

2021年度生理学研究所「痛みの研究会」

特別教育講演「慢性痛の成立における腕傍核・扁桃体システム可塑性の能動的役割」

(慈恵医大・痛み脳科学センター・加藤総夫)紹介論文リスト

1. Ikeda, R., Takahashi, Y., Inoue, K., & Kato, F. (2007). NMDA receptor-independent synaptic plasticity in the central amygdala in the rat model of neuropathic pain. *Pain*, 127(1–2), 161–172. <https://doi.org/10.1016/j.pain.2006.09.003>
2. Nakao, A., Takahashi, Y., Nagase, M., Ikeda, R., & Kato, F. (2012). Role of capsaicin-sensitive C-fiber afferents in neuropathic pain-induced synaptic potentiation in the nociceptive amygdala. *Molecular Pain*, 8. <https://doi.org/10.1186/1744-8069-8-51>
3. Kinoshita, J., Takahashi, Y., Watabe, A. M., Utsunomiya, K., & Kato, F. (2013). Impaired noradrenaline homeostasis in rats with painful diabetic neuropathy as a target of duloxetine analgesia. *Molecular Pain*, 9(1). <https://doi.org/10.1186/1744-8069-9-59>
4. Sato, M., Ito, M., Nagase, M., Sugimura, Y. K., Takahashi, Y., Watabe, A. M., & Kato, F. (2015). The lateral parabrachial nucleus is actively involved in the acquisition of fear memory in mice. *Molecular Brain*, 8(1). <https://doi.org/10.1186/s13041-015-0108-z>
5. Sugimura, Y. K., Takahashi, Y., Watabe, A. M., & Kato, F. (2016). Synaptic and network consequences of monosynaptic nociceptive inputs of parabrachial nucleus origin in the central amygdala. *Journal of Neurophysiology*, 115(6), 2721–2739. <https://doi.org/10.1152/jn.00946.2015>
6. Shinohara, K., Watabe, A. M., Nagase, M., Okutsu, Y., Takahashi, Y., Kurihara, H., & Kato, F. (2017). Essential role of endogenous calcitonin gene-related peptide in pain-associated plasticity in the central amygdala. *European Journal of Neuroscience*, 46(6), 2149–2160. <https://doi.org/10.1111/ejn.13662>
7. Okutsu, Y., Takahashi, Y., Nagase, M., Shinohara, K., Ikeda, R., & Kato, F. (2017). Potentiation of NMDA receptor-mediated synaptic transmission at the parabrachial-central amygdala synapses by CGRP in mice. *Molecular Pain*, 13. <https://doi.org/10.1177/1744806917709201>

8. Miyazawa, Y., Takahashi, Y., Watabe, A. M., & Kato, F. (2018). Predominant synaptic potentiation and activation in the right central amygdala are independent of bilateral parabrachial activation in the hemilateral trigeminal inflammatory pain model of rats. *Molecular Pain*, 14. <https://doi.org/10.1177/1744806918807102>
9. Kato, F., Sugimura, Y. K., & Takahashi, Y. (2018). Pain-associated neural plasticity in the parabrachial to central amygdala circuit: Pain changes the brain, and the brain changes the pain. *Advances in Experimental Medicine and Biology*, 1099, 157–166. https://doi.org/10.1007/978-981-13-1756-9_14
10. Arimura, D., Shinohara, K., Takahashi, Y., Sugimura, Y. K., Sugimoto, M., Tsurugizawa, T., Marumo, K., & Kato, F. (2019). Primary Role of the Amygdala in Spontaneous Inflammatory Pain- Associated Activation of Pain Networks – A Chemogenetic Manganese-Enhanced MRI Approach. *Frontiers in Neural Circuits*, 13. <https://doi.org/10.3389/fncir.2019.00058>
11. Sugimoto, M., Takahashi, Y., Sugimura, Y. K., Tokunaga, R., Yajima, M., & Kato, F. (2021). Active role of the central amygdala in widespread mechanical sensitization in rats with facial inflammatory pain. *Pain*, 162(8), 2273–2286. <https://doi.org/10.1097/j.pain.0000000000002224>
12. Ito, M., Nagase, M., Tohyama, S., Mikami, K., Kato, F., & Watabe, A. M. (2021). The parabrachial-to-amygdala pathway provides aversive information to induce avoidance behavior in mice. *Molecular Brain*, 14(1). <https://doi.org/10.1186/s13041-021-00807-5>
13. Yamamoto, S., Takahashi, Y., & Kato, F. (2021). Input-dependent synaptic suppression by pregabalin in the central amygdala in male mice with inflammatory pain. *Neurobiology of Pain* (Cambridge, Mass.), 10, 100078. <https://doi.org/10.1016/j.ynpai.2021.100078>