

CV

PERSONAL INFORMATION

Family name, First name: Vodnar, Dan Cristian
Researcher unique identifier: <https://orcid.org/0000-0001-5407-8071>
Date of birth: 1982-Nov-02
Nationality: Romanian
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• EDUCATION

- 2010 PhD
Faculty of Food Science and Technology, University of Agricultural Sciences and Veterinary Medicine (UASVM), Cluj-Napoca, Romania
Prof. Carmen Socaciu
- 2009 Master
Food Quality Management, UASVM, Cluj-Napoca, Romania

• • CURRENT POSITION(S)

- 2016 - Vice-rector for Research
UASVM, Cluj-Napoca, Romania
- 2019 - Professor
Faculty of Food Science and Technology, UASVM, Cluj-Napoca, Romania
- 2017 - Bio-economy Expert, European Commission, Belgium
- 2016 - Scientific Manager, [BIOZOON](#) GMBH, Germany; innovative food products.

• • PREVIOUS POSITIONS

- 2015 - 2017 Lecturer
Faculty of Food Science and Technology, UASVM, Cluj-Napoca, Romania
- 2011 - 2015 Teaching Assistant
Faculty of Food Science and Technology, UASVM, Cluj-Napoca, Romania

• • FELLOWSHIPS

- 2008 - 2009 DBU Scholarship, Department Bioengineering, Leibniz Institute for Agricultural Engineering and Bioeconomy, Potsdam, Germany
- 2005 - 2005 Erasmus Mobility, Food Science and Engineering, University of Hohenheim, Germany

• • SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2015 - 5 Postdocs; 9 PhD; 22 Master Students (and 3 Erasmus foreign students)
Faculty of Food Science and Technology, UASVM, Cluj-Napoca, Romania

• • **TEACHING ACTIVITIES**

2011 - Courses: Food Biotechnology (bachelor); Molecular Gastronomy (master); Integrated Omics in Food Biotechnology (master); Techno-managerial Principles in the Agri-food Chain (master). UASVM, Cluj-Napoca, Romania

2011 (Sep) Universidad Politecnica de Valencia, Spain

2017 (Dec) Universite D 'Abomey Calavi, The Republic of Benin, Africa

2018 (Oct) Yanka Kupala State University of Grodno, Belarus

• • **ORGANISATION OF SCIENTIFIC MEETINGS**

2019 (Jan) Food: The human diet, round table and Scientific Cafe. UASVM Cluj-Napoca

2016 (Sep) International Symposium” Prospects of the 3rd Millennium Agriculture”, UASVM Cluj-Napoca

• • **INSTITUTIONAL RESPONSIBILITIES**

2016 - Vice Rector for Research, UASVM Cluj-Napoca, Romania

2018 - 2019 Director Doctoral School, UASVM Cluj-Napoca, Romania

2018 - Manager Technology Transfer Centre-Biotech, USAMV Cluj-Napoca, Romania

• • **REVIEWING ACTIVITIES**

2017 - Expert Evaluator, European Commission, Brussels, Belgium

2017 - Expert Evaluator, Executive Unit for Financing Higher Education, Research, Development and Innovation (UEFISCDI), Romania

2016 - Expert Evaluator, Ministry of Research and Innovation (MCI), Romania

2016 - Editor-in-Chief, Bulletin of University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca, Romania

2014 - Editorial team member: American Journal of Clinical Microbiology and Antimicrobials, Annals of Medical Case Reports, Asian Food Science Journal, Clinical Journal of Nutrition and Dietetics, EC Nutrition, European Journal of Nutrition and Food Safety, Food and Nutrition Open Access, Frontiers in Nutrition, Global Journal of Botanical Science, International Journal of Chromatography and Separation Technique, International Journal of Veterinary Science and Research, Journal of Applied Life Sciences International, Journal of Botanical Sciences, Journal of Food Science and Nutrition Therapy, Journal of Integrative Food Sciences & Nutrition, Journal of Molecular and Genetic Medicine, Journal of Nutrition and Food Science Forecast, Journal of Nutrition and Metabolism Research, Journal of Plant Chemistry and Ecophysiology, Know Your Food. Food ethics and innovations, Modern Applications in Pharmacy & Pharmacology, Peertechz Journal of Medicinal Chemistry and Research, Peertechz- Journal of Food Science and Nutrition Therapy, Research & Reviews: Journal of Botanical Sciences, Research Journal of Food

Nutrition, SM Allergy and Therapy, The Open Biotechnology Journal, Veterinary and Dairy Sciences.

• • **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

- 2017 - Member, Research Network “ISEKI-Food Association”
- 2017 - Member, Research Network “Slow Food International”
- 2016 - Member, Research Network “European Plant Science Organisation”
- 2012 - Member, Research Network “American Nutrition Association”

• • **MAJOR COLLABORATIONS**

- • [Prof. Gianina Crişan](#), Biological activity of natural products. Department of Biology and Natural Products, Iuliu Haţieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania.
- • [Dr. Nicolae Leopold](#), Raman and SERS on natural products, Department of Biomolecular Physics; Babeş-Bolyai University, Cluj-Napoca, Romania.
- • [Prof. Eva Henrietta Dulf](#), Mathematical modelling of biotechnological processes, Department of Automation, Technical university, Cluj-Napoca, Romania.
- • [Dr. Joachim Venus](#), Bioconversion of vegetal substrates into valuable organic chemicals. Department of Bioengineering, Leibniz Institute for Agricultural Engineering and Bioeconomy, Potsdam, Germany.
- • [Dr. Marco Consumi](#), Food Coatings, Biotechnology Department, University of Siena, Italy.
- • [Dr. Magdalini Krokida](#), Valorisation of waste bioactive compounds, School of Chemical Engineering at National Technical University of Athens, Greece.
- • [Prof. Herv This](#), Molecular Gastronomy, International Centre for Molecular Gastronomy AgroParisTech-INRA, France.

<i>Project Title</i>	<i>Funding source</i>	<i>Role of the PI</i>
NOvel Natural Antimicrobial CoaTings f production chain	Eranet-Manunnet III <i>International grant</i>	Project Partner Responsible
Sustainable exploitation of tomato processing by-products	Eranet-Manunnet II <i>International grant</i>	Project Partner Responsible
Automated aquaponic system for sustainable f production	DBU <i>International grant</i>	Project Partner Coordinator
Functional collaboration model between research organisations and the private sector level scientific and technological services in economy field	Romanian Ministry of Res: <i>National Grant</i>	Project Coordinator
Sugar reduction and increased bioavailability food waste compounds in sweet bakery produ	Romanian Ministry of Res: <i>National Grant</i>	Project Coordinator
Increasing institutional performance mechanisms to strengthen and develop directions within USAMVCN	Romanian Ministry of Res: <i>National grant</i>	Project Coordinator

From classic nutrition to precision nutrition in of animal husbandry, the scientific basis for nutritional security of the population	Romanian Ministry of Res: <i>National grant</i>	Project Partner Responsible
Bioprocess development and modelling o propanediol (1,3-PD) and citric acid productio crude glycerol for functional food market	Romanian Ministry of Res: <i>National grant</i>	Project Coordinator

Publications and Conferences

2022

Research Articles

205. MITREA, L., TELEKY, B. E., LEOPOLD, L. F., NEMES, S. A., PLAMADA, D., DULF, F. V., POP, I.D., **VODNAR, D. C.*** The physicochemical properties of five vegetable oils exposed at high temperature for a short-time-interval. *Journal of Food Composition and Analysis*, 2022, 106, 104305. (*corresponding author)

204. PLAMADA, D., **VODNAR, D. C.*** Polyphenols-Gut Microbiota Interrelationship: A Transition to a New Generation of Prebiotics. *Nutrients*, 2022, 14(1), 137. (*corresponding author)

2021

Research Articles

203. MARTĂU, G. A., EMOKE, T. B., RANGA, F., POP, I. D., **VODNAR, D. C.*** Apple pomace as a sustainable substrate in sourdough fermentation. *Frontiers in Microbiology*, 2021, 3850. (*corresponding author)

202. SZABO, K., TELEKY, B. E., RANGA, F., SIMON, E., POP, O. L., BABALAU-FUSS, V., ... & **VODNAR, D. C.*** Bioaccessibility of microencapsulated carotenoids, recovered from tomato processing industrial by-products, using in vitro digestion model. *LWT*, 2021, 152, 112285. (*corresponding author)

201. FELFÖLDI, Z., RANGA, F., SOCACI, S. A., FARCAS, A., PLAZAS, M., SESTRAS, A. F., **VODNAR, D. C.**, PROHENS, J., SESTRAS, R. E. Physico-Chemical, Nutritional, and Sensory Evaluation of Two New Commercial Tomato Hybrids and Their Parental Lines. *Plants (Basel, Switzerland)*, 2021,10(11).

200. IGUAL, M.; CHIȘ, M.S.; PĂUCEAN, A.; **VODNAR, D. C.**; MUSTE, S.; MAN, S.; MARTÍNEZ-MONZÓ, J.; GARCÍA-SEGOVIA, P. Valorization of Rose Hip (*Rosa canina*) Puree Co-Product in Enriched Corn Extrudates. *Foods*, 2021, 10, 2787.

199. MARC, G.; STANA, A.; FRANCHINI, A.H.; **VODNAR, D. C.***; BARTA, G.; TERTIȘ, M.; ȘANTA, I.; CRISTEA, C.; PÎRNĂU, A.; CIORÎȚĂ, A.; DUME, B.; TOMA, V.-A.; VLASE, L.; ONIGA, I.; ONIGA, O. Phenolic Thiazoles with Antioxidant and Antiradical Activity. Synthesis, In Vitro Evaluation, Toxicity, Electrochemical Behavior, Quantum Studies and Antimicrobial Screening. *Antioxidants*, 2021, 10, 1707. (*corresponding author)

198. VARVARA, R.-A.; SZABO, K.; **VODNAR, D. C.*** 3D Food Printing: Principles of Obtaining Digitally-Designed Nourishment. *Nutrients*, 2021, 13, 3617. (*corresponding author)

197. IGUAL, M.; CHIȘ, M.S.; PĂUCEAN, A.; **VODNAR, D. C.**; RANGA, F.; MIHĂIESCU, T.; TÖRÖK, A.I.; FĂRCAȘ, A.; MARTÍNEZ-MONZÓ, J.; GARCÍA-SEGOVIA, P. Effect on Nutritional and Functional Characteristics by Encapsulating *Rose canina* Powder in Enriched Corn Extrudates. *Foods*, 2021, 10, 2401.

196. BARTA, D. G., COMAN, V., VODNAR, D. C.* Microalgae as sources of omega-3 polyunsaturated fatty acids: Biotechnological aspects. *Algal Research*, 2021, 58, 102410. (*corresponding author)
195. MARTĂU, G.-A.; UNGER, P.; SCHNEIDER, R.; VENUS, J.; VODNAR, D. C.*; LÓPEZ-GÓMEZ, J.P. Integration of Solid State and Submerged Fermentations for the Valorization of Organic Municipal Solid Waste. *J. Fungi*, 2021, 7, 766. (*corresponding author)
194. VIȘAN, V.-G.; CHIȘ, M.S.; PĂUCEAN, A.; MUREȘAN, V.; PUȘCAȘ, A.; STAN, L.; VODNAR, D. C.; DULF, F.V.; ȚIBULCĂ, D.; VLAIC, B.A.; RUSU, I.E.; KADAR, C.B.; VLAIC, A. Influence of Marination with Aromatic Herbs and Cold Pressed Oils on Black Angus Beef Meat. *Foods*, 2021, 10, 2012.
193. POP, B.; IONUȚ, I.; MARC, G.; VODNAR, D. C.; PÎRNĂU, A.; VLASE, L.; ONIGA, O. Development of new 2-methyl-4-salicylamide thiazole derivatives: Synthesis, antimicrobial activity evaluation, lipophilicity and molecular docking study. *Farmacia*, 2021, 69, 724-731
192. MĂRGĂOAN, R.; TOPAL, E.; BALKANSKA, R.; YÜCEL, B.; ORAVECZ, T.; CORNEA-CIPCIGAN, M.; VODNAR, D.C. Monofloral Honeys as a Potential Source of Natural Antioxidants, Minerals and Medicine. *Antioxidants*, 2021, 10, 1023.
191. SIMON, E.; CĂLINOIU, L.F.; MITREA, L.; VODNAR, D. C.* Probiotics, Prebiotics, and Synbiotics: Implications and Beneficial Effects against Irritable Bowel Syndrome. *Nutrients*, 2021, 13, 2112. (*corresponding author)
190. IGUAL, M.; CHIȘ, M.S.; SOCACI, S.A.; VODNAR, D. C.; RANGA, F.; MARTÍNEZ-MONZÓ, J.; GARCÍA-SEGOVIA, P. Effect of *Medicago sativa* Addition on Physicochemical, Nutritional and Functional Characteristics of Corn Extrudates. *Foods*, 2021, 10, 928.
189. MACARI, A.; STURZA, R.; LUNG, I.; SORAN, M.-L.; OPRIȘ, O.; BALAN, G.; GHENDOV-MOSANU, A.; VODNAR, D. C.; COJOCARI, D. Antimicrobial Effects of Basil, Summer Savory and Tarragon Lyophilized Extracts in Cold Storage Sausages. *Molecules*, 2021, 26, 6678.
188. DUMITRU, M.; VODNAR, D. C.; ELEMER, S.; CIURESCU, G.; HABEANU, M.; SORESCU, I.; GEORGESCU, S.E.; DUDU, A. Evaluation of Non-Encapsulated and Microencapsulated Lactic Acid Bacteria. *Appl. Sci.* 2021, 11, 9867.
187. TELEKY, B.-E.; VODNAR, D. C.* Recent Advances in Biotechnological Itaconic Acid Production, and Application for a Sustainable Approach. *Polymers*, 2021, 13, 3574. (*corresponding author)
186. VODNAR, D. C., VENUS, J., & DUFOSSÉ, L. Recent Advances in Microbial Biotechnology for the Food Industry. *Frontiers in Microbiology*, 2021, 2879.
185. BRATOSIN, B.C.; DARJAN, S.; VODNAR, D. C.* Single Cell Protein: A Potential Substitute in Human and Animal Nutrition. *Sustainability*, 2021, 13, 9284. (*corresponding author)
184. RÂPĂ, M.; STEFAN, M.; POPA, P.A.; TOLOMAN, D.; LEOSTEAN, C.; BORODI, G.; VODNAR, D. C.; WRONA, M.; SALAFRANCA, J.; NERÍN, C.; BARTA, D.G.; SUCIU, M.; PREDESCU, C.; MATEI, E. Electrospun Nanosystems Based on PHBV and ZnO for Ecological Food Packaging. *Polymers*, 2021, 13, 2123.
183. HANGANU, D.; NICULAE, M.; IELCIU, I.; OLAH, N.-K.; MUNTEANU, M.; BURTESCU, R.; ȘTEFAN, R.; OLAR, L.; PALL, E.; ANDREI, S.; VODNAR, D. C.; BENEDEC, D.; ONIGA, I. Chemical Profile, Cytotoxic Activity and Oxidative Stress Reduction of Different *Syringa vulgaris* L. Extracts. *Molecules*, 2021, 26, 3104.

182. MOLDOVAN, C., BABOTĂ, M., MOCAN, A., MENGHINI, L., CESA, S., GAVAN, A., SISEA, C., VODNAR, D. C.; ... & BARROS, L. Optimization of the drying process of autumn fruits rich in antioxidants: a study focusing on rosehip (*Rosa canina* L.) and sea buckthorn (*Elaeagnus rhamnoides* (L.) A. Nelson) and their bioactive properties. *Food & Function*, 2021, 12(9), 3939-3953.

181. MIHALCA, V.; KEREZSI, A.D.; WEBER, A.; GRUBER-TRAUB, C.; SCHMUCKER, J.; VODNAR, D. C.; DULF, F.V.; SOCACI, S.A.; FĂRCAȘ, A.; MUREȘAN, C.I.; SUHAROSCHI, R.; POP, O.L. Protein-Based Films and Coatings for Food Industry Applications. *Polymers*, 2021, 13, 769.

180. MARTĂU, G. A., CĂLINOIU, L. F., VODNAR, D. C.* Bio-vanillin: Towards a sustainable industrial production. *Trends in Food Science & Technology*, 2021, 109, 579-592. (*corresponding author)

179. SOCACIU, M.-I.; FOGARASI, M.; SIMON, E.L.; SEMENIUC, C.A.; SOCACI, S.A.; PODAR, A.S.; VODNAR, D. C.* Effects of Whey Protein Isolate-Based Film Incorporated with Tarragon Essential Oil on the Quality and Shelf-Life of Refrigerated Brook Trout. *Foods* 2021, 10, 401. (*corresponding author)

178. SZABO, K.; DULF, F.V.; TELEKY, B.-E.; ELENI, P.; BOUKOUVALAS, C.; KROKIDA, M.; KAPSALIS, N.; RUSU, A.V.; SOCOL, C.T.; VODNAR, D.C*. Evaluation of the Bioactive Compounds Found in Tomato Seed Oil and Tomato Peels Influenced by Industrial Heat Treatments. *Foods* 2021, 10, 110. (*corresponding author)

177. LIPAN, L., RUSU, B., LAJOS, E. S., SENDRA, E., HERNÁNDEZ, F., VODNAR, D. C., ... & CARBONELL-BARRACHINA, Á. Chemical and sensorial characterization of spray dried hydroSOSustainable almond milk. *Journal of the Science of Food and Agriculture*, 2021, 101 (4) 1372-1381.

177. LIPAN, L., RUSU, B., LAJOS, E. S., SENDRA, E., HERNÁNDEZ, F., VODNAR, D. C., ... & CARBONELL-BARRACHINA, Á. Chemical and sensorial characterization of spray dried hydroSOSustainable almond milk. *Journal of the Science of Food and Agriculture*, 2021, 101 (4) 1372-1381.

2020

Research Articles

176. VODNAR, D.C., MITREA, L., TELEKY, B. E., SZABO, K., CĂLINOIU, L. F., NEMEȘ, S. A., MARTĂU, G. A. Coronavirus Disease (COVID-19) Caused by (SARS-CoV-2) Infections: A Real Challenge for Human Gut Microbiota. *Frontiers in Cellular and Infection Microbiology*. 2020, 10: 786.

175. GAL, E.; GAINA, L.; PETKES, H.; POP, A.; CRISTEA, C.; BARTA, G.; VODNAR, D. C.; SILAGHI DUMITRESCU, L. Ultrasound-assisted Strecker synthesis of novel 2-(hetero)aryl-2-(arylamino)acetonitrile derivatives. *Beilstein Journal of Organic Chemistry*, 2020, 16, 2929-2936.

174. CIOBANU, L., TEFAS, C., OANCEA, D. M., BERCE, C., VODNAR, D., MESTER, A., ONICA, S., TOMA, C., TAULESCU, M. Effect of *Lactobacillus Plantarum* ACTT 8014 on 5-fluorouracil induced intestinal mucositis in Wistar rats. *Experimental and Therapeutic Medicine*, 2020, 20(6), 209.

173. MARTIN, F., POP, M., KACSO, I., GROSU, I. G., MICLAUS, M., VODNAR, D., LUNG, I., FILIP, G., ELENA OLTEANU, E.D., MOLDOVAN, R., NAGY, A., FILIP, X., BĂLDEA, I., NAGY, A. Ketoconazole-p-aminobenzoic acid cocrystal: revival of an old drug by crystal engineering. *Molecular Pharmaceutics*, 2020; 17(3), 919-932.

172. MITREA, L., Trif, M., **VODNAR, D.C***. The effect of crude glycerol impurities on 1,3-propanediol biosynthesis by *Klebsiella pneumoniae* DSMZ 2026. *Renewable Energy*. **2020**; 153, 1418-1427. (*corresponding author)
171. MITREA, L., LEOPOLD, L.F., BOUARI, C., **VODNAR, D.C***. Separation and Purification of Biogenic 1,3-Propanediol from Fermented Glycerol through Flocculation and Strong Acidic Ion-Exchange Resin. *Biomolecules*. **2020**; 10(12):1601. (*corresponding author)
170. COMAN, V., **VODNAR, D.C***. Gut microbiota and old age: Modulating factors and interventions for healthy longevity. *Experimental Gerontology*. 2020, (141) 111095. (*corresponding author)
169. STURZA, A., PĂUCEAN, A., CHIȘ, M.S., MUREȘAN, V., **VODNAR, D.C.**, MAN, S.M., URCAN, A.C., RUSU, I.E., FOSTOC, G., MUSTE, S. Influence of Buckwheat and Buckwheat Sprouts Flours on the Nutritional and Textural Parameters of Wheat Buns. *Applied Sciences*. **2020**; 10(22):7969.
168. CHIȘ, M.S., PĂUCEAN, A., MAN, S.M., **VODNAR, D.C.**, TELEKY, B-E, POP, C.R., STAN, L., BORSAL, O., KADAR, C.B., URCAN, A.C., MUSTE, S. Quinoa Sourdough Fermented with *Lactobacillus plantarum* ATCC 8014 Designed for Gluten-Free Muffins—A Powerful Tool to Enhance Bioactive Compounds. *Applied Sciences*. **2020**; 10(20):7140.
167. POP, O.L.; **VODNAR, D.C.**; DIACONEASA, Z.; ISTRATI, M.; BINȚINȚAN, A.; BINȚINȚAN, V.V.; SUHAROSCHI, R.; GABBIANELLI, R. An Overview of Gut Microbiota and Colon Diseases with a Focus on Adenomatous Colon Polyps. *International Journal of Molecular Sciences*. **2020**, 21, 7359.
166. DERDAK, R.; SAKOUI, S.; POP, O.L.; MURESAN, C.I.; **VODNAR, D.C.**; ADDOUM, B.; VULTURAR, R.; CHIS, A.; SUHAROSCHI, R.; SOUKRI, A.; EL KHALFI, B. Insights on Health and Food Applications of *Equus asinus* (Donkey) Milk Bioactive Proteins and Peptides—An Overview. *Foods* **2020**, 9, 1302.
165. ȘTEFĂNESCU, B.-E.; CĂLINOIU, L.F.; RANGA, F.; FETEA, F.; MOCAN, A.; **VODNAR, D.C***; CRIȘAN, G. The Chemical and Biological Profiles of Leaves from Commercial Blueberry Varieties. *Plants* **2020**, 9, 1193. (*corresponding author)
164. TELEKY, B.-E.; MARTĂU, G.A.; **VODNAR, D.C***. Physicochemical Effects of *Lactobacillus plantarum* and *Lactobacillus casei* Cocultures on Soy-Wheat Flour Dough Fermentation. *Foods* **2020**, 9, 1894. (*corresponding author)
163. POP, O.L.; MESAROS, A.; **VODNAR, D.C.**; SUHAROSCHI, R.; TĂBĂRAN, F.; MAGERUȘAN, L.; TÓDOR, I.S.; DIACONEASA, Z.; BALINT, A.; CIONTEA, L.; SOCACIU, C. Cerium Oxide Nanoparticles and Their Efficient Antibacterial Application *In Vitro* against Gram-Positive and Gram-Negative Pathogens. *Nanomaterials* **2020**, 10, 1614.
162. RUSU, I.G.; SUHAROSCHI, R.; **VODNAR, D.C.**; POP, C.R.; SOCACI, S.A.; VULTURAR, R.; ISTRATI, M.; MOROȘAN, I.; FĂRCAȘ, A.C.; KEREZSI, A.D.; MUREȘAN, C.I.; POP, O.L. Iron Supplementation Influence on the Gut Microbiota and Probiotic Intake Effect in Iron Deficiency—A Literature-Based Review. *Nutrients* **2020**, 12, 1993.
161. SOCACIU, M.-I.; FOGARASI, M.; SEMENIUC, C.A.; SOCACI, S.A.; ROTAR, M.A.; MUREȘAN, V.; POP, O.L.; **VODNAR, D.C***. Formulation and Characterization of Antimicrobial Edible Films Based on Whey Protein Isolate and Tarragon Essential Oil. *Polymers* **2020**, 12, 1748. (*corresponding author)

160. FERARU, A., TÓTH, Z. R., MAGYARI, K., PAP, Z., TODEA, M., MUREȘAN-POP, M., VODNAR, D.C., LICARET, E., HERNADI, K., BAIA, L. Composites based on silicate bioactive glasses and silver iodide microcrystals for tissue engineering applications. *Journal of Non-Crystalline Solids* **2020**, *547*, 120293.
159. RUSU, M.E., FIZESAN, I., POP, A., MOCAN, A., GHELDIU, A.-M., BABOTA, M., VODNAR, D.C., JURJ, A., BERINDAN-NEAGOE, I., VLASE, L., POPA, D.-S. Walnut (*Juglans regia* L.) Septum: Assessment of Bioactive Molecules and In Vitro Biological Effects. *Molecules* **2020**, *25*, 2187.
158. RAMADAN, N.S., WESSJOHANN, L.A., MOCAN, A., VODNAR, D. C., H. EL-SAYED, N., A. EL-TOUMY, S., ABDU MOHAMED, D., ABDEL AZIZ, Z., EHRlich, A., A. FARAG, M. Nutrient and Sensory Metabolites Profiling of *Averrhoa Carambola* L. (Starfruit) in the Context of Its Origin and Ripening Stage by GC/MS and Chemometric Analysis. *Molecules* **2020**, *25*, 2423.
157. TELEKY, B.-E., MARTĂU, A.G., RANGA, F., CHEȚAN, F., VODNAR, D. C*. Exploitation of Lactic Acid Bacteria and Baker's Yeast as Single or Multiple Starter Cultures of Wheat Flour Dough Enriched with Soy Flour. *Biomolecules* **2020**, *10*, 778. (*corresponding author)
156. CHIȘ, L.M., VODNAR, D. C*. Identification of molecular markers specific to the bovine species used in the production of food products of animal origin. *Bulletin UASVM Food Science and Technology*. **2020**. *77*(1): 62-73. (*corresponding author)
155. ȘTEFĂNESCU, B.-E., CĂLINOIU, L.F., RANGA, F., FETEA, F., MOCAN, A., VODNAR, D. C*, CRIȘAN, G. Chemical Composition and Biological Activities of the Nord-West Romanian Wild Bilberry (*Vaccinium myrtillus* L.) and Lingonberry (*Vaccinium vitis-idaea* L.) Leaves. *Antioxidants* **2020**, *9*, 495. (*corresponding author)
154. NEMES, S. A., SZABO, K., VODNAR, D. C*. Applicability of Agro-Industrial By-Products in Intelligent Food Packaging. *Coatings* **2020**, *10*(6), 550. (*corresponding author)
153. MARTĂU, G. A., COMAN, V., VODNAR, D.C*. Recent advances in the biotechnological production of erythritol and mannitol. *Critical Reviews in Biotechnology*. **2020**. *40* (5) 608-622(*corresponding author)
152. MITREA, L.; CĂLINOIU, L.F.; MARTĂU, G.A.; SZABO, K.; TELEKY, B.E.; MUREȘAN, V.; RUSU, A.V.; SOCOL, C.T.; VODNAR, D.C*. Poly(vinyl alcohol)-Based Biofilms Plasticized with Polyols and Colored with Pigments Extracted from Tomato By-Products. *Polymers*. **2020**, *12*, 532. (*corresponding author)
151. LIPAN, L., RUSU, B., SENDRA, E., HERNÁNDEZ, F., VÁZQUEZ-ARAÚJO, L., VODNAR, D. C., CARBONELL-BARRACHINA, Á. A. Spray drying and storage of probiotic enriched almond milk: probiotic survival and physicochemical properties. *Journal of the Science of Food and Agriculture*. **2020**, *100* (9) 3697-3708.
150. DULF, E.-H.; VODNAR, D.C.; DANKU, A.; MURESAN, C.-I.; CRISAN, O. Fractional-Order Models for Biochemical Processes. *Fractal Fract.* **2020**, *4*, 12.
149. CĂTOI, A. F., CORINA, A., KATSIKI, N., VODNAR, D.C., ANDREICUȚ, A. D., STOIAN, A. P., RIZZO, M., PÉREZ-MARTÍNEZ, P. Gut microbiota and aging-A focus on centenarians. *Biochimica et Biophysica Acta (BBA)-Molecular Basis of Disease*. **2020** *1866*(7), 165765.
148. PRICOPIE, A.-I.; FOCȘAN, M.; IONUȚ, I.; MARC, G.; VLASE, L.; GĂINĂ, L.-I.; VODNAR, D.C.; ELEMER, S.; BARTA, G.; PÎRNĂU, A.; ONIGA, O. Novel 2,4-Disubstituted-1,3-Thiazole Derivatives: Synthesis, Anti-*Candida* Activity Evaluation and Interaction with Bovine Serum Albumine. *Molecules*. **2020**, *25*, 1079.

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02. PECE, A., **VODNAR, D.**, TRIF, M. Corelation between microbiological and physico-chemical parameters of buffalo raw milk during different lactation. *Bulletin UASVM Agriculture*. **2008**. 65:335-339.

01. PECE, A., **VODNAR, D.**, TRIF, M., COROIAN, C., RĂDUCU, C., MUREȘAN, G. Study of the physico-chemical parameters of buffalo raw milk during different lactation. *Bulletin UASVM Agriculture*. **2008**. 65:478.

Conferences

03. **VODNAR, D.**, SOCACIU, C. Comparative analysis of lactic acid produced by apple substrate fermentation, using HPLC and Tecktronik Senzytec Biosensor. **2008**. The 7th International Symposium-Prospects for the 3rd Millennium Agriculture, Cluj-Napoca, Romania.

02. PECE, A., **VODNAR, D.**, TRIF, M. Correlation between microbiological and physico-chemical parameters of buffalo raw milk during different lactation. **2008**. The 7th International Symposium-Prospects for the 3rd Millennium Agriculture, Cluj-Napoca, Romania.

01. PECE, A., **VODNAR, D.**, TRIF, M., COROIAN, C., RĂDUCU, C., MUREȘAN, G. Study of the physico-chemical parameters of buffalo raw milk during different lactation. **2008**. The 7th International Symposium-Prospects for the 3rd Millennium Agriculture, Cluj-Napoca, Romania.

Invited presentations

- • National conference "[Nutriția, Medicina Viitorului](#)"; Iuliu Hațieganu University of Medicine and Pharmacy (IHUMP), Cluj-Napoca, 24 Nov 2017.
- • [Forbes Heroes](#), 27 May 2017.
- • [TEDx Cluj-Napoca](#), 20 Feb 2016.
- • National conference "[Nutriția, Medicina Viitorului](#)"; IHUMP, Cluj-Napoca, 27 Nov 2015.
- • [Annual Conference Detox 5](#), Cluj-Napoca, 5 Nov 2015.
- • [Leaders Education](#), IHUMP, Cluj-Napoca, 29 Oct 2014.

Patents

1. [RO 129492/2017](#). Vodnar Dan Cristian, Pop Oana Lelia, Carmen Socaciu.
2. [RO 128966/2017](#). Vodnar Dan Cristian, Carmen Socaciu.

Awards

- • [Danubius Young Scientist Award](#), Vienna, Austria, 2018 June 25.
- • Gold Medal at the International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, 2018.
- • Gold Medal at the International Exhibition of Invention, Geneva, 2017.
- • Technology and Innovation Award, Aspen Institute Romania, Bucharest, 2015.

Prizes

- • "JCI Ten Outstanding Young Persons" ([TOYP](#)). 2018.
- • "Cinstea Maramureşului [The Honor of Maramures]", Maramureş County Council, 2018.
- • Excellence diploma "Conferenţiarul anului 2017 [The associate professor of the year 2017]", UASVM Cluj-Napoca, 2017.

For a full list of prizes, please see <http://danvodnar.ro>

Other (significant)

- • Semifinalist in the European Social Innovation competition, 2015 (30 semifinalists from 1408 applicants).
- • Top 100 "People who move the country in the right direction"; Foreign Policy Romania 2014 for R&D activities.
- • Scientific Manager, BIOZOON GMBH, Germany; innovative food products.
- • President Alumni DBU since 2009 (Deutsche Bundesstiftung Umwelt, Germania) - supporting young researchers and PhD students