Metabolism in Development and Disease

15 – 18 May 2016
Wiston House
West Sussex

Sunday 15 May 2016

12:30 – 14:00	Lunch	
14:00 - 14.10	**Claire Moulton**	Who are The Company of Biologists?
14:10 – 14:30	**Craig Thompson**	Workshop introduction
	Chair: Alex Gould	
14:30 – 15:15	**Oliver Pourquié**	Integrating signalling with metabolism during embryo patterning
15:15 – 16:00	**Suzanne Eaton**	Hedgehog signalling and metabolism in the Drosophila wing disc
16:00 – 16:40	Tea break	
16:40 – 17:25	**Ralph DeBerardinis**	Establishing metabolic phenotypes in cancer cells
17:25 – 18:10	**Naomi Taylor**	Fueling HSC lineage commitment by manipulating cell metabolism
18:10 – 18:25	**Gregory Ducker**	Genetic and metabolomic dissection of one-carbon metabolism
18:25 – 19:30	Pre-dinner drinks	
19:30 – 21:00	Dinner	
21:00 – 22:00	Introduction slide presentations	
22:00 – 23:30	Bar open	

All meals served in The Great Hall

The Company of Biologists

Monday 16 May 2016

08:00 – 09:00	Breakfast	
	Chair: Paola Chiarugi	
09:00 – 09:45	**Doreen Cantrell**	The control of T cell metabolism and differentiation
09:45 – 10:30	**Craig Thompson**	Linking metabolism to the control of cellular differentiation
10:30 – 10:45	**Yaoyao Chen**	Pluripotent state transitions and metabolic reprogramming
10:45 – 11:00	**Ben Steventon**	Comparative developmental dynamics of neuromesodermal progenitors and axial elongation in vertebrates
11:00 – 11:30	Group photo Tea break	
11:30 – 12:15	**Laura Johnston**	Sensing and responding to cell fitness differences within a growing tissue
12:15 – 13:00	**Pierre Magistretti**	Neuron-glia metabolic coupling: role in neuronal plasticity and neuroprotection
13:00 – 13:15	**Carlos Carmona-Fontaine**	Extracellular metabolites are morphogens that organize the tumour microenvironment
13:15 – 14:15	Lunch	
14:15 – 16:00	Walk (meet at Reception)	
16:00 – 16:30	Tea break	
	Chair: Laura Johnston	
16:30 – 17:15	**Bill Harris**	Nutrients, oxygen and the growth of the retina in frogs and fish
17:15 – 18:00	**Christian Klämbt**	Sugar transport across the blood-brain barrier and energy homeostasis in the Drosophila brain: implications for neuronal networks
18:00 – 18:45	**Aurelio Teleman**	Regulation of metabolism by stearic acid
18:45 – 19:15	Pre-dinner drinks	
19:15 – 20:00	History talk on Wiston House	
20:00 – 21:30	Dinner	
21:30 – 23:30	Bar open	

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Tuesday 17 May 2016

08:00 – 09:00	Breakfast	
	Chair: Aurelio Teleman	
09:00 – 09:45	**Alex Gould**	Coping with a stressful start in life
09:45 – 10:30	**Teymuras Kurzchalia**	Metabolic transitions in C.elegans: from full metabolism to hypometabolism and back
10:30 – 10:45	**Jonathan Rodenfels**	The energetic cost and efficiency of early vertebrate development
10:45 – 11:25	Tea break	
11:25 – 12:10	**Ben Tu**	What is TORC really doing to metabolism? Implications for development and disease
12:10 – 12:55	**Wilhelm Palm**	How mammalian cells regulate amino acid acquisition
12:55 – 13:10	**Paola Falletta**	An evolutionary conserved starvation response drives melanoma invasiveness and tumorigenesis
13:10 – 14:15	Lunch	
	Chair: Naomi Taylor	
14:15 – 15:00	**Eyal Gottlieb**	Exposing and exploiting cancer's metabolic vulnerabilities
15:00 – 15:15	**Lucas Sullivan**	Supporting aspartate biosynthesis is an essential function of respiration in proliferating cells
15:15 – 15:30	**Patricia Nunes**	Hepatic glucose production during mouse hepatocellular carcinoma development
15:30 – 16:00	Tea break	
16:00 – 16:45	**Diane Barber**	Regulation of intracellular pH dynamics – from molecules to cancer cell behaviors
16:45 – 17:00	**Jelle van den Ameele**	Metabolic reprogramming during neurogenesis
17:00 – 17:15	**Yi Feng**	Live imaging metabolism changes during tumour initiation in zebrafish
17:15 – 18:30	Free time	
18:30 – 19:30	Pre-dinner drinks	
19:30 – 21:30	Dinner	
21:30 – 00:00	Bar open	

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Wednesday 18 May 2016

07:30 – 08:30	Breakfast	
	Chair: Eyal Gottlieb	
08:30 – 09:15	**Paola Chiarugi**	Tumor microenvironment and therapy resistance: OXPHOS as a central player
09:15 – 10:00	**Catarina Homem**	A shift in metabolic profile uncouples cell cycle from cell growth to end proliferation in Drosophila neural stem cells
10:00 – 10:45	**Peter Ratcliffe**	Hypoxia signalling pathways
10:45 – 11:30	Tea break	
11:30 – 12:00	**Suzanne Eaton and Wilhelm Palm**	Workshop overview
12:00 – 13:00	Lunch Depart	

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