

PROVISIONAL PROGRAMME

Fri 10 May

12:30 Welcome

12:40 - 14:10 Session 1 Vascular biology I

12:40 Keynote speaker **Luke Brewster, Emory University, USA**

Uncovering important mechanisms of flow mediated arterial stiffening in peripheral arterial disease patients

13:10 Kerstin Troidl, Frankfurt, Germany

The Toll-like receptor ligand MALP-2 enhances collateral growth after experimental femoral artery ligation

13:20 Sarah Lewis, London, UK

Combined talk

Exosomes Facilitate Muscle- Endothelial Cell Communication in Peripheral Arterial Disease

Ischaemia alters the microRNA Profile in Myotube Exosomes

13:35 Eveline Goossens, Leiden, NL

miRMap: An atlas of 14q32 microRNA expression throughout the human vasculature

13:45 Kristina Krogmannova, London, UK

Inhibiting pathogenic macrophages in a model system resembling scleroderma fibrotic skin

13:55 Tricia Lim, London, UK

Role of the MRTF-A mechanosensing pathway in alternative activation of macrophages

14:05 Daphne Gray, Frankfurt, Germany

Expression of specific miRNA before and after AAA repair - potential biomarkers for endoleak?

14:10 -14:30 *Coffee*

14:30- 16:30 Session 2 Clinical challenges

14:30 Keynote speaker **Margreet de Vries, Leiden University Medical Centre, NL**

Vein graft failure is driven by innate and adaptive immune responses

15:00 Thomas Aherne, Dublin, Ireland

A systematic review and meta-analysis of comparative studies comparing novel non-thermal versus thermal endovenous ablation in superficial venous incompetence

15:06 Darshna Govind, London, UK

Single centre review of asymptomatic visceral artery aneurysms over the last decade

15:12 Fady Hatem, Harlow, UK

Effectiveness of Omniflow II to treat vascular graft infections

15:18 Faizullah Khan, London, UK
Isolated Coeliac Artery Dissection in previously fit and healthy middle aged males

15:24 Ute Tidow, Hannover, Germany
Vasculitis: etiology of a ruptured, symptomatic, infrarenal aortic aneurysm

15:30 Georg Jung, Frankfurt, Germany
POPART - a registry for popliteal artery aneurysm repair: first results

15:36 Andrew Cameron, Galway, Ireland
A device for continuous monitoring of sub-bandage pressure during compression therapy for venous leg ulcers

15:42 Wiebke Ibing, Düsseldorf, Germany
Effect of short-, intermediate- and long- term treatment with different hemostats on fibroblast related wound healing

15:48 Jerome Hunckler, London, UK
Biohacking in vitro wound healing models using electrotherapy

16:54 Fady Hatem, Harlow, UK
Effects of platelet rich plasma in promotion of healing of chronic ulcers

16:00 **Panel discussion & interactive session** *Jaap Hamming, Leiden University Medical Centre, NL*

16:30 – 16:50 *Coffee*

16:50- 18:30 **Session 3 Models of vascular disease**

16:50 Keynote speaker **Andrew Narracott, University of Sheffield, UK**
Modelling the venous system in health and disease

17:20 Mirko Bonfanti, London, UK
Enhancing the clinical understanding of complex Type-B aortic dissections via patient-specific haemodynamic simulations

17:30 Gaia Franzetti, London, UK
An in vitro platform to perform haemodynamic studies of patient-specific models: a case study of aortic dissection

17:40 Callum Little, London, UK
Complex wall-less anatomical vascular ultrasound imaging phantoms

17:50 Jiling Feng, Manchester, UK
Detection of the arterial plaque compositions based on the reflected wave intensity

18:00 Matthew Bartlett, London, UK

Development of a computer-assisted doppler waveform analysis tool for predicting successful maturation of surgically created arterio-venous fistulae

18:10 Inez Torres, São Paulo, Brazil

Comparative analysis of aneurysm's wall biomechanics

18:20 *End of day 1*

19:00 *Networking dinner, Freemasons Arms, Hampstead*

Sat 11 May

09:00 – 10:40 Session 4 Imaging and aortas

09:00 Keynote speaker **Brian Cousins, Loughborough University, UK**
Next generation cardiovascular stents

09:30 Gabor Foldes, London, UK

Imaging of vascular regeneration by human pluripotent stem cells-derived endothelial cells

09:40 Ulrich Rother, Erlangen, Germany

Quantitative assessment of microperfusion by indocyanine green angiography in kidney transplantation resembles chronic morphological changes in kidney specimens

09:50 Achim Hegner, Frankfurt, Germany

A Method for the Registration of 3D Blood Vessel Models based on Computed Tomography and Ultrasound Imaging

10:00 Callum Little, London, UK

All-optical ultrasound as a guide for in-situ fenestration during FEVAR

10:10 Andreas Wittek, Frankfurt, Germany

Validation of Aortic Wall Motion Measurement by 4D Ultrasound

10:20 Markus Wortmann, Heidelberg, Germany

AIM2 deficiency impacts aortic aneurysm in a mouse model and reduces viability and calcification of aortic smooth muscle cells

10:30 Markus Wortmann, Heidelberg, Germany

Increased susceptibility to AngII-induced aortic aneurysm in NNT-deficient C57Bl/6J compared to C57Bl/6N mouse substrains

10:40- 11:00 *Coffee*

11:00 – 12:40

Session 5 Vascular Biology II

11:00 Keynote speaker **Ash Patel, St Thomas' Hospital, UK**

Growing blood vessels for the ischaemic leg - a pipedream or soon a reality?

11:30 Fabiana Baganha, Leiden, NL

Combined talk

Pleiotropic effects of statins on intraplaque angiogenesis and intraplaque haemorrhage

Human IgG phosphorylcholine antibody reduces intraplaque angiogenesis and intraplaque haemorrhage

11:45 Laura Parma, Leiden, NL

Small molecule mediated inhibition of bFGF reduces in vivo angiogenesis and is a promising candidate to block intraplaque angiogenesis in atherosclerosis

11:55 Lucie Bourne, London, UK

N-acetylcysteine limits arterial medial calcification but preserves bone formation

12:05 Elena Tsolaki, London, UK

Electron microscopic characterization of minerals formed by of in vitro cell culture

12:15 Valérie Smolders, Leiden, NL

Decreased glycolysis as metabolic footprint of endothelial cells in chronic thromboembolic pulmonary hypertension

12:25 Scott Robinson, Galway, Ireland

A minimally invasive reservoir system for regional and repeated intra-abdominal delivery of therapeutic cargo

12:35 Florian Simon, Dusseldorf, Germany

Small and large animal models in atherosclerosis research – where do you stand?

12:45 Prizes

13:15 Close