

Assoc. Prof.dr.ing. Dana Radu

PhD thesis – in the field of Industrial engineering

T1. *Procedures to increase the preservation time of yeasts biotechnological qualities*”, “Dunărea de Jos” University of Galați, Faculty of Food Industries, Acvaculture and Fishing, 2005, Scientific supervisors: Prof.dr.ing. Dan Valentina, Prof.dr.ing. Stoicescu Antoaneta Gabriela

Books:

C1. Liliana Canțar, Dana Radu, Ana Bereneanț, Carmen Pivodă. *Citologie și Biologie celulară*, Editura Universității ”Aurel Vlaicu” Arad, 2002, 270 pag., ISBN 973-9361-95-1.

C2. Liliana Canțar, Dana Radu, Ana Bereneanț. *Materii prime de origine animală obținute ecologic*, Mediagraf Arad, 2002, 165 pag, ISBN 973- 0-02-84-7.

C3. Dana Radu. *Microbiologia și potențialul biotehnic al drojdiei de panificație*, Editura Oscar Print, București, 2007, 205 pag, ISBN 978-973-668-161-5.

C4. Dana Radu, Monica Zdremțan. *Microbiologie experimentală a mediului*, Editura Universității „Aurel Vlaicu”, Arad, 2007, 180 pag, ISBN 978-973-752-145-3.

C5. Dana Radu, Boboescu Ilie. *Managementul cultivării arbuștilor fructiferi și procesarea fructelor*, Editura Eurobit, Timișoara, 2007, 150 pag, ISBN 978-973-620-283-4.

C6. Dana Radu, Monica Zdremțan. *Microbiologie experimentală a mediului*, Ediția a II-a, Editura Universității „Aurel Vlaicu”, Arad, 2008, 240 pag, ISBN 978-973-752-260-3.

C7. Dana Radu, Popescu-Mitroi Ionel. *Ghid practic de microbiologie generală și aplicată*, Ed. Eurostampa, Timișoara, 2014, 112 pag., ISBN 978-606-569-810-9.

C8. Giulio Sarli, Eugenia Țigan- editors. Dana Radu (coauthor) *Il Progetto ”Agro-Bio”- Le Attivita ed I Risultati-*, Ed. Tipografia Grafica Sud s.a.s. Policoro, Italy, ISBN 978-88-901790-0-6.

Patents

B1. Patent nr. 128254, *Functional Food product for body weight management*, issued 27.11.2015. International class A23J 1/14 (2006.01), no. 128254 A0, Authors: Radu Dana Gina, Pag Andreea, abstract published in B.O.P.I. no 4/2013, p.14.

B2. Patent nr 128837/30.06.2016, *Procedeu de topire a plantelor liberiene ca de exemplu: in, cânepă, iută, etc.*, Authors: Sîrghie Cecilia, Radu Dana Gina, Munteanu Florentina Daniela, Pag Andreea, Dochia Mihaela, Tomescu Daniel.

Patent pending applications:

B3. A/00395/ 04.06.2018, *Metodă sustenabilă de ambalare ecologică a pâinii tradiționale fără aditivi de 1-4kg*. Authors: Radu Dana Gina, Dicu Anca Mihaela, Sîrghie Cecilia, Diaconescu Daniela, Popescu-Mitroi Ionel. Solicitant: SC Palmar Vali SRL.

B4. A/00782/08.10.2018, *Linie integrată de topire-epurare pentru prelucrarea tulpinilor de cânepă*”. Authors: Radu Dana Gina, Sîrghie Cecilia, Komjaty Andrei, Pătruț Ionel, Maxi Rodica. Solicitant: UAV.

B5. A/00772/04.10.2018, *Procedeu si instalatie de uscare in camp de microunde a tulpinilor de canepa*, Authors: Sîrghie Cecilia, Riti-Mihoc Emil, Radu Dana Gina, Maxi

Rodica, Pasat Sorin, Pătruț Ionel, Pomaga Eugen, Agache Gabriel. Solicitant: S.C. Caloris Group SA.

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- I1.** D. Condrat, Maria Raluca Szabo, Dana Radu, Alfa Xenia Lupea. Plant species from the *Angiospermatophita* and *Spermatophita* genus with antiradical and antimicrobial activity, *Oxidation Communications*, vol 32, No 4, 2009, pp. 924-929, ISSN: 0209-4541.
- I2.** Maria Raluca Szabo, Dana Radu, Simona Gavrițaș, Dorina Chambre, Cornelia Idițoiu, Antioxidant and antimicrobial properties of selected spice extracts, *International Journal of Food Properties*, 2010, 13: 535–545.
- I3.** Michaela Dina Stănescu, Mihaela Dochia, Dana Radu, Cecilia Sârghie, „Green solution for cotton scouring”, *Fibres & Textiles in Eastern Europe* 2010, vol. 18, no.3 (80) pp. 109-111.
- I4.** Oana Brînzan, Dana Radu, Eugenia Țigan, Food consumption and sustainability, *Journal of Environmental Protection and Ecology* (JEPE), ISSN 1311-5065, book 1, vol.13, 2012, 253 - 257.
- I5.** Pernevan M. S., Marsavina L., Radu D., Popa M., Sirghie C. Considerations About the Impact Behavior of Biocomposites Based on Polypropylene and Furan Resins Reinforced with Hemp Shives, *Journal of Natural Fibers*, 10 (2), 2013, pp.197-206.
- I6.** Ignat Ioana, Radu G. Dana, Volf Irina, Pag I. Andreea, Popa I. Valentin, Antioxidant and Antibacterial Activities of some Natural Polyphenols, *Cellulose Chemistry and Technology*(*Cellulose Chem. Technol.*), 47 (5-6), 2013, pp. 387-399.
- I7.** Andreea I. Pag, Dana G. Radu, D. Drăgănescu, M. I. Popa, Cecilia Sirghie, Flaxseed Cake – a Sustainable Source of Antioxidant and Antibacterial Extracts, *Cellulose Chemistry and Technology*, ISSN 0576-9787, 48 (3-4), 2014, pp. 265-273.
- I8.** I. Popescu-Mitroi, Dana Radu, Felicia Stoica, The study of glycerol metabolism in the malolactic fermentation of red Wines, *Romanian Biotechnological Letters*, Vol. 19, No. 1, 2014, pp. 9019-9027.
- I9.** R. M. Kozłowski, A. Kregielczak, D. G. Radu, A. I. Pag, C. Sirghie, Flax Seeds as Source of Biomedical Products and Foods, *Molecular Crystals and Liquid Crystals*, 1542-1406 (Print), 1563-5287 (Online), 2014, in press
- I10.** Claudia Jurca-Paven, Dana Radu, Ersilia Alexa, Sofia Pintilie, Adrian Riviș. *Anethum Graveolens* – an important source of antioxidant compounds for food industry, SGEM Proceedings 2018 - Advances in Biotechnology, Vol. 18, issue 6.2, pp. 11 – 18, <http://doi.org/10.5593/sgem2018/6.2>
- I11.** Claudia Jurca-Paven, Dana Radu, Diana Obistioiu, Ersilia Alexa, Adrian Riviș. Evaluation of *Foeniculum Vulgare* as an antimicrobial agent in whey cheeses, SGEM Proceedings 2018 - Advances in Biotechnology, Vol. 18, issue 6.2, pp. 179-184, <http://doi.org/10.5593/sgem2018/6.2>
- I12.** Jurca Paven Claudia, Radu Dana, Popescu Iuliana, Cocan Ileana, Alexa Ersilia, Riviș Adrian. Antimicrobial Compounds of *Anethum graveolens* and Their Efficacy in Ricotta Safety Enhancement, The 1st International Conference on Life Sciences, 24-26th may 2018 Section: Food Chemistry, Engineering & Technology, book of abstracts, OP8. (*accepted to be published*)

I13. A.M. Dicu, M.M. Balas, C. Sîrghie and D. Radu. Assessing the Quality of Bread by Fuzzy Weights of Sensory Attributes, 8th International Workshop on Soft Computing Applications (SOFA) 13-15th september 2018, Arad, <http://www.sofa2018.org/index.html>, Advances in Intelligent Systems and Computing (ISSN 2194-5357)

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D1 Liliana Canțar, Dana Radu, Simina Neagu. „La calité du matériel séminal de bouc, exprimé par la prétabilité au congélation dans differents dilueurs”, „Zilele Academice Timișene”, USAMVB Timișoara, mai 2002, *Lucrări științifice, Seria: Zootehnie și Biotehnologii*, vol XXXV, 2002, Ed. Agroprint, Timișoara, p.195-198, ISBN 1221-5287.

D2 Liliana Canțar, Dana Radu, Simina Neagu. „Des etudes sur la contribution de glycerol dans la cryoconservation du materiel seminal de bouc”, „Zilele Academice Timișene”, USAMVB Timișoara, mai 2002, *Lucrări științifice, Seria: Zootehnie și Biotehnologii*, vol XXXV, 2002, Ed. Agroprint, Timișoara, p.199-202, ISBN 1221-5287.

D3. Dana Radu, Liliana Canțar. „L'etude de l'efficacite de tyndallisation comparee avec la pasteurisation du lait”, *Actes du deuxieme Colloque franco-roumain de chimie appliquee COFrRoCA - 2002*, 10-12 octombrie 2002, Bacău, România, pag.185-189, Ed.Alma Mater Bacău, ISBN 973-8392-04-7, Ed. Tehnica-info, Chișinău, Republica Moldova, ISBN 9975-63-140-1.

D4. Liliana Canțar, Dana Radu, Mihaela Ciurea. „Le glycerol, agent chimique protecteur du materiel seminal, utilise dans la biotechnologie de cryoconservation”, publicat în *Actes du deuxieme Colloque franco-roumain de chimie appliquee COFrRoCA - 2002*, 10-12 octombrie 2002 Bacău, România, Ed.Alma Mater Bacău, ISBN 973-8392-04-7, Ed. Tehnica-info, Chișinău, Republica Moldova, pag. 189-193, ISBN 9975-63-140-1.

D5. Dana Radu, Ionel Popescu, Bujor Pancan, “Studies upon the *Actinomucor elegans* proteolytic activity during solid-state fermentation in obtaining *sufu*”, *Journal of Agroalimentary Processes and Technologies*, 2009, vol XV, nr. 3, ISSN: 1453-1399, Timișoara, p. 366-369. BDI index: IFIS, CAS, CABI;

D6. Ionel Popescu-Mitroi, Dana Radu, Felicia Stoica, “Researches concerning the malic acid content of wines during storage period”, *Journal of Agroalimentary Processes and Technologies*, 2009, Timișoara, vol XV, nr. 3, ISSN: 1453-1399, p. 414-420, BDI index: IFIS, CAS, CABI;

D7. Ionel Popescu-Mitroi, Dana Radu, Felicia Stoica, „The Monitoring of Physicochemical Parameters of Red Wines during Malolactic Fermentation”, *Annals of West University of Timișoara, Series of Chemistry*, vol 19, no.2, 2010, pp. 42 – 50.

D8. Dana G. Radu, Cecilia Sirghie, Testing the Effectiveness of some Environmental-Friendly Antibacterial Fabrics, *Advances in Environment Technologies, Agriculture, Food & Animal Science, Proceedings of the 2nd International Conference on Agricultural Science, Biotechnology, Food and Animal Science (ABIFA 13)*, ISSN 2227-4359, ISBN 978-1-61804-188-3, pp. 300. <http://www.wseas.org/multimedia/books/2013/Brasov/ABIETE.pdf>

D9. Dana Radu, Popescu Ionel. „Researches concerning cholesterol uptake in *Saccharomyces cerevisiae*”, la Ediția a XI –a a Simpozionului „Safe Food all Over Europe”, USAMVB Timișoara, Facultatea de Tehnologia Produselor Agroalimentare, 26-27 mai 2005, publicat în

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D10. Popescu Ionel, Dana Radu. "Researches concerning the cholesterol role in alcoholic fermentation dynamic", *Scientific researches, Agroalimentary Processes and Technologies*, vol.XI, nr.2, 2005, p.333-336, Ed. Agroprint Timișoara, ISSN 1453-1399.

D11. Dana Radu, Gabriela Stoicescu. „Trehalose content – major determinant of stress resistance for stationary phase yeasts”, Conferința jubiliară cu participare internațională „Științe, Procese și Tehnologii Agro-Alimentare”, organizată de Univ.”Lucian Blaga” Sibiu, Facultatea de Științe Agricole, Industrie Alimentară și Protecția Mediului, 12-13 mai 2005; publicat în *Proceedings of the International Conference „Agricultural and Food Sciences, Processes and Technologies”*, Vol.1, Ed. Univ. Lucian Blaga Sibiu, p. 223-227, ISBN 973739-093-8.

D12. Mihaela Meșter, Dana Radu, Ioan Danciu. "Additives in food industry. Natural additives in ice cream", *Proceedings of 1st International Conference "Research People and Actual Tasks on Multidisciplinary Sciences" 6–8 June 2007, Lozenec, Bulgaria*, vol. III: Ecology and Environment Protection, p.117-121, ISBN 978-954-91147-3-7.

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Vi1. Tămășdan Ștefan, Dana Radu, Cornelia Savici. „Cercetări privind aspectele fizico-chimice ale apelor râului Mureș în zona Municipiului Arad”, „*Zilele Academice Timișene – Ingineria protecției și depoluării mediului*”, Ediția a VI-a, 27-28 mai 1999, Ed. Mirton Timișoara, p. 67-70, ISBN 973-585-303-5.

Vi2. Dana Radu. “Studii privind creșterea conservabilității drojdiei comprimate”, *Sesiunea Jubiliară de comunicări științifice cu participare internațională – 10 ani de la înființarea Universității Aurel Vlaicu Arad*, 27-28 octombrie 2000, Arad, publicat în *Analele Univ. “Aurel Vlaicu” Arad*, 2000, *Seria: Chimie, Fascicula: Inginerie Alimentară*, p.87-93, ISSN 1582-3415.

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Vi4. Dana Radu. „The analysis and control of certain quality indicators for baby-foods”, „*Natural Resources and Sustainable agriculture*”. *Proceedings of the 2nd International Symposium Debrecen-Oradea*, 23-24 aprilie 2004, Ed. Universității din Oradea, 2005, p.299-305, RO ISBN 973-613-898-4, HU ISBN 963-9274-887.

Vi5. Dana Radu. „Prolonging the biotechnological qualities of baker’s yeast by adding exogenous trehalose”, *Proceedings of the VIth International Symposium „Young People and Multidisciplinary Research” of Association for Multidisciplinary Research in the West Zone of Romania*, 23-24 septembrie, 2004, Timișoara, Ed. Sudura Printing House, p.690-693, ISBN 973-8359-26-0.

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- Vi17.** Zdremțan Monica, Ianchici Raul, Radu Dana, Ivașcu Antonia, Stângă Adriana, Tamas Dumitra, Zdremțan Dana. „The action of ultrasounds on the tobacco seeds proteins extraction yield”, *Proceedings of 1st International Conference "Research People and Actual Tasks on Multidisciplinary Sciences"* 6–8 June 2007, Lozenec, Bulgaria, vol. I: Agriculture and veterinary medicine, p. 119-122, ISBN 978-954-91147-3-7.
- Vi18.** Ianchici Raul, Segal Rodica, Radu Dana. „The action of ultrasounds on the *Spirulina platensis* proteins extraction yield”, *Lucrările Simpozionului Internațional Euro-Aliment*, 20-21 septembrie 2007, Galați, Romania, p.93-96.
- Vi19.** Dana Radu, M. D. Stanescu. *Pectinases for improving antioxidant fruit juice content* COST 928 Work groups meeting, 3-4 April 2008, Norwich, United Kingdom, Abstracts book, p. 21. http://virtual.vtt.fi/virtual/cost928/Norwich_abstracts.pdf
- Vi20.** Bojidar D. D., Valea R.A., Neagoe Corina, Cîrnațu Daniela, Măgulean Mihaela, Radu Dana, *Study Regarding Mold Contamination of Nuts Samples for Confectionary*, 11th Regional Conference of Environment and Health, 2009, University of Szeged, Faculty of Medicine, Department of Public Health
- Vi21.** Dana Radu. India Engineering Sourcing Show 2012 (IESS), Mumbai, India between 22nd- 25th of March, 2012.
- Vi22.** FAO Regional Round Table on Problems of Medicinal and Aromatic Plants, 3-5 April 2012, Budapest – Hungary, <http://www.agrowebcee.net/map/events/regional-roundtable-2012/round-table-2012-lop/>
- Vi23.** Radu G. Dana, Kozłowski M. Ryszard, Pag I. Andreea, Sîrghie Cecilia, *Flax and Hemp seeds By-Products for Food and Biomedical Application*, 7th Conference on Medicinal and Aromatic Plants of Southeast European Countries, Book of Abstracts, 27-31st May, 2012, Subotica, Republic of Serbia.
- Vi24.** Dana Radu, Andreea Pag, Cecilia Sîrghie. *Valorising Linseed, Hemp and Rapeseed extracts through Functional Food*, 4th International Symposium Research and Education in Innovation Era, Chemistry & Application Fields, 8th – 9th November, 2012, Arad
- Vi25.** Andreea Pag, Dana Radu, Dan Drăgănescu, Marcel Popa, Cecilia Sîrghie. *Obtaining and Characterization of Flax Seed Lignans*, 4th International Symposium Research and Education in Innovation Era, Chemistry & Application Fields, 8th – 9th November, 2012, Arad
- Vi26.** Mihaela Meșter, Dana Radu, *Characterisation of α -amylase extract from malt*, 4th International Symposium Research and Education in Innovation Era, Chemistry & Application Fields, 8th – 9th November, 2012, Arad
- Vi27.** Ioana Ignat, Dana Radu, Andreea Pag, Dan Drăgănescu. *Extraction and Characterization of Flax seed lignans*, 4th International Symposium Research and Education in Innovation Era, Chemistry & Application Fields, 8th – 9th November, 2012, Arad.
- Vi28.** R. M. Kozłowski, A. Kregielczak, D. G. Radu, A. I. Pag, C. Sîrghie, *Flax Seeds as Source of Biomedical Products and Foods*, the 12th International Conference on Frontiers of

Polymers and Advanced Materials (12th ICFPAM), held from 8-13th December 2013 in Auckland, New Zealand.

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L1. Dana Radu. „Inside aspects of yeast cell stress”, *Scientific and Technical Bulletin of Aurel Vlaicu University Arad, Series Chemistry, Food Science & Engineering*, 2003, vol.8(IX), p. 87-94, ISSN 1582-1021.

L2. Dana Radu. „Study of a wall painting microbiota”, *Scientific and Technical Bulletin of Aurel Vlaicu University Arad, Series Chemistry, Food Science & Engineering*, 2004, vol.9(X), p. 58-62, ISSN 1582-1021.

L3. Dana Radu. „Bakers yeast with exogenous trehalose to improve frozen dough”, Simpozionul științific cu participare internațională al Facultății de Horticultură a Universității din Craiova, 28 octombrie 2005, publicat în *Analele Universității din Craiova*, 2005, vol. X (XLVI), p.365-370, ISSN 1435-1275.

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L5. Dana Radu, Popescu Ionel. „Researches concerning cholesterol uptake in *Saccharomyces cerevisiae*”, la Ediția a XI –a a *Simpozionului „Safe Food all Over Europe”*, USAMVB Timișoara, Facultatea de Tehnologia Produselor Agroalimentare, 26-27 mai 2005, *Scientific researches, Agroalimentary Processes and Technologies*, vol.XI, nr.2, 2005, Ed. Agroprint Timișoara, p.327-332, ISSN 1453-1399.

L6. Popescu Ionel, Dana Radu. “Researches concerning the cholesterol role in alcoholic fermentation dynamic”, *Scientific researches, Agroalimentary Processes and Technologies*, vol.XI, nr.2, 2005, p.333-336, Ed. Agroprint Timișoara, ISSN 1453-1399.

L7. Dana Radu, Meșter Mihaela. „HACCP study for a newly installed milk powder production line”, *Scientific and Technical Bulletin of Aurel Vlaicu University Arad, Series Chemistry, Food Science & Engineering*, 2006, vol.11(XII), p. 176-180, ISSN 1582-1021.

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L9. Oana Brânzan, Dana Gina Radu, Eugenia Țigan, *Sustainable food production and consume*, Scientific and Technical Bulletin of University „A. Vlaicu” of Arad, Volume 13(XIV), 2008, p. 111-115, ISSN 1582-1021

L10. Dana Radu, S. Gavrițaș, M.D. Stănescu. Pectinases for improving raspberry and blackberry juice production, *Scien. and Techn. Bull. Chemistry, Food Science & Engineering*, 2008, Volume 13(XIV), ISSN 1582-1021,

L 11. Andreea Pag, Cristian Moisa , Dana Gina Radu, Cecilia Sirghie, Obtaining flax lignans or nutraceuticals for functional food purposes, *Scientific Bulletin of ESCORENA*, 2010, vol. 2, p.47-53, ISSN 2069-8070

L.12 Cristian Moisa , Andreea Pag, Dana Gina Radu, Cecilia Sirghie Obtaining bast plants oils with specific nutritional and functional properties, *Scientific Bulletin of ESCORENA*, 2010, vol. 2, p.53-61, ISSN 2069-8070

L 13. Dana Radu, Meșter Mihaela. The characterization of α -amylase extract from malt, *Scientific Bulletin of ESCORENA*, 2012, vol. 6, p.23-28, ISSN 2069-8070.

Arad, 15.02.2019

A handwritten signature in blue ink, appearing to read 'D. Radu', is positioned below the date. The signature is fluid and cursive.