

Second Annual Retreat on Ionotropic Glutamate Receptors

August 6/7, 2014



Tuesday August 5, 2014

6:00 PM **Welcoming Barbecue Dinner** at Dr. Popescu's Home; 22 Garden Ct Amherst, NY 14220

Wednesday August 6, 2014

9:00 - 9:15 Welcome and Opening Remarks – Student Union 330

Bowie, Popescu, Kraus

09:15-10:00: Dr. Anthony Auerbach – SUNY University at Buffalo, Physiology

Thinking in cycles: thermodynamics of muscle AChRs

10:00 – 10:20 - Corrie daCosta – Mayo Clinic – Rochester, Biochemistry, Microbiology & Immunology

Symmetric activation of a ligand-gated channel

10:30 -10.45: Coffee Break/Refreshments – Student Union 215

10:45 – 11:15: Maria Kurnikova – Carnegie Mellon University, Chemistry

Tops and Bottoms: Modeling interactions within individual domains of AMPA and NMDA

11:15- 12:00: **DATA BLITZ - Student Union 330**

Alfred QuanGan, Madeleine Wilcox, Raminta Venskutonyte, Kirstie Cummings, Nathan Glasgow, Rita Sirrieh, Aparna Nigam, Maria Musgaard

12:00 - 1:00: Lunch – Student Union 215 - **Group Picture!**

1:00 - 3:00: **Poster Session I – Student Union 215**

3:00- 3:20: Jim Huettner–Wash U in St. Louis, Molecular Biology, Neuroscience &Biophysics

Allosteric regulation of chimeric glutamate receptors

3:30 - 3:50: Steve Traynelis – Emory University, Pharmacology

Context-dependent NMDA receptor antagonism

4:00 - 4:20: Vasanthi Jayaraman – University at Texas, Biochemistry and Molecular Biology

Moving and Grooving

4:30 - 4:50: Geoff Swanson – Northwestern University, Pharmacology

Exploring the structural basis of kainate receptor modulation by Neto Proteins

7:00- 9:00: Dinner @ Anchor Bar; the Home of Buffalo Chicken Wings

1047 Main Street Buffalo, New York 14209

Thursday, August 7, 2014

All Talks are in Student Union Theater on First Floor

9:00 - 9:20: Phil Biggin – Oxford University, Biochemistry

A Dynamic View of Kainate and AMPA Receptor Function

9:30 - 9:50: Jette Kastrup – University at Copenhagen, Drug Design and Pharmacology

Structural investigations on GluA2 and GluK1: Domain movements and allosteric modulation

10:00 - 10:20: David Stellwagen – McGill University, Neurology & Neurosurgery

Regulation of synaptic AMPA receptors by TNF

10.30-10.45: Coffee Break/Refreshments – Student Union 215

10:45 - 11:05: Li Niu – SUNY University at Albany, Chemistry

AMPA Receptor Inhibitors: 2,3-Benzodiazepine Compounds and RNA Aptamers

11:15 - 11:35: Mark Bowen – SUNY Stony Brook University, Physiology & Biophysics

Linking the Intrinsically Disordered Cytoplasmic Domain to Allosteric Regulation of gating in GluN2B containing NMDA Receptors

11:45- 12:30: **DATA BLITZ** - Student Union Theater

Claire Vernon, Semaneh Mesbahi, Swarna Ramaswamy, Karla Frydenvang, Paul Hoerbelt, Drew Dolino, Mark Arousseau

12:30 - 1:30: Lunch – Student Union 215

1:30 - 2:30: Poster Session II – Student Union 215

2:30 - 2:50: Alastair Gibb – University College London, Neurophysiology & Pharmacology

Evidence for triheteromeric 2B/2D NMDA receptors in substantia nigra dopaminergic neurons

3:00 - 3:20: Jon Johnson – University of Pittsburgh, Neuroscience, Psychiatry, Biophysics & Pharmacology

NMDA Receptor Channel Properties

3:30- 3:50: Derek Bowie – McGill University, Pharmacology & Therapeutics

AMPA receptors and synapse development

4:00 – 5:00 Cake and champagne;

Prizes for Best Poster and Best Short Oral Presentation

Drive home safely; see you next summer!!