

Membrane Protein Interest Group Postdoc Symposium, January 25, 2011, 1-6 pm

This symposium will take place in the Cloister (Building 60) lecture hall on January 25, from 1 pm to 6 pm, and will feature a series of 10 minute talks by NIH postdoctoral fellows. The program is as follows:

1:00 – 1:05 pm: Opening remarks

1:05 – 2:05 pm: Session One (Chair: Susan Buchanan, NIDDK)

- **Matthew D. Hall**, NCI, Lysosomal trapping of a radiolabeled substrate of P-glycoprotein as a mechanism for positron emission tomography signal amplification
- **Silvia Locatelli-Hoops**, NIAAA, Expression, characterization and purification of recombinant cannabinoid receptor CB2 as a fusion with halo- and C-terminal rhodopsin tags
- **Nicholas Noinaj**, NIDDK, Structural insights into iron pirating by pathogenic *Neisseria*
- **Junxia Lu**, NIDDK, Evidence from solid-state NMR for non-helical conformations in the transmembrane domain of the amyloid precursor protein
- **Mufeng Li**, NINDS, Pore-opening mechanism in trimeric P2X receptor channels

2:05 – 2:15 pm: Break

2:15 – 3:15 pm: Session Two (Chair: Joe Mindell, NINDS)

- **Yuhong Chen**, NCI-Frederick, Fully synthetic fusogenic proviral particles targeting cancer cells
- **Fangqiang Zhu**, NIDDK, Multiscale simulation of ion channel gating
- **Robert Rutledge**, NCI, The Pdr5p ABC transporter: A molecular modeling study
- **Suresh Jayasekara**, NIDDK, Modification of pyrimidine nucleotides with 4-alkoxyamino and δ -esters of terminal phosphate as selective agonist of the P2Y4 receptor
- **Justin Lorieau**, NIDDK, Interactions that stabilize the tight helical hairpin structure at the lipid:water interface

3:15 – 3:25 pm: Break

3:25 – 4:25 pm: Session Three (Chair: Suresh Ambudkar, NCI)

- **Ehud Ohana**, NIDCR, Determinants of coupled transport and uncoupled current by the electrogenic SLC26 transporters
- **Jaya Bhatnagar**, NCI, Mapping conformational changes associated with the catalytic cycle of human P-glycoprotein (ABCB1) with pulse dipolar spectroscopy and cysteine residue crosslinking
- **Candice Schwartz**, NCI, Use of Baculovirus bacmam vectors for expression of ABC drug transporters in mammalian cells
- **Karl Erlandson**, NIAID, Membrane curvature in poxvirus assembly
- **Pablo Sandoval**, NHLBI, Mass spectrometry-based large-scale profiling of protein half lives in cultured renal collecting duct cells

4:25 – 6:00 pm: Reception with Refreshments

For more information contact
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