

5th Annual iGluR Retreat

August 7-9, 2017



Yale

Monday August 7th, 2017

(option) 6:10 meet at the Omni Hotel lobby to walk to BAR

Welcome Reception at BAR

Time: 6:30-9:00

Location: 254 Crown St, New Haven, CT 06511 (Phone: (203) 495-8924)

Tuesday August 8th, 2017

@The Anylan Center (TAC), 300 Cedar Street, New Haven, CT06520

All talks will be held in room N107 and posters will be presented at the TAC lobby

(option) 8:15 meet at the Omni Hotel lobby to walk to the Yale TAC building

8:30-9:00 Registration at the TAC lobby and posters setting up

9:00-9:10 Opening Remarks

Session 1: Chair: Maria Kurnikova (Carnegie Mellon University)

9:10-9:40 **Stuart Cull-Candy (University College London)** *"Reflections on Jim and glutamate receptors 30yrs on – plus a patchwork of recent experiments on CP-AMPARs"*

9:40-10:10 **Alexander Sasha Sobolevsky (Columbia University)** *"Elucidation of AMPA receptor-stargazin complexes by cryo-electron microscopy"*

10:10-10:30 **Irene Riva (Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP))** *"Control of AMPA receptor activity by the extracellular loops of auxiliary subunits."*

10:30-11:00 Coffee break / Poster

Session 2: Chair : Li Niu (University at Albany, SUNY)

11:00-11:30 **Gabriela Popescu (University at Buffalo, SUNY)** *"Glycinergic NMDA receptors mediate pH-dependent neuronal excitability"*

11:30-12:00 **Pablo E Castillo (Albert Einstein College of Medicine)** *"Unconventional NMDA receptor functions in the hippocampus"*

12:00-12:20 **Joongkyu Park (Yale University)** *"Towards controlling a substrate for NMDAR-dependent LTP"*

Lunch and Poster 12:20-1:20

Group Photo 1:20-1:30

Session 3: Chair: Terunaga Nakagawa (Vanderbilt University)

1:30-2:00 **David Bredt (Janssen Research and Development LLC)** *"Getting a handle on neuropharmacology by targeting receptor-associated proteins"*

2:00-2:30 **Lonnie Wollmuth (Stony Brook University)** *"Gating motifs in NMDA receptors targeted by disease mutations"*

2:30-2:50 **Maddy Wilcox (University of Pittsburgh)** *"Drug access to the NMDAR pore through a putative hydrophobic pathway"*

2:50-3:50 Poster session with Presenters

Session 4: Chair: Katherine Roche (NIH/NINDS)

3:50-4:20 **Steve Traynelis (Emory University)** *"Structurally-inspired models of glutamate receptor function"*

4:20-4:50 **Lu-Yang Wang (University of Toronto)** *"Delayed expression of activity-dependent gating switch in synaptic AMPARs at a central synapse"*

4:50-5:20 **Jim Howe (Yale University)** *"Thirty years of iGluRs: past, present, and future"*

(Option) 5:45 Walk to Union league

Dinner at Union League

Location: 1032 Chapel St A, New Haven, CT 06510, New Haven, CT

Time: 6:00

Wednesday August 9th, 2017

@ Room N107 of The Anylan Center (TAC), 300 Cedar Street, New Haven, CT06520

(option) 8:30 meet at the Omni Hotel lobby to walk to the Yale TAC building

Session 5 Chair: Kasper B. Hansen (University of Montana)

9:00-9:30 **Tony Auerbach (University at Buffalo, SUNY)** *"Desensitization"*

9:30-10:00 **Derek Bowie (McGill University)** *"Defective excitatory and inhibitory circuits of the Fragile-X brain"*

10:00-10:20 **Jessica Nuwer (Albany Medical College)** *"Characterizing the GABA(A) theta subunit"*

10:20-10:40 Coffee

Session 6 Chair: Jette Sandholm Kastrup (University of Copenhagen)

10:40-11:00 **Céline Auger (CNRS)** *"Information coding by postsynaptic receptors at parallel fibre to Purkinje cell synapses in the cerebellum."*

11:00-11:30 **Masaki Fukata (National Institute for Physiological Sciences (NIPS)**

National Institutes of Natural Sciences (NINS) *"Local palmitoylation machinery in the postsynaptic nanodomain organization"*

11:30-noon **Roger Nicoll (UCSF)** *"AMPA receptor subunit requirements for homeostatic plasticity"*

Closing Remarks

Acknowledgement

Department of Pharmacology and the chair, Yossi Schlessinger

Department of Neuroscience and the chair, Pietro DeCamilli

Department of Cellular and Molecular Physiology and the chair, Michael Caplan

Yale School of Medicine

Charlene Bloch and Members in Tomita lab

Jim Howe

Organized by Susumu Tomita