

**Dr. Balogh Balázs**  
**KÖZLEMÉNYEK**  
**LISTÁJA 2003-2025**

1. Keglevich Gy.; Kégl T.; Chuluunbaatar T.; Dajka B.; Mátyus P.; **Balogh B.**; Kollár L.: Hydroformylation of styrene in the presence of rhodium-2,4,6-trialkylphenyl-phosphole in situ catalytic systems.  
*J. Mol. Catal. A: Chem.*, **200**, 131-136 (2003). DOI: [10.1016/S1381-1169\(03\)00046-3](https://doi.org/10.1016/S1381-1169(03)00046-3)  
IF 2.264
  
2. Anwair M.A.S.; Károlyházy L.; Szabó D.; **Balogh B.**; Kövesdi I.; Harmat V.; Krenyác J.; Gellért Á.; Takács-Novák K.; Mátyus P.: Lipophilicity of aminopyridazinone regioisomers.  
*J. Agric. Food Chem.*, **51**, 5262-5270 (2003). DOI: [10.1021/jf0343938](https://doi.org/10.1021/jf0343938)  
IF 2.102
  
3. Bágyi I.; **Balogh B.**; Czajlik A.; Éliás O.; Gáspári Z.; Gergely V.; Hudáky I.; Hudáky P.; Kalászi A.; Károlyházy L.; Keserű K.; Kiss R.; Krajsovsky G.; Láng B.; Nagy T.; Rác Á.; Szentesi A.; Tábi T.; Tapolcsányi P.; Vaik J.; Koo J.C.P.; Chass G.A.; Farkas Ö.; Perczel A.; Mátyus P.: Generation and analysis of the conformational potential energy surfaces of *N*-acetyl-*N*-methyl-*L*-alanine-*N*'-methylamide. An exploratory ab initio study.  
*J. Mol. Struct.: THEOCHEM*, **625**, 121-136 (2003). DOI: [10.1016/S0166-1280\(03\)00009-5](https://doi.org/10.1016/S0166-1280(03)00009-5)  
IF 1.027
  
4. Borosy A.P.; **Balogh B.**; Mátyus P.: Alignment-free descriptors for quantitative structure-rate constant relationships of [4+2]cycloadditions.  
*J. Mol. Struct.: THEOCHEM*, **729**, 169-176 (2005). DOI: [10.1016/j.theochem.2005.01.054](https://doi.org/10.1016/j.theochem.2005.01.054)  
IF 1.045
  
5. **Balogh B.**; Hetényi Cs.; Keserű Gy.M.; Mátyus P.: Structure-based calculation of binding affinities of  $\alpha_{2A}$ -adrenoceptor agonists.  
*ChemMedChem*, **2**, 801-805 (2007). DOI: [10.1002/cmdc.200600251](https://doi.org/10.1002/cmdc.200600251)  
IF 2.825
  
6. Jójárt B.; **Balogh B.**; Márki A.: Modeling the human oxytocin receptor for drug discovery efforts.  
*Expert Opin. Drug Discovery*, **2**, 1579-1590 (2007). DOI: [10.1517/17460441.2.12.1579](https://doi.org/10.1517/17460441.2.12.1579)  
IF 1.354 (2009)
  
7. **Balogh B.**; Jójárt B.; Wágner Zs.; Kovács P.; Gyires K.; Zádori Z.; Falkay Gy.; Márki Á.; Viskolcz B.; Mátyus P.: 3D QSAR models for  $\alpha_{2a}$ -adrenoceptor agonists.  
*Neurochem. Int.*, **51**, 268-276 (2007). DOI: [10.1016/j.neuint.2007.05.021](https://doi.org/10.1016/j.neuint.2007.05.021)  
IF 2.975

8. Daruházi Á.E.; Sente L.; **Balogh B.**; Mátyus P.; Béni Sz.; Takács M.; Gergely A.; Horváth P.; Szőke É.; Lemberkovics É.:  
Utility of cyclodextrins in the formulation of genistein Part 1. Preparation and physicochemical properties of genistein complexes with native cyclodextrins.  
*J. Pharm. Biomed. Anal.* **48**, 636-640 (2008). DOI: [10.1016/j.jpba.2008.06.007](https://doi.org/10.1016/j.jpba.2008.06.007)  
IF 2.629
9. **Balogh B.**; Szilágyi A.; Gyires K.; Bylund D.B.; Mátyus P.:  
Molecular modelling of subtypes ( $\alpha_{2A}$ ,  $\alpha_{2B}$  and  $\alpha_{2C}$ ) of  $\alpha_2$  adrenoceptors: A comparative study.  
*Neurochem. Int.*, **55**, 355-361(2009). DOI: [10.1016/j.neuint.2009.05.004](https://doi.org/10.1016/j.neuint.2009.05.004)  
IF 3.541
10. Mercader J.; Iffiú-Soltész Zs.; Brenachot X.; Földi Á.; Dunkel P.; **Balogh B.**; Attané C.; Valet P.; Mátyus P.; Carpéné C.:  
SSAO substrates exhibiting insulin-like effects in adipocytes as a promising treatment option for metabolic disorders.  
*Future Med. Chem.*, **2**, 1735-1749 (2010). DOI: [10.4155/fmc.10.260](https://doi.org/10.4155/fmc.10.260)  
IF 1.424
11. Dunkel P.; **Balogh B.**; Meleddu R.; Maccioni E.; Gyires K.; Mátyus P.:  
Semicarbazide sensitive amine oxidase/vascular adhesion protein-1: A patent survey.  
*Expert Opin. Ther. Pat.*, **21**, 1453-1471 (2011). DOI: [10.1517/13543776.2011.594040](https://doi.org/10.1517/13543776.2011.594040)  
IF 3.571
12. Arany Á.; Bolgár B.; **Balogh B.**; Antal P.; Mátyus P.:  
Multi-aspect candidates for repositioning: Data fusion methods using heterogeneous information sources.  
*Curr. Med. Chem.*, **20**, 95-107 (2013). DOI: [10.2174/0929867311302010010](https://doi.org/10.2174/0929867311302010010)  
IF 3.715
13. Bolgár B.; Arany Á.; Temesi G.; **Balogh B.**; Antal P.; Mátyus P.:  
Drug repositioning for treatment of movement disorders: From serendipity to rational discovery strategies.  
*Curr. Top. Med. Chem.*, **13**, 2337-2367 (2013). DOI: [10.2174/15680266113136660164](https://doi.org/10.2174/15680266113136660164)  
IF 3.453
14. Tóth L.; Fu Y.; Zhang H.Y.; Mándi A.; Kövér K.E.; Illyés T.Z.; Kiss-Szikszai A.; **Balogh B.**; Kurtán T.; Antus S.; Mátyus P.:  
Preparation of neuroprotective condensed 1,4-benzoxazepines by regio- and diastereoselective domino knoevenagel-[1,5]-hydride shift-cyclization reaction.  
*Beilstein J. Org. Chem.*, **10**, 2594-2602 (2014).DOI: [10.3762/bjoc.10.272](https://doi.org/10.3762/bjoc.10.272)  
IF 2.757

15. Parrino B.; Carbone A.; Ciancimino C.; Spano V.; Montalbano A.; Barraja P.; Cirrincione G.; Diana P.; Sissi C.; Palumbo M.; Pinato O.; Pennati M.; Beretta G.; Folini M.; Mátyus P.; **Balogh B.**; Zaffaroni N.:  
Water-soluble isoindolo[2,1-a]quinoxalin-6-imines: In vitro antiproliferative activity and molecular mechanism(s) of action.  
*Eur. J. Med. Chem.*, **94**, 149-162 (2015). DOI: [10.1016/j.ejmech.2015.03.005](https://doi.org/10.1016/j.ejmech.2015.03.005)  
IF 3.902
  
16. Huleatt P.B.; Khoo M.L.; Chua Y.Y.; Tan T.W.; Liew R.S.; **Balogh B.**; Deme R.; Göloncsér F.; Magyar K.; Sheela D.P.; Ho H.K.; Sperlágh B.; Mátyus P.; Chai C.L.L.:  
Novel arylalkenylpropargylamines as neuroprotective, potent, and selective monoamine oxidase B inhibitors for the treatment of Parkinson's disease.  
*J. Med. Chem.*, **58**, 1400-1419 (2015). DOI: [10.1021/jm501722s](https://doi.org/10.1021/jm501722s)  
IF 5.589
  
17. **Balogh B.**; Pázmány T.; Mátyus P.:  
Analysis of Edg-Like LPA receptor-ligand interactions.  
*Curr. Pharm. Des.* **21**, 3533-3547 (2015). DOI: [10.2174/1381612821666150216120500](https://doi.org/10.2174/1381612821666150216120500)  
IF 3.052
  
18. Carpéné C.; Hasnaoui M.; **Balogh B.**; Mátyus P.; Fernandez-Quintela A.; Rodriguez V.; Portillo M. P.; Mercader J.:  
Dietary phenolic compounds interfere with the fate of hydrogen peroxide in human adipose tissue but do not directly inhibit primary amine oxidase activity.  
*Oxid. Med. Cell. Longevity* ID 2427618 (2016). DOI: [10.1155/2016/2427618](https://doi.org/10.1155/2016/2427618)  
IF 4.492
  
19. Les Parellada F.; Deleruyelle S.; Cassagnes L. E.; Nepveu F.; Boutin J. A.; **Balogh B.**; Arbones-Mainar J.M.; Biron S.; Marceau P.; Richard D.; Nepveu F.; Mauriège P.; Carpéné C.:  
Piceatannol and resveratrol share inhibitory effects on hydrogen peroxide release, monoamine oxidase and lipogenic activities in adipose tissue, but differ in their antilipolytic properties.  
*Chem.-Biol. Interact.* **258**, 115-125, (2016). DOI: [10.1016/j.cbi.2016.07.014](https://doi.org/10.1016/j.cbi.2016.07.014)  
IF 2.618
  
20. **Balogh B.**; Carbone A.; Spano V.; Montalbano; A.; Barraja P.; Cascioferro S.; Diana P.; Parrino B.:  
Investigation of Isoindolo[2,1-a]quinoxaline-6-imines as topoisomerase I inhibitors with molecular modeling methods.  
*Curr. Comp.-Aided Drug Des.* **13**, 208-221 (2017).  
DOI: [10.2174/1573409913666170124100334](https://doi.org/10.2174/1573409913666170124100334)  
IF 0.77
  
21. Fábíán; M.; **Balogh; B.**; Czudor; Zs.; Örfi; L.:  
New computational studies to support cyclin-dependent kinase 9 inhibitor screening and design.  
*Acta Pharm. Hung.* **89**, 31-38 (2019)  
IF -

22. Krajsovsky G. ; **Balogh B.** ; Mándity I.:  
Molekulák ábrázolásának történeti áttekintése a kezdetektől napjainkig.  
*GYÓGYSZERÉSZET* **63**, 5 (2019)  
IF -
23. Szilágyi K.; Hajdú I.; Flachner B.; Lőrincz Z.; Balczer J.; Gál P.; Závodszy P.; Pirl C.; **Balogh B.**; Mándity I. M.; Cseh S.; Dorman Gy.:  
Design and Selection of Novel C1s Inhibitors by *In Silico* and *In Vitro* Approaches.  
*Molecules*, **24**, 3641 (2019). DOI: [10.3390/molecules24203641](https://doi.org/10.3390/molecules24203641)  
IF 3.267
24. **Balogh, B.**; Ivánczi, M.; Nizami, B.; Beke-Somfai T.; Mándity, I. M.:  
ConjuPepDB: a database of peptide–drug conjugates.  
*Nucleic Acids Res.* **49**, D1102-D1112 (2021). DOI: [10.1093/nar/gkaa950](https://doi.org/10.1093/nar/gkaa950)  
IF 19.16
25. Pérez-Regidor, L.; Guzmán-Caldentey, J.; Oberhauser, N.; Punzón, C.; **Balogh, B.**;  
Pedro, J. R.; Falomir, E.; Nurisso, A.; Mátyus, P.; Menéndez, J. C.:  
Small Molecules as Toll-like Receptor 4 Modulators Drug and In-House Computational  
Repurposing.  
*Biomedicines*, **10**, 2326 (2022). DOI: [10.3390/biomedicines10092326](https://doi.org/10.3390/biomedicines10092326)  
IF 4.7
26. Ivánczi, M., **Balogh, B.**; Kis, L.; Mándity, I.  
Molecular Dynamics Simulations of Drug-Conjugated Cell-Penetrating Peptides.  
*Pharmaceuticals*, **16**, 1251 (2023). DOI: [10.3390/ph16091251](https://doi.org/10.3390/ph16091251)  
IF 4.3
27. Kraszni, M.; **Balogh, B.**; Mándity I.; Horváth, P.  
Advantages of Induced Circular Dichroism Spectroscopy for Qualitative and  
Quantitative Analysis of Solution-Phase Cyclodextrin Host–Guest Complexes.  
*Int. J. Mol. Sci.* **25**, 412 (2024) DOI: [10.3390/ijms25010412](https://doi.org/10.3390/ijms25010412)  
IF 4.9 (2023-as adat)
28. Czompa, A.; Bogdán, D.; **Balogh, B.**; Erei, E.; Selymes, P.; Csomos A.  
Sustainable and Safe N-alkylation of N-heterocycles by Propylene Carbonate under  
Neat Reaction Conditions.  
*Int. J. Mol. Sci.* **25**, 5523 (2024) DOI: [1422-0067/25/10/5523#](https://doi.org/10.3390/ijms25010412)  
IF 4.9 (2023-as adat)
29. Attila, I.; **Balázs, B.**; István, M.  
GraphCPP: the new state-of-the-art method for cell-penetrating peptide prediction via  
graph neural networks.  
*Brit. J. Pharmacol.* **182**, 494-509 (2024). DOI: [10.1111/bph.17388](https://doi.org/10.1111/bph.17388)  
IF 6.8 (2023-as adat)

## **SZABADALOM**

Mátyus P., Németh J., Magyar K., Somogyi A., Dunkel P., Somfai G.M., **Balogh B.**,  
Túros Gy.:

Use of dihydralazine for the treatment of diseases related to elevated semicarbazide-  
sensitive amine oxidase (SSAO) activity.

PCT Int. Appl. (2010), [WO 2010015870 A1 20100211](#)