

**JST-CREST "Opt Bio" / WPI-IIS Joint Symposium**  
 ~Deciphering the Brain through "Opt Bio" Tools~

**Date: March 18th (Fri.), 2022**

**Time Table**

2F Hall, Multimedia Education and Research Complex,  
 Kawauchi-Kita Campus, Tohoku University

**Opening | MC: Mayumi Kimura (WPI-IIS, University of Tsukuba)**

8:30 - 8:45	Welcome	<b>Masashi Yanagisawa</b>	Director, WPI-IIS, University of Tsukuba
	Opening Address 1	<b>Akira Ukawa</b>	WPI Program Director
	Opening Address 2	<b>Ryoichiro Kageyama</b>	Research Supervisor, CREST Optbio Director, Center for Brain Science, RIKEN

**Session 1 | Chair: Arisa Hirano (WPI-IIS, University of Tsukuba)**

8:45 - 9:15	Computations in neuron-glia circuits for controlling behavioral states	<b>Misha Ahrens</b>	HHMI, Janelia Research Campus
9:15 - 9:45	Optical tools for studying the brain	<b>Adam E. Cohen</b>	Harvard University
9:45 - 10:15	Controlling the Fate and Function of Proteins with Proximity Photopharmacology	<b>Dirk Trauner</b>	New York University
10:15 - 10:30	Break		

**Session 2 | Chair: Masashi Yanagisawa (WPI-IIS, University of Tsukuba)**

10:30 - 11:15	Inner workings of channelrhodopsins and brains	<b>Karl Deisseroth</b>	HHMI / Stanford University
11:15 - 11:45	Mechanical interactions of dendritic-spine synapses	<b>Haruo Kasai</b>	WPI-IRCN, The University of Tokyo
11:45 - 12:15	How synaptic plasticity mediates learning and memory in vivo: an optogenetic approach	<b>Michisuke Yuzaki</b>	Keio University
12:15 - 12:25	Photo / Break		
12:25 - 13:10	Lunch Break (Bee ARENA Café)		

**Poster Session | Chair: Kaspar Vogt (WPI-IIS, University of Tsukuba)**

13:10 - 13:40	Data Blitz (2F Hall, Multimedia Education and Research Complex)		
13:40 - 14:30	Poster Presentation (1F, Multimedia Education and Research Complex)		

**Session 3 | Chair: Sakiko Honjoh (WPI-IIS, University of Tsukuba)**

14:30 - 15:00	Induction of hypometabolic and hypothermic states in mice	<b>Takeshi Sakurai</b>	WPI-IIS, University of Tsukuba
15:00 - 15:30	Spying on neuromodulation by constructing a toolbox of genetically encoded fluorescent sensors	<b>Yulong Li</b>	Peking University
15:30 - 16:00	Neural circuits underlying sleep structure and functions	<b>Antoine Adamantidis</b>	University of Bern
16:00	Closing		