

## CSABA FEKETE



Institute of Experimental Medicine  
Integrative Neuroendocrinology Research Group

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## RESEARCH AREA

The main research goals of our laboratory are the elucidation of the central regulatory mechanisms controlling the hypothalamic-pituitary-thyroid axis and the examination of the neuronal circuits controlling the energy homeostasis.

## TECHNIQUES AVAILABLE IN THE LAB

Immunocytochemistry, elektron microscopy, laser capture microdissection, metabolic characterization of rodents, patch-clamp electrophysiology, in situ hybridization, transcriptome analysis, antibody generation.

## SELECTED PUBLICATIONS

Farkas, E., Varga, E., Kovács, B., Szilvász-Szabó, A., Cote-Vélez, A., Péterfi, Z., Matziari, M., Tóth, M., Zelena, D., Mezriczky, Zs. et al. (2020) A glial-neuronal circuit in the median eminence regulates thyrotropin-releasing hormone-release via the endocannabinoid system. **Isience** **23**: 100921. 41 p.

Mohacsik, P., Erdelyi, F., Baranyi, M., Botz, B., Szabo, G., Toth, M., Haltrich, I., Helyes, Z., Sperlagh, B., Toth, Z. et al. (2018) A transgenic mouse model for detection of tissue-specific thyroid hormone action. **Endocrinology** **159**: 1159-1171. 13 p.

Péterfi, Z., Farkas, I., Denis, R.G.P., Farkas, E., Uchigashima, M., Füzesi, T., Watanabe, M., Lechan, R.M., Liposits, Z., Luquet, S. et al. (2018) Endocannabinoid and nitric oxide systems of the hypothalamic paraventricular nucleus mediate effects of NPY on energy expenditure. **Molecular Metabolism** **18**: 120-133. 14 p.

**Fekete, C.**, Lechan, R.M. (2014) Central Regulation of Pituitary-Thyroid Axis Under Physiological and Pathophysiological Conditions. **Endocrine Reviews** **35**: 59-194. 36 p.

Kola, B., Farkas, I., Christ-Crain, M., Wittmann, G., Loll, F., Amin, F., Harvey-White, J., Liposits, Z., Kunos, G., Grossman, A.B. et al. (2008) The orexigenic effect of ghrelin is mediated through central activation of the endogenous cannabinoid system. **Plos One** **3**: 3. Paper: e1797.