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## 2022 iGluR Annual Retreat Tuesday, August 2<sup>nd</sup> & Wednesday, August 3<sup>rd</sup>.

**Directions:** <u>iGluR Retreat Destinations on Google Map</u> **Location:** Charles B. Wang Center at Stony Brook University

Time: 8 AM to 6 PM.

Oral Presentations and Poster Sessions will be held in the Wang Center.

\*\*Please note that the Wang Center Faculty/Staff Lot will be FREE during the scientific meeting.

## Please visit and support our sponsors throughout the day!!

DAY 1: Tuesday, August 2 <sup>nd</sup> , 2022	
8:00 – 8:45AM	Open Registration, Breakfast, and Poster Set-up
8:45 – 9:00AM	Welcoming Remarks in Main Theatre
	Session 1: Structural Biology/Pharmacology Chair: Terunaga Nakagawa, Vanderbilt University
9:00 – 9:25 AM	Ingo Greger, MRC Laboratory of Molecular Biology, England "AMPA receptor regulation by auxiliary subunits and modulatory drugs"
9:25 – 9:50 AM	<b>Hiro Furukawa</b> , Cold Spring Harbor Laboratories, New York "Structural pharmacology and reagents of NMDAR"
9:50 – 10:15 AM	
10:15 – 10:30 AM	
10:30 –11:00 AM	Coffee Break, Poster set-up and Poster viewing
Session 2: Resolving molecular details of synapses Chair: David MacLean, University of Rochester	
11:00 –11:25 AM	Thomas Blanpied, University of Maryland, Maryland "Subsynaptic organization and activation of ionotropic glutamate receptors"
11:25 – 11:50 AM	
11:50 AM – 12:05 PM	Laetitia Mony, IBENS, Université Paris, France "Photocontrol of NMDA receptors with subunit stoichiometry resolution"
12:05 –1:45 PM	Lunch, Poster viewing, and Group Photo

	Session 3: Fast signaling in the brain I
	Chair: Helen Hsieh, Stony Brook University
4.45 0.00 DM	Tables - Olddieni Heimerika - Manifeba - Oanada
1:45 – 2:00 PM	Tabrez Siddiqui, University of Manitoba, Canada
0.00 0.05 DM	"LRRTMs in synapse organization and plasticity"
2:00 – 2:25 PM	Vasanthi Jayaraman, University of Texas Health Houston, Texas
2.25 2.50 DM	"Glutamate receptors - from single molecules to synapses"
2:25 - 2:50 PIVI	Weifeng Xu, University of Pittsburgh, Pennsylvania
	"Functional Diversity of AMPARs at central synapses"
2:50 – 3:30 PM	Coffee Break and Poster viewing
	Session 4: Glutamate receptors in disease I
	Chair: Anis Contractor, Northwestern University
3:30 3:45 DM	Li Niu, University at Albany, New York
J.JU — J.4J F W	"Discovery and animal testing of RNA aptamers for iGluRs"
3:45 – 4:10 PM	Lixia Yue, University of Connecticut Health, Connecticut
J.+J - +. 10 1 W	"Functional coupling of TRPM2 and NMDARs exacerbates excitotoxicity in
	ischemic stroke"
4·10 – 4·35 PM	Amy Ramsey, University of Toronto, Canada
1.10 1.001 111	"Convergent and divergent phenotypes of patient-based Grin1 mouse
	models"
4:35 - 5:00 PM	Andrew Penn, University of Sussex, England
	"Synaptic dysfunction associated with mutations in GRIN2B: Influence of
	NMDA receptor subunit composition and mutant classification"
5:00 – 6:00 PM	Poster viewing and don't forget to support our sponsors!
6:00 – 7:00 PM	Travel to conference dinner.
7:00 – 10:00 PM	Conference Dinner at The Fifth Season in Port Jefferson
	DAY 2: Wednesday, August 3 <sup>rd</sup> , 2022
8:00 – 9:00 AM	Breakfast and Poster viewing
	Session 1: Intracellular signaling
	Chair: Michael Salter, SickKids Research Institute
0.00 0.05 444	Katharina Bacha NINDS/NILL Manufand
9:00 – 9:25 AM	
9:25 – 9:50 AM	"Insights from rare variants in NMDA receptor C-termini"  Roger Nicoll, University of California San Francisco, California
9.20 - 9.50 AM	"Synaptic memory and CaMKII"
9:50 – 10:15 AM	
9.50 - 10.15 AM	"Regulation of AMPA receptor function"
10:15 – 10:30 AM	•
10.10 - 10.00 AW	"A post-translational modification that affects AMPAR properties"
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10:30 -11:00 AM	Coffee Break and Poster viewing
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	Session 2: Fast signaling in the brain II Chair: Anthony Koleske, Yale University	
11:00 – 11:25 AM	Pierre Paoletti, IBENS, Université Paris, France "iGluRs as excitatory glycine receptors (eGlyRs): new actors in the brain"	
11:25 – 11:50 AM		
11:50 AM -12:05 PM	·	
12:05 – 2:00 PM	Lunch and Poster viewing	
	Session 3: Glutamate receptors in disease II Chair: Kasper Hansen, University of Montana	
2:00 – 2:25 PM	Stephen Traynelis, Emory University, Georgia "GluN2A and interneuron maturation: potential mechanisms underlying GRIN2A truncation variants and epilepsy"	
2:25 – 2:50 PM	· · ·	
2:50 – 3:30 PM	Coffee Break and Poster viewing	
Session 4: Auxiliary subunits Chair: Mark Farrant, University College London		
3:30 – 3:45 PM	Thomas McGee, University College London, England "Polyamines and auxiliary subunit GSG1L cooperate in regulating calciumpermeable AMPA receptor properties"	
3:45 – 4:10 PM		
4:10 – 4:35 PM	Derek Bowie, McGill University, Canada  "AMPA receptor regulation by auxiliary subunits"	
4:35 – 6:00 PM	Closing Remarks, Poster breakdown, and Goodbyes.	
	End of iGluR2022. See you next year!!	