



5th EVBO SUMMER SCHOOL
**Advances in Cardiovascular Biology: Forces, Dynamics and
Molecular Mapping of Vascular Cells**

10-11 June 2025, [Biomedicum](#) Helsinki, Finland

Tuesday 10 June

08.45 – 09.00 *Welcome*

09.00 – 10.30 Session I – Mechanosensing, -signalling and -responses

09.00 – 09.25 *Tatiana Petrova, Lausanne* | Role of mechanotransduction in lymphatic vascular specialization and repair

09.25 – 10.05 3 x short talks (10 + 3 min)

10.05 – 10.30 *Ellie Tzima, Oxford* | title tbc

10.30 – 11.00 *Coffee break*

11.00 – 12.30 Session II – Tracking cell behaviours and lineages – part I

11.00 – 11.25 *Karina Yaniv, Rehovot* | title tbc

11.25 – 12.05 3 x short talks (10 + 3 min)

12.05 – 12.30 *Guillaume Jacquemet, Turku* | Monitoring circulating cells - endothelial cells interactions under flow

12.30 – 13.30 *Lunch*

13.30 – 14.30 Session III – Translating research findings into clinical applications

13.30 – 13.55 *Sirpa Jalkanen, Turku* | title tbc

13.55 – 14.20 tbc

14.20 – 15.30 Poster session I

15.00 – 15.30 *Coffee break*

15.30 – 18.15 Session IV – Mapping molecular mechanisms using proteomics and modelling

15.30 – 15.55 *Pipsa Saharinen, Helsinki* | title tbc

15.55 – 17.15 *Ilpo Vattulainen & Shreyas Kaptan, Helsinki* | Molecular-level modeling and simulation combined with protein structure prediction: Introduction and AlphaFold2 hands-on session

17.15 – 18.15 Poster session II with wine & cheese

19.00 – 22.00 Dinner

Wednesday 11 June

09.00 – 12.30 Session V – Tracking cell behaviours and lineages - part II

09.00 – 09.25 *Claudio Franco, Lisbon* | title tbc

09.25 – 10.05 3 x short talks (10 + 3 min)

10.05 – 10.30 *Taija Mäkinen, Helsinki* | Lymphatic vessels in tissue homeostasis and disease – microscopic and transcriptional decoding at the single cell level

10.30 – 10.55 Coffee break

10.55 – 12.30 Session VI – Emerging topics, omics and beyond

10.55 – 11.20 *Florian Rosenberger, Stockholm / Munich* | A cell at a time: the emergence of spatial single-cell proteomics by mass spectrometry

11.20 – 12.15 4 x short talks (10 + 3 min)

12.15 – 12.30 *Markku Varjosalo, Helsinki* | Charting cellular signaling networks through quantitative proteomics

12.30 – 13.30 Lunch

13.30 – 15.00 Session VI continued – Omics in spatial and biological contexts

13.30 – 14.15 *Joakim Lundeberg, Stockholm* | Spatial transcriptomics and beyond

14.15 – 15.00 *Rui Benedito, Madrid* | Mechanisms of adaptation to the loss of VEGFR2 signalling

15.00 – 15.15 Closing

15.15 – 15.45 Coffee and goodbye