

EVBO/ESM Vascular Biology Summer School – Programme

(all times are CEST)

Monday June 13th

Main room

Welcome and overview of summer school 09:30-09:45

Johanna Laakkonen/Elena Osto

1. Endothelial-perivascular cell crosstalk 09:45-10:45

Chair: Johanna Laakkonen

09:45-10:15 Ingrid Fleming/Sebastian Kempf (Germany): **Metabolic crosstalk between endothelial cells and pericytes.**

10:15-10:45 Maarja Andaloussi Mäe/Eliza Vazquez (Sweden): **Features of the pericyte-deficient blood-brain barrier.**

2. Vascular heterogeneity 10:45-11:45

Chair: Lars Mägdefessel

10:45-11:15 Helle Jørgensen (United Kingdom): **Heterogeneity of vascular smooth muscle cells in health and disease.**

11:15-11:45 Tanya Petrova/Amelie Sabine (Switzerland): **Functional heterogeneity of lymphatics: collecting vessels and valves.**

Break 11:45-12:00

3. How to build a paradigm-shifting research plan? 12:00-13:00

Chair: Lena Claesson-Welsh

Panel: Kari Alitalo, Hellmut Augustin, Mauro Siragusa, Anna Randi, Britta Trappman

Break 13:00-13:10

Breakout rooms

Networking lunch break 13:10-14:00

Main room

4. Flash talks I 14:00-14:50

Chair: Henning Morawietz

Break 14:50-15:00

5. Flash talks II 15:00-15:50

Chair: Elena Osto

15:50-16:00 Votes from students via PollEv/Votes from Organizers via email

Tuesday June 14th

Main room

6. Mechanotransduction 09:30-10:30

Chair: Henning Morawietz

09:30-10:00 Stefan Offermanns/Guozheng Liang (Germany): **Endothelial mechanosignaling – relevance for diapedesis and EndMT.**

10:00-10:30 Paul Evans (United Kingdom): **tba.**

7. Emerging fields and technologies in vascular biology 10:30-11:30

Chair: Mauro Siragusa

10:30-11:00 Ankit Sinha (Germany): **scProteomics**

11:00-11:30 Axel Klaesson (Navinci Diagnostics AB, Sweden): **Introduction to Navinci proximity ligation assay technology for highly specific detection of proteins, protein interactions and protein modifications in tissue and cell samples.**

Break 11:30-11:45

Breakout rooms

8. “Speed dating with a PI” 11:45-13:00

Chair: Elena Osto

“Dates”:

Sr PIs: Jaap van Buul (Netherlands), Ingrid Fleming (Germany), Lena Claesson-Welsh (Sweden), Henning Morawietz (Germany), Kari Alitalo (Finland), Ferdinand Le Noble (Germany), Mariona Graupera (Spain), Elena Osto (Switzerland), Anna Dimberg (Sweden), Elizabeth Jones (Belgium), Minna Kaikkonen-Määttä (Finland), Eszter Farkas (Hungary).

Jr PIs: Eloi Montanez (Spain), Mauro Siragusa (Germany), Anjali Kusumbe (United Kingdom), Guillermo Luxan (Germany), Joanna Kalucka (Denmark).

Break 13:00-13:10

Breakout rooms

Networking lunch break 13:10-14:00

Main room

9. Flash talks III 14:00-14:50

Chair: Johanna Laakkonen

Break 14:50-15:00

10. Flash talks IV 15:00-15:50

Chair: Lars Mägdefessel

15:50-16:00 Votes from students via PollEv/Votes from Organizers via email

Wednesday June 15th

Main room

11. Vascular disease I 09:30-10:30

Chair: Elena Osto

09:30-10:00 Eszter Farkas (Hungary): **Autoregulatory failure in acute brain injury.**

10:00-10:30 Rosa Maria Bruno (France): **Micro- and Macrovascular crosstalk in vascular ageing.**

12. Vascular disease II 10:30-11:30

Chair: Eszter Farkas

10:30-11:00 Manuel Mayr/Kaloyan Takov (United Kingdom): **Combining RNA and Protein Biomarkers to Inform Prognostication in COVID-19 Patients Admitted to Intensive Care.**

11:00 -11:30 Judith Sluimer/ Kim van Kuijk (Netherlands): **Ins & outs about vascular fibroblasts.**

Break 11:30-11:45

13. "I've got my PhD!! ...what now??" 11:45-13:00

Chair: Mauro Siragusa

Panel: Mariona Graupera (Josep Carreras Leukaemia Research Institute, Spain), Nina Siragusa (Merck, Germany), Brunella Cristofaro (Sanofi, France), Johan Dixelius (Uppsala University Grant Office, Sweden), Jeremy Pearson (British Heart Foundation), Tomasz Guzik (Cardiovascular Research).

Break 13:00-13:10

Breakout rooms

Networking lunch break 13:10-14:00

Main room

14. Sponsor talk by 10X GENOMICS 14:00-14:30

Chair: Johanna Laakkonen

Johanna Stergiadou: **Spatially map and quantify gene expression in the tissue context with Visium Spatial.**

15. Translational vascular research: from basic science to a clinical trial 14:30-15:30

Chair: Lars Mägdefessel

14:30-15:00 Nihay Laham-Karam (Finland): **The road to angiogenic gene therapy: From developing endothelial-specific vectors to preclinical testing in large animals.**

15:00-15:30 Uwe Raaz (Germany): **Biomechanics of aortic aneurysms: how to turn (basic) science into medicine?**

16. EVBO/ESM summer school awards 15:30-15:45

Chair: Lena Claesson-Welsh/Henning Morawietz

17. Concluding remarks 15:45-16:00

Organizers:

EVBO: Johanna Laakkonen, Lars Mägdefessel, Mauro Siragusa, Lena Claesson-Welsh

ESM: Elena Osto, Eszter Farkas and Henning Morawietz.

Zoom: Dean Kavanagh, Univ. Birmingham

Sponsors:

