



Basic Science Summer School

14 June 2015 – 18 June 2015, European Heart House, Sophia Antipolis, France

Course Directors

Jeremy Pearson (UK), David Garcia-Dorado (SP), Jolanda van der Velden (NL), Sarah George (UK)

Programme

[Sunday 14th June / Novotel Arenas](#)

- 18.00 Welcome – Course Directors
- 18.15 Opening keynote plenary lecture - Peter Carmeliet (Leuven, BE)
- 19.15 Cocktail in Novotel Arenas

[Monday 15th June / European Heart House](#)

Session I: **Ischaemia and reperfusion injury**

- 09.00 **Mechanisms** – Pasquale Pagliaro (Turin, IT)
- 09.45 **Therapeutic opportunities** – David Garcia-Dorado (Barcelona, SP)
- 10.30 Coffee break – poster area

Session II: **Therapeutic angiogenesis**

- 11.00 **Basic concepts of blood vessel growth** – Alessandro Fantin (London, UK)
- 11.45 **The complexities of therapeutic translation** – Ian Zachary (London, UK)
- 12.30 Lunch Boxes – Meet the faculty

Session III: **Novel regulatory networks**

- 13.30 **Microvesicles**
- 14.15 **miRNAs** – Eva van Rooij (Utrecht, NL)
- 15.00 Short break

Session IV: **Building your career [1]**

- 15.15 **Achieving the transition to personal fellowship and group leader** – Nicola Smart (Oxford, UK)
- 16.00 **Scientific papers: the publisher's perspective** – Helen Liepman (OUP, Senior publishing editor for the ESC journals)
- 17.00-19.00 Poster area – discussion of odd-numbered posters, with Coffee Break



Tuesday 16th June/ European Heart House

- Session V: **Inflammation and immunity in cardiovascular pathophysiology**
- 09.00 **Immune modulation of atherosclerosis: potential for future therapies** –
Christoph Binder (Vienna, AU)
- 09.45 **Inflammation in heart failure: implications for treatment** – Sophie Van Linthout (Berlin, DE)
- 10.30 Coffee Break – poster area
- Session VI: **Vulnerable plaque**
- 11.00 **Pathogenesis** – Sarah Jane George (Bristol, UK)
- 11.45 **Imaging** – Constantin von Zur Mühlen (Freiburg, GE)
- 12.30 Lunch Boxes – Meet the faculty
- Session VII: **Leukocyte traffic**
- 13.30 **Molecular pathways regulating adhesion and migration** – Barbara Walzog (Munich, GE)
- 14.15 **In vivo tracking of leukocyte behaviour** – Abigail Woodfin (London, UK)
- 15.00 Short break
- Session VIII: **How and why pharma and academia collaborate to develop new medicines**
- 15.15 Nicholas Alp (ICON, Marlow, UK)
- 15.45 Andrew Zalewski (GSK, Philadelphia, US)
- 16.15-18.00 **Personal discussions with industry representatives**
- 16.15-18.00 Coffee Break – poster area – Meet the faculty

Wednesday 17th June/ European Heart House

- Session IX: **Cardiac contractile dysfunction**
- 09.00 **Remodelling the failing heart: the biology and future treatment options** –
Jean-Luc Balligand (Louvain, BE)
- 09.45 **Atrial fibrillation: current and future treatment options** –
Samuel Sossala (Göttingen, GE)
- 10.30 Coffee Break – poster area
- Session X: **Inherited heart conditions**
- 11.00 **Channelopathies: the biology and future treatment options** –
Eric Schulze-Bahr (Münster, GE)
- 11.45 **Cardiomyopathies: the biology and future treatment options** –
Jolanda van der Velden (Amsterdam, NL)
- 12.30 Lunch Boxes – Meet the faculty



Session XI: **Cardiovascular regenerative medicine**

13.30 **Heart development: implications for regeneration** – Nicola Smart (Oxford, UK)

14.15 **Engineering the solution** – Thomas Eschenhagen (Hamburg, GE)

15.00 Short break

Session XII: **Building your career [2]**

15.15 **Open session to question panel members and faculty about any aspect of building your career**

Panel: Jeremy Pearson (chair); Samuel Sossala; Nicola Smart; Sarah George; Jolanda van der Velden; David Garcia-Dorado

17.00-19.00 Poster area – discussion of even-numbered posters, with Coffee Break

20.30 Participant Dinner in Holiday Inn Resort, St Laurent du Var

Thursday 18th June/ European Heart House

Session XIII: **Converting medical innovation into clinical practice**

09.00 Short presentations highlighting strategies, plus case studies to highlight the critical steps in the process

Jeremy Pearson / Andrew Zalewski / David Garcia-Dorado

10.00 Coffee Break

Session XIV: **Stargazing: the implications of universal whole genome sequencing**

10.30 **Making sense of big data** – Tim Frayling (Exeter, UK)

11.15 **Personalized medicine** – Thomas Eschenhagen (Hamburg, GE)

12.00 Closing keynote plenary lecture - Peter Libby (Boston, US)