

Transdifferentiation and Tissue Plasticity in Cardiovascular Rejuvenation

7 – 10 February 2016 • Wiston House



Sunday 7 February 2016

12:30 – 14:00	Lunch	
14:00 – 14:15	Introductions	
	Claire Moulton	Who are The Company of Biologists?
	Brian Black	Workshop
	Chair – Brian Black	
14:15 – 14:45	Liz Robertson	Specification of the cardiovascular lineage during gastrulation
14:50 – 15:20	Michael Schneider	PDGFR alpha demarcates the cardiogenic clonogenic Sca1-positive stem cell in adult myocardium
15:25 – 15:55	Ken Poss	Endogenous heart regeneration programs
15:55 – 16:25	Tea break	
	Chair – Didier Stainier	
16:25 – 16:55	Richard Harvey	Identity, plasticity and function of the cardiac stromal cell compartment
17:00 – 17:30	Nenad Bursac	<i>In vitro</i> engineered myocardium
17:35 – 18:05	Nadia Mercader	Interplay between fibrosis and regeneration upon ventricular cryoinjury in the zebrafish
18:05 – 18:35	Pre-dinner drinks	
18:35 – 19:15	History talk of Wiston House	
19:15 – 20:45	Dinner	
20:45 – 21:45	Slide presentations by each attendee	
21:45 – 23:30	Bar open	
23:30 – 03:30	Super Bowl	



All meals will be served in **The Great Hall**

Monday 8 February 2016

08:00 – 09:00 Breakfast

Chair – Molly Stevens

09:00 – 09:30	Paul Riley	The cardiac lymphatic system: development and response to injury
09:35 – 10:05	Andrea Mattiotti	The role of follistatin-like 1 in development and regeneration
10:10 – 10:40	Eric Olson	Cardiac regeneration by genomic editing and transcriptional reprogramming

10:40 – 11:25 Group photo & Tea break

Chair – Nadia Rosenthal

11:25 – 11:55	Molly Stevens	Designing biomaterials for tissue regeneration
12:00 – 12:30	Eldad Tzahor	The roles of the microenvironment in cardiac regeneration
12:35 – 13:05	Didier Stainier	Cardiomyocyte behavior in zebrafish embryos

13:05 – 14:00 Lunch

14:00 – 16:00 Group walk
(meet at Reception)

16:00 – 16:30 Tea break

Chair – Eric Olson

16:30 – 17:00	Cesare Terracciano	Rebuilding the heart: a physiologist's approach to cardiac tissue engineering
17:05 – 17:35	Deepak Srivastava	Cellular reprogramming for cardiac regeneration
17:40 – 18:10	Christian Mosimann	Decoding cardiovascular origins in the lateral plate mesoderm

18:10 – 19:30 Pre-dinner drinks

19:30 – 21:00 Dinner

21:00 – 23:30 Bar open



All meals will be served in **The Great Hall**

Tuesday 9 February 2016

08:00 – 09:00 Breakfast

Chair – Karina Yaniv

09:00 – 09:30	James Martin	Hippo signaling in heart regeneration
09:35 – 10:05	Kathy Ivey	Human iPSC gene editing using CRISPR-Cas9 to study the regulation of cardiac cell fates
10:10 – 10:40	Juliane Münch	A dynamic endocardium holds structural and signalling roles in zebrafish heart regeneration
10:40 – 11:10	Tea break	

Chair – Richard Harvey

11:10 – 11:40	Benoit Bruneau	Transcriptional regulation of heart development
11:45 – 12:15	Rob Janssen	Mapping the transcriptome of the infarcted mouse heart
12:20 – 12:50	Li Qian	Barriers to direct cardiac reprogramming
12:50 – 13:50	Lunch	
13:50 – 15:20	Free time	

Chair – Benoit Bruneau

15:20 – 15:50	Alessandra Moretti	Heart muscle and fat cells share a common developmental origin - direct lineage conversion in disease and therapy
15:55 – 16:25	Laurent Dupays	NKX2-5 binding on embryonic cardiac enhancers
16:25 – 16:55	Tea break	

Chair – Paul Riley

16:55 – 17:25	Nadia Rosenthal	Immune control of cardiovascular repair
17:30 – 18:00	Guo Huang	Molecular control of cardiomyocyte proliferative potential
18:05 – 18:35	Ahmed Mahmoud	The role of the microenvironment in mammalian heart regeneration
18:35 – 19:30	Pre-dinner drinks	
19:30 – 21:30	Dinner	
21:30 – 00:00	Bar open	



All meals will be served in **The Great Hall**

Wednesday 10 February 2016

08:00 – 09:00 Breakfast

Chair – Eldad Tzahor

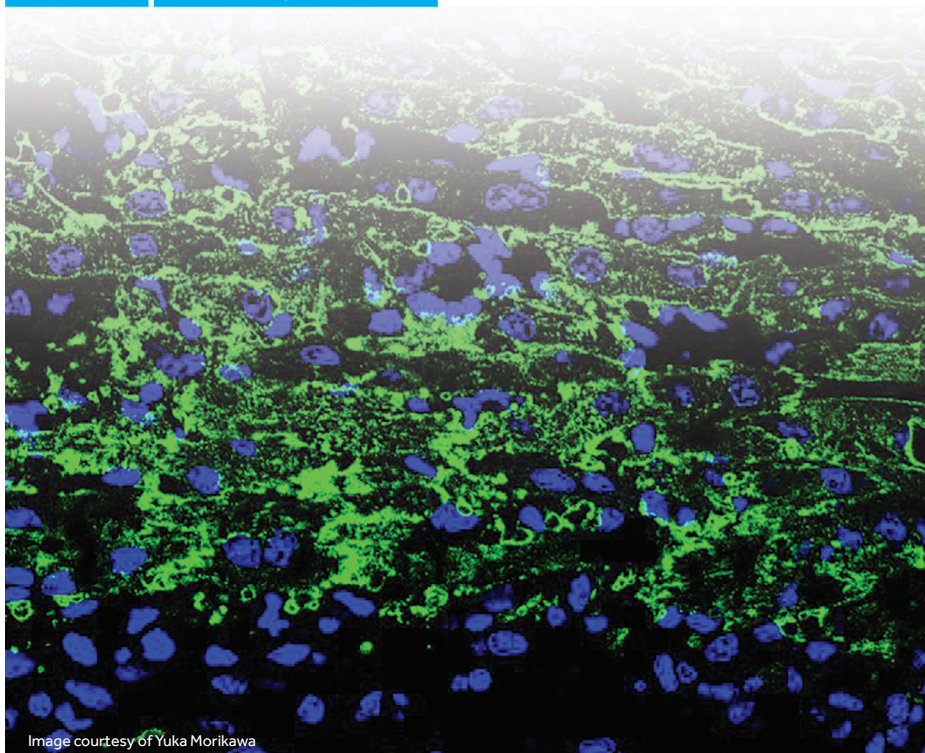
09:00 – 09:30	Brian Black	Regulation of cardiac transcription by MEF2-Myocardin complexes
09:35 – 10:05	Enzo Porrello	Multicellular transcriptome analysis of mammalian heart regeneration

10:05 – 10:30 Tea break

Chair – James Martin

10:30 – 11:00	Karina Yaniv	Live imaging reveals novel mechanisms of blood and lymphatic vessel formation
11:05 – 11:35	Antonio Beltrami	Proteostasis and stem cell senescence in heart failure
11:40 – 12:00	James Martin	Overview and future challenges

12:00 – 13:00 Lunch and depart



All meals will be served in **The Great Hall**