



University of Calgary Calgary, Alberta

Symposium Program

Thursday, September 26, 2013

11:30 am	Registration Opens
	Lunch / Poster Hanging MacEwan Hall Foyer
1:00 – 1:15 pm	Symposium Opening MacEwan Hall A
	 Dr. Grant McIntyre, Executive Director, Campus Alberta Neuroscience Dr. Edward McCauley, Vice President (Research), University of Calgary Dr. Jaideep S. Bains, Co-Chair, Symposium Organizing Committee
1:15 – 2:00 pm	Optogenetic Identification of a REM Sleep Modulatory Circuit in the Hypothalamus
	 Dr. Antoine Adamantidis, Assistant Professor, McGill University Session Chair: Dr. Jaideep S. Bains, Co-Chair, Symposium Organizing Committee
2:00 – 2:45 pm	A generalizable method for construction of single-chain light-inducible proteins
	 Dr. Michael Lin, Principal Investigator, Stanford University Session Chair: Dr. Jaideep S. Bains, Co-Chair, Symposium Organizing Committee
2:45 – 3:15 pm	Refreshment Break / Poster Viewing MacEwan Hall Foyer
3:15 – 4:00 pm New tools for single cell optogenetics deep within the brain	
	 Dr. Yves De Koninck, Professor, Université Laval Session Chair: Dr. Patrick Whelan, Co-Chair, Symposium Organizing Committee
4:00 – 4:45 pm	Probing Mechanisms of Motor Control with Optogenetics
	 Dr. Anatol Kreitzer, Associate Investigator, Gladstone Institutes Session Chair: Dr. Patrick Whelan, Co-Chair, Symposium Organizing Committee
4:45 – 5:00 pm	Day One Wrap Up
	 Dr. Samuel Weiss, Chair, Campus Alberta Neuroscience Dr. Patrick Whelan, Co-Chair, Symposium Organizing Committee
5:00 – 6:30 pm	Reception / Poster Viewing MacEwan Hall B Foyer
7:00 – 9:00 pm	Dinner MacEwan Hall B



Symposium Program continued

Friday, September 27, 2013

7:30 – 8:30 am	Breakfast and Registration	MacEwan Hall Foyer
8:30 – 8:35 am	Morning Greetings	MacEwan Hall A
	 Dr. Aaron Gruber, Symposium Organizing Committee 	
8:35 – 10:05 am	Local Presenters (15 minutes each)Session Chair: Dr. Robert Campbell, Symposium Organizing Committee	MacEwan Hall A
8:35 – 8:50 am	 1. Hypothalamic CRH neurons as integrative hubs for adaptive and visceral response Tamás Füzesi, University of Calgary 	es to stress
8:50 – 9:05 am	 2. Enlightening activity dependent pattern formation in the somatosensory cortex Maurice Needham, University of Lethbridge 	
9:05 – 9:20 am	 3. All optical electrophysiology with voltage indicators based on a red fluorescent presented. Ahmed Abdelfattah, University of Alberta 	rotein
9:20 – 9:35 am	4. Optogenetic control of ventilationSilvia Pagliardini, University of Alberta	
9:35 – 9:50 am	5. Tonic, activity independent, blood flow control by astrocytesGrant Gordon, University of Calgary	
9:50 – 10:05 am	Q&A	
10:05 – 10:15 am	Room change	
10:15 – 11:15 am	Workshops	
	 1. Applying Optogenetics and Examining Neural Circuits and Behaviour Antoine Adamantidis & Anatol Kreitzer Session Chairs: Patrick Whelan & Aaron Gruber 	MacEwan Hall A
	 2. Optogenetic and Imaging Tools Michael Lin & Yves De Koninck Session Chairs: Jaideep Bains & Robert Campbell 	MacEwan Hall B
11:15 – 11:45 am	Break	
11:45 am – 12:45 pm	Workshops (Repeated)	
	 1. Applying Optogenetics and Examining Neural Circuits and Behaviour Antoine Adamantidis & Anatol Kreitzer Session Chairs: Jaideep Bains & Robert Campbell 	MacEwan Hall A
	 2. Optogenetic and Imaging Tools Michael Lin & Yves De Koninck Session Chairs: Patrick Whelan & Aaron Gruber 	MacEwan Hall B
12:45 – 1:00 pm	Symposium Closing	
	Dr. Jaideep S. Bains, Symposium Co-ChairDr. Patrick Whelan, Symposium Co-Chair	MacEwan Hall A MacEwan Hall B

Buses depart for Edmonton / Lethbridge

1:00 pm





