

CHEMISTRY SEMINAR

"CHANNELRHODOPSIN-2 IS A LEAKY PROTON PUMP"

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Wednesday, Feb 23
12:00 p.m.
WSB-122

Abstract:

Channelrhodopsin-2 (ChR2) is a light-gated ion channel native to the eyespot of unicellular alga *Chlamydomonas reinhardtii*. ChR2 is involved in the photoreception and the phototactic behavior of the cell. Represented by 7-transmembrane helix protein motif, ChR2 is from a subfamily of proteins called opsins. Aside from the biological function, ChR2 has various applications in neural biology. ChR2 is known for its ability to be expressed functionally in neural cells of both culture and living animals. However, there is not much known of the basic function of ChR2. In this literature review of the journal *Channelrhodopsin-2 is a Leaky Proton Pump*, the basic functions of ChR2 are investigated and discussed.