

Cellular polarity: from mechanisms to disease

Date: April 15 – 16, 2013

Organised by Dr Rafael Edgardo Carazo-Salas, Dr Attila Csikasz-Nagy and Dr Masamitsu Sato

DAY 1				DAY 2			
SESSION 1 Emergence of cell polarity Chair: Lewis Wolpert FRS		SESSION 2 Molecular mechanisms of cell polarity regulation Chair: Brenda Andrews		SESSION 3 Cell polarity in development Chair: Jon Clarke		SESSION 4 Cell polarity and cancer Chair: Ira Mellman	
09.00	Welcome by Peter Cotgreave & lead organiser						
09.05	Rong Li <i>Establishment and maintenance of cell polarity for asymmetric meiotic cell divisions in mouse oocytes</i>	13.30	Daniel Lew <i>Interaction between bud-site-selection and polarity-establishment machineries in budding yeast</i>	09.00	Asako Sugimoto <i>Assembly of female meiotic spindles that mediate extreme asymmetric divisions</i>	13.30	Anne Ridley <i>Polarized migration of leukocytes and cancer cells across the endothelium</i>
09.30	Discussion	14.00	Discussion	09.30	Discussion	14.00	Discussion
09.45	Leah Edelstein-Keshet <i>Modelling the roles of small GTPases in cell polarization, and cell shape</i>	14.15	W. James Nelson <i>Evolution of Epithelial Organization and the Cadherin-Catenin Complex</i>	09.45	Geraldine Seydoux <i>Breaking symmetry: Polarization of the C. elegans zygote</i>	14.15	Inke S. Näthke <i>Cell and tissue polarity in the intestinal tract</i>
10.15	Discussion	14.45	Discussion	10.15	Discussion	14.45	Discussion
10.30	Coffee	15.00	Tea	10.30	Coffee	15.00	Tea
11.00	Stephan Grill <i>Morphogenetic Functions of Actomyosin</i>	15.30	Norbert Perrimon <i>Molecular organization of polarized domains of epithelial cells</i>	11.00	Daniel St Johnston <i>Epithelial polarity and spindle orientation</i>	15.30	Sandrine Etienne-Manneville <i>Dynamics of intercellular contacts during collective cell migration</i>
11.30	Discussion	16.00	Discussion	11.30	Discussion	16.00	Discussion
11.45	Cécile Sykes <i>Cell shape changes: quantitative role of membrane, cytoskeleton, and how they are attached</i>	16.15	Orion Weiner <i>New tools for unlocking cell polarity</i>	11.45	Ian Macara <i>Polarity Proteins, Morphogenesis and Metastasis</i>	16.15	Elaine Fuchs <i>How Polarity Functions in Regulating Skin Stem Cell Behavior</i>
12.15	Discussion	16.45	Discussion	12.15	Discussion	16.45	Discussion
12.30	LUNCH	17.00	CLOSE	12.30	LUNCH	17.00	CLOSE