

## Selected publications (2020-2025)

### Monographs Published by Foreign Publishers

1. Kubatka, P., Mazuráková, A., **Kello, M., Mojžiš, J.**, Solár, P., Solárová, Z., Žúbor, P., Zulli, A., Danko, J., Kabir, Y.: Plant-derived functional foods with chemopreventive and therapeutic potential against breast cancer: a review of the preclinical and clinical data. In: Functional Foods in Cancer Prevention and Therapy. - London : Academic Press, 2020. - ISBN 9780128161517. - S. 283-314

### Chapters in Scientific Monographs Published by Foreign Publishers

1. Bujňáková Z, Shpotyuk O, Dutková E, Tóthová E, Kováč J, **Kello M**, Baláž M, Baláž P. Chapter 8 - Processing of natural mineral magnetite for medical applications. In Biocompatible Hybrid Oxide Nanoparticles for Human Health. Elsevier pp. 125-143, 2019,

### University Textbooks Published by Domestic Publishers

1. **Mirossay L, Mojžiš J**, a kol. : Základná farmakológia a farmakoterapia I. a II. druhé vydanie, Equilibria, Košice 2021, 1162 s. ISBN 978-80-8143-273-6
2. Laca Megyesi, Š, **Michalková R**, Červený M.: Základy práva a etiky pre farmaceutov. Univerzita veterinárskeho lekárstva a farmácie v Košiciach, 2025. - 154 s. ISBN 9788080778699.

### Scientific Papers in International Journals Indexed in Current Contents, Web of Science or Scopus

1. Budovská M, **Tischlerová V, Mojžiš J**, Kozlov O, Gondová T. An alternative approach to the synthesis of anticancer molecule spirobrassinin and its 2'-amino analogues. Monatshefte fur Chemie 151, 63-77, 2020 (IF=1,5; Q3)
2. Kubatka P, **Kello M**, Kajo K, Samec M, Jasek K, Vybohova D, Uramova S, Liskova A, Sadlonova V, Koklesova L, Murin R, Adamkov M, Smejkal K, Svajdlenska E, Solar P, Samuel SM, Kassayova M, Kwon TK, Zubor P, Pec M, Danko J, Büsselberg D, **Mojzis J**. Chemopreventive and Therapeutic Efficacy of Cinnamomum zeylanicum L. Bark in Experimental Breast Carcinoma: Mechanistic In Vivo and In Vitro Analyses. Molecules 25, pii: E1399, 2020 (IF=3,06; Q2)
3. Bujňáková Z, **Kello M**, Kováč J, Tóthová E, Shpotyuk O, Baláž P, **Mojžiš J**, Andrejko S. Preparation of As<sub>4</sub>S<sub>4</sub>/Fe<sub>3</sub>O<sub>4</sub> nanosuspensions and in-vitro verification of their anticancer activity. Mater Sci Eng C Mater Biol Appl. 110:110683. 2020 (IF=4,959; Q1)
4. Samec M, Liskova A, Koklesova L, Samue SM, Zha K, Buhrmann C, Varghese E, Abotaleb M, Qaradakh T, Zulli A, **Kello M, Mojzis J.**, Zubor P, Kwon TK, Shakibaei M, Büsselberg D, Sarria GR, Golubnitschaja O, Kubatka P. Flavonoids against the Warburg phenotype—concepts of predictive, preventive and personalised medicine to cut the Gordian knot of cancer cell metabolism. EPMA Journal 11, 377-398, 2020 (IF=4,9; Q1)

5. Dutková E, Lukáčová Bujňáková Z, **Kello M, Mojžiš J**, Skurikhina O, Briančin J. Chitosan capped CuInS<sub>2</sub> and CuInS<sub>2</sub>/ZnS by wet stirred media milling: in vitro verification of their potential bio-imaging applications. *Appl Nanosci* 10, 4661–4671 (IF= 3,674; Q3)
6. Kuzderová G, Rendošová M, Gyepes R, Almáši M, Sabolová D, Vilková M, Olejníková P, Hudecová D, **Kello M**, Vargová Z. In vitro biological evaluation and consideration about structure-activity relationship of silver (I) aminoacidate complexes. *Journal of Inorganic Biochemistry* 210, 111170, 2020 (IF=3.21; Q1)
7. **Solárová Z, Kello M**, Solár P. Apoptotic Effect of Homobrassinin and Thiazino [6, 5-b] indol is Associated with Downregulation of Heat Shock Proteins in Human Ovarian Adenocarcinoma Cells. *Acta Chimica Slovenica* 67, 2020 (IF=1.26; Q3)
8. **Kicova M, Michalova Z, Coma M**, Gabzdilova J, Dedinska K, Guman T, Bernatova S, **Hajikova M**, Giertlova M, Veselinyova D, **Sarissky M**. The expression of CD73 on pathological B-cells is associated with shorter overall survival of patients with CLL. *Neoplasma* 67, 933-938, 2020 (IF=1,72; Q3)
9. Jacková D, Brunderová M, Fábian M, Martinková M, Gonda J, **Pilátová MB**. Synthesis and anticancer profile of novel sphingoid base-like compounds with a quaternary stereocentre. *Carbohydr Res.* 487,107862, 2020 (IF=1,84; Q2)
10. Budovská M, Selešová I, **Tischlerová V, Michalková R, Mojžiš J**. Design, synthesis, and biological evaluation of novel 5-bromo derivatives of indole phytoalexins. *Monatsh Chem* 151, 1737–1758, 2020 (IF=1,34; Q3)
11. Timko L, Pisárčik M, Mrva M, Garajová M, Juhásová A, **Mojžiš J**, Mojžišová G, Bukovský M, Devínsky F, Lukáč M. Synthesis, physicochemical properties and biological activities of novel alkylphosphocholines with foscarnet moiety. *Bioorg Chem.* 104, 104224, 2020 (IF=4,83; Q1)
12. Kováč I, **Melegová N, Čoma M, Takáč P**, Kováčová K, Hollý M, Ďurkáč J, Urban L, Gurbáľová M, Švajdlenka E, Mojžišová G, Zajíček R, Szabó P, Mučaji P, Gál P.: Aesculus hippocastanum L. extract does not induce fibroblast to myofibroblast conversion but increases extracellular matrix production in vitro leading to increased wound tensile strength in rats. *Molecules* 25, 1-14, 2020 (IF=3,26; Q2)
13. Kubatka P, **Kello M**, Kajo K, Samec M, Liskova A, Jasek K, Koklesova L, **Kuruc T**, Adamkov M, Smejkal K, Svajdlenka E, Solar P, Pec M, Büsselberg D, Sadlonova V, **Mojzis J**. Rhus coriaria L. (Sumac) Demonstrates Oncostatic Activity in the Therapeutic and Preventive Model of Breast Carcinoma. *Int J Mol Sci.* 22, 183, 2021 (IF= 4.556; Q1)
14. Kudličková Z, Takáč P, Sabolová D, Vilková M, Baláž M, Béres T, **Mojžiš J**. Novel 1-methoxyindole- and 2-alkoxyindole-based chalcones: design, synthesis, characterization, antiproliferative activity and DNA, BSA binding interactions. *Med Chem Res* 30, 897-912, 2021. (IF= 1.78; Q3)
15. **Kuruc T, Kello M, Petrova K**, Kudlickova Z, Kubatka P, **Mojzis J**. The Newly Synthetized Chalcone L1 is Involved in the Cell Growth Inhibition, Induction of Apoptosis and Suppression of Epithelial-to-Mesenchymal Transition of HeLa Cells. *Molecules* 26, 1356, 2021 (IF=3.26; Q2)
16. **Gál P**, Vasilenko T, Kováč I, **Čoma M**, Jakubčo J, Jakubčová M, Perželová V, **Urban L**, Kolář M, Sabol F, Luczy J, Novotný M, Majerník J, Gabius HJ, Smetana KJ. Human galectin-3: Molecular switch of gene expression in dermal fibroblasts in vitro and of skin collagen organization in open wounds and tensile strength in incisions in vivo. *Mol Med Rep* 23, 11738, 2021. (IF=2,1; Q2)

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18. Očenášová L, Budovská M, Očenáš P, Tomášková N, **Pilátová MB**, **Mojžiš J**. The first synthesis of natural alkaloid capparine A. *Tetrahedron* 131772, 2021 (IF= 2,23; Q2)
19. Rendošová M, Gyepes R, Maruščáková IC, Mudroňová D, Sabolová D, **Kello M**, Vilková M, Almáši M, Huntošová V, Zemek O, Vargová Z . An in vitro selective inhibitory effect of silver(i) aminoacidates against bacteria and intestinal cell lines and elucidation of the mechanism of action by means of DNA binding properties, DNA cleavage and cell cycle arrest. *Dalton Trans.* 50, 936-953 2021 (IF=4,05; Q2)
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22. **Kaňuchová M**, **Urban L**, **Melegová N**, **Čoma M**, Dvořánková B, Smetana K Jr, **Gál P**. Genistein does not inhibit TGF-beta1-induced conversion of human dermal fibroblasts to myofibroblasts. *Physiol Res.* 70, 815-820, 2021 (IF=2,14; Q3)
23. Do Pham DD, Jenčová V, **Kaňuchová M**, Bayram J, Grossová I, Šuca H, **Urban L**, Havlíčková K, Novotný V, Mikeš P, Mojr V, Asatiani N, Košťáková EK, Maixnerová M, Vlková A, Vítovská D, Šanderová H, Nemec A, Krásný L, Zajíček R, Lukáš D, Rejman D, **Gál P**. Novel lipophosphonoxin-loaded polycaprolactone electrospun nanofiber dressing reduces *Staphylococcus aureus* induced wound infection in mice. *Sci Rep.* 11,17688, 2021 (IF=4,99; Q1)
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28. **Petrova K**, **Kello M**, **Kuruc T**, Backorova M, Petrovova E, Vilková V, Goga M, Rucova D, Backor M, **Mojzis J**. Potential Effect of *Pseudevernia furfuracea* (L.) Zopf Extract and Metabolite Physodic Acid on Tumour Microenvironment Modulation in MCF-10A Cells. *Biomolecules* 11, 420, 2021 (IF=4,082; Q1)

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36. **Bardelčíková A, Miroššay A**, Šoltýs J, **Mojžiš J.** Therapeutic and prophylactic effect of flavonoids in post-COVID-19 therapy. *Phytother Res.* 36, 2042-60, 2022, (IF=5,88; Q1)
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