

Publikációk/Publications

2021.

Közlemények ISSN kiadványban (cikkek)/Articles in periodicals

1. **IMRE L.; NÁNÁSI, P.; BOSIRE, R.; CSÓTI, Á.; ENYEDI, K.N.; MEZŐ, G.; KUSAKABE, M.; AUSIO, J.; HARATA, M.; SZABÓ, G.** Fundamental role of the H2A.Z C-terminal tail in the formation of constitutive heterochromatin. *BIORXIV - THE PREPRINT SERVER FOR BIOLOGY* (2021)
2. **ALEXA, A; EMBER, O; SZABÓ, I; YOUSEF, M; PÓTI, Á L; REMÉNYI, A; BÁNÓCZI, Z.** Peptide Based Inhibitors of Protein Binding to the Mitogen-Activated Protein Kinase Docking Groove. *FRONTIERS IN MOLECULAR BIOSCIENCES 8 Paper: 690429* (2021); DOI: [10.3389/fmolb.2021.690429](https://doi.org/10.3389/fmolb.2021.690429)
3. **BARANYAI, ZS; BIRI-KOVÁCS, B; KRÁTKÝ, M; SZEDER, B; DEBRECZENI, M L; BUDAI, J; KOVÁCS, B; HORVÁTH, L; PÁRI, E; NÉMETH, ZS.; CERVENAK, L.; ZSILA, F.; MÉHES, E.; KISS, É.; VINSOVA, J.; BŐSZE, SZ.** Cellular Internalization and Inhibition Capacity of New Anti-Glioma Peptide Conjugates: Physicochemical Characterization and Evaluation on Various Monolayer- and 3D-Spheroid-Based in Vitro Platforms. *JOURNAL OF MEDICINAL CHEMISTRY 64: 6 pp. 2982-3005.*, 24 p. (2021); DOI: [10.1021/acs.jmedchem.0c01399](https://doi.org/10.1021/acs.jmedchem.0c01399)
4. **BARANYAI, ZS.; SORIA-CARRERA, H.; ALLEVA, M.; MILLÁN-PLACER, A. C.; AINHOA, L.; MARTÍN-RAPÚN, R.; AÍNSA, J. A.; LA FUENTE, J. M.** Nanotechnology-Based Targeted Drug Delivery: An Emerging Tool to Overcome Tuberculosis. *ADVANCED THERAPEUTICS 4: 1 Paper: 2000113*, 4 p. (2021); DOI: [10.1002/adtp.202000113](https://doi.org/10.1002/adtp.202000113)
5. **BEREK-NAGY, P. J.; TÓTH, G.; BŐSZE, SZ.; HORVÁTH, L. B.; DARCSI, A.; CSÍKOS, S.; KNAPP, D. G.; KOVÁCS, G. M.; BOLDIZSÁR, I.** The grass root endophytic fungus *Flavomyces fulophazii*: An abundant source of tetramic acid and chlorinated azaphilone derivatives. *PHYTOCHEMISTRY 190 Paper: 112851*, 11 p. (2021); DOI: [10.1016/j.phytochem.2021.112851](https://doi.org/10.1016/j.phytochem.2021.112851)
6. **BORBÉLY, A.; PETHŐ, L.; SZABÓ, I.; AL-MAJIDI, M.; STECKEL, A.; NAGY, T.; KÉKI, S.; KALLÓ, G.; CSŐSZ, É.; MEZŐ, G.; SCHLOSSER, G.** Structural Characterization of Daunomycin-Peptide Conjugates by Various Tandem Mass Spectrometric Techniques. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES 22: 4 Paper: 1648* (2021); DOI: [10.3390/ijms22041648](https://doi.org/10.3390/ijms22041648)
7. **BOULHAOUA, M.; PASINSZKI, T.; TORVISCO, A.; OLÁH-SZABÓ, R.; BŐSZE, SZ.; CSÁMPAI, A.** Synthesis, structure and *in vitro* antiproliferative effects of alkyne-

linked 1,2,4-thiadiazole hybrids including erlotinib- and ferrocene-containing derivatives. *RSC ADVANCES* 11 : 46 pp. 28685-28697., 13 p. (2021); DOI: [10.1039/D1RA05095H](https://doi.org/10.1039/D1RA05095H)

8. **DÉNES, N.; KIS, A.; SZABÓ, J. P.; JÓSZAI, I.; HAJDU, I.; ARATÓ, V.; ENYEDI, K. N.; MEZŐ, G.; HUNYADI, J.; TRENCSENYI, GY.; KERTÉSZ, I.** *In vivo* preclinical assessment of novel Ga-68-labelled peptides for imaging of tumor associated angiogenesis using positron emission tomography imaging. *APPLIED RADIATION AND ISOTOPES* 174 Paper: 109778 (2021); DOI: [10.1016/j.apradiso.2021.109778](https://doi.org/10.1016/j.apradiso.2021.109778)
9. **FARKAS, V.; FERENTZI, K.; HORVÁTI, K.; PERCZEL, A.** Cost-Effective Flow Peptide Synthesis: Metamorphosis of HPLC. *ORGANIC PROCESS RESEARCH & DEVELOPMENT* 25: 2 pp. 182-191., 10 p. (2021); DOI: [10.1021/acs.oprd.0c00178](https://doi.org/10.1021/acs.oprd.0c00178)
10. **KIS, A.; DÉNES, N.; SZABÓ, J. P.; ARATÓ, V.; BEKE, L.; MATOLAY, O.; ENYEDI, K. N.; MÉHES, G.; MEZŐ, G.; BAI, P.; KERTÉSZ, I.; TRENCSENYI, GY.** *In Vivo* Molecular Imaging of the Efficacy of Aminopeptidase N (APN/CD13) Receptor Inhibitor Treatment on Experimental Tumors Using Ga-68-NODAGA-c(NGR) Peptide. *BIOMED RESEARCH INTERNATIONAL* 2021 Paper: 6642973 (2021); DOI: [10.1155/2021/6642973](https://doi.org/10.1155/2021/6642973)
11. **KOHUT, G.; JUHÁSZ, T.; QUEMÉ-PEÑA, M.; BŐSZE, SZ. E.; BEKE-SOMFAI, T.** Controlling Peptide Function by Directed Assembly Formation: Mechanistic Insights Using Multiscale Modeling on an Antimicrobial Peptide-Drug-Membrane System. *ACS OMEGA* 6: 24 pp. 15756-15769., 14 p. (2021); DOI: [10.1021/acsomega.1c01114](https://doi.org/10.1021/acsomega.1c01114)
12. **KÓSA, N.; ZOLCSÁK, Á.; VOSZKA, I.; CSÍK, G.; HORVÁTI, K.; HORVÁTH, L.; BŐSZE, SZ.; HERENYI, L.** Comparison of the Efficacy of Two Novel Antitubercular Agents in Free and Liposome-Encapsulated Formulations. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES* 22: 5 Paper: 2457, 15 p. (2021); DOI: [10.3390/ijms22052457](https://doi.org/10.3390/ijms22052457)
13. **LISZTES, E.; MEZŐ, E.; DEMETER, F.; HORVÁTH, L.; BŐSZE, SZ.; TÓTH, B. I.; BORBÁS, A.; HERCZEG, M.** Synthesis and cell growth inhibitory activity of six non-glycosaminoglycan-type heparin-analogue trisaccharides. *CHEMMEDCHEM* 16: 9 pp. 1467-1476. Paper: cmdc.202000917, 10 p. (2021); DOI: [10.1002/cmdc.202000917](https://doi.org/10.1002/cmdc.202000917)
14. **MEZŐ, G.; TRIPODI, A. A. P.; RANĐELOVIĆ, I.; ENYEDI, K. N.; BIRIKOVÁCS, B.; TÓVÁRI, J.** Asn-Gly-Arg szekvenciát tartalmazó ciklopeptidek alkalmazása a célzott tumorterápiában. *MAGYAR ONKOLÓGIA* 65: 2 pp. 113-120., 8 p. (2021) (in Hungarian)
15. **PFLÉGR, V.; HORVÁTH, L.; STOLAŘÍKOVÁ, J.; PÁL, A.; KORDULÁKOVÁ, J.; BŐSZE, SZ.; VINŠOVÁ, J.; KRÁTKÝ, M.** Design and synthesis of 2-(2-isonicotinoylhydrazineylidene)propanamides as InhA inhibitors with high antitubercular activity. *EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY* 223 p. 113668 Paper: 113668 (2021); DOI: [10.1016/j.ejmech.2021.113668](https://doi.org/10.1016/j.ejmech.2021.113668)

16. QUEMÉ-PEÑA, M.; RICCI, M.; JUHÁSZ, T.; HORVÁTI, K.; BŐSZE, SZ.; BIRIKOVÁCS, B.; SZEDER, B.; ZSILA, F.; BEKE-SOMFAI, T. Old Polyanionic Drug Suramin Suppresses Detrimental Cytotoxicity of the Host Defense Peptide LL-37. *ACS PHARMACOLOGY & TRANSLATIONAL SCIENCE* 4: 1 pp. 155-167., 13 p. (2021); DOI: [10.1021/acsptsci.0c00155](https://doi.org/10.1021/acsptsci.0c00155)
17. SZABÓ, D.; SCHLOSSER, G.; VEKEY, K.; DRAHOS, L.; RÉVÉSZ, Á. Collision energies on QToF and Orbitrap instruments: How to make proteomics measurements comparable? *JOURNAL OF MASS SPECTROMETRY* 56: SI 1 pp. 2-13., 12 p. (2021); DOI: [10.1002/jms.4693](https://doi.org/10.1002/jms.4693)
18. SZABÓ, I.; ILLIEN, F.; DÓKUS, E. L.; YOUSEF, M.; BARANYAI, ZS.; BŐSZE, SZ.; ISE, S.; KAWANO, K.; SAGAN, S.; FUTAKI, S.; HUDECZ, F.; BÁNÓCZI, Z. Influence of the DabcyL group on the cellular uptake of cationic peptides: short oligoarginines as efficient cell-penetrating peptides. *AMINO ACIDS* 53 pp. 1033-1049., 17 p. (2021); DOI: [10.1007/s00726-021-03003-w](https://doi.org/10.1007/s00726-021-03003-w)
19. UZONYI, B.; SZABÓ, ZS.; TROJNÁR, E.; HYVÄRINEN, S.; URAY, K.; NIELSEN, H. H.; ERDEI, A.; JOKIRANTA, T. S.; PROHÁSZKA, Z.; ILLES, ZS.; JÓZSI, M. Autoantibodies Against the Complement Regulator Factor H in the Serum of Patients With Neuromyelitis Optica Spectrum Disorder. *FRONTIERS IN IMMUNOLOGY* 12 Paper: 660382, 13 p. (2021); DOI: [10.3389/fimmu.2021.660382](https://doi.org/10.3389/fimmu.2021.660382)
20. ZŰRN, M.; TÓTH, G.; AUSBÜTTEL, T.; MUCSI, Z.; HORVÁTI, K.; BŐSZE, SZ.; SÜTÖRI-DIÓSZEGI, M.; PÁLYI, B.; KIS, Z.; NOSZÁL, B.; BOLDIZSÁR, I. Tissue-Specific Accumulation and Isomerization of Valuable Phenylethanoid Glycosides from Plantago and Forsythia Plants. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES* 22: 8 Paper: 3880, 18 p. (2021); DOI: [10.3390/ijms22083880](https://doi.org/10.3390/ijms22083880)