

MOLECULAR REGULATION OF CARDIAC DISEASE SYMPOSIUM

14th & 15th May 2009, RIBA, London

Symposium Programme

Day 1

09.00 – 09.45	Registration
09.45 – 09.55	Welcome and Introductions Paul Townsend (University of Southampton, UK)
	Cardiac Hypertrophy Session Chair – Paul Townsend
09.55 – 10.30	Jon Epstein (University of Pennsylvania, US) Developmental mechanisms of cardiovascular disease
10.30 – 11.05	Joseph Hill (UT Southwestern Medical Center, US) Pathological cardiac remodeling: mechanisms and therapies
11.05 – 11.15	Abcam Abcam
11.15 – 11.45	Morning Coffee
11.45 – 12.55	Moderated Session
	Sam El-Osta (Baker IDI Heart and Diabetes Institute , Australia) Contextual dependent reprogramming of the SWI/SNF complex allows it to differentially serve as a transcriptional co-regulator at different promoters of the hypertrophied heart
	Mathias Mericskay (Pierre and Marie Curie Paris Universitatis, France) Role of serum response factor in pathological cardiac remodelling
	Bettina Meyering (Institute of Physiology, Germany) Matrix metalloproteinases as repressors of hypertrophy in ventricular cardiomyocytes of rats
	Xin Wang (University of Manchester, UK) Cardiac-specific deletion of Mkk4 reveals its role in pathological hypertrophic remodeling, but not in physiological cardiac growth
12.55 – 13.30	Chris Proud (University of Southampton, UK) Signalling through the mammalian target of rapamycin plays a key role in hypertrophic growth
13.30 – 14.30	Lunch
	Stem Cells/Development Session Chair – Michael Schneider
14.30 – 15.05	Michael Schneider (National Heart and Lung Institute, UK) Cardiopoiesis: Genetic circuits for cardiac muscle creation by embryonic stem cells
15.05 – 15.40	Deborah Henderson (Newcastle University, UK) Cell and tissue polarity in cardiac development
15.40 – 16.15	Chris Denning (University of Nottingham, UK) Derivation and utility of cardiomyocytes from human pluripotent stem cells
16.15 – 16.45	Afternoon Tea
16.45 – 17.55	Moderated Session
	Daniel Aberdam (INSERM, France) p63 is essential for cardiac morphogenesis and function
	Alina Andras (Newcastle University, UK) Three dimensional analysis of the developing embryonic human heart
	Nicholas Child (Newcastle University, UK) Upregulation of canonical Wnt signalling through inhibition of GSK-3 β causes specific cardiac defects in zebrafish
	Qiuping Zhang (Kings College London, UK) Multiple roles for nesprin-2 in the regulation of beta-catenin signalling
17.55 – 18.30	Paul Riley (UCL Institute of Child Health, UK) Epicardium-derived progenitors: a source of neovascular repair of the injured adult heart
18.30	Close of Sessions
18.30 – 20.00	Poster Session and Wine Reception

Day 2

08.55 – 09.00	Welcome
	Mitochondrial Dysfunction Session Chair - Richard Kitsis
09.00 – 09.35	Roberta Gottlieb (San Diego State University, US) Cardioprotection and Autophagy
09.35 – 10.30	Moderated Session
	Raquel Carreira (San Diego State University, US) Mitochondrial permeability transition signals autophagy in cardiac cells
	Irina Korichneva (UMDNJ-Robert Wood Johnson Medical School, US) Nature of zinc signals in cardiomyocytes
	Cynthia Perry (UCSD, US) Cardioprotection by yeast complex I-like enzyme, internal rotenone-insensitive NADH-quinone oxidoreductase -Ndi1
10.30 – 11.00	Morning Coffee
11.00 – 11.35	Philippe Pasdois (University of Bristol, UK) Ischaemic Preconditioning and modulation of mitochondrial function
	Ischemia/Reperfusion Session Chair – Tiziano Scarabelli
11.35 – 12.10	Anastasis Stephanou (UCL Institute of Child Health, UK) Opposing roles of STAT1 and STAT3 in the ischaemic myocardium
12.10 – 13.10	Lunch
13.10 – 14.05	Moderated Session
	Leanne Felkin (Imperial College London, UK) The naturally occurring calcineurin splicing variant CnAb1 induces recovery from myocardial infarction
	Kirsten Smeele (Academic Medical Center, The Netherlands) Ischemic preconditioning affects hexokinase activity and HKII in different subcellular compartments throughout cardiac ischemia-reperfusion
	Colin Berry (University of Glasgow, UK) Endogenous chemical and cellular repair responses are linked to the extent of cardiac injury in human myocardial infarction
14.05 – 14.40	Michael Marber (The Rayne Institute, St. Thomas' Hospital, UK) p38 MAPK in myocardial ischaemic injury
14.40 – 15.10	Afternoon Tea
	Apoptosis/Cell Death Session Chair – Anastasis Stephanou
15.10 – 15.45	Tiziano Scarabelli (Wayne State University, US) Cardiac release of urocortin precedes the occurrence of irreversible myocardial damage in the rat heart exposed to ischemia/reperfusion injury: genesis of a new clinical marker of sublethal cardiac ischemia?
15.45 – 16.40	Moderated Session
	Lingjia Qian (Institute of Health and Environmental Medicine, China) The TR3 translocation to mitochondria induced the apoptosis of stressed cardiomyocytes
	Yury Ladilov (Ruhr-University Bochum, Germany) Soluble adenylyl cyclase controls ischemic stress-induced apoptosis in coronary endothelial cells
	Elizabeth Vafiadaki (Biomedical Research Foundation, Greece) HAX-1: anti-apoptotic protein with emerging roles in cardiac muscle
16.40 – 17.15	Richard Kitsis (Albert Einstein College of Medicine, US) A unified theory of cell death and its role in disease
17.15	Closing Remarks