

## Scientific 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**, *Technology and Quality in Bakery*, Publisher University "Aurel Vlaicu" of Arad, revised and enlarged edition, ISBN 978-973-752-620-5, pg. 311, 2012.

**B2. 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.

**B3. 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.

**B4. Daniela Maria Diaconescu** *Technology and Quality in Bakery*, Publisher University "Aurel Vlaicu" of Arad, ISBN 978-973-752-271-9, pg. 282, 2008.

**B5. 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.

**B6. Daniela Maria Diaconescu**, *Baking Technology*, Publisher University "Aurel Vlaicu" of Arad, ISBN 973-8363-38-1, pg. 236, 2004.

**B7. Daniela Maria Diaconescu**, Francisc Theiss, *Malt and Beer Technology*, Publisher University "Aurel Vlaicu" of Arad, ISBN 973-8363-55-1, pg. 212, 2004.

**B8. 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.

**B9. 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. Diaconescu, D.**, Zdremțan, M., Meșter, M., Dicu, A., Hălmăgean, L. – *The Adaptation of a Bread Recipe to Quinoa Seeds Addition*, Scientific Journal of Agroalimentary Processes and Technologies, 24(4), 263-266, 2018.

**C2. 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, 15<sup>th</sup> 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.

**C3. Hălmăgean, L., Zdremțan, M., Diaconescu, D., Meșter, M., Balint, M.** – *Study on Getting Momordica Charantia L. Canned as New Products Used in Diabetics Diet*, International Multidisciplinary Scientific Geoconferences, 15<sup>th</sup> 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. 583 – 593, ISBN 978-619-7105-42-1 / ISSN 1314-2704 DOI: 10.5593/SGEM2015/B61/S25.079, 2015.

**C4.** 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, 14<sup>th</sup> 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.

**C5.** Balint, M., Hălmăgean, L., Meșter, M., **Diaconescu, D.**, Zdremțan, M. – *Using Bio-fertilizers in Ecological Agriculture – Safe and Cheap Alternatives for Chemical and Conventional Fertilizers*, International Multidisciplinary Scientific Geoconferences, 14<sup>th</sup> 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. 585 – 590, ISBN 978-619-7105-20-9, ISSN 1314-2704, DOI: 10.5593/sgem2014B61, 2014.

**C6.** Balint M., Ciutina V., Hălmăgean L., Meșter M. , Zdremțan M. , **Diaconescu D.**, - *Biofertilizers Use - a Cheap and Safe Alternative to Conventional Chemical Fertilizers Pisum sativum L. and Phaseolus vulgaris L.*, Scientific Journal of Agroalimentary Processes and Technologies, 19(2), 208-211, 2013.

**C7.** **Diaconescu D.**, Zdremțan M., Meșter M., Hălmăgean L., Balint M., - *A Study on the Influence of Some Biogenic Efectors on Bread Staling. Sensory Evaluation*, Journal of Agroalimentary Processes and Technologies, 19(2), 247-252, 2013.

**C8.** Zdremțan M., Meșter M., **Diaconescu D.**, Hălmăgean L., Balint ., - *Study on the Effect of Ginger Tincture on Acute Pharyngeal Angina*, Scientific Journal of Agroalimentary Processes and Technologies, 19(3), 247-252, 2013.

**C9.** **Diaconescu, D.** *Effects of Some Bi-enzymatic Mixtures in Breadmaking Biotechnology I*, Revista de Chimie, **62** nr.7, pg. 756-759, 2011.

**C10.** 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.

**C11.** **Diaconescu, D.** *The Glucose Oxidase Using in Breadmaking Biotechnology*. Revista de Chimie, **60**, nr. 5, pg. 454-457, 2009.

**C12.** **Diaconescu, D.** *The Diminution of Positive Effects Intensity of Some Exogenous Enzymes in White Bread When they are Added in Bran-enriched Bread*. Scientifical Researches Agroalimentary Processes and Technologies, vol. IX, ISSN 1453-1399, pg. 62-65, 2003.

**C13.** **Diaconescu, D.**, Popa, A. *The Effects of Glucose-oxidase in Bread*. Scientifical Researches Agroalimentary Processes and Technologies, vol. IX, ISSN 1453-1399, pg. 66-69, 2003.

**C14.** Popa, A., Craiu, C., **Diaconescu, D.**, Ursachi, C. *Studies of Antioxidant Characteristics of Some Vegetable Products. II. Determination of Antioxidant Power for Some Vegetable Products Extracts*. Scientifical Researches Agroalimentary Processes and Technologies, vol. IX, ISSN 1453-1399, pg. 80-83, 2003.

#### **D. Articles published in journals and conference volumes with reviewers (not indexed)**

**D1.** **Diaconescu, D.**, Zdremțan, M., Meșter, 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, 6<sup>th</sup> Edition, Arad, 8-10 Dec. 2016.

**D2.** Zdremțan, M., **Diaconescu, D.**, Meșter, 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, 6<sup>th</sup> 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., Meșter 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.** Zdremțan M., Meșter 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 Alternative to Chemical Fertilizers in Farming Practice,* International Symposium Research and Education in Innovation Era 4<sup>th</sup> Edition, Arad, 8-9 November 2012.

**D7.** Zdremțan M., **Diaconescu D.**, Meșter M., Balint M., – *Dextran Production from Lactic Fermentation of Watermelon,* International Symposium Research and Education in Innovation Era 4<sup>th</sup> 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, Scientific 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  $\alpha$ -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.

**D13.** **Diaconescu, D.** *The Effect of Exogenous Enzymes in Bread, Depending on the Quality of Flour Used.* Newsletter for Milling and Bakery Industry, vol. 16, no. 1,2, ISSN 1222-1120, pg.103, 2005.

**D14.** **Diaconescu, D.**, Giurcă, V. *Conjunct Effects of Glucose-oxidase and Hemicelulase in Bread.* 6-th International Conference on Food Science, 20-21 mai, University of Szeged. Summaries of lectures and posters, ISBN 963 482 676 8, pp. 7. Proceedings, ISBN 963 482 677 6, pg. 6, 2004.

**D15.** **Diaconescu, D.** *Rezults of Pure Diluted, Bacterial Xylanase Addition in Bread.* 6-th International Conference on Food Science, 20-21 mai, University of Szeged. Summaries of lectures and posters, ISBN 963 482 676 8, pp. 190. Proceedings, ISBN 963 482 677 6, pg. 6, 2004.

**D16.** **Diaconescu, D.** *Effect of Hemicelulases in Bread.* 6-th International Conference on Food Science, 20-21 mai, University of Szeged. Summaries of lectures and posters, ISBN 963 482 676 8, pg. 191. Proceedings, ISBN 963 482 677 6, pg. 6, 2004.

**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.

**D18.** **Diaconescu, D.**, Ivan, E. *Total Enzyme Improvers Used in Bakery.* Newsletter for Milling and Bakery Industry, vol. 15, no. 3, ISSN 1222-1120, pg.6, 2004.

**D19.** **Diaconescu, D.**, Moraru, C. *Options for Improving the Quality of Bread Enriched with Dietary Fiber.* Newsletter for Milling and Bakery Industry, vol. 15, no. 3, ISSN 1222-1120, pg.6, 2004.

**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.

**D21. Diaconescu, D.** *Improving Effects of Xylanase 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. 76-81, 2004.

**D22. Diaconescu, D., Moraru, C.** *Different Action of Exogenous Hemicelulases in White Bread and Bran-enriched Bread.* International "EuroAliment 2003," Galati, Romania, 23 to 25 October. Annals of "Dunărea de Jos" Galati, fascicle VI Food Technology, year XXI (XXVI), ISSN 1221-4574, pg. 20-23, 2003.

**D23. Diaconescu, D., Giurcă, V.** *The Stickiness of Wheat Dough with Different Exogenous Enzymes.* International "EuroAliment 2003," Galati, Romania, 23 to 25 October. Annals of "Dunărea de Jos" Galati, fascicle VI Food Technology, year XXI (XXVI), ISSN 1221-4574, pg. 24-27, 2003.

**D24. Diaconescu, D., Ivan, E.** *Aspects of Whey Protein Products Utilization in Breadmaking.* Scientific and Technical Bulletin, series Chemistry, Food science & Engineering, year IX, Vol. 8, ISSN 1582-1021, pg. 56-59, 2003.

**D25. Diaconescu, D.** *The Actions of Xylanase and Xylanase and  $\alpha$ -Amylase Mixture in Bread with Added Fiber.* International Symposium "Advances in Scientific 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. 30-33, 2003.

**D26. Diaconescu, D.** *The Effects of Xylanase and Cellulase Mixture into Bread without Added Fiber. Comparison.* International Symposium "Advances in Scientific 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.

**D27. Diaconescu, D.** *Comparison of the Effects of Xylanase and  $\alpha$ -Amylase Mixture and Xylanase and Cellulase Mixture in Breadmaking.* Jubilee Scientific Session with International Participation, 28-30 November Arad. Annals of "Aurel Vlaicu", Chemistry Series, Fascicule Food Industry, ISSN 1582-3415, pg. 57-61, 2002.

**D28. Diaconescu, D.** *Comparison of the Effects of Hemicellulase from *Trichoderma viride* and those of Hemicellulase from *Aspergillus oryzae* in Breadmaking.* Jubilee Scientific Session with International Participation, 28-30 November Arad. Annals of "Aurel Vlaicu", Chemistry Series, Fascicule Food Industry, ISSN 1582-3415, pg. 57-61, 2002.

**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.

**D31. Diaconescu, D., Giurcă, V., Cărăban, A.** *Comparative Study of the Effects of Xylanase and Xylanase and  $\alpha$ -Amylase Mixture in breadmaking.* Annals of University of Oradea, vol. VIII, ISSN 1224-7626, pg. 121-126, 2001.

**D32. Diaconescu, D., Giurcă, V., Cărăban, A.** *The Effects of Xylanase and Cellulase Mixture over the Bread.* Annals of University of Oradea, vol. VIII, ISSN 1224-7626, pg. 127-132, 2001.

**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.

**D34. Cărăban, A., Giurcă, V., Diaconescu, D.** *The Influence of Lipids on the Activity of Amylase in Wheat.* Annals of University of Oradea, vol. VIII, ISSN 1224-7626, pg. 216-223, 2001.

**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., Idițoiu, C. și Beju, C. *The Enzymes and Bread Quality.* Annals of "Aurel Vlaicu" of Arad, ISSN 1582-3415, pg. 151-160, 2000.
- D39. Diaconescu, D.** *Effects of Antioxidants and Oxidants in the Bakery.* 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. 401-408, 1998.
- 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. Tămășdan, Șt. 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 Scientific 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. Tămășdan, Șt. 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 Scientific 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.**

**20.02.2019**

**Daniela Diaconescu**