Publikációk/Publications
2019

Közlemények ISSN kiadványban (cikkek)/Articles in periodicals

1. **GYULAI, G., OUANZI, F., BERTÓTI, I., MOHAI, M., KOLONITS, T., HORVÁTI, K., BŐSZE, S.:** Chemical structure and in vitro cellular uptake of luminescent carbon quantum dots prepared by solvothermal and microwave assisted techniques. *Journal of Colloid Interface Science* ***549,*** *150-161 (2019)* https://doi.org/10.1016/j.jcis.2019.04.058

2. **HORVÁTI, K., PÁLYI, B., HENCZKÓ, J., BALKA, GY., SZABÓ, E., FARKAS, V., BIRI-KOVÁCS, B., SZEDER, B., FODOR, K.:** A convenient synthetic method to improve immunogenicity of *Mycobacterium tuberculosis* related T-cell epitope peptides. *Vaccines* ***7,*** *101 (2019)* https://doi.org/10.3390/vaccines7030101

3. **HUDECZ, F.:** "Úgy kell tervezni, mintha örökké akarnék élni". *Magyar Kémikusok Lapja*, ***74,*** *239-241 (2019).* https//doi.org/10.24364/MKL.2019.07-08

4. **KISS, K., BIRI-KOVÁCS, B., SZABÓ, R., RANĐELOVIĆ, I., ENYEDI, K.N., SCHLOSSER, G., OROSZ, Á., KAPUVÁRI, B., TÓVÁRI, J., MEZŐ G.:** Sequence modification of heptapeptide selected by phage display as homing device for HT-29 colon cancer cells to improve the anti-tumour activity of drug delivery systems. *European Journal of Medicinal Chemistry* ***176****, 105-116 (2019)* https://doi.org/10.1016/j.ejmech.2019.05.016

5. **KOHUT, G., SIERADZAN, A., ZSILA, F., JUHÁSZ, T., BŐSZE, S., LIWO, A., SAMSONOV, S.A., BEKE-SOMFAI, T.:** The molecular mechanism of structural changes in the antimicrobial peptide CM15 upon complex formation with drug molecule suramin: a computational analysis. *Physical Chemistry Chemical Physics* ***21,*** *10644-10659 (2019).* https://doi.org/10.1039/c9cp00471h

6. **KRÁTKÝ, ,M., ,JANĎOUREK, ,O., ,BARANYAI, ,Z., ,NOVOTNÁ, ,E., STOLAŘÍKOVÁ, J., BŐSZE, S., VINŠOVÁ, J.:** Phenolic N-monosubstituted carbamates: Antitubercular and toxicity evaluation of multi-targeting compounds. *European Journal ,of ,Medicinal Chemistry,* ***181,*** *111578 (2019).* https://doi.org/10.1016/j.ejmech.2019.111578

7. **LAJKÓ, E., HEGEDÜS, R., MEZŐ, G., KŐHIDAI, L.:** Apoptotic effects of drug targeting conjugates containing different GnRH analogs on colon carcinoma cells. *International Journal of Molecular Sciences* ***20,*** *4421 (2019);* https://doi.org/10.3390/ijms20184421

8. **MEZŐ, G., BIRI-KOVÁCS, B., PETHŐ, L., SCHUSTRE, S., KISS, K., OLÁHNÉ SZABÓ, R., RANĐELOVIĆ, I., TÓVÁRI, J.:** Célzott

tumorterápiára alkalmas peptid- hatóanyag konjugátumok szerkezetének optimalizálása. *Magyar Onkológia* ***63,*** *290-300 (2019)*

9. **MEZŐ, G., DÓKUS, L., SCHLOSSER, G., LAJKÓ, E., SZÁSZ, Z., RANĐELOVIĆ, I., BIRI-KOVÁCS, B., TÓVÁRI, J., KŐHIDAI, L.:** Hasnyálmirigytumort célzó terápiás irányítópeptidek összehasonlítása. *Magyar Onkológia* ***63****, 301-308 (2019)*

10. **MURÁNYI, J., VARGA, A., GYULAVÁRI, P., PÉNZES, K., NÉMETH, C.E., BÁNHEGYI, G., PETHŐ, L., CSÁMPAI, A., HALMOS, G., PETÁK, I., VÁLYI-NAGY, I.:** Novel crizotinib-GnRH conjugates provide new evidences of lysosomal trapping, which represents a major challenge in GnRHR-targeted drug delivery, *International Journal of Molecular Science*s, ***20****, 5590 (2019)* doi: 10.3390/ijms20225590

11. **PETHŐ, L., MEZŐ, G., SCHLOSSER, G.:** Overcharging effect in electrospray ionization mass spectra of daunomycin-tuftsin bioconjugates. *Molecules* ***24****, 2981 (2019);* https://doi:10.3390/molecules24162981

12. **PETHŐ, L., MURÁNYI, J., PÉNZES, K., GURBI, B., BRAUSWETTER, D., HALMOS, G., CSÍK, G., MEZŐ, G.:** Suitability of GnRH receptors for targeted photodynamic therapy in head and neck cancers, *International Journal of Molecular Science*s, ***20****, 5027 (2019*) doi:10.3390/ijms20205027

13. **QUEMÉ-PEÑA, M., JUHÁSZ, T., MIHÁLY, J., SZIGYÁRTÓ, I.C., HORVÁTI, K., BŐSZE, S., HENCZKÓ, J., PÁLYI, B., NÉMETH, C., VARGA, Z., ZSILA, F., BEKE-SOMFAI, T.:** Manipulating active structure and function of cationic antimicrobial peptide CM15 by the polysulfonated drug suramin: a step closer to in vivo complexity. *ChemBioChem* ***20****, 1–14 (2019).* https://onlinelibrary.wiley.com/doi/epdf/10.1002/cbic.201800801

14. **STECKEL, A., SCHLOSSER, G.:** Citrulline effect is a characteristic feature of deiminated peptides in tandem mass spectrometry. *Journal of American Society Mass Spectrometry* ***30,*** *1586 (2019).* https://doi.org/10.1007/s13361-019-02271-x

15. **STECKEL, A., SCHLOSSER, G.:** An organic chemist's guide to electrospray mass spectrometric structure elucidation. *Molecules* ***24****, 611 (2019).* https://www.mdpi.com/1420-3049/24/3/611

16. **URAY, K., PIMM, M.V., HUDECZ, F.:** The effect of the branched chain polypeptide carrier on biodistribution of covalently attached B-cell epitope peptide (APDTRPAPG) derived from mucin 1 glycoprotein. *Archives of Biochemistry and Biophysics* ***664****, 127–133 (2019).* https://doi.org/10.1016/j.abb.2019.02.003

17. **ZÜRN, M., TÓTH, G., MAZÁKNÉ KRASZNI, M., SÓLYOMVÁRY, A., MUCSI, Z., DEME, R., RÓZSA, B., FODOR, B., MOLNÁR-PERL, I.,**

HORVÁTI, K., BŐSZE, SZ., PÁLYI, B., KIS, Z., BÉNI, SZ., NOSZÁL, B., BOLDIZSÁR, I.: Galls of European Fraxinus trees as new and abundant sources of valuable phenylethanoid and coumarin glycosides. *Industrial Crops and Products* ***139,*** *111517-26 (2019).* http://dx.doi.org/10.1016/j.indcrop.2019.111517

18. **RANĐELOVIĆ, I., SCHUSTER, S., KAPUVÁRI, B., FOSSATI, G., STEINKÜHLER, C., MEZŐ, G., TÓVÁRI J.:** Improved in vivo anti-tumor and anti-metastatic effect of GnRH-III-daunorubicin analogs on colorectal and breast carcinoma bearing mice. *International Journal of Molecular Science*s *20: 4763 (2019)* doi: 10.3390/ijms20194763

Közlemények ISBN/ISSN kiadványban (könyv, könyvrészlet)/Book chapters and conference proceedings

1. **HUDECZ, F.** (2019) Branched polymeric polypeptides with poly[Lys]. In: Amino Acids, Peptides and Proteins. (Eds.: Ryadnov, M., Hudecz, F.) Vol. 43, pp. 44-90 ISBN: 978-1-78801-367-3. The Royal Society of Chemistry, Cambridge, UK (Specialist Periodical Reports - Amino Acids, Peptides and Proteins, DOI:10.1039/9781788013857
2. **HUDECZ, F.** Bevezetés In: MTA-ELTE Peptidkémiai Kutatócsoport közleményei 1961-2018. *(Ed.: Magyar, A.) pp. 3-5 (2019)* ISBN 978-963-508-908-6, MTAELTE Research Group of Peptide Chemistry, Hungarian Academy of Sciences, Budapest
3. **MAGYAR, A.** (Ed.) (2019) MTA-ELTE Peptidkémiai Kutatócsoport közleményei, 1961-2018. MTA-ELTE Research Group of Peptide Chemistry, Hungarian Academy of Sciences, Budapest, pp. 410., ISBN 978-963-508-908-6
4. **RYADNOV, M., HUDECZ, F.** (2019) Preface. In: Amino Acids, Peptides and Proteins. (Eds.: Ryadnov, M., Hudecz, F.) Vol. 43, pp. v-vi, The Royal Society of Chemistry, Cambridge, UK (Specialist Periodical Reports - Amino Acids, Peptides and Proteins, Vol. 43.;ISBN: 978-1-78801-367-3. DOI: 10.1039/9781788013857
5. **SZABÓ, R., SEBESTYÉN, M. KÓCZÁN, GY., ABENGÓZAR, M.A., VAZQUEZ, M.N., RIVAS, L., KUCSERA, I., OROSZ, E., HUDECZ, F.** (2019) Influence of the side chain structure on the anti-Leishmanial effect of methotrexate conjugates with polymeric branched chain polypeptides In: Peptide Science 2018, Proceedings of 10th International Peptide Symposium, (Eds.: Futaki, S., Matsuzaki, K.), The Japanese Peptide Society, Kyoto, Japan, pp. 56-57, ISSN 1344-7661.