6th Annual iGluR Retreat

31 July – 2 August 2018

Talk & poster session location: Frick Fine Arts Building
650 Schenley Drive, Pittsburgh 15260

Tuesday, 31 July

Welcome Reception and Dinner — 7:00 pm
Location: The Porch at Schenley, 211 Schenley Drive, Pittsburgh 15213

Wednesday, 1 August

Registration, Frick Fine Arts Building	9:00 – 9:20 am
Opening Remarks	9:20 – 9:30 am
Session 1.	9:30 – 10:35 am
Linda Nowak (Cornell University) *"Dynamic mechanisms of allosteric modulation of AMPA receptors revealed through single channel recordings"*	9:30 – 9:55 am
Ian Coombs (University College London) *"A conducting desensitized AMPA receptor"*	9:55 – 10:20 am
Sameneh Mesbahi-Vasey (Carnegie Mellon University) *"Modeling glutamate receptor structure/function relationships"*	10:20 – 10:35 am
Coffee Break	10:35 – 10:55 am
Session 2.	10:55 am – 12:15 pm
Albert Lau (Johns Hopkins University) *"Life in the fast lane: binding to glutamate receptors"*	10:55 – 11:20 am
Lania Rubio (University of Pittsburgh) *"Differential targeting of fast kinetic GluA3 and GluA4 AMPA receptor subunits at auditory nerve synapses"*	11:20 – 11:45 am
Matthew MacDonald (University of Pittsburgh) *"Synaptic GRIA2/3 levels are altered in the auditory cortex of schizophrenia"*	11:45 am – noon
Mary Torregrossa (University of Pittsburgh) *"Sex differences in the regulation of alcohol motivated behaviors by AMPA and NMDA receptors"*	noon - 12:15 pm
Lunch and Group Photo	12:15 – 1:45 pm
Session 3.	1:45 – 2:55 pm
Pierre Paoletti (Ecole Normale Supérieure) *"Mechanism of allosteric transduction in NMDA receptors"*	1:45 – 2:10 pm
Farzad Jalali-Yazdi (Oregon Health & Science University) *"Mechanism for zinc and proton inhibition of the GluN1/GluN2A NMDA receptor"*	2:10 – 2:25 pm
Thanos Tzounopoulos (University of Pittsburgh) *"Mechanisms of synaptic zinc plasticity at mouse dorsal cochlear nucleus glutamatergic synapses"*	2:25 – 2:40 pm
Gary Iacobucci (University at Buffalo) *"A common kinetic mechanism underlies the subtype-dependence of NMDA receptor Ca^{2+}-dependent inactivation"*	2:40 – 2:55 pm

Poster Session 1 (with coffee) 2:55 – 4:25 pm

Session 4. 4:25 – 5:20 pm

Ivet Bahar (University of Pittsburgh) *"Allosteric dynamics of ionotropic glutamate receptors: insights from elastic network models and molecular simulations"* 4:25 – 4:50 am

Geoffery Swanson (Northwestern University) *"Neurodevelopmental disorders caused by rare genetic variants in kainate receptor genes"* 4:50 – 5:05 pm

Sushree Tripathy (University at Buffalo) *"Structural correlates of agonist action at nicotinic receptors"* 5:05 – 5:20 pm

Retreat Banquet 7:00 pm
Location to be determined

Thursday, 2 August

Session 5. Chair, X (location) 9:00 – 10:20 am

Michael Salter (University of Toronto) *"GluN1 splicing controls set-point for hippocampal plasticity and learning"* 9:00 – 9:25 am

Weifeng Xu (MIT) *"Tuning synaptic plasticity via neurogranin-dependent regulation of neuronal phosphoproteome and PP2B Activity"* 9:25 – 9:50 am

Johansen Amin (Stony Brook U) *"A conserved glycine harboring disease-associated mutations is required for slow deactivation and high Ca^{2+} permeability of NMDA receptors"* 9:50 – 10:05 am

Matthew Phillips (University of Pittsburgh) *"Effects of intracellular calcium on NMDA* receptor inhibition by memantine" 10:05 – 10:20 am

Coffee Break 10:20 – 10:40 am

Session 6. Chair, X (location) 10:40 am – noon

Sharon Swanger (Virginia Tech) *"Functional diversity of NMDARs in the thalamus"* 10:40 – 11:05 am

Yan Dong (University of Pittsburgh) *"Synapse engram of cocaine memories"* 11:05 – 11:30 am

Chris Dulla (Tufts University) *"High-affinity NMDA receptors and interneuron development"* 11:30 – 11:45 am

Laura Fedele (University College London) *"Dysfunctional NMDARs associated with neurodevelopmental disorders"* 11:45 am - noon

Lunch noon – 1:10 pm

Poster Session 2 (with coffee) 1:10 – 2:40 pm

Session 7. Chair, X (location) 2:40 – 3:35 pm

Hiro Furukawa (Cold Spring Harbor Laboratory) *"Structural insights into regulation of NMDAR functions"* 2:40 – 3:05 pm

Alasdair Gibb (University College London) *"Tetrameric subunit-dependent modelling of NMDA receptor kinetics"* 3:05 – 3:30 pm

Huan-Xiang Zhou (University of Illinois-Chicago) *"Gating motions and stationary gating properties of ionotropic glutamate receptors: computation meets electrophysiology"* 3:30 – 3:45 pm

Closing Remarks 3:45 pm