**10 publikací za posledních 10 let, prof. MUDr. RNDr. Petr Maršálek, PhD.**

(Období 2015 – 2024)

1. GROBORZ O., MARSALEK P., SEFC L., New insights into the mechanism and prevention of central nervous system oxygen toxicity: A prospective review. Life Sci., vol. 360, item 123169, 11 pages, 2024.   
   Open access. https://doi.org/10.1016/j.lfs.2024.123169
2. CHANG T.R. (TSAI-RONG), MARSALEK P., CHIU T.W. (TZAI-WEN), Strong energy component is more important than spectral selectivity in modeling responses of midbrain auditory neurons to wide-band environmental sounds. Biosystems, vol. 221, no. 104752, 12 pages, 2022.
3. MARSALEK P., SANDA P., BURES Z., On the precision of neural computation with interaural time differences in the medial superior olive.   
   arXiv: https://arxiv.org/abs/2007.00524. 2020.
4. BOUSE J., VENCOVSKÝ V., RUND F., MARSALEK P., Functional rate-code models of the auditory brainstem for predicting lateralization and discrimination data of human binaural perception. J. Acoust. Soc. Am., 145, (1), 1-15, 2019.
5. TOTH P. G., MARSALEK P., POKORA O., Ergodicity and parameter estimates in auditory neural circuits. Biol. Cybern., 112(1-2), 41-55, 2018.   
   Open access. https://doi.org/10.1007/s00422-017-0739-5
6. MARSALEK P., HAJNY M., VOKURKA M., Pathological physiology of visual pathway. Chapter in a book: Homonymous visual defects, edited by: SKORKOVSKA K. Springer International Publishing AG, Cham, Switzerland, pages 17-29, 2017.
7. STOREK D., RUND F., MARSALEK P., Subjective evaluation of three headphone-based virtual sound source positioning methods including differential head-related transfer function. Arch. Acoust. 41(3), 437-447, 2016.   
   Open access. https://doi.org/10.1515/aoa-2016-0043
8. STOREK D., BOUSE J., RUND F., MARSALEK P., Artifact reduction in positioning algorithm using differential HRTF. J. Audio Eng. Soc. 64(4), 208-217, 2016.
9. TOTH P. G., MARSALEK P., Analytical description of coincidence detection synaptic mechanisms in the auditory pathway. Biosystems, 136, 90-98, 2015.
10. KURISCAK E., MARSALEK P., STROFFEK J., TOTH P. G., Biological context of Hebb learning in artificial neural networks, a review. Neurocomputing, 152, 27-35, 2015.

V Praze, leden 2025 Petr Maršálek