

Leducq ATTRACT Summer Meeting 2022

Edinburgh, 20-22 June

Location: The Bayes Centre, 5th floor, room no. 5.46, 47 Potterrow, Edinburgh EH8 9BT

Time: local time, BST

20th of June: Get together dinner, The Divino Enoteca, time 7-8 pm

DAY 1: Tuesday, 21st of June

09:00 Welcome & Meeting objectives, Miguel Bernabeu (time 00:10)

09:10 "Topic 1: New insights on basic mechanisms in endothelial flow migration coupling"
Moderator Holger

09:10 talk 1 Daniela Ramalho (CF)-Cell motility control in pre-arterial tip cells.
(time 00:20 inc. 5min Q&A)

09:30 talk 2 Emir Akmeric (HG) - Dynamics of the Endothelial Cadhesome Under Blood Flow. (time 00:20 inc. 5min Q&A)

09:50 talk 3 Andreia Pena (CF) - Regulation of pericyte migration and proliferation by actomyosin contractility. (time 00:20 inc. 5min Q&A)

10:10 talk 4 Lenna Claesson-Welsh - Src family kinases in flow-migration coupling.
(time 00:20 inc. 5min Q&A)

10:30 Panel discussion topic 1 - Holger (time 00:30)

11:00 Coffee break (time 00:10)

11:10 Break-out session "RNA seq data" - Paul (time 00:30) or Coffee break (time 00:30)

11:40 PI meeting (room change, 4.46) "administrative issues, future calls and applications" - Paulina
(time 01:00)

11:40 Workshop for the trainees (5.46) Taming our Imposter Syndrome and other research frenemies – Harriet Harris (time 01:00)

12:40 Lunch break - lunch box delivered (time 00:30)

13:10 City Center guided tour, 13:15 start at the Entrance of Bayes Centre

15:20 "Topic 3: Flow-migration coupling defects, cellular and molecular drivers of AVM formation"
Moderator Anne

15:20 talk 1 Olya Oppenheim (HG) - Elucidating downstream effectors of SMAD4 and Alk1 in AVM formation and their role in Hereditary Hemorrhagic Telangiectasia (HHT).
(time 00:20 inc. 5min Q&A)

15:40 talk 2 Mathilde Poulet (AE) - NRPs implication on EC flow-migration coupling.
(time 00:20 inc. 5min Q&A)

16:00 talk 3 Hyojin Park (AE) - Single cell RNA seq analysis of Alk1ECKO
(time 00:20 inc. 5min Q&A)

- 16:20 talk 4 Paul Oh -tba (time 00:20 inc. 5min Q&A)
- 16:40 Panel discussion topic 3 – Anne (time 00:30)
- 17:10 The end of the first day + outlook for evening and day 2 (time 00:05)
- 17:15 free time
- 19:30 Dinner + whiskey tasting -The Scotch Malt Whisky Society - The Vaults, Taxi pick-up at ca. 7:00 pm

DAY 2: Wednesday, 22nd of June

- 09:00 Second day welcome (time 00:05)
- 09:05 "Topic 4: Genetics and cellular mechanisms of collateral formation and stroke recovery "
Moderator Doug
 - 09:05 Talk 1 Tijana Perovic (HG) - Collateral vessels of the brain: endothelial cell trace in development and stroke remodeling. (time 00:20 inc. 5min Q&A)
 - 09:25 Talk 2 Doug Marchuk - Role of human sequence variation in Rapep2 in collateral vessel formation and ischemic stroke. (time 00:20 inc. 5min Q&A)
 - 09:45 Talk 3 Christoph Harms - Chemogenetically brain-wide glutamatergic activity suppression exacerbates the supply-demand mismatch in the wake of ischemic stroke in the mouse neocortex. (time 00:20 inc. 5min Q&A)
 - 10:05 Panel discussion topic 4 - Doug (time 00:20)
- 10:25 Coffee break (time 00:10)
- 10:35 Break-out session "Human sample, biobanking and genotyping" - Miguel, Doug (time:20) or Coffee break (time 00:30)
- 10:55 Update from the winner YIA 2021 and New in the Network Session -Moderator Christoph
 - 10:55 Kevin Boye (AE) Vascular barrier regulates sprouting and flow-migration coupling. (time 00:20 inc. 5min Q&A)
 - 11:15 Steffanie Mayer (CH) - Genetic Contributions to Post-Stroke Pial Collateral Remodelling. (time 00:15 inc. 3min Q&A)
 - 11:30 Nadine Conchinha (CF) - Mechanisms of formation and resolution of arteriovenous malformations. (time 00:15 inc. 3min Q&A)
 - 11:45 Julia Kraxner (HG) The role of vimentin phosphorylation in mechanotransduction. (time 00:15 inc. 3min Q&A)
- 12:00 Coffee break (time 00:15)
- 12:15 "Network Future direction perspectives " 30 min brain storming plus 30 min structured discussion Moderator Claudio (time 01:00)
- 13:15 Lunch break (time 00:30)
- 13:45 poster session "session 1 (30 min) Tijana, Wolfgang, Emir, Julia, Ana, Stefanie
session 2 (30 min) Andreia, Daniela, Nadine, Hyojin, Kevin, Mathilde

1) novel data 2) novel hypothesis 3) deep dive on methods

14:45 "Topic 2: Integrative computational modelling approaches for analytics and mechanistic predictions" Moderator Miguel

14:45 talk 1 Wolfgang Giese (HG) - Polarity-JaM: A computer vision toolbox for scalable cell polarity, junction and morphology quantification. (time 00:20 inc. 5min Q&A)

15:05 talk 2 Ana Villaplana (MB) - Fine-mapping of retinal vascular complexity loci identifies Notch regulation as a shared mechanism with myocardial infarction outcomes. (time 00:20 inc. 5min Q&A)

15:25 Panel discussion topic 2 - Miguel (time 00:20)

15:45 Coffee break (time 00:20)

16:05 Keynote lecture "Anna Williams, The University of Edinburgh - Endothelial dysfunction, ATP11B and cerebral small vessel disease. Moderator Miguel (time 01:00 inc. 15min Q&A)

17:05 Summary of the meeting -closing remarks -Miguel time 00:20

17:25 social activities Arthur's seat- hill walk if no rain (time 01:30)

19:45 Dinner Bistro du Vin (7:35 pm a walk from KM hotel)