



UNIVERSITY OF
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URBANA - CHAMPAIGN

Postdoctoral position in Structural Biology of Ion Channels

The laboratory of Dr. Claudio Grosman lab in the University of Illinois at Urbana-Champaign is seeking to fill an NIH-funded postdoctoral position to work on the structural aspects of pentameric ligand-gated ion channels. The laboratory combines structural biology, high-resolution electrophysiology, and molecular simulations to address fundamental questions about ion-channel mechanisms. Previous experience with the purification of eukaryotic membrane proteins and structure determination using single-particle cryo-EM is absolutely required. The salary will be commensurate with experience.

Interested individuals should contact Prof. Claudio Grosman (grosman@illinois.edu) with a CV, a 1–2 page description of previous research, and names and contact information of 2–3 references. Students in their final year of Ph.D. training are also encouraged to apply.

Some recent publications from the Grosman lab are listed below.

Recent Select Publications

- Kumar P, Cymes GD, Grosman C. Structure and function at the lipid-protein interface of a pentameric ligand-gated ion channel. *Proc. Natl. Acad. Sci. USA*. 2021;118(23). doi: [10.1073/pnas.2100164118](https://doi.org/10.1073/pnas.2100164118)
- Cymes GD, Grosman C. Signal transduction through Cys-loop receptors is mediated by the nonspecific bumping of closely apposed domains. *Proc. Natl. Acad. Sci. USA*. 2021;118(14). doi: [10.1073/pnas.2021016118](https://doi.org/10.1073/pnas.2021016118)
- Kumar P, Wang Y, Zhang Z, Zhao Z, Cymes GD, Tajkhorshid E, Grosman C. Cryo-EM structures of a lipid-sensitive pentameric ligand-gated ion channel embedded in a phosphatidylcholine-only bilayer. *Proc. Natl. Acad. Sci. USA*. 2020;117(3):1788-1798. doi: [10.1073/pnas.1906823117](https://doi.org/10.1073/pnas.1906823117)

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