Phcol 529: Ion Channel Pharmacology & Genetics
Autumn Quarter, 2023. 2 credits.
Draft Schedule of May 23, 2023.

Course Chairs
Bill Catterall and Yasemin Sancak
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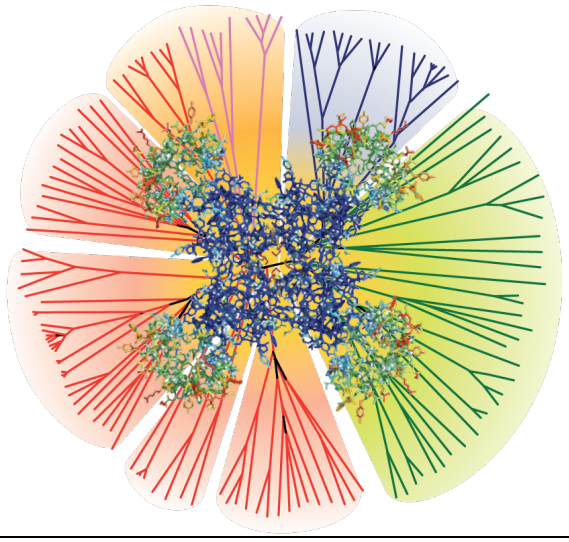
Combined Lectures and Discussion.
Open to interested students, postdoctoral fellows, and research associates. Students will be graded.



Class	Date	Faculty Member	Topic
1	Sept 27	Bill Catterall Professor, Pharmacology	Introduction to Sodium and Calcium Channels, Pharmacology, and Ion Channelopathies
2	Oct 4	Bill Catterall Professor, Pharmacology	Introduction to Potassium Channels, Pharmacology, and Ion Channelopathies
3	Oct 11	George Wisedchaisri Research Asst. Professor Pharmacology	Ion Channel Structural Biology: TRP Channels & The CryoEM Revolution
4	Oct 18	Tamer Gamal El-Din Research Asst. Professor Pharmacology	Pathologic Gating Pore Current in Periodic Paralysis and Autism
5	Oct 24 Wednesday Phcol Seminar	Show-Ling Shyng Professor Oregon Health & Science University, Portland OR	ATP Gated Potassium Channels
6	Nov 1	Claudia Moreno & Oscar Vivas Assistant Professors Physiology & Biophysics and Pharmacology	Regulation of Voltage Gated Calcium Channels
7	Nov 8	Bill Zagotta Professor Physiology & Biophysics	Cyclic Nucleotide Regulated Channels
8	Nov 15	Yasemin Sancak Assistant Professor Pharmacology	Mitochondrial Calcium Channels
No Class	Nov 22	Thanksgiving Break	
9	Nov 29	Devasena Ponnalagu Assistant Professor Pharmacology	Mitochondrial Chloride Channels
10	Dec 6	Yasemin Sancak and Bill Catterall	CFTR: Cystic Fibrosis Transmembrane Conductance Regulator

Class Time and Place: Wednesday, 3:30 to 5:30 pm, Room K550 Health Science Building, except for the class with our Guest Speaker in the Pharmacology Seminar series on Tuesday October 24th at 2:30 pm.

Classes 1 and 2 will be in lecture format to introduce basic concepts of ion channels, pharmacology, and ion channelopathies and to allow students time to prepare for subsequent presentations.

Classes 3, 4 and 6-10 will have the general format of one hour of lecture to introduce the topic followed by one hour of student or postdoc presentation and discussion of assigned papers. Class size: 6-12 graduate students expected. Typically from Phcol, PBio, Neuro, BPSD, and MCB. We will limit class size to 12 maximum to facilitate discussion.