

Lista de lucrări

Şef lucrări doctor **Szabó Zoltán - István**

I. Teză de doctorat

Titlu: Dezvoltarea unor metode enantioselective pentru cercetarea purităţii optice a unor compuşi de interes farmaceutic

Anul susţinerii: 2016

Conducător ştiinţific: Prof. Dr. Daniela-Lucia Muntean

Instituţia: Universitatea de Medicină şi Farmacie Tirgu Mureş

Calificativul obţinut: Excelent

Diploma de doctor eliberată de MEN prin Ordinul MEN nr. 3148/30.01.2017

II. Cărţi de specialitate (cu ISBN)

După ultima promovare:

1. **Szabó ZI.** *Monoklonális antitestek vizsgálatára kapilláris elektroforézissel*, Editura Societăţii Muzeului Ardelean (Erdélyi Múzeum Egyesület), 2020, 54 pg, ISBN 978-606-739-171-8

Punctaj: 20

Înainte de ultima promovare

2. Sipos E. Rédei E, **Szabó ZI.** *Industria medicamentului – Aspecte practice*. Editura University Press Tirgu Mureş, 2014, 115 pg, ISBN 978-973-169-338-5, cod CNCIS 210

Punctaj: 20

III. Capitole în volume colective

După ultima promovare:

1. Sipos E, Kósa N, Kászoki A, **Szabó ZI**, Zelkó R. *Formulation and Characterization of Aceclofenac-Loaded Nanofiber Based Orally Dissolving Webs* in: Recent Development of Electrospinning for Drug Delivery, Editors: Zelkó R, Lamprou DA, Sebe I, MDPI Books 2020, ISBN 978-3-03928-140-4 (Pbk), ISBN 978-3-03928-141-1 (PDF)

Punctaj: 3

IV. Articole in extenso

A. Articole în reviste cotate ISI, cu factor de impact

Autor principal

După ultima promovare:

1. Tóth G, Fogarasi E, Bartalis-Fábián Á, Foroughbakhshfasaei M, Boldizsár I, Darcsi A, Lohner Sz, Scriba GKE, **Szabó ZI***. *Liquid chromatographic method for the simultaneous determination of achiral and chiral impurities of dapoxetine in approved and counterfeit products*, J Chrom A 2020, 1625: 461388, ISSN: 1873-3778, DOI: 10.1016/j.chroma.2020.461388 FI: 4.049 (zona roșie) autor corespondent
Punctaj: 75.735
2. Sipos E, Csatári T, Kazsoki A, Gergely A, Bitay E, **Szabó ZI***, Zelkó R. Preparation and Characterization of Fenofibrate-Loaded PVP Electrospun Microfibrous Sheets, Pharmaceutics 2020, 12, 612. ISSN: 1999-4923. DOI:10.3390/pharmaceutics12070612 FI: 4.421 (zona roșie) autor corespondent
Punctaj: 81.315
3. Ferencz E, Kovács B, Boda F, Foroughbakhshfasaei M, Kelemen ÉK, Tóth G, **Szabó ZI***. Simultaneous determination of chiral and achiral impurities of ivabradine on a cellulose tris(3-chloro-4-methylphenylcarbamate)chiral column using polar organic mode, J Pharm Biomed Anal 2020, 177: 112851. ISSN: 0731-7085. DOI:10.1016/j.jpba.2019.112851 FI: 3.209 (zona galbenă) *autor corespondent, ultim autor
Punctaj: 63.135
4. Köteles I, Foroughbakhshfasaei M, Dobó M, Ádám M, Boldizsár I, **Szabó ZI***, Tóth G. *Determination of the Enantiomeric Purity of Solriamfetol by High-Performance Liquid Chromatography in Polar Organic Mode Using Polysaccharide-Type Chiral Stationary Phases*, Chromatographia 2020, 83: 909-913. ISSN: 1612-1112, DOI: 10.1007/s10337-020-03911-1. FI: 1.596 *autor corespondent
Punctaj: 38.94
5. **Szabó ZI**, Ludmerczki R, Fiser B, Noszál B, Tóth G. *Chiral separation of rasagiline using sulfobutylether- β -cyclodextrin: capillary electrophoresis, NMR and molecular modeling study*, Electrophoresis 2019, 40: 1897-1903. ISSN: 1522-2683. DOI: 10.1002/elps.201800482. FI: 3.081 (zona galbenă)
Punctaj: 61.215

6. **Szabó ZI**, Deme R, Mucsi Z, Rusu A, Mare AD, Fiser B, Toma F, Sipos E, Tóth G. *Equilibrium, structural and antibacterial characterization of moxifloxacin- β -cyclodextrin complex*, J Mol Struct 2018, 1166: 228-236. ISSN: 0022-2860, DOI: 10.1016/j.molstruc.2018.04.045 FI: 2.120
Punctaj: 46.8
7. **Szabó ZI**, Foroughbakhshfasaei M, Gál R, Horváth P, Komjáti B, Noszál B, Tóth G. *Chiral separation of lenalidomide by liquid chromatography on polysaccharide-type stationary phases and by capillary electrophoresis using cyclodextrin selectors*, J Sep Sci 2018, 41: 1414-1423. ISSN: 1615-9314, DOI:10.1002/jssc.201701211 FI: 2.415 (zona galbenă)
Punctaj: 51.225
8. **Szabó ZI**, Foroughbakhshfasaei M, Noszál B, Tóth G. *Enantioseparation of racecadotril using polysaccharide-type chiral stationary phases in polar organic mode*. Chirality 2018: 30: 95-105. ISSN 1520-636X, DOI:10.1002/chir.22772 FI: 1.927
Punctaj: 43.905
9. **Szabó ZI**, Gál R, Szőcs L, Ludmerczki R, Muntean DL, Noszál B, Tóth G. *Validated capillary electrophoretic method for the enantiomeric quality control of R-praziquantel*. Electrophoresis 2017, 38: 1886-1894. ISBN: 1522-2683, DOI:10.1002/elps.201600492 FI: 2.569 (zona galbenă)
Punctaj: 53.535

Înainte de ultima promovare:

1. **Szabó ZI**, Szőcs L, Horváth P, Komjáti B, Nagy J, Jánoska Á, Muntean DL, Noszál B, Tóth G. *Liquid chromatography with mass spectrometry enantioseparation of pomalidomide on cyclodextrin-bonded chiral stationary phases and the elucidation of the chiral recognition mechanisms by NMR spectroscopy and molecular modeling*, J Sep Sci 2016, 39: 2941-2949, ISSN, FI: 2.741
Punctaj: 56.115
2. **Szabó ZI**, Foroughbakhshfasaei M, Szőcs L, Nagy J, Komjáti B, Noszál B, Tóth G. *Stereoselective interactions and liquid chromatographic enantioseparation of thalidomide on cyclodextrin-bonded chiral stationary phases*, J Incl Phenom Macrocycl Chem 2016, 85:227-236, ISSN , FI 1.095
Punctaj:31.425
3. **Szabó ZI**, Szőcs L, Muntean DL, Noszál B, Tóth G. *Chiral separation of uncharged pomalidomide enantiomers using carboxymethyl-beta-cyclodextrin: a validated capillary electrophoretic method*, Chirality 2016, 26: 199-203, ISSN , FI 1.956
Punctaj: 44.34

4. **Szabó ZI**, Székely-Szentmiklósi B, Deák B, Székely-Szentmiklósi I, Kovács B, Zöldi K, Sipos E *Study of the effect of formulation variables on combination tablet characteristics containing enalapril maleate and indapamide as active substances using experimental design*, Acta Pharmaceutica 2016,66: 191-206, ISSN, FI 1.288
Punctaj: 34.32

5. **Szabó ZI**, Tóth G, Völgyi G, Komjáti B, Hancu G, Szente L, Sohajda T, Béni Sz, Muntean DL, Noszál B. *Chiral separation of asenapine enantiomers by capillary electrophoresis and characterization of cyclodextrin complexes by NMR spectroscopy, mass spectrometry and molecular modeling*. J Pharm Biomed Anal 2016, 117: 398-404. ISSN, FI 3.255
Punctaj: 63.825

6. **Szabó ZI**, Tóth Cs, Hancu G, Muntean DL. *Simultaneous Chiral Separation of Four H1-Antihistamines by Capillary Zone Electrophoresis Using a Dual Cyclodextrin System*. Chromatographia 2015, 78: 1377-1384, ISSN, FI 1.332
Punctaj: 34.98

7. Sipos E, **Szabó ZI***, Lőrinczi L, Ciurba A. *Rheological behaviour and microbial studies of Carbopol hydrogels*. Studia UBB Chemia 2015, 60: 177-185. ISSN, FI 0.148, **autor correspondent**.
Punctaj: 17.22

8. Hancu G, Cârje A, Iuga I, Fülöp I, **Szabó ZI**. *Cyclodextrine screening for the chiral separation of carvedilol by capillary electrophoresis*. Iran J Pharm Res 2015; 14(2): 425-433, ISSN 1726-6890 FI 1.352.
Punctaj: 35.28

9. **Szabó ZI**, Réti Z, Gagyí L, Kis EL, Sipos E. *Simultaneous quantification of related substances of perindopril tert-butylamine using a novel stability indicating liquid chromatographic method*, J. Chromatogr Sci 2015, 53: 424-430. FI 1.320
Punctaj: 34.8

10. **Szabó Z**, Szabó T, Rédei E, Sipos E *Validated HPLC method for nebivolol determination from dosage form and in vitro dissolution*, Studia UBB Chimia, 2014, LX (4): 195-203, ISSN (print): 1224-7154 ISSN (online): 2065-9520, FI 0,191
Punctaj: 17.865

Co-autor

După ultima promovare

1. Bitay E, **Szabó ZI**, Kántor J, Molnár K, Gergely AL. *Scale-up and optimization of fenofibrate-loaded fibers electrospun by corona-electrospinning*, Express Polymer Letters 2021, 15: 375-387. ISSN: 1788-618X, DOI: 10.3144/expresspolymlett.2021.32 IF: 3.083 (zona galbenă)
Punctaj: 12.249
2. Papp LA, Foroughbakhshfasaei M, Fiser B, Horváth P, Kiss E, Sekkoum K, Gyéresi Á, Hancu G, Noszál B, **Szabó ZI**, Tóth G. *Reversed-phase HPLC enantioseparation of pantoprazole using a teicoplanin aglycone stationary phase— Determination of the enantiomer elution order using HPLC-CD analyses*, Chirality 2020, 32: 158-167. ISSN: 1520-636X, DOI: 10.1002/chir.23146. FI: 2.171 (zona galbenă)
Punctaj: 4.324
3. Papp LA, Hancu G, Gyéresi Á, Kelemen H, **Szabó ZI**, Noszál B, Dubsky P, Tóth G. *Chiral separation of lansoprazole and rabeprazole by capillary electrophoresis using dual cyclodextrin systems*, Electrophoresis 2019, 40: 2799-2805. ISSN: 1522-2683, DOI: 10.1002/elps.201900107. FI: 3.081 (zona galbenă)
Punctaj: 7.651
4. Péterfi O, Boda F, **Szabó Z**, Ferencz E, Bába L. *Hypotensive Snake Venom Components—A Mini-Review*, Molecules 2019, 24: 2778. ISSN: 1420-3049, DOI: 10.3390/molecules24152778. FI: 3.267 (zona galbenă)
Punctaj: 12.801
5. Foroughbakhshfasaei M, **Szabó ZI**, Tóth G. *Validated LC Method for Determination of Enantiomeric Purity of Apremilast Using Polysaccharide-Type Stationary Phases in Polar Organic Mode*, Chromatographia 2018, 81: 1613-1621. ISSN: 1612-1112, DOI: 10.1007/s10337-018-3546-9 FI: 1.552
Punctaj: 12.76
6. Foroughbakhshfasaei M, **Szabó ZI**, Mirzahosseini A, Horváth P, Tóth G. *Enantiomeric quality control of R-Tofisopam by HPLC using polysaccharide-type chiral stationary phases in polar organic mode*, Electrophoresis 2018, 39: 2566-2574. ISSN: 1522-2683, DOI: 10.1002/elps.201800220 FI: 2.754 (zona galbenă)
Punctaj: 11.262

7. Budău M, Hancu G, **Szabó ZI**, Kelemen H, Rusu A, Muntean DL, Cârje A. *Captisol® as chiral selector in capillary electrophoresis of non-acidic drugs*. J Chil Chem Soc 2017, 62: 3566-3571. ISSN: 0717-9707, DOI: 10.4067/s0717-97072017000303566. FI: 0.463

Punctaj: 3.135

8. Sipos E, Oltean AR, **Szabó ZI**, Rédei EM, Donáth-Nagy G. *Application of SeDeM expert systems in preformulation studies of pediatric ibuprofen ODT tablets*, Acta Pharmaceut 2017, 67: 237-246. ISSN: 1846-9558, DOI: 10.1515/acph-2017-0017 FI: 1.071

Punctaj: 6.213

9. Tóth G, Jánoska Á, Völgyi G, **Szabó ZI**, Orgován G, Mirzahosseini A, Noszál B. *Physicochemical Characterization and Cyclodextrin Complexation of the Anticancer Drug Lapatinib*, J Chem 2017, 4537632. ISSN: 2090-9063, DOI: 10.1155/2017/4537632 FI: 1.726

Punctaj: 5.841

Înainte de ultima promovare

1. Sipos E, **Szabó ZI**, Rédei E, Szabó P, Sebe I, Zelkó R. *Preparation and characterization of nanofibrous sheets for enhanced oral dissolution of nebivolol hydrochloride*, J Pharm Biomed Anal 2016, 129: 224-228, ISSN 0731-7085, FI: 3.169

Punctaj: 10.422

B. Articole în reviste cotate ISI, fără factor de impact

C. Articole în reviste indexate BDI

După ultima promovare

Autor principal

1. Boda FA, **Szabó ZI***, Szócs E, Salamon P, Orbán Cs, Székely E. *Buforin II antimikrobiális peptid heterológ expressziója és tisztítása* (Heterologous expression and purification of the antimicrobial peptide buforin II), Orvostudományi Értesítő/Bulletin of Medical Sciences 2019, 92: 119-125. ISSN: 2537-5059, DOI:10.2478/orvtudert-2019-0010

Punctaj: 10

2. **Szabó ZI**, Foroughbakhshfasaei M, Dobó M, Noszál B, Tóth G. *Thalidomid és analógjainak királis elválasztása nagyhatékonyságú folyadékkromatográfiával ciklodextrin állófázisokon* (Liquid chromatographic enantioseparation of thalidomide and its derivatives on cyclodextrin-bonded stationary phases) Orvostudományi Értesítő (Bulletin of Medical Sciences) 2018, 91: 99-106. ISSN: 2537-5059, DOI: 10.2478/orvtudert-2018-0002.

Punctaj: 10

Echivalare articol ISI

3. **Szabó ZI**, Gál R, Gáll Zs, Vancea Sz, Rédei E, Fülöp I, Sipos E, Donáth-Nagy G, Noszál B, Tóth G. *Cyclodextrin complexation improves aqueous solubility of the antiepileptic drug, rufinamide: solution and solid state characterization of compound-cyclodextrin binary systems*, J Incl Phenom Macrocycl Chem 2017, 88: 43-52, ISSN: 1388-3127, DOI: 10.1007/s10847-017-0710-z FI: 1.316

FI > 1 → echivalare 5 articole BDI, autor principal, după ultima promovare

Punctaj: 50

Co-autor

1. Pásztor N, Rédei E, **Szabó ZI**, Sipos E. *Preparation and Characterization of Levofloxacin-Loaded Nanofibers as Potential Wound Dressings*, Acta Marisiensis Seria Medica 2017, 63: 66-69. ISSN: 2668-7763 DOI: 10.1515/amma-2017-0014.

Punctaj: 2.5

Echivalare articol ISI

2. Boda FA, Mare A, **Szabó ZI**, Berta L, Curticăpean A, Dogaru M, Man A. *Antibacterial activity of selected snake venoms on pathogenic bacterial strains*, Rev Romana Med Lab 2019, 27: 305-317. ISSN: 1841-6624, DOI: 10.2478/rrlm-2019-0015. FI: 0.945

FI < 1 → echivalare 3 articole BDI, co-autor

Punctaj: $3 \times 10 / 7 = 4.285$

3. Tóth G, Jánoska Á, **Szabó ZI**, Völgyi G, Orgován G, Szenté L, Noszál B *Physicochemical characterization and cyclodextrin complexation of erlotinib*, Supramol Chem 2016, 28: 656-664, ISSN, FI 1.467 (zonă galbenă)

FI > 1 → echivalare 5 articole BDI, co-autor

Punctaj: $5 \times 10 / 7 = 7.142$

V. Articole publicate în rezumat

Articole publicate în rezumat cu ISSN sau ISBN

1. Benkő BM, Bartalis-Fábián Á, **Szabó ZI**, Tóth G. *Az apremilaszt királis elválasztása kapilláris elektroforézissel - kihívások és lehetőségek (Chiral separation of apremilast by capillary electrophoresis - challenges and opportunities)*, Orvostudományi Értesítő/Buletin de Științe Medicale 2020, 93(Suppl 2): 147-148, ISSN: 1453-0953. – 27. Tudományos Diákköri Konferencia (Conferința Științifică Studentească, 8-10.10.2020, Tg. Mureș, ISSN: 1453-0953

Punctaj: 0.5

2. Ferencz E, Kelem ÉK, Obreja M, Sipos E, **Szabó ZI**. *Experiment design-based approach for the simultaneous separation of albendazole and its impurities*, Scientific Session of University Academic Staff. The 13th Conference of PhD Students, 7-11.12.2020 Tg. Mureș. ISSN: 2602-1609, pg. 78.

Punctaj: 0.4

3. **Szabó ZI**, Fazakas B, Mircia E, Sipos E. *Preparation and evaluation of aceclofenac-loaded rotary spun microfibers*, Gyógyszertechnológiai és Ipari Gyógyszerészeti Konferencia (Conferința de tehnologie și industrie farmaceutică), Siófok, Ungaria, 26-28.09.2019.

Punctaj: 2

4. Ferencz E, Kovács B, Boda F, Foroughbakhshfasaei M, Tóth G, **Szabó ZI**. *Simultaneous determination of chiral and achiral impurities of ivabradine on a cellulose tris(3-chloro-4-methylphenylcarbamate) chiral column using polar organic mode*, 19th International Symposium and Summer School on Bioanalysis, 8-13.07.2019 Suior, Romania. Book of Abstracts, pg. 88-89. ISBN: 978-973-0-29898-7

Punctaj: 0.33

5. Tóth G, Foroughbakhshfasaei M, Noszál B, Papp LA, Fiser B, **Szabó ZI**. *Az enantiomersorrend, mint az elválasztási körülmények függvénye* (Ordinea de separare a enantiomerilor, ca o funcție a factorilor experimentali), Orvostudományi Értesítő/Buletin de Științe Medicale 2019: 92(Suppl. 2), pg. 39. XXIX. Tudományos Ülésszak (Sesiunea Științifică) 11-13.04.2019, Satu-Mare, Romania. ISSN: 1453-0953

Punctaj: 0.33

6. Bartalis-Fábián Á, Benkő BM, **Szabó ZI**. *Fenofibrinsav előállítása fenofibrátból lúgos hidrolízissel és nanoszálal hordozó rendszerbe való ágyazásának lehetőségei* (Synthesis of fenofibric acid by alkalinehydrolysis of fenofibrate and possibilities of incorporating it in nanofibrous scaffolds), Orvostudományi Értesítő/Buletin de Științe Medicale 2019, 92(Suppl 2): 157-158. 26. Tudományos Diákköri Konferencia (Conferința Științifică Studentească, 3-6.04.2019, Tg. Mureș. ISSN: 1453-0953.

Punctaj: 0.66

7. **Szabó ZI**, Foroughbakhshfasaei M, Noszál B, Tóth G. *Az enantiomer-sorrend, mint az elválasztási körülmények függvénye* (Ordinea de separare a enantiomerilor, ca o funcție a factorilor experimentali), Orvostudományi Értesítő/Buletin de Științe Medicale 2018: 91(Suppl. 2), pg. 39. XXVIII. Tudományos Ülésszak (Sesiunea Științifică) 19-21.04.2019, Tg. Mures, Romania. ISSN: 1453-0953

Punctaj: 2

21.01.2021

Tg. Mureș

Șef lucrări dr. Szabó Zoltán - István