

LIST OF PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

21. Barosi, A; **Dunkel, P**; Guénin, E; Lalatonne, Y; Zeitoun, P; Fitton, I; Journé, C; Bravin, A; Maruani, A; Dhimane, H; Motte, L; Dalko, PI. Synthesis and activation of an iron oxide immobilized drug-mimicking reporter under conventional and pulsed X-ray irradiation conditions. *RSC Advances* **2020**, *10*, 3366-3370
20. **Dunkel, P**; Barosi, A; Dhimane, H; Maurel, F; Dalko, PI. Photoinduced electron transfer (PET)-mediated fragmentation of picolinium-derived redox probes. *Chemistry – A European Journal* **2018**, *24*, 12920-12931
19. **Dunkel, P**; Petit, M; Dhimane, H; Blanchard-Desce, M; Ogden, D; Dalko, PI. Quinoline-derived two-photon-sensitive octupolar probes. *ChemistryOpen* **2017**, *6*, 660-667
18. Tran, C; **Dunkel, P**; Dhimane, H; Ogden, D; Dalko, PI. 5-Aryl-dimethylamino-quinoline-derived two-photon sensitive probes. *Optical Materials Express* **2016**, *6*, 2207-2212
17. **Dunkel, P**; Hayat, Z; Barosi, A; Bchellaoui, N; Dhimane, H; Dalko, PI; El Abed, AI. Photolysis-driven merging of microdroplets in microfluidic chambers. *Lab on a Chip* **2016**, *16*, 1484-1491
16. Baranyi, M; Porceddu, PF; Gölöncsér, F; Kulcsár, S; Otrókoci, L; Kittel, Á; Pinna, A; Frau, L; Huleatt, PB; Khoo, M-L; Chai, CLL; **Dunkel, P**; Mátyus, P; Morelli, M; Sperlágh, B. Novel (hetero)arylalkenyl propargylamine compounds are protective in toxin-induced models of Parkinson's disease. *Molecular Neurodegeneration* **2016**, *11*:6, DOI 10.1186/s13024-015-0067-y
15. **Dunkel, P**; Tran, C; Gallavardin, T; Dhimane, H; Ogden, D; Dalko, PI. Quinoline-derived two-photon sensitive quadrupolar probes. *Organic and Biomolecular Chemistry* **2014**, *12*, 9899-9908.
14. Ilic, M; **Dunkel, P**; Ilas, J; Chabielska, E; Zakrzaska, A; Matyus, P; Kikelj, D. Towards dual antithrombotic compounds - Balancing thrombin inhibitory and fibrinogen GPIIb/IIIa binding inhibitory activities of 2,3-dihydro-1,4-benzodioxine derivatives through regio- and stereoisomerism. *European Journal of Medicinal Chemistry* **2013**, *62*, 329-340.
13. Ilic, M; Ilas, J; **Dunkel, P**; Matyus, P; Bohac, A; Liekens, S; Kikelj, D. Novel 1,4-benzoxazine and 1,4-benzodioxine inhibitors of angiogenesis. *European Journal of Medicinal Chemistry* **2012**, *58*, 160-170.
12. **Dunkel, P**; Chai, CLL; Sperlágh, B; Huleatt, PB; Matyus, P. Clinical utility of neuroprotective agents in neurodegenerative diseases: current status of drug development for Alzheimer's, Parkinson's and Huntington's diseases, and amyotrophic lateral sclerosis. *Expert Opinion on Investigational Drugs* **2012**, *21*, 1267-1308.
11. Bottino, P; **Dunkel, P**; Schlich, M; Galavotti, L; Deme, R; Regdon, G; Benyei, A; Pintye-Hodi, K; Ronsisvalle, G; Matyus, P. Study on the scope of *tert*-amino effect: new extensions of type 2 reactions to bridged biaryls. *Journal of Physical Organic Chemistry* **2012**, *25*, 1033-1041.
10. Krajsovszky, G; Karolyhazy, L; **Dunkel, P**; Boros, S; Grillo, A; Matyus, P. Suzuki-aza-Wittig, Suzuki-condensation and aza-Wittig-electrocyclic ring-closure tandem reactions for synthesis of fused nitrogen-containing ring systems. *ARKIVOC* **2011**, *10*, 229-253.

9. **Dunkel, P**; Balogh, B; Meleddu, R; Maccioni, E; Gyires, K; Matyus, P. Semicarbazide-sensitive amine oxidase/vascular adhesion protein-1: a patent survey. *Expert Opinion on Therapeutic Patents* **2011**, *21*, 1453-1471.
8. Enzsoely, A; **Dunkel, P**; Reccsan, Z; Gyorffy, H; Toth, J; Marics, G; Bori, Z; Toth, M; Zelko, R; Di Paolo, ML; Matyus, P; Nemeth J. Preliminary studies of the effects of vascular adhesion protein-1 inhibitors on experimental corneal neovascularization. *Journal of Neural Transmission* **2011**, *118*, 1065-1069.
7. Mercader, J; Iffiu-Soltesz, Z; Brenachot, X; Foeldi, A; **Dunkel, P**; Balogh, B; Attane, C; Valet, P; Matyus, P; Carpena, C. SSAO substrates exhibiting insulin-like effects in adipocytes as a promising treatment option for metabolic disorders. *Future Medicinal Chemistry* **2010**, *2*, 1735-1749.
6. **Dunkel, P**; Turos, G; Benyei, A; Ludanyi, K; Matyus, P. Synthesis of novel fused azecine ring systems through application of the tert-amino effect. *Tetrahedron* **2010**, *66*, 2331-2339.
5. Conti, P; Pinto, A; Tamborini, L; **Dunkel, P**; Gambaro, V; Visconti, GL; De Micheli, C. A regioselective route to 5-substituted isoxazole- and isoxazoline-3-phosphonates. *Synthesis* **2009**, *4*, 591-596.
4. **Dunkel, P**; Gelain, A; Barlocco, D; Haider, N; Gyires, K; Sperlagh, B; Magyar, K; Maccioni, E; Fadda, A; Matyus, P. Semicarbazide-sensitive amine oxidase/vascular adhesion protein 1: recent developments concerning substrates and inhibitors of a promising therapeutic target. *Current Medicinal Chemistry* **2008**, *15*, 1827-1839.
3. Zadori, ZS; Shujaa, N; Fueleop, K; **Dunkel, P**; Gyires, K. Pre- and postsynaptic mechanisms in the clonidine- and oxymetazoline-induced inhibition of gastric motility in the rat. *Neurochemistry International* **2007**, *51*, 297-305.
2. Riedl, Z; Monsieurs, K; Krajsovsky, G; **Dunkel, P**; Maes, BUW; Tapolcsanyi, P; Egyed, O; Boros, S; Matyus, P; Pieters, L; Lemiére, GLF; Hajos, G. Synthesis of novel 1-methyl-1*H*-pyridazino[3,4-*b*]indoles. *Tetrahedron* **2006**, *62*, 121-129.
1. Krajsovsky, G; Karolyhazy, L; Riedl, Z; Csampai, A; **Dunkel, P**; Lernyei, A; Dajka-Halasz, B; Hajos, G; Matyus, P. Reaction of chloropyridazin-3(2*H*)-ones with iodide. Part I. A mechanistic study. *Journal of Molecular Structure: THEOCHEM* **2005**, *713*, 235-243.

OTHER PUBLICATIONS

2. Énzsoely, A; **Dunkel, P**; Czompa, A; Deme, R; Gyires, K; Magyar, K; Németh, J; Mátyus, P. Szemikarbazid-szenzitív aminoxidáz-gátlók mint új hatóanyagok gyulladásoos szembetegségek kezelésére: a szelektív inhibitoroktól az új típusú többtámadáspontú gyulladásgátló gyógyszerjelöltig [Semicarbazide sensitive amine oxidase inhibitors as novel therapeutic agents for the treatment of inflammatory ophthalmological diseases: from selective inhibitors toward a new type of multi-target anti-inflammatory drug candidates]. *Magyar Tudomány* **2012**, *173*, 48-52.
1. Carpena, C; Balogh, B; Mercader, J; Brea, J; Gomez-Ruiz, A; **Dunkel, P**; Matyus, P; Loza, MI. Direct inhibitory effect of phenelzine on human primary amine oxidase, an enzyme formerly known as ssao/vap-1. *Congress of the European Association for Clinical Pharmacology and Therapeutics, 10th, Budapest, Hungary, June 26-27, 2011 (2011)*, 77-83.

PATENTS

2. Matyus, P; Magyar, K; Pihlavista, M; Gyires, K; Haider, N; Wang, Y; Woda, P; **Dunkel, P**; Toth-Sarudy, E; Turos, G. Compounds for inhibiting semicarbazide-sensitive amine oxidase (SSAO)/vascular adhesion protein-1 (VAP-1) and uses thereof for treatment and prevention of diseases. PCT Int. Appl. (2010), WO 2010029379.

1. Matyus, P; Nemeth, J; Magyar, K; Somogyi, A; **Dunkel, P**; Somfai, GM; Balogh, B; Turos, G. Use of dihydralazine for the treatment of diseases related to elevated semicarbazide-sensitive amine oxidase (SSAO) activity. PCT Int. Appl. (2010), WO 2010015870.