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RESEARCH AREA

Ion channel structure-function. CFTR chloride ion channel. TRPM2 cation channel.

TECHNIQUES AVAILABLE IN THE LAB

Patch-clamp
Molecular biological techniques
Protein purification techniques
Enzyme kinetics measurements

SELECTED PUBLICATIONS

Mihályi, C., Iordanov, I., Töröcsik, B., **Csanády, L.** (2020) Simple binding of protein kinase A, prior to phosphorylation, allows CFTR anion channels to be opened by nucleotides. **Proc Natl Acad Sci USA 117**: 21740-21746.

Liu, F., Zhang, Z., **Csanády, L.**, Gadbsy, D.C., Chen, J. (2017) Molecular structure of the human CFTR ion channel. **Cell 169**: 85-95.

Sorum, B., Czege, D., **Csanády, L.** (2015) Timing of CFTR Pore Opening and Structure of Its Transition State. **Cell 163**: 724-733.

Tóth, B., Iordanov, I., **Csanády, L.** (2014) Putative channelzyme activity of TRPM2 cation channel is unrelated to pore gating. **Proc Natl Acad Sci USA 111**: 16949-16954.

Tóth, B., **Csanády, L.** (2012) Pore collapse underlies irreversible inactivation of TRPM2 cation channel currents. **Proc Natl Acad Sci USA 109**: 13440-13445.