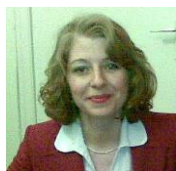


Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Furdul Bianca**
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 Telephone(s) 0236/414871 int 314
 Fax(es) 0236/460351
 E-mail bfurdul@yahoo.com, bfurdul@ugal.ro
 Nationality romanian
 Date of birth 19.06.1974

Mobile:

Desired employment / Occupational field

Dunarea de Jos University of Galati/Organic Chemistry, Environmental Engineering, Biotechnology, Environmental Chemistry, Toxicology, Food Chemistry, Biochemistry

Competences in organic chemistry, synthesis, structural and functional analysis for nitrogen heterocyclic compounds, analysis of natural extracts, study of biological active organic compounds, characterisation of organic compounds using spectral techniques (UV-VIS, IR, RMN), HPLC chromatography, mass spectrometry, food chemistry; biochemistry

Competences regarding the application of methods specific to "green chemistry", such as microwave or ultrasonic activation, the use of "green" solvents, the use of biocatalysts in organic synthesis and in the separation of bioactive compounds from plant or animal matrices, as well as competences in energy recovery and in the food field of different plant species

Work experience

Dates	30.09.2024-present 1.10.2014-29.09.2024 23.02.2004-30.09.2014 22.02.1998- 22.02.2004
Occupation or position held	Professor Assoc. Prof. Lecturer Assistant
Main activities and responsibilities	Teaching and research activities in field of Organic Chemistry, Environmental chemistry, Toxicology, Ecotoxicology, Biotechnology, Biochemistry, Food Chemistry,
Name and address of employer	"Dunarea de Jos" University of Galati, Domneasca 47, 800008
Type of business or sector	Educational and Research

Education and training

Dates	- Dec 2023 - Jan 2024 - Jan-Dec 2011 - 2009-2011 - 2003 –2006 - 1999-2006 - 1997 – 1998 - 1992 – 1997 - 1988 – 1992																																								
Title of qualification awarded	- Habilitation certificate in the Field of Doctoral Studies Environmental Engineering (OM 3239 / 22.01.2024) - Diploma of “Postdoctoral school of applied biotechnologies with impact on romanian bioeconomy” - Master degree in Monitoring and Environmental Management - PhD in organic chemistry - PhD in chemistry - Master Degree in Physics and Chemistry - Licentiate in chemistry - Diploma of school-leaving examination																																								
Principal subjects/occupational skills covered	Synthesis and structural and functional analysis of nitrogen heterocyclic compounds, microbiological analysis, natural extracts analysis, study of biological actives compounds, organic compounds characterization by spectral techniques,(UV-VIS, IR, NMR), HPLC, mass spectrometry, biotechnology, elaboration of scientific works.																																								
Name and type of organisation providing education and training	- University „Vasile Alecsandri” of Bacău - University Dunarea de Jos of Galati -University Dunarea de Jos of Galati -University J. Fourier, Grenoble 1, France -Al. I. Cuza University Iasi, Romania -“Dunărea de Jos” University, Galati -“Dunărea de Jos” University, Galati -“V. Alecsandri” College, Galati																																								
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	(*) Common European Framework of Reference for Languages																																								
Technical skills and competences	- March 2008 – training for HPLC-MS system Finnigan-Thermo-Fischer Scientific; - February 2005- competence for RMN Bruker AV300 Spectrometer - Exploitation and maintenance of HPLC chromatography system, AGILENT - Exploitation of UV-Vis Labomed spectrophotometer, Perkin-Elmer spectrofluormeter - Exploitation of Tecan Infinite 200 PRO NanoQuant Microplate Reader - Analysis of organic bioactive compounds using various biochemical and microbiological techniques: antioxidant, enzymatic, antimicrobial activity, interactions with biomolecules - The use of unconventional synthesis methods -"green chemistry": reactions under the action of microwaves, ultrasound, biocatalysis																																								

Other competences	Guest Editor special numbers "Biological Activities of Plant Extracts I and II", and special number "Antimicrobial Activity of Natural Compounds", peer-reviewed journal Plants Guest Editor special number "Advances in Biomass Waste Valorization", peer-reviewed journal Sustainability Reviewer for ISI journals: Antioxidants, IJMS, Plants, Sustainability, Biology, Agronomy, Processes, Molecules, Process Biochemistry, Current Bioactive Compounds, Arabian Journal of Chemistry Reviewer for BDI journals: Annals of Dunarea de Jos University – Food Technology, Journal of Materials and Environmental Sciences Expert evaluator: H2020 și FP7 (expert EX2013D143258), Czech Education Foundation, AUF, Czech Ministry of Health
IT competences	Knowledge of Windows, Microsoft Office, Chemwind, ChemDraw, Isis Draw and Internet navigation; possessing of ECDL-start certificate
Social skills and competences	Sociable, team work competent Ability to adapt to multicultural environments proven in the almost 2 years spent between 2002 and 2018 in internships at Joseph Fourier Grenoble University, France and Università degli Studi in Camerino, Italy
Membership:	-Starting with 2006 member of Research Platform "Biotechnology Applied In Food Industry - Integrated Center For Research And Education – Bioaliment", CNCSIS 62 -Starting with February 2009 member of "European Centre of Excellence for the Environment" of „Dunărea de Jos” University of Galati, RO/97/04 -September 2006-February 2009 member of Research Centre "Centre of nanostructures and functional materials – CNMF" of „Dunărea de Jos” University of Galati, certified CNCSIS nr. 11 from 12.09.2006 - Starting with 21.12.2000 member al Romanian Society of Chemistry - 2007-2012, 2023-current member of the Romanian Society of Biotechnology and Bioengineering (RSBB), which is affiliated to the European Federation of Biotechnology (EFB); - Starting with July 2008 member of the Applied Biotechnology Association (ASBA)
Fellowships/grants:	- June 2018 – research stage at Grenoble Alpes University, Grenoble, Franța, Departament of Molecular Pharmacochimistry, through bilateral collaboration Brâncuși 85BM - June 2017 - research stage at Grenoble Alpes University, Grenoble, Franța, Departament of Molecular Pharmacochimistry, through bilateral collaboration Brâncuși 85BM -May 2012 – research stage at D.P.M., University Joseph Fourier, Grenoble, France -June-July 2011 – postdoctoral research stage, at D.P.M., University Joseph Fourier, Grenoble, France POSDRU/89/1.5/S/52432 Postdoctoral Grant, -August 2010 – teaching mobility Erasmus/Socrates at Università degli Studi di Camerino, Italia -December 2005 – September 2004: research stage for PhD, at L.E.D.S.S., University Joseph Fourier, Grenoble, France -2003, July: research stage at L.E.D.S.S., University Joseph Fourier, Grenoble, France, bilateral collaboration Brancusi Ro/24 -1998, 6th-18th of July: Francophone Summer School, „Glicobiology, Glicopathology and Glicotechnology”, University „Al. I. Cuza”, Iassy, Romania

Scientific activity	First author of a specialized book, main author of 2 chapters in books in international publishing houses and 2 chapters in books in national publishing houses and co-author of 6 books with didactic character 41 papers in ISI journals, isiwebofknowledge, Scopus 3 works ISI proceedings, isiwebofknowledge 10 papers indexed BDI 10 papers published in the volumes of international conferences indexed BDI 143 papers published and/or presented at international and national conferences 1 National patent application Research Projects Director: 4 Educational Project Manager (POCU): 1 Research Project Manager: 1 Individual grant: 1 Member of the research/implementation team of research/educational projects: 19 (List of research projects) H index (Hirsch): 13 (isiwebofknowledge), 14 (Scopus), 16 (Google scholar) Number of citations: 430 (no self-readings, isiwebofknowledge); 440 (no self-readings, Scopus) and 730 (Google Scholar)
Additional information	References: Dr. Martine Demeunynck – University „Joseph Fourier” Grenoble, 38041 Grenoble, cedex 9, France Dr. Ahcene Boumendjel – DPM, University „Joseph Fourier” Grenoble, 38041 Grenoble, cedex 9, France
Annexes	List of publications

ANEXES
COMPLETE LIST OF PUBLISHED AND ELABORATED SCIENTIFIC CONTRIBUTIONS

A. PhD THESIS

1. Furdui, B., 2006, *Synthesis in bipyridil class. Study of their interaction with DNA*, Al. I. Cuza University, lassy codirrection with University Joseph Fourier, Grenoble, France.

A1. Habilitation THESIS

Furdui, B., 2023, *Contributions regarding the development of new sustainable methods for the obtaintion of biological active compounds and for biomass valorification* „Vasile Alecsandri” University of Bacău

B. BOOKS

[B1] Principal Author

1. Buruiană, C.-T., Istrati, D.I., Vizireanu, C., **Furdui, B.***. Valorificarea tulpinilor de sorg zaharat sub formă de glucide hemicelulozice și bioetanol (Subcapitol 10.7., p. 324), din Capitolul X – Valorificarea sorgului zaharat, în. *Sorgul – Tehnologii inovative de cultivare și valorificare*; Coordonatori: Matei, G., Vlăduț, N.-V; Autori principali: Troțuș, E., Isticioaia, S.F., Drăghici, R., Popa, L.-D., Apostol, L., Voicea, I.; Editura Universitaria, Craiova, România, 426 p., 2021, ISBN 978-606-14-1728-5, <https://www.editurauniversitaria.ro/ro/book/sorgul-tehnologii-inovative-de-cultivare-si-valorificare/13259>
2. Istrati, D.I., Buruiană, C.-T., Vizireanu, C., **Furdui, B.***, Apostol, L. Valoarea nutritivă a boabelor de sorghum bicolor și valorificarea sub formă de produse alimentare (Subcapitol 10.11., p. 382), din Capitolul X – Valorificarea sorgului zaharat, în. *Sorgul – Tehnologii inovative de cultivare și valorificare*; Coordonatori: Matei, G., Vlăduț, N.-V; Autori principali: Troțuș, E., Isticioaia, S.F., Drăghici, R., Popa, L.-D., Apostol, L., Voicea, I.; Editura Universitaria, Craiova, România, 426 p., 2021, ISBN 978-606-14-1728-5, <https://www.editurauniversitaria.ro/ro/book/sorgul-tehnologii-inovative-de-cultivare-si-valorificare/13259>
3. Botezatu (Dediu) A. V., Horincar G., Ghinea I. O., **Furdui B.***, Bahrim G.-E., Barbu V., Balanescu F., Favier L., Dinica R.-M in Chia-Hung Kuo and Chwen-Jen Shieh (Eds.), *Biocatalytic Process Optimization*, Pages: 296, Published: January 2021 (This book is a printed edition of the Special Issue Biocatalytic Process Optimization that was published in Catalysts), ISBN 978-3-03943-915-7 (Hbk); ISBN 978-3-03943-916-4 (PDF), pg proprii 17(pg 203-219), <https://doi.org/10.3390/books978-3-03943-916-4> (registering DOI)
4. **Furdui B.**, Dediu (Botezatu) A. V., Dinica R. M., *Cu-Catalyst in Reactions Involving Pyridinium and Indolizinium Moieties*, pg. 7-22, în *Copper Catalysis in Organic Synthesis*, Edited by Gopinathan Anilkumar and Salim Saranya, Wiley-VCH, 2020, ISBN: 978-3-527-34737-7
5. **Furdui, B.**, Dinică, R., Georgescu, M., 2010, *Chimie organică. Noțiuni teoretice și practice*, *Galati University Press*, ISBN 978-606-8008-75-2, 563 pag.

[B2] Coauthor

1. Zgherea, Ghe., Dima, Șt., Dinică, R., **Furdui, B.**, *Teste de chimie organică pentru concursul de admitere în învățământul superior*, ediția a VI-a revizuită și completată, Ed. Fundației Universitare „Dunărea de Jos”, Galati, 2012, 218 pag, ISBN 978-973-627-486-2
2. Zgherea, Ghe., Dima, Șt., Dinică, R., **Furdui, B.**, *Teste de chimie organică pentru concursul de admitere în învățământul superior*, ediția a VI-a revizuită și completată, Ed. Fundației Universitare „Dunărea de Jos”, Galati, 2011, ISBN 978-973-627-478-7, 209 pag
3. Florea T, **Furdui, B**, Dinică, R., Crețu R., 2009, *Chimie organică. Sinteză și analiză funcțională*, Ed. Academica, Galati, ISBN 978-973-8937-56-7, 258 pag
4. Zgherea, Ghe., Dima, Șt., Dinică, R., **Furdui, B.**, 2009, *Teste de chimie organică pentru concursul de admitere în învățământul superior*, Ed. Fundației Universitare „Dunărea de Jos”, Galati, ISBN 978-973-627-445-9, 209 pag
5. Florea, T., Dinică, R., Crețu, R., **Furdui, B.**, 2006, *Chimie Organică. Lucrări Practice și Probleme*, Ed. Academica, Galati, (10) 973-8937-14-0, (13) 978-973-8937-14-7, 220 pag.
6. Georgescu, M., Dinică, R., **Furdui, B.**, 2004, *Lucrări Practice de Chimie Organică Preparativă*, Ed. Fundației Universitare „Dunărea de Jos”, Galati, ISBN 973-727-144-7, 102 pag.

C. PUBLISHED PAPERS

[C1] ISI published papers*:

1. Dah-Nouvlessounon D., Chokki M., Hoteyi I. MS, Fassinou F., Ranga F., Fetea F., Diaconeasa Z., Vodnar D., Furdui B., Baba-Moussa F., Dinica R. M., Suharoschi R., Baba-Moussa L., 2024, *Pharmacological Property and Cytotoxic Effect Showing Antiproliferative Potency in*

Human Melanoma Cell Lines (A375) of Combretum racemosum P. Beauv. Leaf and Root Extracts Used in Benin, *Antioxidants*, 13(1), 31, doi.org/10.3390/antiox13010031, WOS:001151915300001, e-ISSN 2076-3921, F.I (2022-2023) 7

2. Mbaihougadobe S., Madjitloulou B. S., Cudalbeanu M., Abel M., **Furdui B.**, Dinica R. M., 2023, Anti-oxidant Activities, Dosage of Total Polyphenols and Flavonoids from *Crossopteryx febrifuga* (afz. Ex g Don) Benth (Rubiaceae), *Oriental Journal of Chemistry*, Vol. 39, No.(6), Pg. 1620-1628, doi.org/10.13005/ojc/390623, WOS:001136624100021, ISSN 0970-020X, e-ISSN 2231-5039, F.I (2022-2023) 0.5
3. Botezatu Dediu A. V., Apetrei R.-M., Costea (Nour) I. F., Barbu V., Grigore-Gurgu L., Botez F., Dinica R. M., **Furdui B.***, Carac G., 2023, Synthesis and characterization of novel chitosan derivatives (containing dipyrindinium quaternary salts) with antimicrobial potential, *Carbohydrate Research* 534, 108964, doi.org/10.1016/j.carres.2023.108964, WOS:001109923500001, e-ISSN 1873-426X, ISSN 0008-6215, F.I (2022-2023) 3.1
4. Botezatu (Dediu) A. V., Bahrim G. E., Ungureanu C. V., Busuioc (Cazanevscaia) A., **Furdui B.***, Dinica R. M., 2023, Green "One Pot" Fluorescent bis-Indolizines Synthesis with Whole-Cells Plants Biocatalysis, *Green Processing and Synthesis*, Volume 12 Issue 1, 20230046, https://doi.org/10.1515/gps-2023-0046; WOS:001072165700001, e-ISSN 2191-9550, F.I (2022-2023) 4.3
5. Busuioc Cazanevscaia A., Costea G. V., Dediu Botezatu A. V., **Furdui B.***, Dinica R. M., 2023, *Cucumis metuliferus* L. Fruits Extract with Antioxidant, Anti-Inflammatory, and Antidiabetic Properties as Source of Ursolic Acid, *Separations*, Volume 10, Issue 5, 274; https://doi.org/10.3390/separations10050274; WOS:000997105800001; e-ISSN 2297-8739; F.I (2022-2023) 2.6
6. Dah-Nouvlessounon D., Chokki M., Pacôme Noumavo A. D., Cârâc G., **Furdui B.***, Sina H., Zongo Cheikna, Savadogo Aly, Baba-Moussa L., Dinica R.-M., Baba-Moussa F. 2023, Ethnopharmacological Value and Biological Activities via Antioxidant and Anti-Protein Denaturation Activity of *Morinda lucida* Benth and *Momordica charantia* L. Leaves Extracts from Benin, *Plants-Basel*, 12, 1228. https://doi.org/10.3390/plants12061228, WOS:000960075500001; e-ISSN 2223-7747; F.I (2022-2023) 4.5
7. Bălănescu F., Botezatu A V., Marques F., Busuioc A., Marincea O., Vîntoru C., Cârâc G., **Furdui B.**, Dinica R M, 2023, Bridging the Chemical Profile and Biological Activities of a New Variety of *Agastache foeniculum* (Pursh) Kuntze Extracts and Essential Oil, *International Journal of Molecular Sciences*, vol 24, Issue 1, pages 828, https://doi.org/10.3390/ijms24010828, WOS:000909989300001, eISSN 1422-0067, F.I (2022-2023) 5.6, 3 citări
8. Bălănescu F.; Busuioc (Cazanevscaia) A.; Botezatu (Dediu) A.V.; Gosav S.; Avramescu S.M.; **Furdui B.***; Dinica, RM, 2022, Comparative Study of Natural Antioxidants from *Glycine max*, *Anethum graveolens* and *Pimpinella anisum* Seed and Sprout Extracts Obtained by Ultrasound-Assisted Extraction; *Separation*; Volume 9, Issue 6, Article number 152
9. Baussanne I.; Firstova O.; Dediu A.B.; Larosa C.; Furdui B.; Ghinea I.O.; Thomas A.; Chierici S, Dinica R., Demeunynck M., 2021, Interest of novel N-alkylpyridinium-indolizine hybrids in the field of Alzheimer's disease: Synthesis, characterization and evaluation of antioxidant activity, cholinesterase inhibition, and amyloid fibrillation interference, *Bioorganic Chemistry*, Volume 116, Article number 105390, DOI 10.1016/j.bioorg.2021.105390, ISSN 00452068, F.I (2020) 5.4
10. Dinica, RM; Sandu, C; Botezatu, AVD; Busuioc, AC; Balanescu, F; Mihaila, MDI; Dumitru, CN; Furdui, B*; Iancu, AV, 2021, Allantoin from Valuable Romanian Animal and Plant Sources with Promising Anti-Inflammatory Activity as a Nutricosmetic Ingredient, *SUSTAINABILITY*, 13(18), article number 10170, DOI10.3390/su131810170, eISSN2071-1050, publicat septembrie 2021, F.I (2020) 3.251
11. Ghinea I. O., Ionica Mihaila M. D., Avramescu S. M., Cudalbeanu M., Isticioaia S.-F., Dinica R. M., Furdui B.*, 2021, HPLC-DAD Polyphenolic Profiling and Antioxidant Activities of *Sorghum bicolor* during Germination, *Agronomy*, 11(3), pag. 417-428, https://doi.org/10.3390/agronomy11030417, eISSN2073-4395, publicat 25 februarie 2021, FI (2020/2021) 2.603
12. Isticioaia, SF; Apostol, L; Matei, G; Mirzan, O ; Pintilie, P; Trotus, E; Leonte, A; Viadut, V; Cristea, O; Oprea, B; Furdui, B; Marinciu, CM; Bularda, M (Bularda, Marcel), 2021, Variation Of Tuber Yields and Quality at Some Jerusalem Artichoke Genotypes in Pedoclimatic Conditions From Center of Moldova and the Plain of Oltenia, Romania, *ROMANIAN AGRICULTURAL RESEARCH*, 38, pag 337-343, ISSN1222-4227, WOS:000681706500035, F.I (2020) 0.5
13. Busuioc Cazanevscaia A., Botezatu Dediu A.-V., Furdui B.*, Vinatoru C., Maggi F., Caprioli G., Dinica R.-M., 2020, Comparative Study of the Chemical Compositions and Antioxidant Activities of Fresh Juices from Romanian Cucurbitaceae Varieties, *Molecules*, Volume 25, Issue 22, 5468, ISSN/e-ISSN 1420-3049, http://dx.doi.org/10.3390/molecules25225468, publicat 23 noiembrie 2020, FI (2020/2021) 3.267
14. Buruiană C.-T., Georgescu L., Isticioaia S.-F., Constantin O. E., Vizireanu C., Dinică R. M., Furdui B.*, 2020, Insights on Monosaccharides and Bioethanol Production from Sweet Sorghum Stalks Using Dilute Acid Pretreatment, *Processes*, Volume 8, Issue 11, 1486, ISSN/e-ISSN 2227-9717, http://dx.doi.org/10.3390/pr8111486, publicat 18 noiembrie 2020, FI (2020/2021) 2.753
15. Balanescu F., Mihaila Ionica M. D., Cârâc G., Furdui B.*, Vîntoru C., Avramescu S. M., Lisa E. L., Cudalbeanu M., Dinica R. Mihaela, 2020, Flavonoid Profiles of Two New Approved Romanian *Ocimum* Hybrids, *Molecules*, Volume 25, Issue 19, 4573, ISSN/e-ISSN 1420-3049, http://dx.doi.org/doi.org/10.3390/MOLECULES25194573, FI (2020/2021) 3.267
16. Botezatu (Dediu) A. V., Horincar G., Ghinea I. O., Furdui B.*, Bahrim G.-E., Barbu V., Balanescu F., Favier L., Dinica R.-M., 2020, Whole-Cells of *Yarrowia lipolytica* Applied in "One Pot" Indolizine Biosynthesis, *Catalysts* 10, 629-644; doi:10.3390/catal10060629, publicat 5 iunie 2020, FI (2020/2021) 3.520
17. Chokki M.; Cudălbeanu M.; Zongo C.; Dah-Nouvlessounon D.; Ghinea I. O.; Furdui B.*; Răcelea R.; Savadogo A.; Baba-Moussa L.; Sorin Avamescu M.; Dinica R. M.; Baba-Moussa F., 2020, Exploring Antioxidant and Enzymes (A-Amylase and B-Glucosidase) Inhibitory Activity of *Morinda lucida* and *Momordica charantia* Leaves from Benin, *Foods*, Volume 9, Issue 4, 434, ISSN/eISSN 2304-8158 https://doi.org/10.3390/foods9040434, FI (2020/2021) 4.092

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19. Istrati D. I., Constantin O. E., Vizireanu C., Rodica D., Furdul B.*, 2019, Sorghum as Source of Functional Compounds and their Importance in Human Nutrition, *The Annals of the University Dunarea de Jos of Galati, Fascicle VI – FOOD TECHNOLOGY*, 43(2), 189-205
20. Tabacaru A., Dediu Botezatu A. V., Horincar G., Furdul B.*, Dinica R. M., 2019, Green Accelerated Synthesis, Antimicrobial Activity and Seed Germination Test of Quaternary Ammonium Salts of 1,2-bis(4-pyridyl)ethane, *Molecules*, 24(13), 2424, doi:10.3390/molecules24132424, F.I (2019) 3,060, F.I (2020/2021) 3,267
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23. Cudalbeanu M., Ghinea I.O., Furdul B., Dah-Nouvlessounon D., Raclea R., Costache T., Cuculea I. E., Urlan F., Dinica R.M., Exploring New Antioxidant and Mineral Compounds from *Nymphaea alba* Wild-Grown in Danube Delta Biosphere, *Molecules* 2018, 23(6), 1247; <https://doi.org/10.3390/molecules23061247>
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106. Cioroi M., Tutunaru D., Georgescu C., **Furdui B.**, 2013, Vitamin B6 in Food and Physiological Importance, *6th International EuroAliment Symposium – Around Food*, Galati, 3-5 Octombrie
107. Ghinea I. O., **Furdui B.**, Parfene G., Bahrim G., Dinica R. M., 2013, 1,3-Dipolar Cycloadditions Catalyzed By Horseradish Enzymes, *IUPAC, 44th World Chemistry Congress*, 11-16 August, Istanbul, <http://www.iupac2013.org>
108. **Furdui B.**, Ghinea I. O., Gosav S., Dinica R. M., 2013, Synthesis And Photophysics Of Some New Indolizines Fluorophores, *IUPAC, 44th World Chemistry Congress*, 11-16 August, Istanbul, <http://www.iupac2013.org>
109. Ghinea I. O., Parfene G., Dinica R.M., Furdui B., Bahrim G., Bonte S., Demeunynck M., 2013, Combined Action of Enzymes and Ultrasounds: the First “One-Pot” Cycloaddition Reaction for Indolizine Synthesis, *2nd International Symposium on Green Chemistry: Renewable Carbon and Eco-efficient Processes (ISGC2)*, May 21-24th, 2013, La Rochelle, France, www.isgc2013.com
110. Dinică R., **Furdui B.**, Parfene G., Bahrim G., 2012, A one-pot synthesis of substituted bis-indolizines using microbial cells, *The 13th Tetrahedron Symposium – Challenges in Bioorganic & Organic Medicinal Chemistry*, Amsterdam, 26-29 June
111. Parfene G., Ghinea I. O., **Furdui B.**, Bahrim G., Dinica R. M., 2013, Screening and Biocatalytic Activity of Microbial Cells From Fungal Strains in Cycloaddition Processes, *European Biotechnological Congress*, 16-18 May, Bratislava, Slovakia, <http://www.eurobiotech2013.eu>
112. S. Gosav, R. M. Dinica, B. Furdui, Molecular structure – antimicrobial activity for a new class of quaternary pyridinium salts, XIIth International Conference on Molecular Spectroscopy - From Molecules to Nano- and Biomaterials, 8 – 12 September 2013, Wroclaw, Poland, <http://www.icms.agh.edu.pl/>
113. Dinica R. M., **Furdui B.**, Cârâc G., Electrochemical Behavior in aprotic medium of pyridinium salt, 2012, *Third Regional Symposium on Electrochemistry South-East Europe*, 13-17 mai, București
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115. **Furdui B.**, Cârâc G., Dinică R., Bahrim G., Physico-Chemical Characterization Of Some Novel Quaternary Salts Of Pyridinium, *International Conference of Applied Chemistry CISA 2011*, 28-30 Aprilie, Bacău, Romania, <http://cisaconf.ub.ro>
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117. **Furdui B.**, Dinică R., 2011, Comparative studies on acido-basic and spectrophotometric properties of some bis-pyridinium quaternary salts, *10th Conference on Colloids and Surfaces Chemistry with international participation*, Galati, ROMANIA, June 9th-11th 201

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119. Radu R., **Furdui B.**, 2011, Physico-chemical studies of some silica's soils, *10th Conference on Colloids and Surfaces Chemistry with international participation*, Galați, ROMANIA, June 9th-11th 2011
120. **Furdui B.**, Dinică R., Lupoae M., Romică C., 2010, Effect Of Some Natural Herbs Incorporation in Sunflower Oils on its Resistance to Frying Temperatures, *International Conference - Biotechnologies, Present and perspectives*, Fourth Edition, 19 – 20 Noiembrie, 2010, Suceava, Romania;
121. Dinică R., Lupoae M., **Furdui B.**, 2010, Quantitative Determination of Polyphenolic Compounds From The Crude Extracts of *Allium*, *Alliaria* and *Urtica* Genus. A Comparative Study, *International Conference - Biotechnologies, Present and perspectives*, Fourth Edition, 19 – 20 Noiembrie, 2010, Suceava, Romania;
122. Lupoae M., **Furdui B.**, Dinică R., 2010, Quantification of carotenoids and chlorophyll leaf pigments from autochthones dietary plants, *International Conference - Biotechnologies, Present and perspectives*, Fourth Edition, 19 – 20 Noiembrie, 2010, Suceava, Romania;
123. Bunea A., Dinică R., **Furdui B.**, Lupoae M., 2010, Studies on Plant Biomass in Various Stages of Degradation, *International Conference - Biotechnologies, Present and perspectives*, Fourth Edition, 19 – 20 Noiembrie, 2010, Suceava, Romania;
124. Dinica R., **Furdui B.**, Carac G., Stanciu C., 2010, Synthese de nouvelles sels quaternaires de pyridine et leur etudes electrochimiques, *6-eme Colloque Franco-Roumain de chimie Applique (COFrRoCA)*, Orleans, Franta;
125. Dinica R., **Furdui B.**, Carac G., Stanciu C., 2010, Proprietes electrochimiques d'une serie d'accepteurs d'electrons base sur N-heterocycles, *6-eme Colloque Franco-Roumain de chimie Applique (COFrRoCA)*, Orleans, Franta
126. Lupoae, M., Dinică, R., **Furdui, B.** - Polyphenolic Compounds From Wild Garlic Extracts, *Conferința Internațională De Științe Aplicate. Chimie și Inginerie Chimică CISA – 2010*, 8 – 11 aprilie 2010, Slănic Moldova – Bacău;
127. **Furdui B.**, Dinică R., Demeunynck M., 2009, Spectrophysical investigation of interaction pyridinium-indolizines with DNA, *International Symposium on applied physics. Material Sciences, Environment and Health, 1st edition*, 28-29 th November, Galați, rezumat publicat în volumul conferinței;
128. **Furdui B.**, Radu R., 2009, Physico-chemical studies of penicillin traces in biological liquids, *International Symposium on applied physics. Material Sciences, Environment and Health, 1st edition*, 28-29 th November, Galați, rezumat publicat în volumul conferinței;
129. Dinică R., **Furdui B.**, Tăbăcaru I., Tăbăcaru A., 2009, New N-Heterocyclic Compounds Starting from Substituted Pyridines, *International Symposium on applied physics. Material Sciences, Environment and Health, 1st edition*, 28-29 th November 2009, Galați, rezumat publicat în volumul conferinței;
130. Dinică R., **Furdui B.**, Cârâc G., Bărlădeanu A., Stanciu, C., 2009, Synthesis of novel Fluorescent Precursors starting from substituted pyridines via microwave irradiation, *First Symposium on Microwave Assisted Organic and Peptide Synthesis*, 4-5 June, Montpellier, France, rezumat publicat în volumul conferinței la pag. 25;
131. Dinică R., **Furdui B.**, Cârâc G., Stanciu C., 2009, One-pot Three Component Reaction of indolisines synthesised under microwave irradiation synthesis, *First Symposium on Microwave Assisted Organic and Peptide Synthesis*, 4-5 June 2009, Montpellier, France, rezumat publicat în volumul conferinței;
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133. Dinică R., **Furdui B.**, Carac G., Stanciu C., 2008, Fluorescent N-Heterocycles Via One Pot Tandem Reactions, *5-eme Colloque Franco-Roumain de chimie Applique (COFrRoCA)*, Bacău, 22-26 June 2008
134. **Furdui B.**, Dinică R., Druță, I., Demeunynck, M., 2006, Synthesis and photophysics of new reactive pyridinium indolizines fluorophores, *The International Conference of Physical Chemistry ROMPHYSICHEM-12*, București, 6-8 septembrie
135. **Furdui B.**, Dinică R., Demeunynck M., Druță I., Dumy P., 2005, Nouveaux fluorophores indoliziniques d'interets biologiques, *Symposium Sygma-Aldrich Jeunes Chimistes SAJEC 2005*, Villeneuve d'Asq - Lille, 17-19 octombrie
136. Dinică R., Crețu R., **Furdui B.**, Florea T., 2005, Research on the Antioxidant Effect of Indolisines Derivatives, *Papers of International Symposium Euro-Aliment*, Galați, 29-30 september
137. Dinică, R., **Furdui, B.**, Demeunynck, M., Bouffier, L., 2004, Precurseurs de nouveaux heterocycles a interet biologique, *3-eme Colloque Franco-Roumain de chimie Applique (COFrRoCA)*, Bacău, 22-26 september
138. Georgescu M., Dinică R., **Furdui B.**, Koprivekc, D., 2004, Determination de la concentration des tocopherols dans certaines cereales autochtones, *3-eme Colloque Franco-Roumain de chimie Applique (COFrRoCA)*, Bacău, 22-26 september,
139. Georgescu M., Dinică R., **Furdui B.**, 2003, Separarea, identificarea și dozarea unor componente biologice active din cereale, *Lucrările Simpozionului Internațional Euro-Aliment*, Galați, 23-25 octombrie, ISBN:973-8316-68-5, pag. 623-625
140. **Furdui B.**, Dinică R., Georgescu M., 2002, New Nitrogen Heterocycles of Biological Interest, *Symposium Sygma-Aldrich Jeunes Chimistes SAJEC 2002*, Obernai - Strasbourg, 21-23 octombrie

141. **Furdui B**, Dinică R., Georgescu M., 2002, Bipyridinium Ylides as Precursors of New Heterocycles of Biological Interest, *XX-th European Colloquium on Heterocyclic Chemistry, Stockholm*, 18-21 octombrie, rezumat publicat în volumul de rezumate la pag. 44
142. Georgescu M, Dinică R., **Furdui B**, 2001, New Researches on B12 Vitamin From Black Sea Mud, *1st Black Sea Basin Conference on Analytical Chemistry, Odessa*, 10-15 septembrie
143. Dinică R., **Furdui B**, Georgescu M., 2000, Microwave Assisted Preparation of bis-Indolizines by 1,3-Dipolar Cycloaddition, *XIXth European Colloquium on Chimie des Heterocycles, Aveiro*, iulie 2000.

E. BREVETS

1. Istrati, D., Vizireanu, C., **Furdui, B.**, Constantin, O.E., Buruiană, C.-T., Mișu, D.C., Blaga (Costea), G.V., Dinică, R.M. Probiotic non-alcoholic beverage fermented from sprouted sorghum and the process of obtaining it. Registration No. of the Patent Application at OSIM: A/00765/23.11.2020

F. GRANTS

1. Internațional GRANTS –

Director/Manager

1. **2017-2018 – Director Project PNIII mobilities 85BM/2017 Romania-France**, MolHybAl, „The Conception, Synthesis, and Biological Evaluation of Hybrid Molecules for the Multiple Disease Treatment of Alzheimer's Disease”, between Dunărea de Jos” University of Galați and Departament of Molecule Pharmacology of Grenoble Alpes University, Grenoble, France, value 8000 euro

Team member

1. **2024-2025 – cercetător - Colaborare bilaterală Ro-Fr 8BMFR/10.09.2024**, „MULTITARGET COMPOUNDS FOR ALZHEIMER AND CANCER TREATMENT /COMPUȘI MULTIȚINTIȚI PENTRU TRATAMENTUL CANCERULUI ȘI AL MALADIEI ALZHEIMER, LAURENCE, între Universitatea Dunărea de Jos din Galați și Universitatea Grenoble Alpes, Grenoble, Franța

2. **2022-2024 – reasearcher - Project Erasmus KA220-HED, COOPERATION PARTNERSHIP, 2022-1-TR01-KA220-HED-000089361**, "Green Chemistry Applications on Selected Medicinal and Aromatic Plants in the Artvin Region"

3. **2011-2013 – collaborator for Billateral Collaboration Programme „Hubert Curien- Brancusi” 25449UA** "Access to new bioactive molecules through developping of new original biocatalists for click-chemistry reactions" between "Dunărea de Jos" University of Galați and LEDSS 6 laboratory of Joseph Fourier University, Grenoble, Franța.

4. **2003-2004 – collaborator for Billateral Collaboration RO/24** "Synthesis of drug-luminophore conjugate systems and evaluation of their spectrophysical and biochemical properties", between "Dunărea de Jos" University of Galați and LEDSS 6 laboratory of Joseph Fourier University, Grenoble, Franța.

2. National Grants

Director/Manager

1. **13.05.2024-15.12.2024 – Director of Internal Research Grant, no. RF2487/31.05.2024** - „Evaluation of natural organic compounds with biologically active potential”, "Dunărea de Jos" University of Galați, value 50000 RON

2. **2018-2021 – Partener Responsable – Complex projects realized in CDI consortium (PCCDI) - PN-III-P1-1.2-PCCDI- 2017-0566**, contract nr. 9PCCCDI/2018, "Complex system of full recovery of the energy and food potential of some agricultural species" (VALINTEGR), value 405000 RON

3. **2018-2020 – Proiect Manager, Project POCU 2014-2020**, Call no. POCU/90/6.13/6.14– Internships for pupils and students in the agro-food, industry and services sector, **contract no. POCU/90/6.13/6.14/107814**, "Effective program of practical training of students in the field of environmental protection and monitoring" – Promediu, value 2,226,112.45 RON (500000 euro), <http://www.promediu.ugal.ro/>

4. **2017-2018 – director Mobility project for researchers PN-III-P1-1.1-MC-2017-0218**, value 13640 lei

5. **January – December 2011 – Scientific responsible** of Individual postdoctoral research project, "New nitrogen heterocycles with biological activity with potential applications in biofilm destroying and removal", financed from POSDRU/89/1.5/S/52432 at "Dunărea de Jos" University, Galați, Romania

Team Member

1. **2025-2026 – senior researcher – Internal Research Grant, contract no. 7956/31.03.2025** - "Targeted therapeutic molecules, anti-inflammatory and antitumor, isolated from exotic plants acclimatized in Romania", Dunărea de Jos University of Galați, value 100000 RON

2. **2023-2026 – researcher - ADER nr. 5.2.1. project, Contract nr. 25551/18.08.2023**, "Conservation and valorization of the genetic heritage of aromatic and medicinal species suitable to be cultivated on the territory of Romania", "Dunărea de Jos" University, Galați, Romania

3. **2022-2024** – researcher – project PN-III-P4-PCE-2021-0714, contract PCE22/2022 - Strategii inovative și durabile de obținere a acoperirilor pe bază de hemiceluloză cu proprietăți adecvate hârtiei de ambalaj activ pentru alimente - SustHC_CoatPack "Dunărea de Jos" University of Galați
4. **2018-2020** – researcher - **Complex projects realized in CDI consortium (PCCDI), contract 55 PCCDI/2018**, "Implementation and exploitation of scientific research results in the practice of restoration and preservation of cultural goods" (IMPLEMENT)
5. **2018-2019** - researcher – **project 4/07.05.2018** – "Strategy and actions to prepare for national participation in the Project DANUBIUS – RI-DANS,
6. **2014-2015** - **Long term expert in POSDRU - 141248/2014 grant** – "Quality and internationalization systems in higher education in the TOURISM-ENVIRONMENT-CULTURE branch", of "Dunărea de Jos" University of Galați in partnership with Danubius University of Galați
7. **April – June 2015** – **Expert in Team Project for Applied Research Grant 649/7.04.2015**, "Study on the traffic in the Municipality of Galați"
8. **2011-2014** – member of **PN-II-ID-PCE-2011-3-0226 grant**, "Access to new bioactive molecules by development of original biocatalysts for reactions type click-chemistry"
9. **2006-2008** – member of **CEEX grant**, Module I, nr. 717/24.07.2006, "Improvement of quality indicators in the biological treatment of wastewater in the advanced management food industry" - **APEPUR**, of "Dunărea de Jos" University of Galați.
- 10 **2006-2008** – member of **CEEX grant, Module IV nr. 299/18.09.2006**, "Regional Center for Environmental Quality Research and Monitoring", of "Dunărea de Jos" University of Galați,
- 11 **2006-2008** – member of **CEEX grant, Module III**, " Promoting Romanian participation in European FP7 projects in the field of diabetes immunogenetics and pancreatic beta cell regenerative medicine" - **DIABTER**, of "Dunărea de Jos" University of Galați in partnership with Fundeni Hospital
- 12 **2006-2008** – member of **research platform CNCISIS 62**, "Biotechnology Applied In Food Industry - Integrated Center For Research And Education – Bioaliment"
13. **2004-2006** – member of A **CNCISIS grant, nr 450**, " Research on obtaining yellow food colorants, from sources of fungal origin, in accordance with the modern principles of quality and food safety"
14. **2004-2005** – member of **AT CNCISIS grant, CNCISIS nr 81**, " Synthesis of luminophores with possible use in medicine and evaluation of their spectrophysical and biological properties"

3. Individual Grants

1. **Sept. 2004 – Dec- 2005** – EGIDE Doctoral Scholarship awarded by competition by "Joseph Fourier" University, Grenoble, France, value 19800 euro

G. OTHER SCIENTIFIC CONTRIBUTIONS

1. Dodehe Y., R. Dinica, **B. Furdui**, M.Praisler, *Extraction and characterization of Flavonoids leaves from Anona Senegalensis*, 4th National Conference on Applied Physics, sept, 25-26, 2008, Galați, Romania
2. **Furdui B.**, Dinica R., Demeunynck M., 2008, *Spectrophysical studies of pyridinium-indolisines in biological medium*, Al IX-lea Simpozion de Chimia Coloizilor și Suprafețelor, Galați, 29-30 may 2008, abstract published in book of abstract at pag.16;
3. Crețu R., **Furdui B.**, Dinică R., 2008, *Comparative study of antioxidant properties of some indolizine derivatives in vegetable oils*, Al IX-lea Simpozion de Chimia Coloizilor și Suprafețelor, Galați, 29-30 may 2008, abstract published in book of abstract at pag.52;
4. Dinica R., **Furdui B.**, Druță I., 2008, *Comparative study of acido-basic properties of some quaternary salts of 4,4'-bipyridine*, Al IX-lea Simpozion de Chimia Coloizilor și Suprafețelor, Galați, 29-30 may 2008, abstract published in book of abstract at pag.15;
5. Aluculesei A., **Furdui B.**, Vlahovici A., 2006, *Pure electronic transition in the pyridinium-substituted indolizines compounds*, National Conference of Applied Physics – CNFA 2006, Iași, 8-9 december, abstract published in book of abstract at pag. 118.
6. Dinică R., **Furdui B.**, 2006, *Structural Investigations of Indolizinic Compounds by NMR Studies*, National Conference of Applied Physics, 2nd ed., Galați, 9-10 June
7. Dinică R., Crețu R., **Furdui B.**, Florea T., 2005, *Research on the Antioxidant Effect of Indolisines Derivatives in Vegetables Oils*, Al VIII-lea Simpozion de Chimia Coloizilor și Suprafețelor, Galați, 2-4 iunie

4.06.2025

Prof. Bianca Furdui