Queensland Brain Institute & Munich Center for Neurosciences

Systems 1st QBI-MCN Symposium Neuroscience

28-30 September 2011

Level 7 Auditorium, Queensland Brain Institute, Building 79, Upland Road, The University of Queensland, St Lucia Campus, Brisbane QLD 4072

Scientific Program

Wednesday 28 September 2011		
16:15	Opening remarks by: Professor Perry Bartlett (Director, QBI) and Professor Paul Greenfield (Vice-Chancellor, UQ)	
16:30	Professor Perry Bartlett (Director, QBI); "Neuroscience at the Queensland Brain Institute"	
16:45	Professor Benedikt Grothe (Director, MCN); "The neuroscience landscape in Munich"	
17:00	Keynote Lecture (<i>Chair: Perry Bartlett</i>) Professor Mark Hübener (MPIN); "Learning to see: Imaging structural and functional plasticity in the visual cortex"	
18:00	Cocktail Reception QBI Terrace Level 7	
Thursday 29 September 2011		
	n 1: Sensory systems (Chair: Geoff Goodhill)	
8:30	Justin Marshall (QBI); "Stomatopod vision – why is it so complex?"	
8:55	Armin Bahl (MPIN); "Visual control of walking speed in Drosophila melanogaster"	
9:20	Allen Cheung (QBI); "Animal spatial navigation: need for a 'cognitive map'?""	
9:45	Ilona Grunwald Kadow (MPIN); "Formation and function of olfactory neural circuits underpinning innate behavior"	
10:10	Judith Reinhard (QBI); "Plasticity of olfactory receptors modulated by sensory experience"	
10:35	Morning tea QBI Terrace Level 7	
Session 1: Sensory systems cont. (Chair: Justin Marshall)		
11:05	Benedikt Grothe (LMU); "Dynamics of binaural hearing"	
11:30	Christian Leibold (LMU); "Chasing the phase: modelling of binaural coincidence detection"	
11:55	Lutz Wiegrebe (LMU); "Fast and focussed: spatio-temporal processing in bat sonar"	
12:20	Lunch QBI Reception Lawn	
Sessio	n 2: Cellular systems (Chair: Charles Claudianos)	
13:20	Magdalena Götz (LMU,HCM); "Neurogenic fate acquisition in adult neurogenesis"	
13:45	Perry Bartlett (QBI); "Stimulation of latent, neurogenic stem cells in the hippocampus "	
14:10	Silvia Cappello (HCM); "A new mouse model of 'double cortex': the role of RHOA in cortical development"	
14:35	Helen Cooper (QBI); "Neogenin: a molecular determinant of Radial progenitor polarity and function"	
15:00	Afternoon tea QBI Terrace Level 7	
Session 2: Cellular systems cont. (Chair: Fred Meunier)		
15:30	Pia Johansson (HCM); "The developing choroid plexuses act as signaling centres capable of	

influencing the behavior of neuronal progenitor cells"

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Thursday 29 September 2011 cont.		
15:55	Massimo Hilliard (QBI); "Axonal regeneration proceeds through axonal fusion in <i>Caenorhabditis elegans</i> neurons"	
16:20	Linda Richards (QBI); "The development of commissural projections from the cingulate cortex"	
16:45	Geoff Goodhill (QBI); "Mechanisms of axonal gradient detection"	
17:10	Poster sessionL7 seminar room and interaction areaWine & Cheese, Beer Tasting Competition	
19:00	Dinner in groups Selected restaurants	
Friday 30 September 2011		
Session	n 3: Molecular systems (Chair: Linda Richards)	
8:30	Rüdiger Klein (MPIN); "Molecular mechanisms of repulsive guidance of pathfinding cells and axons"	
8:55	Charles Claudianos (QBI); "The neurexin/neuroligin complex in the synapse: a role in mediating sensory response"	
9:20	Sonia Paixao (MPIN); "Genetic analysis of EphA4 in cortical and spinal control of locomotion"	
9:45	Elizabeth Coulson (QBI); "Signalling neuronal death and survival through the neurotrophin receptors"	
10:10	Fred Meunier (QBI); "The role of munc18 in neuronal communication"	
10:35	Morning tea QBI Terrace Level 7	
Sessio	n 4: Cognitive systems (Chair: Ottmar Lipp)	
11:05	Heiner Deubel (LMU); "Attention for the preparation of saccades, manual reaching, and grasping"	
11:30	Oliver Baumann (QBI); "Distinct neural networks underlie encoding of categorical versus coordinate spatial relations during active navigation"	
11:55	Donatas Jonikaitis (LMU); "Remapping of visual attention"	
12:20	Lunch	
Session 4: Cognitive systems cont. (Chair: Judith Reinhard)		
13:20	Bruno van Swinderen (QBI); "Visual competition and brain dynamics in the fly and the bee"	
13:45	Pankaj Sah (QBI); "Excitatory GABA-ergic transmission in the amygdala: a role in fear learning"	
14:10	Ottmar Lipp (UQ PSYCH); "The extinction of human fear learning: differences across domains of fear"	
14:35	Reinhard Flessner (UQ International); "Collaborative funding opportunities – Germany and Australia"	
15:00	Afternoon tea QBI Terrace Level 7	

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Friday 30 September 2011 cont. 15:30 Tour of QBI research laboratories (3 parallel tours, 10 people per group) Facilities to visit: cellular/molecular laboratories, electrophysiological laboratories, rodent facilities, marine laboratories, insect laboratories, honeybee facility, cognitive laboratories, imaging facilities (PET, fMRI) 16:00 Group workshops to discuss future collaborative projects, joint funding options, and student/staff exchange L3 meeting room: Sensory function and plasticity focus group L4 meeting room: Vision, cognition, navigation focus group L5 meeting room: Molecular mechanisms focus group L7 seminar room: Neurogenesis focus group Other focus groups: L6 reading room and faculty offices Please identify likely collaborators and join the relevant focus group. 17:30 Closing remarks Professor Benedikt Grothe (LMU) Professor Perry Bartlett (QBI) 19:00 Dinner at Customs House for invited guests