ERIKA PINTÉR

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RESEARCH AREA

Scientific interests: neuro-immuno-pharmacology, inflammation The role of capsaicin-sensitive sensory nerve endings in the regulation of microcirculation and neurogenic inflammation. Immunomodulatory effects of neurogenic inflammation. Anti-inflammatory effects of somatostatin and its analogues. Biological effects of hydrogen sulphide.

TECHNIQUES AVAILABLE IN THE LAB

In vivo pain, inflammation, behaviour tests in mice, rats. ELISA, RIA, PCR, RNA probe, immunohistochemistry, histology. Pharmacogenetics. In silico pharmacology, in vivo imaging techniques.

SELECTED PUBLICATIONS

Saghy, E., Sipos, E., Acs, P., Bolcskei, K., Pohoczky, K., Kemeny, A., Sandor, Z., Szoke, E., Setalo Jr. G., Komoly, S., **Pinter, E.** (2016) TRPA1 deficiency is protective in cuprizone-induced demyelination-A new target against oligodendrocyte apoptosis. **Glia 64:** 2166-2180.

Kemény, A., Kodji, X., Horváth, Sz., Komlódi, R., Szőke, E., Sándor, Z., Perkecz, A., Gyömörei, Cs., Sétáló, Gy., Kelemen, B., Biro, T., Toth, B., **Pinter, E.**, Gyulai, R. (2018) TRPA1 acts in a protective manner in imiquimod-induced psoriasiform dermatitis in mice. **J Invest Dermatol 138:** 1774-1784.

Bátai, István Z., Pápainé Sár, C., Horváth, Á., Borbély, É., Bölcskei, K., Kemény, Á., Sándor, Z., Nemes, B., Helyes, Zs., Perkecz, A., Mócsai, A., Pozsgai, G., **Pintér, E.** TRPA1 Ion Channel Determines Beneficial and Detrimental Effects of GYY4137 in Murine Serum-Transfer Arthritis. (2019) **Front Pharmacol 10:** 964.

Kriszta, G., Nemes, B., Sándor, Z., Ács, P., Komoly, S., Berente, Z., Bölcskei, K., **Pintér, E.** (2020) Investigation of Cuprizone-Induced Demyelination in mGFAP-Driven Conditional Transient Receptor Potential Ankyrin 1 (TRPA1) Receptor Knockout Mice. **Cells 9:** 81

Kántás, B., Szőke, É., Börzsei, R., Bánhegyi, P., Asghar, J., Hudhud, L., Steib, A., Hunyady, Á., Horváth, Á., Kecskés, A., Borbély, É., Hetényi, Cs., Petfő, G., **Pintér, E.** (2021) In Silico, In Vitro and In Vivo Pharmacodynamic Characterization of Novel Analgesic Drug Candidate Somatostatin SST4 Receptor Agonists **Front Pharmacol 11:** 601887