

Andrew S. French - Publications

Refereed papers published or in press:

185. Saari, P., Immonen, E.V., Kemppainen, J., Heimonen, K., Zhukovskaya, M., Novikova, E., French, A.S., Torkkeli, P.H., Liu, H. and Frolov, R. (2018) Changes in electrophysiological properties of photoreceptors in *Periplaneta americana* associated with the loss of screening pigment. *Journal of Comparative Physiology A* **204**: 915-928.
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183. Frolov, R., Immonen, E.V., Saari, P., Torkkeli, P.H., Liu, H. and French, A.S. (2018) Phenotypic plasticity in *Periplaneta americana* photoreceptors. *Journal of General Physiology* **150**: 1386-1396.
182. Sukumar, V., Liu, H., Meisner, S., French, A.S. and Torkkeli, P.H. (2018) Multiple biogenic amine receptor types modulate spider, *Cupiennius salei*, mechanosensory neurons. *Frontiers in Physiology* **9**: 857. doi: 10.3389/fphys.2018.00857.
181. French, A.S. and Pfeiffer, K. (2018) Nonlinearization: Naturalistic stimulation reveals nonlinear dynamic behavior in a spider mechanoreceptor. *Biological Cybernetics* **112**: 403-413. doi: 10.1007/s00422-018-0763-0.
180. Ignatova, I., French, A.S. and Frolov, R. (2018) Effects of phase correlations in naturalistic stimuli on quantitative information coding by fly photoreceptors. *Journal of Neurophysiology* **119**: 2276-2290. doi: 10.1152/jn.00017.2018.
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178. Saari, P., French, A.S., Torkkeli, P.H., Liu, H., Immonen, E.V. and Frolov, R. (2017) Distinct roles of light-activated channels TRP and TRPL in photoreceptors of *Periplaneta americana*. *Journal of General Physiology* **149**: 455-464. doi: 10.1085/jgp.201611737.
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176. Liu, H., French, A.S. and Torkkeli, P.H. (2017) Expression of Cys-loop receptor subunits and acetylcholine binding protein in the mechanosensory neurons, glial cells and muscle of the spider *Cupiennius salei*. *Journal of Comparative Neurology* **525**: 1139-1154. doi: 10.1002/cne.24122.
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170. Ignatova, I., French, A.S., Frolov, R. and Weckström, M. (2014) Equilibrating errors: reliable estimation of information transmission rates in biological systems. *Biological Cybernetics* **108**: 305-320.
169. French, A.S., Li, A.W., Meisner, S. and Torkkeli, P.H. (2014) Upstream open reading frames and Kozak regions of a set of assembled transcriptome sequences from the spider *Cupiennius salei*. *Gene* **539**: 203–208.
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