 3, ISSN 1582-1021, pp. 37-42, 1997.
- **D45.** Theiss, F., **Diaconescu, D.** *The Flavor Determinative of the Beer Assortment.* Scientific and Technical Bulletin, series Chemistry, Food science & Engineering, year III, vol. 3, ISSN 1582-1021, pg. 42-47, 1997.

E. Patents obtained throughout the activity

Patent Application OSIM A / 00395 / 04.06.2018.

Title of the invention: "Sustainable ecological packaging method for traditional bread without additives", 1-4 kg

F. Contracts research

- F1. Research project: "The Behavior of Some Compounds with Antioxidant Activity in Breadmaking Process," according to the contract 879 / 28.09.2004 member.
- F2. Cost 928 Control and Exploitation of Enzymes for Added-Value Food Product 26.01.2006-25.01.2010 member.
- F3. Innovation check: "Innovative Eco-Packaging Solution for Non-Additive / Preservative Bread to Increase Shelf Life and Freshness" PN-III-P2-2.1-CI-2017-0505, Grant Contract no. 12CI / 2017 member.

G. Participation in scientific events and international visual arts exhibitions

G1. Traian Vuia International Salon of Inventions and Innovations Timișoara - 15.10.2020 - Sustainable method of ecological packaging of traditional bread without additives, of 1-4 kg. **G2.** Inovaliment International Fair of Inventions and Innovations - 27.11.2020 - Sustainable method of ecological packaging of traditional bread without additives, of 1-4 kg.

H. Premii și distincții internaționale

- **H1.** Gold medal International Exhibition of Inventions and Innovations Traian Vuia Timișoara 15.10.2020 Sustainable method of ecological packaging of traditional bread without additives, 1-4 kg.
- **H2.** Third Prize Inovaliment International Fair of Inventions and Innovations 27.11.2020 Sustainable method of ecological packaging of traditional bread without additives, 1-4 kg.
- **H3.** First Prize FPAS Contest on bakery topics, Edition VIII, Brasov, October 2006 Paper: The effects of some exogenous enzymes in bread, depending on the quality of the flour used (D13).

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