

Department of Pharmacology

2023 - 2024 Seminar Series



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“CLC “Chloride Channels”: dissecting unusual mechanisms of ion transport”

Ion transport across cell membrane sets up and exploits ion gradients, providing energy stores and electrical signaling that are foundational to life. Ion channels form pores that allow ions to move across membranes passively, while active transporters can move ions across membranes against their electrochemical gradients. The

CLC “Chloride Channel” family is distinctive in containing both passive chloride channels and active (chloride/proton exchange) transporters. In this talk, I will describe my lab’s recent work in uncovering details of the CLC chloride/proton exchange mechanism and in identifying a novel gating mechanism in the CLC-2 chloride channel.

February 6th, 2024

4:00 PM

214 Light Hall

Host: Tina Iverson