



ICGEB

International Centre for Genetic
Engineering and Biotechnology

Developing
Knowledge

ICGEB International SEMINAR PROGRAMME 2018

Thursday, 15 March 2018 | 12:00 noon | ICGEB Seminar Room, W building | Padriciano, 99, Trieste, ITALY



Anna M. RANDI

*Professor of Cardiovascular Medicine,
Head of Vascular Science, Imperial Centre
for Translational and Experimental Medicine,
Imperial College London, NHLI Vascular
Sciences, Hammersmith Hospital, London, UK*

Blood vessels provide the essential function of transporting blood to tissues, and have for this reason been considered an essential but possibly dull "transport and delivery system". However, it is now clear that vascular cells also provide crucial morphogenic cues to tissues during development and in adulthood, which are required for the development and maintenance of tissue homeostasis. Transcription factors that determine and maintain endothelial lineage identity are obvious candidate master regulators for these functions. The talk will focus on the multiple functions of vascular endothelium and on recently discovered pathways that control lineage identity and actively maintain vascular homeostasis. The ETS transcription factor ERG is a critical regulator of endothelial homeostasis and angiogenesis (Birdsey et al, Dev Cell 2015; Shah et al, Nature Comm 2017); loss of ERG results in endothelial-to-mesenchymal transition (EndoMT) and tissue fibrosis (Dufton et al, Nature Comm 2017). Recent work aims to determine the epigenetic pathways controlled by ERG in vascular endothelial cells, and on the identification of endothelial super-enhancers and their role in vascular homeostasis.

"Vascular control of tissue homeostasis: transcriptional and epigenetic pathways"

Host: S. Zacchigna

Registered seminars are available on YouTube, iTunes and ICGEB Podcast at:

<http://www.icgeb.org/podcast-program.html>



Open event - Free entrance



More information at:

seminars@icgeb.org | tel.: 040-3757377