

# KATALIN KOVÁCS-ROZMER



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## RESEARCH AREA

Neurobiological and pharmacological study of pain mechanisms and neuroinflammation, focusing on the role of TRP ion channels (TRPA1, TRPV1) in chronic pain and inflammation, and the cellular pathways of neuropeptides and neuromodulation.

## TECHNIQUES AVAILABLE IN THE LAB

Immunohistochemistry, RNAscope

## SELECTED PUBLICATIONS

Simon, DV., **Rozmer, K.**, Kepe, E., Tóth, N., Pohóczky, K., Salamonné, Mihály O., Török, B., Renner, É., Palkovits, M., Helyes, Z., Borbély, É. (2025) Widespread neuronal hemokinin-1 expression in motor regions and its protective role in age-related impairment. **Geroscience**

Hudhud, L., **Rozmer, K.**, Kecskés, A., Pohóczky, K., Bencze, N., Buzás, K., Szőke, É., Helyes, Zs. (2024) Transient Receptor Potential Ankyrin 1 Ion Channel Is Expressed in Osteosarcoma and Its Activation Reduces Viability. **Int J Mol Sci 25**: 3760.

Borbély, É., Kecskés, A., Kun, J., Kepe, E., Fülöp, B., **Kovács-Rozmer, K.**, Scheich, B., Renner, É., Palkovits, M., Helyes, Zs. (2023) Hemokinin-1 is a mediator of chronic restraint stress-induced pain. **Sci Rep 13**: 20030.

Steib, A., **Rozmer, K.**, Szőke, É., Kun, J., Farkas, N., Feller, D., Pongrácz, J., Pohóczky, K., Helyes, Zs. (2025) The TRPA1 cation channel is upregulated by cigarette smoke in mouse and human macrophages modulating lung inflammation. **Sci Rep 15**: 10661.

Kormos, V., Kriszta, G., Al-Omari, A., **Kovács-Rozmer, K.**, Konkoly, J., Pozsgai, G., Pintér, E. (2024) TRP channels as potential target molecules for pharmacotherapy of neurological diseases. **Elsevier Academic Press**: 421-455.