

PERSONAL DATA

Borcan G. Florin



 2nd E. Murgu Sq., Timișoara-300041, România

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Sex male | Nationality romanian

WORK EXPERIENCE

22.IX.2014 -

Lecturer, then Assoc. Prof (since 2017)

University of Medicine and Pharmacy, Analytical Chemistry Dept.

2nd E. Murgu Sq., Timisoara-300041

education and research

01.X.2011 - 21.IX.2014

PhD Asist., then Lecturer (since 2013)

University of Medicine and Pharmacy, Pharmaceutical Chemistry Dept.

2nd E. Murgu Sq., Timisoara-300041

education and research

01.IX.2009 - 31.XII.2011

PhD Teacher

"Electrotimis" TradeSchool, Chemistry Dept.

2nd M. Millo Str., Timisoara-300696

education

01.XI.2008 - 31.VIII.2009

PhD Teacher

"Gr. Moisil" HighSchool, Chemistry Dept.

4th Ghirlandei Str., Timisoara-300231

education

01.III.2006 - 30.VI.2008

Asist.

West University, Faculty of Chemistry and D.P.P.D.

16th Pestalozzi Str., Timisoara-300115

research and education

01.IX.2002 - 31.VIII.2004

Teacher

"Sf. Nicolae" TradeSchool, Chemistry Dept.

9th Mihai Viteazu Str., Deta-305200

education

EDUCATION AND TRAINING

01.X.2019 – 30.IX.2023

PhD in Pharmacy

University of Medicine and Pharmacy, Faculty of Pharmacy

2nd E. Murgu Sq., Timisoara-300041

PhD program. Diploma J0065732 / 20.V.2024 (Order of Min.Educ. no. 3811 / 15.II.2024)

01.X.2011 - 30.IX.2012

Master in Cosmeto-dermatology

University of Medicine and Pharmacy, Faculty of Pharmacy

2nd E. Murgu Sq., Timisoara-300041

Master program: Formulation and evaluation of dermato-cosmetic product. Diploma A0201068 / 28.X.2014

01.X.2006 - 31.III.2008

Bachelor's Degree in Computer Science

West University, Faculty of Mathematics-Informatics

4th V. Parvan Blvd., Timisoara-300223

Postgraduate specialization. Diploma F0015839 / 15.I.2013

01.XI.2004 - 31.X.2008

PhD in Chemistry

West University, Faculty of Chemistry-Biology-Geography

16th Pestalozzi Str., Timisoara-300115

PhD program. Diploma F0012650 / 01.IV.2009 (Order of Min.Educ. no. 3030 / 13.I.2009)

01.X.2002 - 30.VI.2004

Master in Chemistry

West University, Faculty of Chemistry-Biology-Geography

16th Pestalozzi Str., Timisoara-300115

Master program: Chemistry of biologically active compounds. Diploma D0009759 / 05.X.2006

01.X.1998 - 30.VI.2002

Bachelor's Degree in Chemistry

West University, Faculty of Chemistry-Biology-Geography

16th Pestalozzi Str., Timisoara-300115

Undergraduate courses. Diploma U0055069 / 20.V.2003

PERSONAL SKILLS AND COMPETENCES

Mother language

romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Engleză	B1	B2	B2	C1	B2
Franceză	B1	B2	B1	B1	B1

Social skills and competences

High sociability and good communication skills gained through the experience as a teacher. Teamwork, creativity and perseverance, gained inside research groups. Ability to adapt to multicultural environments, developed through work with foreign students.

Organizational skills and competences

Leader of students practical works. Good experience in managing research projects. Organizational spirit with a flair for planning and management of resource, budget and time.

Skills acquired in the workplace

Team spirit, creativity and perseverance, gained in research groups. Ability to adapt to multicultural environments, developed through work with foreign students.

Digital skills

Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Good hardware knowledge: system assembly, HDD partitioning, installation, optimization - Windows operating systems. Advanced user of Windows Explorer, Total Commander, MS Office (Word, Excel, PowerPoint), Internet browsers, chemistry programs (ISIS, HyperChem) and statistics. Basic knowledge of computer graphics (Adobe Photoshop, Corel, Flash) and programming (HTML, MySQL, PHP).

Other skills Experienced user of sample characterization tools (chemicals, biological samples, new synthetic products): pH-meters, Courage-Khazaka dermatological probes, DSC Mettler-Toledo, Particles' Zetasizer Cordouan Technol., Flow-cytometry BD, HPLC Agilent, MALDI-TOF Bruker.

Driving licence cat. B (since 1997)

April 8, 2025

Florin G. BORCAN

ADDITIONAL INFORMATION

ORCID: orcid.org/0000-0003-3406-0303

Web of Science ResearcherID: researcherid.com/rid/I-8980-2012

Publons: publons.com/researcher/1403718

Brainmap.ro Code: [U-1700-031U-0068](https://brainmap.ro/U-1700-031U-0068)



1. Teaching and professional activity

A. Books

- A.1. **Borcan F**, Jurconi H, Bolcu C. *Considerații generale privind adezivii poliuretani*. Ed. Eurostampa, Timișoara, 2006, ISBN 978-973-687-314-0, p. 60.
- A.2. Bolcu C, **Borcan F**. *Chimia compușilor macromoleculari*. Ed. Eurostampa, Timișoara, 2006, ISBN 978-973-687-388-9, p. 102.
- A.3. **Borcan F**, Borcan G, Bolcu C. *Tipuri de probleme de chimie organică*. Ed. Eurostampa, Timișoara, 2006, ISBN 978-973-687-405-5, p. 124.
- A.4. Putz MV, **Borcan F**, Lacrămă AM (Ed.) *Cercul principiilor. Vol I*. Ed. Univ. de Vest, Timișoara, 2007, ISBN 978-975-125-077-9, p. 272.
- A.5. **Borcan F**, Pitulice L, Dascălu D, Chiriac V, Bolcu C, Isac D. *Algoritmizare, modelare, experiment chimic – Chimie anorganică*. Ed. Eurostampa, Timișoara, 2007, ISBN 978-973-687-586-1, p. 128.
- A.6. **Borcan F**, Pitulice L, Isac D. *Practică pedagogică - chimie*. Ed. Eurostampa, Timișoara, 2007, ISBN 978-973-687-597-7, p. 44.
- A.7. **Borcan F**, Cîrstea CA. *Probleme de chimie anorganică*. Ed. Eurostampa, Timișoara, 2008, ISBN 978-973-687-654-7, p. 120.
- A.8. Bolcu C, Seiman I, Duda-Seiman C, **Borcan F**. *Tehnologii moderne de obținere a unor tipuri speciale de poliuretani*. Ed. Eurostampa, Timișoara, 2008, ISBN 978-973-687-668-4, p. 224.
- A.9. Bolcu C, **Borcan F**. *Culegere de probleme de chimie organică – pentru examenele din învățământul liceal, universitar și postuniversitar*. Ed. Eurostampa, Timișoara, 2010, ISBN 978-606-569-112-4, p. 116.
- A.10. Trandafirescu C, Șoica C, Pătruțescu C, **Borcan F**. *Chimie farmaceutică. Lucrări practice de laborator*. Ed. Victor Babeș, Timișoara, 2012, ISBN 978-606-8054-74-2, p. 218.
- A.11. **Borcan F**, Andoni M. *Aplicații pentru dezvoltarea abilităților de calcul chimic*. Ed. Mirton, Timișoara, 2012, ISBN 978-973-52-1272-8, p. 136.
- A.12. Șoica C, **Borcan F**, Trandafirescu C. *Chimia și acțiunea antisepticelor și dezinfectantelor*. Ed. Victor Babeș, Timișoara, 2013, ISBN 978-606-8456-20-1, p. 176.
- A.13. **Borcan F**, Andrica FM, Ardelean S. *Elemente de metodologie aplicată în toxicovigilență și cosmetovigilență*. Ed. Victor Babeș, Timișoara, 2014, ISBN 978-606-8456-40-9, p. 132.
- A.14. Ledeti A-V, Axente C, Cîrcioban D-L, Ledeti I-V, **Borcan F**. *Chimie analytique quantitative – Notes de cours*. Ed. Mirton, Timișoara, 2017, ISBN 978-973-52-1770-9, p. 274.
- A.15. **Borcan F**, Ledeti AV, Tomoroga C, Cîrcioban D-L. *Tehnici de analiză instrumentală*. Ed. Victor Babeș, Timișoara, 2020, ISBN 978-606-786-199-0, p. 146.
- A.16. Șoica C, **Borcan F**, Trandafirescu C. *Chemistry and activity of antiseptics and disinfectants*. Ed. Victor Babeș, Timișoara, 2024, ISBN 978-606-786-330-7, p. 176.

B. Chapters

- B.1. **Borcan F**, Filimon N, Bolcu C. *Modelling of the polyurethane structure for a better antibiotics' adsorption* In Putz MV (Ed.) *Advances in Chemical Modeling. Volume 2*, Nova Science Publishers Inc. 2011, ISBN 978-1-61209-669-8, p. 371-377.
- B.2. Duda-Seiman C, Avram S, Duda-Seiman D, Bumbacila B, **Borcan F**, Cinca R. *Calcium Channel Blockers: Past and Future* In Khan MTH (Ed.) *Recent Trends on QSAR in the Pharmaceutical Perceptions*, Bentham Science Publishers 2012, ISBN 978-1-60805-433-6, p. 51-62.
- B.3. Avram S, Buiu C, Duda-Seiman C, **Borcan F**, Duda-Seiman D, Mihailescu D. *Evaluation of the Pharmacological Descriptors Related to the Induction of Antimicrobial Activity by Using QSAR and Computational Mutagenesis* In Khan MTH (Ed.) *Recent Trends on QSAR in the Pharmaceutical Perceptions*, Bentham Science Publishers 2012, ISBN 978-1-60805-433-6, p. 63-98.
- B.4. Șoica C, Trandafirescu C, **Borcan F**, Danciu C, Simu G, Dehelean C. *Nanoformulations with cyclodextrins as carriers for skin targeting of active drugs*. In Singh B & Katare OP (Eds.) *Biotechnology-Novel Drug Delivery*, vol. 8. Studium press LLC, Houston, USA 2014, ISBN 1-62699-023-9, p. 29-56.

2. Research activity

C. Scientific papers in ISI journals

- C.1. Bolcu C, **Borcan F**. The Study of the Reactions of 2,4-dihydroxy-benzophenone with mono- and diisocyanates. *Materiale Plastice*, **2005**, 42(1), 35-39.
ISSN= 0025-5289
FI= [0,412/2005](#)
Autor Princ.: UA
WOS= 000228469600007
- C.2. Bolcu C, **Borcan F**, Nuțiu R. Aspects regarding the synthesis and characterization of some types of thermoplastic polyurethanes. *Materiale Plastice*, **2006**, 43(3), 258-261.
ISSN= 0025-5289
FI= [0,319/2006](#)
Autor Princ.: -
WOS= 000242135800016
- C.3. Vlase T, Doca N, Vlase G, Bolcu C, **Borcan F**. Kinetics of non-isothermal decomposition of three irganox-type antioxidants. *Journal of Thermal Analysis and Calorimetry*, **2008**, 92(1), 15-18.
ISSN= 1388-6150
FI= [1,630/2008](#)
Autor Princ.: UA
WOS= 000254920300003
- C.4. Bolcu C, **Borcan F**, Duda-Seiman C, Nuțiu R. Thermal Analysis of Urethane and Alophanate Compounds Obtained by Chemical Reactions Between Phenylisocyanate and Mono- or Bifunctional Stabilizers. *Materiale Plastice*, **2009**, 46(3), 315-320.
ISSN= 0025-5289
FI= [0,000/2009](#)
Autor Princ.: -
WOS= 000272488600020
- C.5. Avram S, Duda-Seiman D, Duda-Seiman C, **Borcan F**, Mihăilescu D. Predicted binding rate of new cephalosporin antibiotics by a 3D-QSAR method: a new approach. *Monatshefte fur Chemie/Chemical Monthly*, **2010**, 141(5), 589-597.
ISSN= 0026-9247
FI= [1,356/2010](#)
Autor Princ.: -
WOS= 000277603800016
- C.6. Avram S, Duda-Seiman DM, **Borcan F**, Wolschann P. QSAR-CoMSIA Applied to Antipsychotic Drugs with Their Dopamine D2 and Serotonine 5HT2A Membrane Receptors. *Journal of the Serbian Chemical Society*, **2011**, 76(2), 263-281.
ISSN= 0352-5139
FI= [0,879/2011](#)
Autor Princ.: AC
WOS= 000288057300010
- C.7. Avram S, Duda-Seiman DM, **Borcan F**, Radu B, Duda-Seiman C, Mihăilescu D. Evaluation of Antimicrobial Activity of New Mastoparan Derivatives Using QSAR and Computational Mutagenesis. *International Journal of Peptide Research and Therapeutics*, **2011**, 17(1), 7-17.
ISSN= 1573-3149
FI= [0,986/2011](#)
Autor Princ.: -
WOS= 000288710700002
- C.8. Avram S, Buiu C, **Borcan F**, Milac AL. More effective antimicrobial mastoparan derivatives, generated by 3D-QSAR-Almond and computational mutagenesis. *Mol. BioSyst.*, **2012**, 8(2), 587-594.
ISSN= 1742-206X
FI= [3,350/2012](#)
Autor Princ.: -
WOS= 000298994900018
- C.9. Avram S, Mihăilescu D, **Borcan F**, Milac AL. Prediction of improved antimicrobial mastoparan derivatives by 3D-QSAR-CoMSIA/CoMFA and computational mutagenesis. *Monatshefte fur Chemie/Chemical Monthly*, **2012**, 143(4), 535-543.
ISSN= 0026-9247
FI= [1,629/2012](#)
Autor Princ.: -
WOS= 000301585000003
- C.10. Avram S, Buiu C, Duda-Seiman D, Duda-Seiman C, **Borcan F**, Mihăilescu D. Evaluation of the Pharmacological Descriptors Related to the Induction of Antidepressant Activity and its Prediction by QSAR/QRAR Methods. *Mini-Rev Med Chem*, **2012**, 12(6), 467-476.
ISSN= 1389-5575
FI= [2,865/2012](#)
Autor Princ.: -
WOS= 000305730800004
- C.11. Cînta-Pînzaru S, Dehelean CA, Soica C, Culea M, **Borcan F**. Evaluation and differentiation of the Betulaceae birch bark species and their bioactive triterpene content using analytical FT-vibrational spectroscopy and GC-MS. *Chemistry Central Journal*, **2012**, 6(1), 67.
ISSN= 1752-153X
FI= [1,312/2012](#)
Autor Princ.: UA
WOS= 000307108300001
- C.12. **Borcan F**, Șoica CM, Ganta S, Amiji MM, Dehelean CA, Munteanu MF. Synthesis and preliminary in vivo evaluations of polyurethane microstructures for transdermal drug delivery. *Chemistry Central Journal*, **2012**, 6, 87.
ISSN= 1752-153X
FI= [1,312/2012](#)
Autor Princ.: PA
WOS= 000310298900001
- C.13. **Borcan F**, Bolcu C, Filimon N, Bandur G. The synthesis and characterization of the polyurethanes with antimicrobial properties. *e-Polymers*, **2012**, 080, 01-08.
ISSN= 1618-7229
FI= [0,400/2012](#)
Autor Princ.: PA
WOS= 000308666900002
- C.14. **Borcan F**, Șoica CM, Dehelean CA, Ganta S, Amiji MM. Size and Stability Optimization for Polyurethane Nanostructures used as Transdermal Drug Vehicle. *Rev. Chim. Bucharest*, **2012**, 63(11), 1164-1166.
ISSN= 0034-7752
FI= [0,538/2012](#)
Autor Princ.: PA
WOS= 000312606800016
- C.15. Danciu C, **Borcan F**, Bojin F, Zupko I, Dehelean C. Effect of the Isoflavone Genistein on Tumor Size, Metastasis Potential and Melanization in a B16 Mouse Model of Murine Melanoma. *Natural Product Communications*, **2013**, 8(3), 343-346.
ISSN= 1934-578X
FI= [0,924/2013](#)
Autor Princ.: -
WOS= 000316778500018

- C.16. Heghes A, Șoica CM, Ardelean S, Ambrus R, Muntean D, Gălușcan A, Dragoș D, Ionescu D, **Borcan F**. Influence of emulsifiers on the characteristics of polyurethane structures used as drug carrier. *Chemistry Central Journal*, **2013**, 7(1), 66.
- C.17. Gălușcan A, Jumanca D, **Borcan F**, Șoica CM, Ionescu D, Rusu LC, Crăiniceanu Z. Comparative Study on Polyurethane and Cyclodextrin Carrier for Triclosan. *Rev. Chim. Bucharest*, **2014**, 65(2), 190-193.
- C.18. Danciu C, Șoica C, Oltean M, Avram S, **Borcan F**, Csanyi E, Ambrus R, Zupko I, Muntean D, Dehelean CA, Craina M, Popovici RA. Genistein in 1:1 Inclusion Complexes with Ramified Cyclodextrins: Theoretical, Physicochemical and Biological Evaluation. *International Journal of Molecular Sciences*, **2014**, 15(2), 1962-1982.
- C.19. Șoica C, Oprean C, **Borcan F**, Danciu C, Trandafirescu C, Coricovac D, Crăiniceanu Z, Dehelean CA, Munteanu M. The Synergistic Biologic Activity of Oleanolic and Ursolic Acids in Complex with Hydroxypropyl- γ -Cyclodextrin. *Molecules*, **2014**, 19(4), 4924-4940.
- C.20. Șoica C, Danciu C, Săvoiu-Balint G, **Borcan F**, Ambrus R, Zupko I, Bojin F, Coricovac D, Ciurlea S, Avram S, Dehelean CA, Olariu T, Matusz P. Betulinic Acid in Complex with a Gamma-Cyclodextrin Derivative Decreases Proliferation and in Vivo Tumor Development of Non-Metastatic and Metastatic B16A5 Cells. *Int. J. Mol. Sci.*, **2014**, 15, 8235-8255.
- C.21. Vlaia V, Pînzaru I, Coricovac D, Andoni M, **Borcan F**, Antal D. Uptake of Thallium by Medicinal Plants: First Data for Romanian Flora and Significance to Human Health. *Rev. Chim. Bucharest*, **2014**, 65(10), 1158-1162.
- C.22. Trandafirescu C, Antal D, Șoica C, Zupko I, Minorics R, Ambrus R, **Borcan F**, Oprean C, Danciu C, Avram S, Dehelean C, Niță S, Vlaia L. Cyclodextrin complexes of Oleanolic and Ursolic Acid. Physico-chemical and biological preliminary evaluation. *Rev. Chim. Bucharest*, **2014**, 65(10), 1163-1167.
- C.23. Danciu C, Coricovac DE, Șoica C, Dumitrașcu V, Simu G, Antal D, Lajos K, Dehelean CA, **Borcan F**. Evaluation of skin physiological parameters in SKH1 mice experimental model after exposure to aggressive factors like UVB using non-invasive methods. *Rev. Chim. Bucharest*, **2014**, 65(10), 1195-1199.
- C.24. Trandafirescu C, Avram S, Șoica C, Aigner Z, Arpad G, Kata M, Dehelean C, Szabaday Z, **Borcan F**. Solid-state Characterization of Bifonazole – beta-cyclodextrin Binary Systems. II. *Rev. Chim. Bucharest*, **2014**, 65(11), 1336-1339.
- C.25. Jumanca D, Galuscan A, Podariu AC, **Borcan F**, Earar K. Anti-inflammatory Action of Toothpastes Containing Betulin Nanocapsules. *Rev. Chim. Bucharest*, **2014**, 65(12), 1473-1476.
- C.26. Buiu C, Avram S, Duda-Seiman D, Milac AL, Duda-Seiman C, Păcureanu L, **Borcan F**. More Effective DPP4 Inhibitors as Antidiabetics Based on Sitagliptin Applied QSAR and Clinical Methods. *Current Computer-Aided Drug Design*, **2015**, 11(4), 237-249.
- C.27. Cîtu IM, **Borcan F**, Zambori C, Tița B, Păunescu V, Ardelean S. Influence of crosslinking agent - chain extender ratio on the properties of hyperbranched polyurethane structures used as dendritic drug carrier. *Rev. Chim. Bucharest*, **2015**, 66(1), 119-123.
- C.28. Minda D, Pavel IZ, **Borcan F**, Coricovac D, Pînzaru I, Andrica F, Morgovan C, Niță LD, Șoica C, Muntean D, Toma CC. Beneficial Effects of a Lupeol-Cyclodextrin Complex in a Murine Model of Photochemical Skin Carcinoma. *Rev. Chim. Bucharest*, **2015**, 66(3), 373-377.
- C.29. Cîtu IM, Toma C, Trandafirescu C, Antal D, Zambori C, Oprean C, Bojin F, **Borcan F**, Păunescu V, Lăzureanu V. Preparation and Characterization of a Polyurethane Nanocarrier Used for Mixtures of Betulin and Fatty Acids. *Rev. Chim. Bucharest*, **2015**, 66(3), 431-437.
- C.30. Danciu C, **Borcan F**, Șoica C, Zupko I, Csanyi E, Ambrus R, Muntean D, Sass C, Antal D, Toma C, Dehelean C. Polyurethane Microstructures-a Good or Bad in vitro Partner for the Isoflavone Genistein? *Nat. Prod. Comm.*, **2015**, 10(6), 951-954.
- C.31. Cîtu C, Danciu C, Pînzaru I, Ghiulai R, Vlaia L, Vlaia V, **Borcan F**, Dumitru C, Pavel IZ, Sas I, Bernad E. Genistein and its fatty acid esters as new in vitro antitumor compounds. *Rev. Chim. Bucharest*, **2015**, 66(8), 1100-1104.

ISSN= 1752-153X
 FI= [1,663/2013](#)
 Autor Princ.: UA
 WOS= 000318717900001
 ISSN= 0034-7752
 FI= [0,810/2014](#)
 Autor Princ.: AC
 WOS= 000333577400013
 ISSN= 1422-0067
 FI= [2,862/2014](#)
 Autor Princ.: -
 WOS= 000335776400017
 ISSN= 1420-3049
 FI= [2,416/2014](#)
 Autor Princ.: -
 WOS= 000336087800070
 ISSN= 1422-0067
 FI= [2,862/2014](#)
 Autor Princ.: -
 WOS= 000336841800069
 ISSN= 0034-7752
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 ISSN= 0034-7752
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 WOS= 000344719500009
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 WOS= 000344719500016
 ISSN= 0034-7752
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 Autor Princ.: UA
 WOS= 000345946300017
 ISSN= 0034-7752
 FI= [0,810/2014](#)
 Autor Princ.: -
 WOS= 000345946400015
 ISSN= 1573-4099
 FI= [1,155/2015](#)
 Autor Princ.: UA
 WOS= 000350338600007
 ISSN= 0034-7752
 FI= [0,956/2015](#)
 Autor Princ.: PA
 WOS= 000350270800025
 ISSN= 0034-7752
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 WOS= 000352756300018
 ISSN= 0034-7752
 FI= [0,956/2015](#)
 Autor Princ.: AC
 WOS= 000352756300031
 ISSN= 1934-578X
 FI= [0,884/2015](#)
 Autor Princ.: -
 WOS= 000356565700038
 ISSN= 0034-7752
 FI= [0,956/2015](#)
 Autor Princ.: AC
 WOS= 000361124600004

- C.32. Avram S, Mernea M, **Borcan F**, Mihailescu D. Evaluation of the Therapeutic Properties of Mastoparan- and Sifuvirtide- Derivative Antimicrobial Peptides Using Chemical Structure-Function Relationship - in vivo and in silico Approaches. *Curr Drug Deliv.*, **2016**, 13(2), 202-210.
- C.33. Cîtu C, Ceuta L, Popovici R, Ionescu D, Pinzaru I, **Borcan F**. Alternative Possibilities to Asses a Phytohormone Release Rate from a Polyurethane Carrier. *Mater. Plast.*, **2015**, 52(4), 553-559.
- C.34. Avram S, **Borcan F**, Borcan L-C, Milac AL, Mihailescu D. QSAR Approaches Applied to Antidepressants Induced Neurogenesis - in vivo and in silico Applications. *Mini-Reviews in Medicinal Chemistry*, **2015**, 16(3), 230-240.
- C.35. Mernea M, Borcan L-C, **Borcan F**, Avram S. Antipsychotics as Psychosis Drugs and Neuroprotective Promoters Evaluated by Chemical QSAR - in silico and in vivo Studies. *Letters in Drug Design&Discovery*, **2016**, 13(4), 269-275.
- C.36. Stoian D, Pantea S, Margan M, Timar B, **Borcan F**, Craina M, Craciunescu M. Individualized Follow-up of Pregnant Women with Asymptomatic Autoimmune Thyroid Disease. *Int. J. Mol. Sci.*, **2016**, 17(1), 1-13.
- C.37. Berceanu MF, Pinzaru I, Bratu T, Crainiceanu Z, Ceuta L, **Borcan F**, Coricovac D, Citu C. Evolution of Murine Melanoma in C57BL/6J Female Mice. A non-invasive evaluation. *Rev. Chim. Bucharest*, **2016**, 67(1), 81-83.
- C.38. Simu GM, Coricovac D, Cseh L, Soica C, **Borcan F**, Ionescu D, Andoni M, Dragos D, Dehelean C. Assessment of Skin Injuries Induced by Organic and Inorganic Phases of the Cosorb Process by Means of Non-invasives Techniques. *Rev. Chim. Bucharest*, **2016**, 67(2), 291-296.
- C.39. Andor B, Patrascu JM, Florescu S, Cojocaru D, Sandesc M, **Borcan F**, Boruga O, Bolintineanu S. Comparison of Different Knee Implants Used on Patients with Osteoarthritis Control Study. *Mater. Plast.*, **2016**, 53(1), 119-125.
- C.40. Trandafirescu C, Soica C, Ledeti A, **Borcan F**, Suta LM, Murariu M, Dehelean C, Ionescu D, Ledeti I. Preformulation Studies for Albendazole. A DSC and FTIR analysis of binary mixtures with excipients. *Rev. Chim. Bucharest*, **2016**, 67(3), 463-467.
- C.41. Craciunescu M, Stoian D, Schiller A, Craina M, Petre I, Bernad E, Andrica F, **Borcan F**, Timar B. Study on 25-Hydroxy-Vitamin D for the Assessment of Bone Mineral Density. *Rev. Chim. Bucharest*, **2016**, 67(3), 543-548.
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WOS= -

FI = impact factor; Autor Princ. (Main author): PA (first author), AC (corresponding author), UA (last author),
WOS = identification no. in Web of Science database

D. Scientific papers in other databases

D.1. Bolcu C, **Borcan F**. Electro Isolating Polyurethane Duromers. *Annals of West University Timișoara, Series Chemistry*, **2002**, 11(1), 19-26.

ISSN= 1224-9513

Autor Princ.: UA

D.2. Borcan G, **Borcan F**. The Influence of Cycocel in the Process of Wheat's Improvement and Development. *Annals of West University Timișoara, Series Chemistry*, **2003**, 12(1), 127-134.

ISSN= 1224-9513

Autor Princ.: UA

D.3. Bolcu C, **Borcan F**, Nuțiu R. Thermal Stability Study Of Compounds Synthesized In Reaction Between 2,4-Toluylen-diisocyanate and Mono- And Bi-functional Stabilizers. *Annals of West University Timișoara, Series Chemistry*, **2007**, 16(1), 103-113.

ISSN= 1224-9513

Autor Princ.: -

D.4. Bolcu C, **Borcan F**, Nuțiu R. Polyurethane system used for the manufacture of automotive belts. *Annals of West University Timișoara, Series Chemistry*, **2008**, 17(1), 27-32.

ISSN= 1224-9513

Autor Princ.: -

D.5. **Borcan F**, Zaharie D, Bolcu C, Nuțiu R. The Polyurethane Stabilization Efficiency Estimated By Mathematica System. *Annals of West University Timișoara, Series Chemistry*, **2008**, 17(1), 33-42.

ISSN= 1224-9513

Autor Princ.: PA

D.6. Bolcu C, **Borcan F**, Nuțiu R. A Polyurethane's Application For The Shoes' Industry. *Annals of West University Timișoara, Series Chemistry*, **2008**, 17(1), 43-48.

ISSN= 1224-9513

Autor Princ.: -

D.7. Redeș (Craciun) L, Ionescu D, Kaycsa A, Ciurlea S, **Borcan F**, Rădoi B, Popovici I. Lupeol as anti-inflammatory compound tested on Balb/c - TPA Model. *Journal of Agroalimentary Processes and Technologies*, **2011**, 17(2), 157-162.

ISSN= 1453-1399

Autor Princ.: -

- D.8. Redeş (Craciun) L, **Borcan F**, Ionescu D, Ambrus R, Găluşcan A, Popovici I. Synthesis and characterization of a polyurethane transdermal carrier for lupeol. *Journal of Agroalimentary Processes and Technologies*, **2011**, 17(3), 321-325. ISSN= 1453-1399
Autor Princ.: -
- D.9. **Borcan F**, Dehelean CA, Anghel A. Obtaining and Characterization of Polyether-Urethane Nanostructures – A Possible Drug Carrier System. *Annals of West University Timisoara, Series Chemistry*, **2011**, 20(1), 41-46. ISSN= 1224-9513
Autor Princ.: PA
- D.10. Ciurlea S, Bojin MF, Csanyi E, Ionescu D, **Borcan F**, Găluşcan A, Dehelean CA. Evaluation of Skin Parameters Changes in Chemical and Photochemical Initiated Tumors on SKH1 Mice. *Fiziologia*, **2011**, 21.3(71), 18-22. ISSN= 1223-2076
Autor Princ.: -
- D.11. Cerga O, **Borcan F**, Ambrus R, Popovici I. Syntheses of new cyclodextrin complexes with oleanolic and ursolic acids. *Journal of Agroalimentary Processes and Technologies*, **2011**, 17(4), 405-409. ISSN= 1453-1399
Autor Princ.: AC
- D.12. Cerga O, **Borcan F**, Sass C, Găluşcan A, Popovici I. In vitro activity of ursolic and oleanolic acid on A2058 (human melanoma) and A2780 (hepatic carcinoma). *Medicine in evolution*, **2012**, XVIII(1), 196-201. ISSN= 2065-376X
Autor Princ.: -
- D.13. Cerga O, **Borcan F**, Bernad E, Popovici I. In vivo evaluation of cyclodextrin complexes with oleanolic and ursolic acids. *Journal of Agroalimentary Processes and Technologies*, **2012**, 18(2), 130-135. ISSN= 1453-1399
Autor Princ.: AC
- D.14. Ardelean S, Trandafirescu C, Oprean (Sass) C, Hegheş A, **Borcan F**. Efficacy and toxicological character of coriander and chamomile extracts. *Fiziologia*, **2012**, 22.4(76), 26-29. ISSN= 1223-2076
Autor Princ.: AC
- D.15. Hegheş A, Trandafirescu C, Sass (Oprean) C, Ardelean S, **Borcan F**. Analysis of synthesised steroid dimers based on the structure of pentacyclic triterpenes. *Fiziologia*, **2012**, 22.4(76), 19-23. ISSN= 1223-2076
Autor Princ.: UA
- D.16. Hegheş A, Trandafirescu C, Ardelean S, **Borcan F**. Novel technique for determination of toxicological character of synthesized drug carriers. *Journal of Agroalimentary Processes and Technologies*, **2013**, 19(1), 22-27. ISSN= 1453-1399
Autor Princ.: AC
- D.17. Hegheş A, Trandafirescu C, Ardelean S, **Borcan F**. The obtaining and the technique for evaluation of some natural extracts used in cosmetics. *Journal of Agroalimentary Processes and Technologies*, **2013**, 19(1), 10-15. ISSN= 1453-1399
Autor Princ.: AC
- D.18. Avram S, Duda-Seiman D, Duda-Seiman C, **Borcan F**, Păcureanu L. Evaluation of calcium channel blocker activity of new dihydropyridine derivatives using 2D-QSAR and three-dimensional similarity. *International Journal of Pharmacy & Therapeutics*, **2014**, 5(1), 56-68. ISSN= 0976-0342
Autor Princ.: AC
- D.19. Albulescu RC, **Borcan F**, Puiu M. Development of polymeric carriers used for bevacizumab - a possible remedy in retinopathy of prematurity. *International Journal of Advanced Pharmaceuticals*, **2014**, 4(3), 154-159. ISSN= 2249-7706
Autor Princ.: AC
- D.20. Albulescu RC, **Borcan F**, Paul C, Velea I, Puiu M. Development and in vitro evaluation of polyurethane microparticles as carrier for bevacizumab: an alternative treatment for retinopathy of prematurity. *International Current Pharmaceutical Journal*, **2014**, 3(6), 275-279. ISSN= 2224-9486
Autor Princ.: AC
- D.21. Gheorgheosu (Coricovac) D, **Borcan F**, Balasz NI, Soica C, Simu G, Kemeny L, Dehelean CA. Evaluation of skin parameters in C57BL/6J mice exposed to chemical and environmental factors using non-invasive methods. *Journal of Agroalimentary Processes and Technologies*, **2014**, 20(1), 14-20. ISSN= 1453-1399
Autor Princ.: AC
- D.22. Duda-Seiman D, Duda-Seiman C, **Borcan F**, Borcan L-C, Mancas S, Avram S. Calcium Channel Blockers – Benefits Upon Vascular Biology in Hypertensive Patients. *Cardiovascular & Hematological Agents in Medicinal Chemistry*, **2015**, 13(1), 54-62. ISSN= 1871-5257
Autor Princ.: AC
- D.23. Oprean C, **Borcan F**, Cristea M, Bojin F, Ivan A, Mioc M, Trandafirescu C, Soica C, Paunescu V. Polyurethane Nanostructures Incorporating Ursolic and Oleanolic Acids: In Vitro Antiproliferative Evaluation. *Fiziologia*, **2015**, 25.1(85), 39-44. ISSN= 1223-2076
Autor Princ.: -
- D.24. Minda D, Coricovac D, Pinzaru I, Dehelean C, **Borcan F**, Muntean D. Lupeol A Potent Anti-Inflammatory Agent in Acute Inflammation Mouse Ear Model. *Fiziologia*, **2015**, 25.3(87), 25-29. ISSN= 1223-2076
Autor Princ.: -
- D.25. Stoian D, **Borcan F**, Derban M, Craina M, Dehelean CA, Craciunescu M. Combined Thyroid Imaging Report and Data System Ti-Rads and Ultrasound Guided Fine Needle Aspiration Biopsy in Solid Thyroid Nodules. *JSM Thyroid Disorders and Management*, **2016**, 1(1), 1002. ISSN= -
Autor Princ.: AC
- D.26. Avram S, Milac AL, Mernea M, Alexandrescu I, Borcan LC, **Borcan F**. Predicted mechanism of antiasthmatic drugs in depression based on their interaction with SERT and 5-HT1A receptors. *Current Enzyme Inhibition*, **2018**, 14(1), 51-60. ISSN= 1573-4080
Autor Princ.: UA
- D.27. Iftode A, Popovici RA, Serafin AC, Tigmeanu CV, Pavel IZ, Bociort F, Motoc A, **Borcan F**. Assessment of toxicological profile of plant extract formulation on human skin by non-invasive measurements. *Medicine in evolution*, **2018**, XXIV(2), 191-197. ISSN= 2065-376X
Autor Princ.: UA
- D.28. Borcan LC, **Borcan F**, Tomescu MC. Relationships between Diet, Lifestyle and Blood Pressure to Crenotherapy Employees. *International Journal of Pharma Research and Health Sciences*, **2018**, 6(5), 2729-2734. ISSN= 2348-6465
Autor Princ.: AC

- D.29. Preda M, Sisu E, Vlaia V, Olariu T, Moaca A, Borcan L-C, **Borcan F**. In vitro experimental evaluations of birch bark extracts with selectivity in the obtaining of betulinol. *Journal of Agroalimentary Processes and Technologies*, **2018**, 24(4), 289-294. ISSN= 1453-1399
Autor Princ.: UA
- D.30. Preda M, **Borcan F**, Borcan L-C, Popovici R, Sisu E. Synthesis and characterization of different nanoemulsions containing birch bark extracts. *Medicine in evolution*, **2018**, XXIV(4), 414-421. ISSN= 2065-376X
Autor Princ.: AC
- D.31. Borcan L-C, **Borcan F**, Pauncu E-A, Tomescu MC. Correlations between weather parameters, atmospheric hydrogen sulphide level and vitamin B12 administration to H2S exposed workers. *Romanian Journal of Occupational Medicine*, **2019**, 70(1), 6-11. ISSN= 2601-0828
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- D.32. **Borcan F**, Mioc M, Ghiulai R, Pinzaru I, Dehelean CA, Soica CM. A Study on the Behavior of a Polyurethane Drug Carrier in Various pH Media. *Journal of Medicine and Life*, **2020**, 13(2), 198-202. ISSN= 1844-122x
Autor Princ.: PA
-
- Autor Princ. (Main author): PA (first author), AC (corresponding author), UA (last author)

E. Trademark and patents

Patents

- E.1.1. Jumanca D, Galuscan A, Florita S, Podariu A, Florita Z, Dehelean C, **Borcan F**. *Compoziție pentru pastă de dinți*. Patent no. 127805, issued by OSIM on 28.II.2014.
- E.1.2. Jumanca D, Gălușcan A, **Borcan F**, Florița S, Dehelean C, Florița Z. *Procedeu și dispozitiv pentru producerea nanogelurilor și microgelurilor pe bază de silicați alcalino-pământoși*. Patent no. 128480, issued by OSIM on 26.II.2016.
- E.1.3. UMF Timișoara (**Borcan F**, Soica CM, Florița S, Gălușcan A, Jumanca D). *Vehicul polieter-uretanice pentru transportul transdermic al unor compuși farmaceutici utilizați în stomatologie*. Patent no. 128801, issued by OSIM on 29.XI.2017.
- E.1.4. UMF Timișoara (Borcan L-C, Popescu FG, **Borcan F**, Păuncu E-A, Tomescu MC, Dehelean CA). *Produs absorbant pentru hidrogen sulfurat și procedeu de obținere a acestuia*. Patent no. 133956, issued by OSIM on 30.III.2021.
- E.1.5. UMF Timișoara (**Borcan F**, Dehelean CA, Soica CM). *Procedeu de obținere a unui transportor transdermic al aciclovirului*. Patent no. 134816, issued by OSIM on 30.VI.2023.
- E.1.6. UMF Timișoara (Șerban C, Novac AC, Neagu CS, Zaharia C, Jivănescu A, Leretter MT, Romînu M, Negruțiu ML, **Borcan F**, Sinescu C, Levai C). *Restaurări protetice parțiale fixe agregate pe fațete dentare cu extensii axiale de tip pini parapulpări*. Patent application no. A / 00486 registered to OSIM on 10.VIII.2022.
- E.1.7. UMF Timișoara (**Borcan F**, Popescu R, Szuhanek CA, Soica CM, Dehelean CA). *Nanogel poliuretanice cu aplicabilitate în terapia genică a bolilor rare ale pielii*. Patent application no. A / 00718 registered to OSIM on 11.XI.2022.
- E.1.8. UMF Timișoara (Nagib R, **Borcan F**, Szuhanek CA). *Dispozitiv ortodontic personalizat proiectat CAD pentru dinți incluși și procedeu de obținere*. Patent application no. A / 00582 registered to OSIM on 19.X.2023.
- E.1.9. UMF Timișoara (Borcan LC, Dehelean CA, Albulescu RC, **Borcan F**, Szuhanek CA). *Preparat pe bază de ardei iute pentru dureri reumatice*. Patent application no. A / 00090 registered to OSIM on 06.III.2025

Trademarks

- E.2.1. **Borcan F**, Borcan L-C, Tomescu MC, Florea S-D, Morariu V-I. *BoToFI.m*. Trademark registration certificate no. 161222 (OSIM 04.01.2019).
- E.2.2. **Borcan F**, Borcan L-C, Dehelean CA, Soica C-M. *pharm na-mi S*. Trademark registration certificate no. 167149 (OSIM 04.06.2020).

F. Research projects / grants

F1. Manager

- F1.1. „Nanotehnologii de poliuretani acoperiți cu strat antimicrobian”, value 32.000 lei, 2007-2008, financing authority: CNCSIS, grant TD137 / 2007.
- F1.2. „Nanocapsule polieter-uretanice utilizate ca vehicule de transport transdermic pentru substanțe biologice active”, value 300.000 lei, 2010-2012, financing authority: CNCSIS, grant RU-PD586 / 2010.
- F1.3. „Implementarea unor noi direcții de biosinteză cu dublă funcționalizare pentru triterpene pentaciclice cu potențial antitumoral”, value 5.000 euro, 2013, financing authority: UMF Timișoara, grant competiție internă 15250 / 19.XII.2012.
- F1.4. „Study on Molecular Docking, Synthesis and Characterization of a Polyurethane Biomaterial used as a DNA Carrier”, value 100.000 euro, 2020-2023, financing authority: UMF Timișoara, grant competiție internă – Cercetători experimentați 5EXP/1244/ 30.01.2020.

F2. Team member

- F2.1. „Unificarea cuantică a legăturii chimice prin funcționala densitate a electronegativității și funcția de localizare electronică cu aplicații la reactivitatea nano-sistemelor naturale complexe”, value 8.930 lei, 2006-2007, financing authority: CNCSIS, grant AT54 /

2006 (manager Putz VM).

F2.2. „Evaluarea unor formulări farmaceutice moderne obținute prin complexarea unor triterpene pentacidice cu derivați polizaharidici funcționalizați”, value 24.350 lei, 2013-2014, financing authority: UEFISCDI, grant PN II – Capacități, CT-163/22.04.2013, Modul III - proiecte bilaterale România-Ungaria (contract 674/22.IV.2013) (manager Șoica CM).

F2.3. „Recuperarea avansată a produselor utile din deșeurile de catalizatori uzați”, value 1.250.000 lei, financing authority: UEFISCDI, parteneri: ProAirCleanEcologic SA, INCD Ecolnd, coordonator Institutul de Chimie Timișoara, grant PN-II-PT-PCCA-2013-4-0612 (manager Costișor O).

F2.4. „Obtaining pentacyclic triterpene micro-crystals and pharmaceutical toxicology study of their changes in experimental models”, financing authority: UEFISCDI, grant RO-FR 2014, 791/30.VI.2014 (manager Nicolov M).

F2.5. „Formulări de avangardă pe bază de eugenol nanocapsulat cu adresabilitate în medicina dentară”, value 440.001 lei, financing authority: UEFISCDI, PN-III-P2-2.1-BG-2016-0455 (contract 122/2016) (manager Rusu L).

F3. Without competition

F3.1. „Studiu privind realizarea de îmbunătățiri ale procesului de obținere a branșurilor încălțăminte din dotarea trupelor NATO”, value 3.000 lei, 2005-2006, financing authority: SC Uretan SA Chevereșu Mare, team member (manager Bolcu C).

3. Recognition and impact of the activity

G. Citations

WOS - Core Collection Citation Report		Scopus Report	
Total publications:	102	Scopus Author Identifier:	8333700300
Citing Articles (Total):	816	Documents:	105
Citing Articles (Without self-citations):	751	Citations:	1154 / 865 docs
Times Cited (Total):	1112	Co-authors:	291
Times Cited (Without self-citations):	875		
Average Citations per Item:	10.9		
H-index:	18		
Google Scholar Report		Research Gate Report	
Citations (All):	1468	Research Interest Score:	709.7
i10-index (All):	47	Citations:	1140
h-index (All):	21	h-index:	18

Updated on April 8, 2025

H. Research awards

H.1. Article „More effective antimicrobial mastoparan derivatives, generated by 3D-QSAR-Almond and computational mutagenesis” was awarded based on PN-II-RU-PRECISI-2011-3-1371 by CNCS-UEFISCDI.

H.2. Article „Evaluation of the pharmacological descriptors related to the induction of antidepressant activity and its prediction by QSAR/QRAR methods” was awarded based on PN-II-RU-PRECISI-2012-6-0651 by CNCS-UEFISCDI.

H.3. Article „Evaluation and differentiation of the Betulaceae birch bark species and their bioactive triterpene content using analytical FT-vibrational spectroscopy and GC-MS” was awarded based on PN-II-RU-PRECISI-2012-6-1406 by CNCS-UEFISCDI.

H.4. Article „Effect of the Isoflavone Genistein on Tumor Size, Metastasis Potential and Melanization in a B16 Mouse Model of Murine Melanoma” was awarded based on PN-II-RU-PRECISI-2013-7-2895 by CNCS-UEFISCDI.

H.5. Article „Influence of emulsifiers on the characteristics of polyurethane structures used as drug carrier” was awarded based on PN-II-RU-PRECISI-2013-7-3232 by CNCS-UEFISCDI.

H.6. Article „Synthesis and preliminary in vivo evaluations of polyurethane microstructures for transdermal drug delivery” was awarded based on PN-II-RU-PRECISI-2013-7-3237 by CNCS-UEFISCDI.

H.7. Second Prize for special merits in scientific activity within the UMF "Victor Babeș" Timișoara, awarded during the UMF Days, 21-22 nov. 2013.

H.8. 30% increase in the salary (merit salary in 2014) for ISI articles published as first author in 2012.

H.9. Article „Genistein in 1:1 inclusion complexes with ramified cyclodextrins: theoretical, physicochemical and biological evaluation” was awarded based on PN-II-RU-PRECISI-2014-8-5767 by CNCS-UEFISCDI.

H.10. Article „The Synergistic Biologic Activity of Oleanolic and Ursolic Acids in Complex with Hydroxypropyl-gamma-Cyclodextrin” was awarded based on PN-II-RU-PRECISI-2014-8-6440 by CNCS-UEFISCDI.

H.11. Article „Betulinic Acid in Complex with a Gamma-Cyclodextrin Derivative Decreases Proliferation and in Vivo Tumor Development of Non-Metastatic and Metastatic B16A5 Cells” was awarded based on PN-II-RU-PRECISI-2014-8-6564 by CNCS-UEFISCDI.

H.12. Article „More Effective DPP4 Inhibitors as Antidiabetics Based on Sitagliptin Applied QSAR and Clinical Methods” was awarded based on PN-II-RU-PRECISI-2015-9-9099 by CNCS-UEFISCDI.

H.13. Article „QSAR Approaches Applied to Antidepressants Induced Neurogenesis - in vivo and in silico Applications” was

awarded based on PN-III-P1-1.1-PRECISI-2016-11861 by CNCS-UEFISCDI.

H.14. Article „Sex differences and pathology status correlated to the toxicity of some common carcinogens in experimental skin carcinoma” was awarded based on PN-III-P1-1.1-PRECISI-2016-12614 by CNCS-UEFISCDI.

H.15. Patent „Vehicul polieter-uretanic pentru transportul transdermic al unor compuși farmaceutici utilizați în stomatologie” has received Diplomă de excelență și Medalia de Aur cu mențiune specială from the organizer of Salonului Internațional al Cercetării Științifice, Inovării și Inventicii Pro Invent, Cluj-Napoca, 21-23 mar. 2018.

H.16. Patent „Vehicul polieter-uretanic pentru transportul transdermic al unor compuși farmaceutici utilizați în stomatologie” has received Diplomă de excelență și Medalia de Aur from USMF „Nicolae Testemițanu” din Republica Moldova la Salonul Internațional al Cercetării Științifice, Inovării și Inventicii Pro Invent, Cluj-Napoca, 21-23 mar. 2018.

H.17. Patent „Vehicul polieter-uretanic pentru transportul transdermic al unor compuși farmaceutici utilizați în stomatologie” has received Diplomă de excelență și Medalia de Aur from Asociația Justin Capră la Salonul Internațional al Cercetării Științifice, Inovării și Inventicii Pro Invent, Cluj-Napoca, 21-23 mar. 2018.

H.18. Patent „Vehicul polieter-uretanic pentru transportul transdermic al unor compuși farmaceutici utilizați în stomatologie” has received Diplomă și Medalia de Aur from the organizer of Salonul Internațional de Invenții și Inovații „Traian Vuia”, Timișoara, 13-15 jun 2018.

H.19. Patent „Vehicul polieter-uretanic pentru transportul transdermic al unor compuși farmaceutici utilizați în stomatologie” has received Diplomă from Balkan Managers’ Association din Republica Serbia la Salonul Internațional de Invenții și Inovații „Traian Vuia”, Timișoara, 13-15 jun 2018.

H.20. Article „Mistletoe and Garlic Extracts as Polyurethane Carriers – A Possible Remedy for Choroidal Melanoma” was awarded based on PN-III-P1-1.1-PRECISI-2018-21558 by CNCS-UEFISCDI.

H.21. Brevetul „Vehicul polieter-uretanic pentru transportul transdermic al unor compuși farmaceutici utilizați în stomatologie” was awarded based on PN-III-P1-1.1-PRECBVT-2018-0948 by CNCS-UEFISCDI.

H.22. Patent „Vehicul polieter-uretanic pentru transportul transdermic al unor compuși farmaceutici utilizați în stomatologie” has received Diplomă de excelență și Medalia de Aur from the organizer of Salonul Internațional al Cercetării Științifice, Inovării și Inventicii Pro Invent, Cluj-Napoca, 20-22 mar 2019.

H.23. Patent „Produs absorbant pentru hidrogen sulfurat si procedeu de obtinere a acestuia” has received Diplomă de excelență și Medalia Pro Invent from the organizer of Salonul Internațional al Cercetării Științifice, Inovării și Inventicii Pro Invent, Cluj-Napoca, 20-22 mar 2019.

H.24. Patent „Produs absorbant pentru hidrogen sulfurat si procedeu de obtinere a acestuia” has received Diplomă de excelență from USMF „Nicolae Testemițanu” din Republica Moldova la Salonul Internațional al Cercetării Științifice, Inovării și Inventicii Pro Invent, Cluj-Napoca, 20-22 mar 2019.

H.25. Patent „Produs absorbant pentru hidrogen sulfurat si procedeu de obtinere a acestuia” has received Diplomă și Medalia de Aur from the organizer of Salonul Internațional de Invenții și Inovații „Traian Vuia”, Timișoara, 12-14 iunie 2019.

H.26. Patent „Produs absorbant pentru hidrogen sulfurat si procedeu de obtinere a acestuia” has received Diplomă și Premiu special from ISIM Timișoara at Salonul Internațional de Invenții și Inovații „Traian Vuia”, Timișoara, 12-14 iunie 2019.

H.27. Article „Synthesis and characterization of a polyurethane carrier used for a prolonged transmembrane transfer of a chili pepper extract” was awarded based on PN-III-P1-1.1-PRECISI-2019-30438 by CNCS-UEFISCDI.

H.28. Article „Synthesis and preliminary characterization of polyurethane nanoparticles with ginger extract as a possible cardiovascular protector” was awarded based on PN-III-P1-1.1-PRECISI-2019-33423 by CNCS-UEFISCDI.

H.29. Patent „Produs absorbant pentru hidrogen sulfurat si procedeu de obtinere a acestuia” has received Diploma of Achievement and Medal INVENTICA 2020 from the organizer of XXIVth Int Exhibition of Inventions Iasi, 29-31 jul 2020.

H.30. Patent „Vehicul polieter-uretanic pentru transportul transdermic al unor compuși farmaceutici utilizați în stomatologie” has received Diploma of Achievement and Medal INVENTICA 2020 from the organizer of XXIVth Int Exhibition of Inventions Iasi, 29-31 jul 2020.

H.31. Article „Potential Therapeutic Approaches to Alzheimer's Disease By Bioinformatics, Cheminformatics And Predicted Adme-Tox Tools” was awarded based on PN-III-P1-1.1-PRECISI-2020-46936 by CNCS-UEFISCDI.

H.32. Article „Obtaining and Characterization of a Polydisperse System Used as a Transmembrane Carrier for Isosorbide Derivatives” was awarded based on PN-III-P1-1.1-PRECISI-2020-47459 by CNCS-UEFISCDI.

H.33. Article „Albendazole-cyclodextrins binary systems Thermal and spectral investigation on drug-excipient interaction” was awarded based on PN-III-P1-1.1-PRECISI-2020-49960 by CNCS-UEFISCDI.

H.34. Article „Shear wave elastography in diagnosing secondary hyperparathyroidism” was awarded based on PN-III-P1-1.1-PRECISI-2020-52914 by CNCS-UEFISCDI.

H.35. Article „Thyroid Pathology in End-Stage Renal Disease Patients on Hemodialysis” was awarded based on PN-III-P1-1.1-PRECISI-2020-52917 by CNCS-UEFISCDI.

H.36. Article „TI-RADS Diagnostic Performance: Which Algorithm is Superior and How Elastography and 4D Vascularity Improve the Malignancy Risk Assessment” was awarded based on PN-III-P1-1.1-PRECISI-2020-52920 by CNCS-UEFISCDI.

H.37. Patent „Polyether-urethane carrier for the transdermal transport of pharmaceutical compounds used in dentistry” has received Silver Diploma from the organizer of International Exhibition Inventcor Deva, 17-19 dec 2020.

H.38. Patent „Hydrogen sulfide adsorbent product and the procedure for its obtaining” has received Gold Diploma from the organizer of International Exhibition Inventcor Deva, 17-19 dec 2020.

H.39. Article „Melissa officinalis L. Aqueous Extract Exerts Antioxidant and Antiangiogenic Effects and Improves Physiological Skin Parameters” has been registered the appl. PN-III-P1-1.1-PRECISI-2021-60186 către CNCS-UEFISCDI.

H.40. Article „Solid Polymeric Nanoparticles of Albendazole: Synthesis, Physico-Chemical Characterization and Biological Activity” has been registered the appl. PN-III-P1-1.1-PRECISI-2021-60237 către CNCS-UEFISCDI.

H.41. Patent „Produs absorbant pentru hidrogen sulfurat si procedeu de obtinere a acestuia” was awarded based on PN-III-P1-1.1-PRECBVT-2021-3160 by CNCS-UEFISCDI.

H.42. Article „Natural Preparations Based on Orange, Bergamot and Clove Essential Oils and Their Chemical Compounds as Antimicrobial Agents” has been registered the appl. PN-III-P1-1.1-PRECISI-2021-62413 către CNCS-UEFISCDI.

H.43. Article „The Value of Strain Elastography in Predicting Autoimmune Thyroiditis” has been registered the appl. PN-III-P1-1.1-PRECISI-2021-67143 to CNCS-UEFISCDI.

H.44. Article „Oleogel Formulations for the Topical Delivery of Betulin and Lupeol in Skin Injuries - Preparation, Physicochemical Characterization, and Pharmacotoxicological Evaluation” has been registered the appl. PN-III-P1-1.1-PRECISI-2021-67401 to CNCS-UEFISCDI.

H.45. Patent „Produs absorbant pentru hidrogen sulfurat si procedeu de obtinere a acestuia” has received Diplomă de excelență și Medalia Pro Invent from the organizer of Salonul Internațional al Cercetării Științifice, Inovării și Inventicii Pro Invent, Cluj-Napoca, 20-22 octombrie 2021.

H.46. Article „Natural Emulsions Based on Essential Oils as Antifungal and Antimycotoxicogenic Agents on Wheat for Bakery Industry” has been registered the appl. PN-IV-P2-2.3-PRECISI-2023-75024 to CNCS-UEFISCDI.

H.47. Article „Phytochemical Characterization and Biological Evaluation of Origanum vulgare L. Essential Oil Formulated as Polymeric Micelles Drug Delivery Systems” has been registered the appl. PN-IV-P2-2.3-PRECISI-2023-76542 to CNCS-UEFISCDI.

H.48. Article „In Vitro Assessment of the Cytotoxic and Antiproliferative Profile of Natural Preparations Containing Bergamot, Orange and Clove Essential Oils” has been registered the appl. PN-IV-P2-2.3-PRECISI-2023-82290 to CNCS-UEFISCDI.

H.49. Article „Design and Assessment of a Polyurethane Carrier Used for the Transmembrane Transfer of Acyclovir” has been registered the appl. PN-IV-P2-2.3-PRECISI-2023-83571 to CNCS-UEFISCDI.

H.50. Article „Hydrosoluble and Liposoluble Vitamins: New Perspectives through ADMET Analysis” has been registered the appl. PN-IV-P2-2.3-PRECISI-2023-86812 to CNCS-UEFISCDI.

4. Other activities

I. Scientific meetings

I1. Full papers

I1.1. Vlase G, **Borcan F**, Bolcu C, Doca N, Vlase T. Thermal stability of different polyurethane compositions by means of non-isothermal kinetics. *European Conference on Calorimetry and Thermal Analysis for Environment, Zakopane (Polonia), 06-11.IX.2005*, p. 95-100.

I1.2. Pitulice L, Chiriac A, Isac D, **Borcan F**. The investigation of Romania's air quality state and the Environmental Performance Index. *1st International Conference "Research People and Actual Tasks on Multidisciplinary Sciences", Lozenec (Bulgaria) 06-08.VI.2007*, p. 107-111, ISBN 978-954-91147-3-7.

I1.3. Bolcu C, **Borcan F**, Davidescu D, Campean G. The study of a biostimulating composition with a possible foliage application to a large group of agrarian crops. *1st International Conference "Research People and Actual Tasks on Multidisciplinary Sciences", Lozenec (Bulgaria) 06-08.VI.2007*, p. 262-266, ISBN 978-954-91147-3-7.

I1.4. Bolcu C, **Borcan F**, Nuțiu R. The microcelular polyurethane elastomers used to obtain high elasticity joint. *1st International Conference "Research People and Actual Tasks on Multidisciplinary Sciences", Lozenec (Bulgaria) 06-08.VI.2007*, p. 258-261, ISBN 978-954-91147-3-7.

I1.5. Simu GM, Dragomirescu A, Dehelean CA, **Borcan F**. In vivo study of the efficiency of a cosmetic emulsion containing acetyl tetrapeptide-5. *5th Symposium „New trends and strategies in the chemistry of advanced materials”, Timișoara, 03-04.XI.2011*, p. 56-61, ISSN 2065-0760.

I1.6. **Borcan F**, Șoica CM. Drug delivery system based on poly(ether urethane) used for topic application. *5th Symposium „New trends and strategies in the chemistry of advanced materials”, Timișoara, 03-04.XI.2011*, p. 70-75, ISSN 2065-0760.

I2. Abstracts

I2.1. **Borcan F**, Bolcu C. Descompunerea termică a compușilor staniului (II). *Conferința Națională de Chimie, Călimănești-Căciulata, 06-08.X.2004*, p. 42, ISBN 973-8488-74-5.

I2.2. Bolcu C, **Borcan F**. Sisteme polimerice utilizate pentru protecția anticorozivă a conductelor petroliere. *Conferința Națională de Chimie, Călimănești-Căciulata, 06-08.X.2004*, p. 62, ISBN 973-8488-74-5.

I2.3. Bolcu C, **Borcan F**. Studii privind sinergismul stabilizatorilor utilizați în domeniul poliuretanilor. *Conferința Națională de Chimie, Călimănești-Căciulata, 06-08.X.2004*, p. 269, ISBN 973-8488-74-5.

I2.4. **Borcan F**, Bolcu C. Aplicații ale stabilizării termo- și foto-oxidative reactive în domeniul poliuretanilor. *Conferința Națională de Chimie, Călimănești-Căciulata, 06-08.X.2004*, p. 293, ISBN 973-8488-74-5.

I2.5. Bolcu C, **Borcan F**. Adeziv poliuretan pentru lipirea cablurilor autoturismelor. *Zilele Academice Timișene, Timișoara, 26-27.V.2005*, p. 108.

I2.6. Bolcu C, **Borcan F**. Poliuretan pentru curele de transmisie auto. *Zilele Academice Timișene, Timișoara, 26-27.V.2005*, p. 154.

I2.7. Bolcu C, **Borcan F**. Efficient methods for photostabilization of the polyurethanes. *The 8th Polymers for Advanced Technologies International Symposium, Budapesta (Ungaria), 13-16.IX.2005*, p. 97.

I2.8. Bolcu C, **Borcan F**, Nuțiu R. Considerations regarding the thermal stability of the urethane and alophanate groups from thermal-oxidative stabilized polyurethanes. *1st European Chemistry Congress, Budapesta (Ungaria), 27-31.VIII.2006*, p. 281, ISBN 963-9319-61-9.

I2.9. Bolcu C, **Borcan F**, Nuțiu R. Bicomponent Polyurethane System Used for Manufacture of the Gasket Packing which Work at High Pressures in Mineral Oil. *12th International Conference of Physical Chemistry, București, 6.IX.2006*, p. 156.

I2.10. Bolcu C, **Borcan F**, Nuțiu R. Correlation of the Rheological Properties of the Bicomponent Polyurethane Adhesives with the Physical and Mechanical Properties of the Elastic Junctions Made with Them. *12th International Conference of*

Physical Chemistry, București, 6.IX.2006, p. 156.

I2.11. Bolcu C, **Borcan F**, Nuțiu R, Dehelean T. Bicomponent polyurethane system used for manufacture of fittings which work at high pressures in mineral oil. *Zilele Academice Timișene, Ediția a X-a, Timișoara, 24-25.V.2007*, p. 17, ISBN 978-973-52-0130-2.

I2.12. Bolcu C, **Borcan F**, Nuțiu R. Correlations between rheological properties - physical and mechanical properties for elastic junctions with bicomponent polyurethane adhesives. *European Polymer Congress, Portorož (Slovenia) 02-06.VII.2007*, p. 279, ISBN 978-961-90731-7-9.

I2.13. Bolcu C, **Borcan F**, Nuțiu R. Comparative study of additive and reactive thermal-oxidative stabilization of the polyurethanes. *European Polymer Congress, Portorož (Slovenia) 02-06.VII.2007*, p. 279, ISBN 978-961-90731-7-9.

I2.14. **Borcan F**, Bolcu C, Nuțiu R. Obținerea unor materiale poliuretane utilizate ca suporturi de substanțe antisepice. *Zilele Academice Ieșene, Iași, 26-29.IX.2007*, p. 24.

I2.15. **Borcan F**, Filimon N, Bolcu C, Nuțiu R. Polyurethane foam with antimicrobial activity. *48th Microsymposium: Polymer Colloids From Design to Biomedical and Industrial Applications, Praga (Rep. Ceha), 20-24.VII.2008*, p. 181, ISBN 978-80-85009-57-6.

I2.16. Bolcu C, **Borcan F**, Vlase T, Doca N, Jurcău D. Mixed thermal-oxidative stabilization – a modern method for the polyurethane stabilization. *Zilele Academice Timișene, Ediția a XI-a, Timișoara, 28-29.V.2009*, p. 43, ISBN 978-973-52-0630-7.

I2.17. **Borcan F**, Bolcu C, Vlase T, Doca N. New proofs of the polyurethane foams degradation mechanism. *Zilele Academice Timișene, Ediția a XI-a, Timișoara, 28-29.V.2009*, p. 44, ISBN 978-973-52-0630-7.

I2.18. **Borcan F**, Dehelean CA, Anghel A. New Poly(Ether Urethane) Nanocapsules As Drug Carriers For Topic Application. *Advances in Polymer Science and Technology, Linz (Austria), 28.IX-01.X.2011*, p. 22, ISBN 978-3-85499-907-2.

I2.19. Șoica C, Trandafirescu C, **Borcan F**, Danciu C, Avram S, Ambrus R, Zupko I, Ledeti I, Fuliș A, Dehelean C. Inclusion complexes between pentacyclic triterpenes and amphiphilic cyclodextrins: synthesis and physico-chemical and pharmacological analysis. *3rd World Conference on Physico-Chemical Methods in Drug Discovery and Development, Dubrovnik (Croatia), 22-26.IX.2013*, p. 68.

I2.20. Trandafirescu C, Gheorgheosu D, **Borcan F**, Oprean C, Ionescu D. Preliminary evaluation of the synergistic activity of lupeol and betulin. *UV Radiation and Skin Pathology, workshop Timișoara 2014*, p. 18, ISBN 978-606-8456-32-4.

I2.21. Pînzaru I, Mioc M, Șoica C, **Borcan F**, Dehelean C, Gheorgheosu D. Oleanolic acid derivatives with ester structure and their activity against photochemical skin carcinoma. *UV Radiation and Skin Pathology, workshop Timișoara 2014*, p. 19, ISBN 978-606-8456-32-4.

I2.22. Oprean C, Bojin F, Șoica C, Trandafirescu C, **Borcan F**, Mioc M, Dehelean C, Păunescu V. Antitumor activity of betulinic acid on A375 human melanoma cells. *UV Radiation and Skin Pathology, workshop Timișoara 2014*, p. 29, ISBN 978-606-8456-32-4.

I2.23. Oprean C, Bojin F, Șoica C, Trandafirescu C, **Borcan F**, Mioc M, Dehelean C, Păunescu V. Ursolic and oleanolic acid's effects on Ki-67 cellular marker. *UV Radiation and Skin Pathology, workshop Timișoara 2014*, p. 30, ISBN 978-606-8456-32-4.

I2.24. **Borcan F**, Șoica CM, Pînzaru I, Dehelean CA. Physico-chemical and in vivo characterization of a modern betulin-containing polycarbamate nanocarrier. *UV Radiation and Skin Pathology, workshop Timișoara 2014*, p. 38, ISBN 978-606-8456-32-4.

I2.25. **Borcan F**. In vivo characterization of novel polyurethane nanogels based on free fatty acids. *UV Radiation and Skin Pathology, workshop Timișoara 2014*, p. 45, ISBN 978-606-8456-32-4.

I2.26. Ciurlea SA, Ardelean S, **Borcan F**, Ionescu D. The role of UV-VIS analysis in evaluation study of the purity of natural compounds. *UV Radiation and Skin Pathology, workshop Timișoara 2014*, p. 47, ISBN 978-606-8456-32-4.

I2.27. Trandafirescu C, Oprean C, Ardelean S, **Borcan F**, Ciurlea S. Toxicological evaluation of some nanoparticles with potential biological activity. *UV Radiation and Skin Pathology, workshop Timișoara 2014*, p. 48, ISBN 978-606-8456-32-4.

I2.28. Danciu C, Pavel IZ, **Borcan F**, Șoica C, Zupko I, Csányi E, Avram S, Coricovac D, Dehelean CA. In vitro biological evaluation of polyurethane microstructures genistein based formulation. *63rd International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA2015), Budapest, 23-27.VIII.2015. Planta Med 2015; 81 - PM_202*, DOI: 10.1055/s-0035-1565579.

I2.29. **Borcan F**, Andrica F, Tita B. Study of lupeol release from a polyurethane carrier. *Natural Products as a Source of Compounds with Chemopreventive and Anti-Inflammatory Activity (International Workshop of the Romanian-French Bilateral Project PN II-CT-789/30.06.2014, Timisoara, 10.VII.2015*, p. 50, ISBN 978-606-8456-67-6.

I2.30. **Borcan F**, Andrica F, Tita B. Degradation of polyurethane dendrimers used as drug delivery system. *Natural Products as a Source of Compounds with Chemopreventive and Anti-Inflammatory Activity (International Workshop of the Romanian-French Bilateral Project PN II-CT-789/30.06.2014, Timisoara, 10.VII.2015*, p. 50, ISBN 978-606-8456-67-6.

I2.31. **Borcan F**, Borcan LC, Tita B, Ledeti A. Assessment of degradation products of polyurethane-based nanoparticles used as a drug delivery system. *The importance of using micro crystals in therapy, workshop Timisoara 2015*, p. 15-17, ISBN 978-606-8456-86-7.

I2.32. Pînzaru I, Coricovac D, **Borcan F**, Dehelean C. Blue light effects in an animal model. *The importance of using micro crystals in therapy, workshop Timisoara 2015*, p. 58-60, ISBN 978-606-8456-86-7.

I2.33. Munteanu MF, Orasan-Alic VE, Trifunșchi SI, Ardelean SA, Coricovac D, Borcan LC, **Borcan F**. Study on different penetrability of nano- and microparticles. *8th International Conference and Exhibition on Pharmaceuticals&Novel Drug Delivery Systems. Madrid, 07-07.III.2016. Pharm Anal Acta 2016; 8(2 Suppl):123*, DOI: 10.4172/2153-2435.C1.028.

I2.34. Munteanu MF, Gligor R, Borcan L-C, **Borcan F**. Influence of some herbal extracts on the occupational lung disease. *2nd International Conference and Exhibition on Pharmacology and Ethnopharmacology, Chicago, 02-04.05.2016. Clin Exp Pharmacol 2016, 6(2 Suppl): 85*, DOI: 10.4172/2161-1459.C1.011.

I2.35. Antal DS, Pînzaru I, **Borcan F**, Ledeti I, Dehelean CA, Șoica C, Ollivier E. Inclusion complexes of the aurone

sulfuretin in two cyclodextrin types: preparation and analytical data. *Phytocompounds and extracts from biodiversity: scaffolds for new products with anti-inflammatory and chemopreventive activity, workshop Timișoara 2016*, p. 11, ISBN 978-606-786-024-5.

I2.36. **Borcan F**, Borcan L-C, Cîrcioaban D, Ledeti A. Effect of pH on the degradation of a polyurethane drug delivery system. *Phytocompounds and extracts from biodiversity: scaffolds for new products with anti-inflammatory and chemopreventive activity, workshop Timișoara 2016*, p. 15, ISBN 978-606-786-024-5.

I2.37. Cîrcioaban D, Ledeti A, Ledeti I, **Borcan F**, Dehelean C. Artemisinin – preliminary physico-chemical analysis. *Phytocompounds and extracts from biodiversity: scaffolds for new products with anti-inflammatory and chemopreventive activity, workshop Timișoara 2016*, p. 29, ISBN 978-606-786-024-5.

I2.38. Cîrcioaban D, Ledeti A, Ledeti I, **Borcan F**, Dehelean C. Isoconversional kinetic analysis for thermal degradation of quercetin. *Phytocompounds and extracts from biodiversity: scaffolds for new products with anti-inflammatory and chemopreventive activity, workshop Timișoara 2016*, p. 30, ISBN 978-606-786-024-5.

I2.39. Trandafirescu C, Ledeti A, **Borcan F**, Soica C, Dehelean C, Ledeti I. Solid-state characterization of albendazole–complex binary systems with pharmaceutical excipients. *7th BBBB International Conference on Pharmaceutical Sciences, October 5-7, 2017, Balatonfüred, Hungary, Book of abstracts*, p. 150.

I2.40. Cîrcioaban D, Ledeti I, Vlase G, Ledeti A, Vlase T, **Borcan F**, Axente C, Borcan C, Dehelean C. Guest-host interactions and complex formation for artemisinin with cyclodextrins. *13th Mediterranean Conference on Calorimetry and Thermal Analysis (Medicta 2017), 24-27.IX.2017, Loano (SV), Italy, Book of abstracts*, p. 62.

I2.41. Pinzaru IA, Rusu L, Dehelean CA, Coricovac D, **Borcan F**. Evaluation of eugenol polyurethane nanostructures toxicological statement. *Eurotox October 2017, Bratislava*. DOI: 10.1016/j.toxlet.2017.07.958

I2.42. Albulescu RC, Borcan LC, **Borcan F**. Polymer microparticles with mistletoe extract as an alternative remedy for ocular hypertension. Siguranța produselor pe bază de plante medicinale / Safety of medicinal plants products. Rezumate manifestări în cadrul proiectului CNFIS-FDI-2018-0159, 2018. p. 11. ISBN 978-606-786-104-4.

I2.43. Borcan LC, Albulescu RC, **Borcan F**. Polyurethane microparticles with garlic extract as an alternative therapy for high blood pressure. Siguranța produselor pe bază de plante medicinale / Safety of medicinal plants products. Rezumate manifestări în cadrul proiectului CNFIS-FDI-2018-0159, 2018. p. 14. ISBN 978-606-786-104-4.

I2.44. **Borcan F**, Borcan LC, Albulescu RC. Study on the polyurethane dendrimers behaviour at different pH. Siguranța produselor pe bază de plante medicinale / Safety of medicinal plants products. Rezumate manifestări în cadrul proiectului CNFIS-FDI-2018-0159, 2018. p. 16. ISBN 978-606-786-104-4.

I2.45. Tanase IM, Ledeti AV, Dragomirescu AO, Suta LM, Cîrcioaban D, Axente C, **Borcan F**, Ledeti IV. Preliminary characterization of some loaded polyurethanes used as adsorbents for bioactive compounds from plant extracts. Siguranța produselor pe bază de plante medicinale / Safety of medicinal plants products. Rezumate manifestări în cadrul proiectului CNFIS-FDI-2018-0159, 2018. p. 44. ISBN 978-606-786-104-4.

I2.46. Preda M, Pinzaru I, Coricovac D, **Borcan F**, Dehelean C. Green isolation of bioactive compounds from birch bark extracts and modern formulations. Siguranța produselor pe bază de plante medicinale / Safety of medicinal plants products. Rezumate manifestări în cadrul proiectului CNFIS-FDI-2018-0159, 2018. p. 75. ISBN 978-606-786-104-4.

I2.47. **Borcan F**, Albulescu RC, Chirita-Emandi A, Andreescu N. Comparative study on the behavior of different polyurethane nanostructures. *International Summer Schools on N&N, OE & Nanomedicine, 3-10.VII.2021, Thessaloniki, Greece*.

I2.48. **Borcan F**, Albulescu RC, Chirita-Emandi A. pH-responsive carrier based on polymer particle. *International Conference on Lipid-Based Nanocarriers for Drug Delivery. 12-13.VIII.2021, Venice, Italy*.

I2.49. **Borcan F**, Albulescu RC, Chirita-Emandi A. Affinity effects on the release of genetic material from polyether-urethane particles. *4th edition of Global Conference on Pharmaceuticals and Drug Delivery Systems. 06-07.IX.2021, Roma, Italy (online)*.

I2.50. **Borcan F**, Albulescu RC. Synthesis and characterization of polyester-urethane nanoparticles with possible application as a DNA carrier. *9th Monolith Summer Symposium, 13-17.VI.2022, Portoroz, Slovenia*, p. 56.

I2.51. **Borcan F**, Popescu R, Andreescu NI, Chirita-Emandi A. Studies on dissolution enhancement and cumulative drug release of polyurethane nanoparticles used as a DNA carrier. *European Polymer Congress, 26.VI-01.VII.2022, Prague, Czech Rep.*, p. 11.

I2.52. **Borcan F**, Popescu R, Andreescu NI, Chirita-Emandi A. Synthesis and characterization of polyurethane dendrimers and nanoparticles with possible application as a DNA carrier. *International Summer Schools on N&N, OE & Nanomedicine, 2-9.VII.2022, Thessaloniki, Greece*, p. 18.

I3. Other international meetings

I3.1. **Borcan F**, Bolcu C, Davidescu D, Campean G. News regarding ways to obtain some of the latest foliage fertilizer. *Al VII-lea Simpozion International Romania-Serbia&Munteneagu-Ungaria, Reșița, 22-23.IX.2005*.

I3.2. **Borcan F**, Bolcu C. Original polyurethane systems used to obtain the frontly injected shoe soles. *Al VII-lea Simpozion International Romania-Serbia&Munteneagu-Ungaria, Reșița, 22-23.IX.2005*.

I3.3. **Borcan F**, Dehelean CA, Anghel A. Syntheses of polyurethane nanocapsules for transdermal drug delivery. *European Conference for Academic Disciplines Gottenheim (Germania), 28.XI-03.XII.2010*.

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I3.5. **Borcan F**, Șoica CM. Polyurethane nanostructures used as drug carrier for pentacyclic triterpenes in cancer therapy. *76th Prague Meeting on Macromolecules, Praga (Rep. Ceha), 01-05.VII.2012*.

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I3.7. Șoica C, Fuliș A, Ledeti I, Vlase G, Trandafirescu C, **Borcan F**, Simu G, Dehelean C. Synthesis and Thermal Behaviour of New Ambazone Complexes with some Transitional Metals. *2nd Central and Eastern European Conference on*

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I3.8. **Borcan F**, Albulescu RC, Chirita-Emandi A, Andreescu N. Comparative study on the behavior of different polyurethane nanostructures. *15th International Summer Schools on N&N, OE & Nanomedicine (ISSON21) 03-10.VII.2021, Thessaloniki, Greece.*

I3.9. **Borcan F**, Albulescu RC, Chirita-Emandi A. pH-responsive carrier based on polymer particle. *XV International Lipid-Based Nanocarriers for Drug Delivery Conference, 12-13.VIII.2021, Venice, Italy.*

I3.10. **Borcan F**, Albulescu RC, Chirita-Emandi A. Affinity effects on the release of genetic material from polyether-urethane particles. *4th Edition of Global conference on Pharmaceuticals and Drug Delivery Systems, 06-07.IX.2021, Rome, Italy.*

I3.11. **Borcan F**, Albulescu RC A. Synthesis and characterization of polyester-urethane nanoparticles with possible application as a DNA carrier. *9th Monolith Summer Symposium (MSS2022), 13-17.VI.2022, Portoroz (Slovenia).*

I3.12. **Borcan F**, Popescu R, Andreescu NI, Chirita-Emandi A. Studies on dissolution enhancement and cumulative drug release of polyurethane nanoparticles used as a DNA carrier. *EPF European Polymer Congress, 26.VI-01.VII.2022, Prague, Czech Rep.*

I3.13. **Borcan F**, Popescu R, Andreescu NI, Chirita-Emandi A. Synthesis and characterization of polyurethane dendrimers and nanoparticles with possible application as a DNA carrier. *16th International Summer Schools on N&N, OE & Nanomedicine (ISSON22) 02-09.VII.2022, Thessaloniki, Greece.*

I3.14. Albulescu RC, Borcan LC, **Borcan F**. Polyurethane Nanocarrier System for Sustained Delivery of Natural Extracts in Teething Pain Management. *ÖPhG-EUFEPS Meeting, 19-21.II.2025, Vienna, Austria.*

14. Other national meetings

I4.1. **Borcan F**, Șoica CM, Dehelean CA. Prepararea și caracterizarea unui vehicul polimeric utilizat în transportul transdermic al acidului betulinic. *Actualități și perspective în cercetarea farmaceutică, Craiova, 26-28.IX.2012.*

I4.2. Simu GM, Dragomirescu A, Dehelean CA, **Borcan F**. Studiu mexametric privind eficacitatea anti-cearcă a unei emulsii cosmetice conținând Eyeseryl. *Actualități și perspective în cercetarea farmaceutică, Craiova, 26-28.IX.2012.*

I4.3. Trandafirescu CM, Gyéresi A, Șoica C, Szabadai Z, Aigner Z, Oprean C, **Borcan F**, Kata M. Solid-State Characterization of Bifonazole - β -Cyclodextrin Binary Systems. *Congresul Național de Farmacie din România, Iași, 24-27.IX.2014.*

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I4.6. Redeș (Crăciun) L, **Borcan F**, Ardelean S. Preparation and Characterization of Polycarbamate Nanostructures Used for Transmembrane Transport of Lupeol. *Congresul Național de Farmacie din România, Iași, 24-27.IX.2014.*

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I4.8. **Borcan F**. Implementarea unor noi direcții de biosinteză cu dublă funcționalizare pentru triterpene pentaciclice cu potențial antitumoral. *Zilele Academice Timișene, Timișoara, 28.V.2015.*

15. Training programs

I5.1. Instrument de analiză termică - calorimetrul cu scanare cu baleiaj (DSC 1 - Mettler-Toledo, Elvetia).

I5.2. Dispozitive de determinare a mărimii și stabilității particulelor coloidale - modul Vasco și Wallis (Zetasizer - Cordouan Technol., Franta).

I5.3. Cromatografie de lichide la înalta presiune - HPLC / MS (Agilent 6100, USA).

I5.4. Instrumente neinvazive de testare a pielii - sonde de măsurare a TWL, eritemului, melaninei, hidratării, strălucirii, culorii, pH-ului, elasticității (Courage-Khazaka, Germania).

I5.5. Curs postuniversitar practic de Real-Time PCR, organizat de UMFVBT, 28-30.IX.2009.

I5.6. Program de inițiere (40 ore) pentru ocupația „inspector în domeniul securității și sănătății în muncă” organizat de SC Gilal SRL; certificat recunoscut de Min. Muncii, Familiei și Protecției Sociale și Min Educației, Cercetării, Tineretului și Sportului, emis în 31.VII.2013.

I5.7. „Moștenirea lui Eugene Garfield - aflați despre istoria unică a Web of Science”, Webex Online Clarivate Analytics, 09.II.2018, enformation.

I5.8. „Cum se pot identifica sursele de finanțare”, Webex Online Clarivate Analytics, 19.II.2018, enformation.

I5.9. „Aflați cum să creați și să consolidați un profil autor (ORCID / RID) pentru a fi în conformitate cu cerințele pentru autori al editorilor și al finanțatorilor”, Webex Online Clarivate Analytics, 23.II.2018, enformation.

I5.10. „Aflați cum să gestionați referințe cu EndNote Online”, Webex Online Clarivate Analytics, 07.III.2018, enformation.

I5.11. „Open Session”, Webex Online Clarivate Analytics, 03.V.2018, enformation.

I5.12. Workshop – The best way to design and formulate MCQ. UMFT, Timișoara, 28-29.VI.2018

I5.13. „Identificarea, utilizarea și analiza conținutului Open Access in Web of Science”, Webex Online Clarivate Analytics, 18.XII.2018, enformation.

I5.14. „Unde ar trebui să public?” Webex Online Clarivate Analytics, 12.II.2019, enformation.

I5.15. Webex Clarivate Analytics: Unde să publici: utilizarea Journal Impact Factor, 23.IV.2019.

I5.16. 13th Central European Training School on Neutron Techniques, organized by Budapest Neutron Centre and the Hungarian Academy of Sciences, 05-10.V.2019

I5.17. Webex Clarivate Analytics: Author Records sunt acum disponibili în Web of Science, 31.X.2019.

- 15.18. Webex Clarivate Analytics: Informații despre Open Access de la Web of Science, 12.XI.2019.
- 15.19. Webex Web of Science: Identifică cercetarea de top cu Essential Science Indicators (ESI), 27.III.2020.
- 15.20. Webex Web of Science: Noutăți Journal Citation Reports și InCites Benchmarking & Analytics, 16.IV.2020.
- 15.21. Webex Web of Science: Aprofundează cunoștințele în domeniul tău de cercetare cu Web of Science, 24.IV.2020.
- 15.22. Webex Web of Science: Opțiunile de căutare a lucrărilor unui autor în Web of Science, 14.V.2020.
- 15.23. Webex Web of Science: Găsește revista potrivită în care să publici, 22.VI.2020.
- 15.24. Webex Web of Science: Ediția 2021 a Journal Citation Reports, 27.X.2021.
- 15.25. 11th Annual Course on the Blood-Brain Barrier in Drug Development (online) 20-29.X.2021.
- 15.26. Webex Web of Science: Analiza finanțării activităților de cercetare, 31.I.2023.
- 15.27. Webex Web of Science: Sprijinirea inițiativelor de cercetare deschisă cu date de încredere și instrumente scalabile 27.II.2023.
- 15.28. Trend & Training. Digitalization of universities, 23.XI.2023.
- 15.29. Trend & Training. Modern library: Challenges, achievements, ideas. Digital transformation of libraries in practice, 30.XI.2023.
- 15.30. Trend & Training. Digital competencies and skills: challenges and practice of development, 29.I.2024.
- 15.31. Trend & Training. Digitalization of the educational process, 25.III.2024.
- 15.32. Trend & Training. Digitalization of universities, 18.IV.2024.
- 15.33. Trend & Training. Modern library: challenges, achievements, ideas, 24.IX.2024.
- 15.34. Webex Clarivate: Perimetrul Web of Science Core Collection, 19.XI.2024.
- 15.35. Webex Clarivate: Extinderea căutării de conținut specializat dincolo de Core Collection, 19.III.2025.

J. Scientific reviewer & Guest Editor - Special Issue

Peer Review (wos/record/381779): **83**

MDPI 2018-2023 (mdpi.com/user/reviewer) **38**

1. *Usage of Biopolymers in Medical Applications* - a special issue of **Journal of Functional Biomaterials** (ISSN 2079-4983). This special issue belongs to the section "Biomaterials for Drug Delivery". Deadline for manuscript submissions 28 February 2023 | Viewed by 4246. https://www.mdpi.com/journal/jfb/special_issues/1X307OG98A

2. *Recent Advances in Carriers for Drug Delivery: From Structures to Functionality* - a special issue of **Pharmaceutics** (ISSN 1999-4923). This special issue belongs to the section "Drug Delivery and Controlled Release". Deadline for manuscript submissions: 31 August 2023 | Viewed by 22418. https://www.mdpi.com/journal/pharmaceutics/special_issues/S9ND5089WG

K. Articles in other journals

- K.1. **Borcan F**, Bolcu C. Uretani și poliuretani – aspecte generale. *Cercul Principiilor I*, **2007**, 133-147.
- K.2. Isac D, **Borcan F**, Chiriac A, Pitulice L. Contributii internationale la dezvoltarea chimiei in prima parte a etapei moderne (1774-1850) din istoria chimiei. *CHIMMAX*, **2007**, II(3), 1-4.
- K.3. Isac D, **Borcan F**, Chiriac A, Minea R. In memoriam academician Coriolan Dragulescu. *CHIMMAX*, **2007**, II(4), 4-8.
- K.4. Isac D, Pitulice L, Putz MV, **Borcan F**. Interpretarea reactivitatii chimice a propenei folosind calcule cuantomecanice. *CHIMMAX*, **2007**, II(4), 23-27.
- K.5. **Borcan F**, Pitulice L, Isac D. Aspecte din filosofia si pedagogia lui J.H. Pestalozzi (1746-1827). *CHIMMAX*, **2009**, IV(7), 7-13.
- K.6. Bolcu C, Preda G, Albulescu M, Modra D, **Borcan F**, Isac D. Subiecte date la concursul „G. Ostrogovich” editia a XIV-a (17.V.2008) - ciclul superior de liceu. *CHIMMAX*, **2009**, IV(7), 76-80.
- K.7. **Borcan F**. Noaptea unui chimist. *Revista Iulia*, **2011**, XI, 26-27.
- K.8. **Borcan F**, Bolcu C, Filimon N, Bandur G. Synthesis and characterisation of polyurethane with antimicrobial properties. *PU Magazine*, **2012/13**, 9(6), 392-395.

L. Local meetings

- L.1. **Borcan F**. Reacții de transpoziție în chimia organică. *Sesiunea Cercurilor Științifice Studentești a Univ. De Vest din Timișoara, Fac. de Chimie*, 30.V.2003.
- L.2. **Borcan F**, Bolcu C. The syntheses of electro isolating polyurethane duromers. *The 9th International Symposium for Students in Chemistry, Timișoara*, 25.XI.2004.
- L.3. **Borcan F**. Uretani – Poliuretani. Aspecte generale. *Cercul Științific: Cercul Principiilor, UVT – CBG, Timișoara*, 27.I.2005.
- L.4. **Borcan F**, Dancea A, Bolcu C, Duda-Seiman C. The determination of –NCO group reactivity using QSAR properties – a base criterion for the reactive stabilization of the polyurethane. *The 10th International Symposium for Students in Chemistry, Timișoara*, 08.XII.2005.
- L.5. **Borcan F**, Bolcu C, Nuțiu R. Studii privind obținerea unor poliuretani acoperiți cu strat antimicrobian. *INCEMC – 10 ani de existență, Timișoara*, 19-20.IV.2007, p. 11.
- L.6. Ciornei A, **Borcan F**, Șoica CM. Organic synthesis of polymer nanoparticles used as carriers for substances with anticancer potential. *Medis 2012, Timișoara*, 17-20.V.2012.
- L.7. Tămășan A, Szenasi A, **Borcan F**, Dehelean CA. Theoretical and in vivo study of pentacyclic triterpene

compounds with anticancer potential. *Medis 2012, Timișoara, 17-20.V.2012.*

L.8. Bencze R, **Borcan F**, Șoica CM. Innovative methods in drug administration. *Medis 2012, Timișoara, 17-20.V.2012.*

M. Scientific adviser of Bachelor theses

M.1. Iuga Anna Marina. Obținerea și analiza unor nanoparticule cu acid oleanolic. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2014.*

M.2. Bhouri Ghassen. Reglarea vitezei de livrare a unui medicament prin modificarea fazei apoase a unui carrier poliuretanic. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2015.*

M.3. Turki Skander. Optimizarea dimensiunii structurilor polimerice utilizabile ca sistem de livrare de medicament. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2015.*

M.4. Lupu Carmen-Alexandra. Influența componentei organice asupra proprietăților unor particule poliuretanic utilizabile în transportul transmembranar. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2016.*

M.5. Cican Sorana. Structuri de tip copolimer utilizabile ca sistem de transport de medicamente. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2016.*

M.6. Rotariu Beatrice-Roxana. Obținerea și caracterizarea unor poliplecși utilizabili în terapia genică. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2016.*

M.7. Tămârș Ileana-Florentina. Optimizarea dimensiunilor structurilor polimerice utilizabile în transportul transmembranar. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2016.*

M.8. Cosmulescu Cristina-Eugenia. Sinteza și caracterizarea comparativă a două sisteme polimerice de livrare de medicament. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2017.*

M.9. Mammad Youssef. Sisteme de livrare de medicamente pe bază de hidroxiapatită. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2017.*

M.10. Rouis Haifa. Studiul unor indicatori acido-bazici neconvenționali. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2017.*

M.11. Ouercheffani Skeik Walid. Degradarea termică a unor sisteme polimerice de transport de substanțe farmaceutice. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2018.*

M.12. Helali Nizar. Polimeri vs. copolimeri în sinteza unor structuri utilizabile ca transportori de substanțe biologice active. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2018.*

M.13. Ghassen Hadidane. Influența grupărilor alofanat asupra proprietăților unor nanostructuri poliuretanic. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2018.*

M.14. Idoikrim Youssef. Nanoparticule vs. dendrimeri poliuretanic in transportul transmembranar. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2020.*

M.15. Oussi Abdellah. Cresterea solubilitatii nanoparticulelor poliuretanic prin utilizarea unor derivati trifunctionali. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2020.*

M.16. Bassem Aguir. Imbunatatirea proprietatilor prin modificari structurale ale nanoparticulelor poliuretanic. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2020.*

M.17. Lassidi Kouthair. COVID-19 și propagarea sa în Franța. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2021.*

M.18. Rami Lazreg. Aspecte medicale ale crizei COVID-19 în Statele Unite ale Americii. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2021.*

M.19. Majdoub Mohamed. Aspecte statistice cu privire la pandemia COVID-19 în Anglia. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2022.*

M.20. El Mchachtii Outman. Evoluția cazurilor de COVID-19 în Maroc. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2022.*

M.21. Tenie-Dobrău Sebastian-Mario. Aspecte medicale și statistice COVID-19 în România. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2023.*

M.22. El Amine El mchachtii. Studiu comparativ asupra crizei COVID-19 în Maroc și România. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2023.*

M.23. Fahd Nait. Studiu comparativ asupra crizei COVID-19 în Maroc și Franța. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2023.*

M.24. Tajouri Aziz. Analiza statistică a datelor biomedicale. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2023.*

M.25. Metoui Amir. Algoritmi de analiză statistică a datelor experimentale. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2023.*

M.26. Ben Ghorbel Mohamed Arafet. Considerații statistice în evaluarea datelor medicale la pacienții cu modificări arteriale. *Bachelor thesis. Victor Babes Univ. of Med&Pharm Timisoara, Faculty of Pharmacy, 2024.*

April 8, 2025

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