Tentative AGENDA (as of April 25, 2013) GeneExpression Systems & Appasani Research Conferences of USA Presents:

Therapeutics Discovery Symposia - 2013

OPTOGENETICS - 2013 Meeting on Neuronal Function to Mapping & Disease Therapeutics

Venue: Hilton Garden Inn, 420 Totten Pond Road, Waltham, MA USA Date: May 1-2, 2013 Organizer: Krishnarao Appasani, PhD. GeneExpression Systems, Inc. of USA

	MAY 01, Wednesday		MAY 02, Thursday
8:00 AM	REGISTRATION OPEN: Coffee/Tea & Refreshments	7:30 AM	REGISTRATION OPEN: Coffee/Tea & Refreshments
8:45 – 10:45 AM	Session I: JOINT INAUGURAL SESSION	9:00 – 10:55 AM	Session V: JOINT INAUGURAL SESSION
	(on RNAi, Stem Cells & Optogenetics)		(on RNAi, Stem Cells & Optogenetics)
8:45 – 9: 00 AM	Welcome Note & Introduction of Keynote Speakers	9:00 – 9:10 AM	Welcome Note & Introduction of Keynote Speakers
	Krishnarao Appasani, PhD.		Krishnarao Appasani, PhD.
	GeneExpression Systems, USA		GeneExpression Systems, USA
9:00 – 9:35 AM	Keynote Lecture by: David T. Scadden, Jr., MD.	9:10 – 9:45 AM	Keynote Lecture by: Alexander Schier, PhD.
	Harvard-Massachusetts General Hospital, USA		Harvard University, USA
	Title: Stem cells and their niche: lessons from the blood		Title: Non-coding RNAs as regulators of zebrafish embryogenesis
9:35 – 10: 10 AM	Keynote Lecture by: Adam Cohen, PhD.	9:45 – 10:20 AM	Keynote Lecture by: Rachel Meyers, PhD.
	Harvard University, USA		Alnylam Pharmaceuticals, Inc., USA
	Title: All-optical electrophysiology with microbial rhodopsins		Title: RNAi Therapeutics: From Discovery to Clinical Development
		10:20 – 10:55 AM	Keynote Lecture by: Antonello Bonci, MD.
			National Institute on Drug Abuse-NIH, USA
			Title: Optogenetic approaches to synaptic plasticity and substance
			abuse
10:10 – 10:40 AM	30 Minutes AM Break	10:55 – 11:15 AM	20 Minutes AM Break
	Parallel Sessions on: RNAi, Stem Cells & Optogenetics		Parallel Sessions on: RNAi, Stem Cells & Optogenetics
	Runs from Now onwards		Runs from Now onwards
	FOCUSSED OPTOGENETICS THEME TALKS		FOCUSSED OPTOGENETICS THEME TALKS
10:40 – 12:25 PM	Session II: Optogenetics in Model Organisms	11:15 – 12:35 PM	Session VI: Optogenetics in Neurology & Cardiology
	Chair: Ethan Scott, PhD. Australia		Chair: Antonello Bonci, MD. USA
10:40 – 11:05 AM	Arivinthan Samuel, PhD.	11:15 – 11:40 AM	Emilia Entcheva, PhD.
	Harvard University, USA		Stony Brook University, USA
	Title: Optogenetic dissection of a motor sequence		Title: Optogenetic studies in cardiac muscle
11:05 – 11:30 AM	Ethan Scott, PhD.	11:40 – 12:05 PM	Oscar J. Abilez, MD, PhD.
	The University of Queensland, Australia		Stanford University School of Medicine, USA
	Title: The zebrafish cerebellum: motor learning as studied		Title: Multi-scale computational models for optogenetic control of
	with optogenetics		cardiac function
11:30 – 11:45 AM	Michael Sasner, PhD. SHORT Presentation	12:05 – 12:20 PM	Yonatan Katz, PhD. Short Presentation
	The Jackson Laboratory, USA		Weizmann Institute of Science, Israel
	Litle: The JAX repository of mouse models for optogenetics		Litle: Optopatcher – An electrode holder for simultaneous
44.45 40.00 DM	research	10.00 10.05 DM	Intracellular patch-clamp recording and optical manipulation
11:45 – 12:00 PM	Adi Schejter SHOR I Presentation	12:20 – 12:35 PM	Estner Krook-Magnuson, PhD. Short Presentation
	Technion-Israel Institute of Technology, Israel		University of California Irvine School of Medicine, USA
	nite: Cellular-resolution optogenetics in the retina: Imaging		inte: Closed-loop optogenetic control of epilepsy
12.00 12.25 DM	Ito Hochgoschwonder MD		
12.00 - 12.25 PM	Duke University Medical Conter USA	—	—
	Title: Combining optogenetics with bioluminescence		
12-25 - 1-30 DM	Lunch Break Lhour 5min (Lunch Brovided)	12·35 - 2 00 PM	Lunch Break 1 hour and 25 min (ON YOUP OWN)
12.23 - 1.30 PW	Lunch Break Fliour Shill (Lunch Flovideu)	12.33 - 2.00 PW	Lunch Break i nour and 25 min (ON TOOK OWN)

1:30 – 3:35 PM	Session III: Opsin Biology & Behavioral Networks	2:00 – 4:00 PM	Session VII: Optogenetics in Neurological Diseases & Behavior
	Chair: Nir Grossman, PhD. USA		Chair: Kay Tye, PhD. USA
1:30 – 1:55 PM	Nir Grossman, PhD.	2:00 – 2:25 PM	Kay M. Tye, PhD.
	MIT Media Lab & Beth Israel Deaconess Medical Ctr. USA		Picower Institute of Learning and Memory, MIT, USA
	Title: Principles of spatiotemporal optogenetic control of		Title: Optogenetic dissection of novel circuits that control anxiety-
	neural activity		related behaviors
1:55 – 2:20 PM	Osamu Nureki, PhD.	2:25 – 2:50 PM	Ming-Hu Han, PhD.
	The University of Tokyo, Japan		Friedman Brain Institute, Mount Sinai School of Medicine, USA
	Title: Structural basis for light-gated cation conductance by		Title: Pathway-Specific dissection of neural circuits underlying
	channelrhodopsin		depression-related behaviors
2:20 – 2:45 PM	Dany Adams, PhD.	2:50 – 3:15 PM	Melissa R. Warden, PhD.
	Tufts University, USA		Stanford University & Cornell University, USA
	Title: Using Archaerhodopsin to induce regeneration: the		Title: Cortical control of brainstem neuromodulatory systems in
	potential in resting potential		motivated behavior
2:45 – 3:10 PM	Wim J.M. Vanduffel, PhD.	3:15 – 3:40 PM	Dennis R. Sparta, PhD.
	Harvard's Massachusetts General Hospital, USA		University of North Carolina at Chapel Hill, USA
	Title: Optogenetically induced behavioral and functional		Title: Distinct extended amygdala circuits for divergent motivational
	network changes in primates		states
3:10 – 3:35 PM	Don Cooper, PhD.	3:40 – 3.55 PM	Ramón Piñol, PhD Student Short Presentation
	University of Colorado, USA		George Washington University, USA
	Title: Plasticity of excitability in the prefrontal cortex and its		Title: Oxytocin release facilitates paraventricular hypothalamic
	role in behavioral resilience to stress addiction: New insights		neurotransmission to brain stem cardiac vagal neurons
	from molecular neurogenetics and optogenetics		
3:35 – 4:15 PM	PM Break 40 min - Visit of Posters & Exhibits	3:55 – 4:20 PM	PM Break 25 min - Visit of Posters & Exhibits
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