

LIST OF PUBLICATIONS

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Biomedical Research Center SAS

8.7.2022

Category ADCA

- [1] **MISAK, A.** - GRMAN, M. - MALEKOVA, L. - NOVOTOVA, M. - MARKOVA, J. - KRIZANOVA, O. - ONDRIAS, K. - TOMASKOVA, Z. Mitochondrial chloride channels: electrophysiological characterization and pH induction of channel pore dilation. In European Biophysics Journal with Biophysics Letters, 2013, Vol. 42, Iss. 9, p. 709-720. (2.274 - IF2012). ISSN 0175-7571.
- [2] BERENYIOVA, A. - GRMAN, M. - MIJUSKOVIC, A. - STASKO, A. - **MISAK, A.** - NAGY, P. - ONDRIASOVA, E. - CACANYIOVA, S. - BREZOVA, V. - FEELISCH, M. - ONDRIAS, K. The reaction products of sulfide and S-nitrosoglutathione are potent vasorelaxants. In Nitric Oxide : Biology and Chemistry, 2015, Vol. 46, p. 123-130. (3.521 - IF2014). ISSN 1089-8603.
- [3] TOMASOVA, L. - PAVLOVICOVA, M. - MALEKOVA, L. - **MISAK, A.** - KRISTEK, F. - GRMAN, M. - CACANYIOVA, S. - TOMASEK, M. - TOMASKOVA, Z. - PERRY, A. - WOOD, M. E. - LACINOVA, L. - ONDRIAS, K. - WHITEMAN, M. Effects of AP39, a novel triphenylphosphonium derivatised anethole dithiolethione hydrogen sulfide donor, on rat haemodynamic parameters and chloride and calcium Ca(v)3 and RyR2 channels. In Nitric Oxide : Biology and Chemistry, 2015, Vol. 46, p. 131-144. (3.521 - IF2014). ISSN 1089-8603.
- [4] DROBNA, M. - **MISAK, A.** - HOLLAND, T. - KRISTEK, F. - GRMAN, M. - TOMASOVA, L. - BERENYIOVA, A. - CACANYIOVA, S. - ONDRIAS, K. Captopril partially decreases the effect of H₂S on rat blood pressure and inhibits H₂S-induced nitric oxide release from S-nitrosoglutathione. In Physiological Research, 2015, Vol. 64, p. 479-486. (1.293 - IF2014). ISSN 0862-8408.
- [5] TOMASEK, M. - **MISAK, A.** - GRMAN, M. - TOMASKOVA, Z. Subconductance states of mitochondrial chloride channels: implication for functionally-coupled tetramers. In FEBS Letters, AUG 2017, Vol. 591, Iss. 15, p.2251-2260. (3.630 - IF2016). ISSN 0014-5793.
- [6] **MISAK, A.** - GRMAN, M. - BACOVA, Z. - REZUCHOVA, I. - HUDECOVA, S. - ONDRIASOVA, E. - KRIZANOVA, O. - BREZOVA, V. - CHOVANEC M. - ONDRIAS, K. Polysulfides and products of H₂S/S-nitrosoglutathione in comparison to H₂S, glutathione and antioxidant Trolox are potent scavengers of superoxide anion radical and produce hydroxyl radical by decomposition of H₂O₂. In Nitric Oxide : Biology and Chemistry, JUN 2018, Vol. 76, Iss. 2, p. 136-151. (4.370 - IF2017). ISSN 1089-8603.
- [7] KHARMA, A. - GRMAN, M. - **MISAK, A.** - DOMINGUEZ-ALVAREZ, E. - NASIM, M.J. - ONDRIAS, K. - CHOVANEC, M. - JACOB, C. Inorganic polysulfides and related reactive sulfur selenium species from the perspective of

chemistry. In *Molecules*, 2019, Vol. 24, Iss. 7, Art. number 1359. (3.060 - IF2018). ISSN 14203049.

- [8] KHARMA, A. - **MISAK, A.** - GRMAN, M. - BREZOVA, V. - KURAKOVA, L. - BARATH, P. - JACOB, C. - CHOVANEC, M. - ONDRIAS, K. - DOMINGUEZ-ALVAREZ, E. Release of reactive selenium species from phthalic selenoanhydride in the presence of hydrogen sulfide and glutathione with implications for cancer research. In *New Journal of Chemistry*, 2019, Vol. 43, Iss. 29, p. 11771-11783. (3.069 - IF2018). ISSN 1144-0546.
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- [10] BERENYIOVA, A. - GRMAN, M. - **MISAK, A.** - GOLAS, S. - CUCHOROVA, J. - CACANYIOVA, S. The possible role of the nitroso-sulfide signaling pathway in the vasomotoric effect of garlic juice. In *Molecules*, 2020, Vol. 25, Iss. 3, Art. number 590. (3.267 - IF2019). ISSN 1420-3049.
- [11] KURAKOVA, L. - **MSAK A.** – TOMASOVA, L. – CACANYIOVA, S. – BERENYIOVA, A. – ONDRIASOVA, E. – BALIS, P. – GRMAN, M. – ONDRIAS, K. Mathematical relationships of patterns of 35 rat haemodynamic parameters for conditions of hypertension resulting from decreased nitric oxide bioavailability. In *Experimental Physiology*, 2020, vol. 105, Iss. 2, p.312-334. (2.431 - IF2019). ISSN 0958-0670.
- [12] CACANYIOVA, S. - KRŠKOVA, K. – ZORAD, S. – FRIMMEL, K. – DROBNA, M. – VALASKOVA, Z. - **MISAK, A.** - GOLAS, S. - BREZA, J. - BERENYIOVA, A. Arterial hypertension and plasma glucose modulate the vasoactive effects of nitroso-sulfide coupled signaling in human intrarenal arteries. In *Molecules*, 2020, Vol. 25, Iss. 12, Art. number 2886. (3.267 - IF2019). ISSN 1420-3049.
- [13] TOMASOVA, L. - **MISAK, A.** - KURAKOVA, L. - GRMAN, M. - ONDRIASOVA, E. - ONDRIAS, K. Characterization of rat cardiovascular system by anacrotic/dicrotic notches in the condition of increase/decrease of no bioavailability. In *International Journal of Molecular Sciences*, 2020, Vol. 24, Iss. 18, p. 1-19, Art. number 6685. (4.556 - IF2019). ISSN 1661-6596.
- [14] KYCA, T. – PAVLIKOVA, L. – BOHACOVA, V. - **MISAK, A.** - POTURNAYOVA, A. – BREIER, A. – SULOVA, Z. – SERES, M. Insight into bortezomib focusing on its efficacy against p-gp-positive mdr leukemia cells. In *International Journal of Molecular Sciences*, 2021, Vol. 22, Iss. 11, Art. number 5504. (5.923 - IF2020).

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- [1] GRMAN, M. - **MISAK, A.** - KURAKOVA, L. - BREZOVA, V. - CACANYIOVA, S. - BERENYIOVA, A. - BALIS, P. - TOMASOVA, L. - KHARMA, A. - DOMINGUEZ-ALVAREZ, E. - CHOVANEC, M. - ONDRIAS, K. Products of sulfide/selenite interaction possess antioxidant properties, scavenge superoxide-derived radicals, react with DNA, modulate blood pressure and tension of isolated

thoracic aorta. In *Oxidative Medicine and Cellular Longevity*, 2019, Vol. 2019, Art. number 9847650. (4.868 - IF2018). ISSN 1942-0900.

- [2] **MISAK, A.** - KURAKOVA, L. - BERENYIOVA, A. - TOMASOVA, L. - GRMAN, M. - CACANYIOVA, S. - ONDRIAS, K. Patterns and Direct/Indirect Signaling Pathways in Cardiovascular System in the Condition of Transient Increase of NO. In *Biomed Research International*, 2020, Vol. 2020, Art. number 6578213. (2.276 - IF2019). ISSN 2314-6133.
- [3] **MISAK, A.** - BREZOVA, V. - GRMAN, M. - TOMASOVA, L. - CHOVANEC, M. - ONDRIAS, K. BMPO-OOH spin-adduct as a model for study of decomposition of organic hydroperoxides and the effects of sulfide/selenite derivatives. An EPR Spin-Trapping Approach. In *Antioxidants*, 2020, Vol. 9, Iss. 10, p. 1-13, Art. number 918. (5.014 - IF2019). ISSN 3076-3921.
- [4] TOMASOVA, L. - GRMAN, M. - **MISAK, A.** - KURAKOVA, L. - ONDRIASOVA, E. - ONDRIAS, K. Cardiovascular “patterns” of h2s and ssno--mix evaluated from 35 rat hemodynamic parameters. In *Biomolecules*, 2021, Vol. 11, Iss. 2, p. 1-19, Art. number 293. (4.879 - IF2020).
- [5] **MISAK, A.** - BREZOVA, V. - CHOVANEC, M. - LUSPAI, K. – NASIM, M. J. - GRMAN, M. - TOMASOVA, L. – JACOB, C. - ONDRIAS, K. EPR study of KO2 as a source of superoxide and •BMPO-OH/OOH radical that cleaves plasmid DNA and detects radical interaction with h2s and se-derivatives. In *Antioxidants*, 2021, Vol. 10, Iss. 8, Art. number 1286. (6.312 - IF2020). ISSN 3076-3921.

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- [1] GRMAN, M. - NASIM, M.J. - LEONTIEV, R. - **MISAK, A.** - JAKUSOVA, V. - ONDRIAS, K. - JACOB, C. Inorganic reactive sulfur-nitrogen species: Intricate release mechanisms or cacophony in yellow, blue and red? In *Antioxidants*, 2017, Vol. 6, Iss. 1, p. 14. ISSN 3076-3921.

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- [3] NOVOTNA, B. - TAKACOVA, M. - HUDECOVA, S. - LENCESOVA, M. - BREZA J. JR. - **MISAK, A.** - CSADEROVA, L. - PASTOREKOVA, S. - KRIZANOVA, O. - BREZA, J. Activation of the ER stress and calcium signaling in angiomyolipoma. In *Neoplasma*, 2016, vol. 63, iss. 5, p. 687-695. (1.961 - IF2015). ISSN 0028-2685.
- [4] **MISAK, A.** - TOMASKOVA, SEVCIKOVA Z. Peculiarities of mitochondrial chloride channel kinetics. In *General Physiology and Biophysics*, 2022, vol. 41, iss.2, p. 101-114. (1.957 - IF2021). ISSN 0231-5882.

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- [1] MACKOVA, K. - **MISAK, A.** - TOMASKOVA, Z. Lifting the Fog over Mitochondrial Chloride Channels. In Ion Channels in Health and Sickness: edited by Fatima Shad Kaneez. - London : IntechOpen, October 10th 2018, p. 175-192. ISBN 978-1-78984-227-2.