

Part 1: Overview of current research projects, 15:00 – 16:00

Dirk Husmeier

Overview of the Hub's research remit

Richard Clayton

Calibration and sensitivity analysis in cardiac electrophysiology

Mihaela Paun

Haemodynamic modelling for detecting pulmonary hypertension

Hao Gao

Parameter inference for myocardial constitutive laws based on cardiac magnetic resonance (CMR) images

Alan Lazarus

Parameter estimation and uncertainty quantification in cardiac mechanics

David Dalton

Graph neural network emulation of cardiac mechanics

Yalei Yang

Bayesian hierarchical modelling for lesion detection from CMR scans

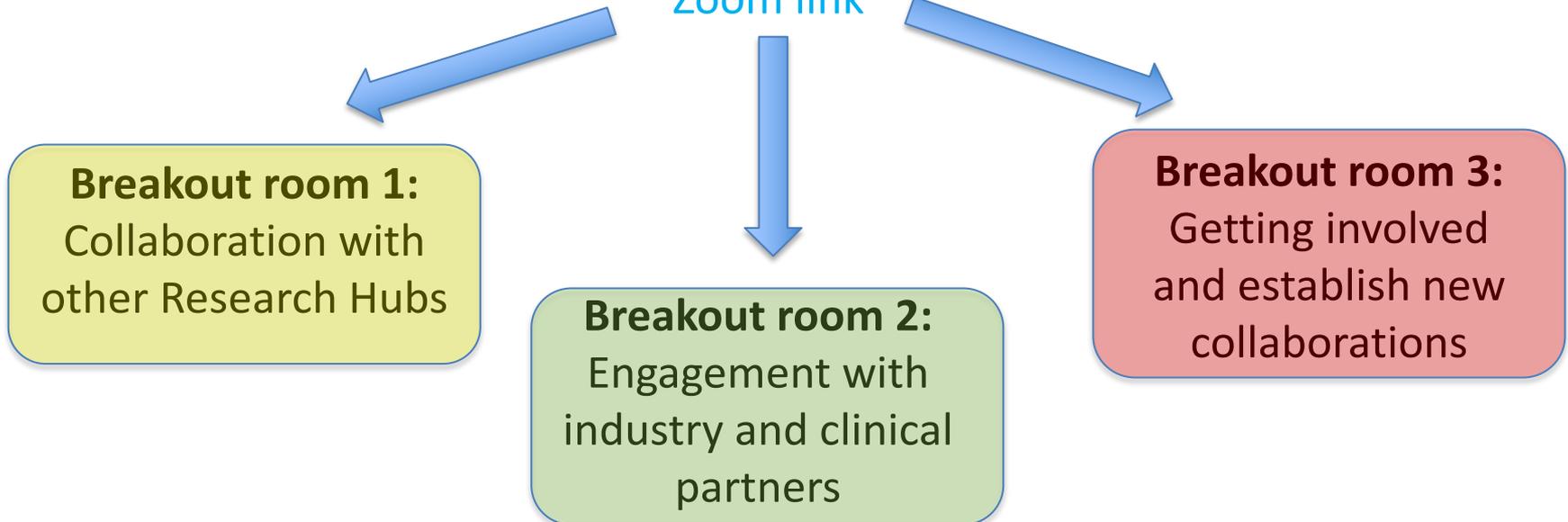
Arash Rabbani

Quantification of cardiac endotypes in Covid-19

Part 2: Open discussion about engagement and collaborations, 16:15 – 17:00

The aim of the discussion is to explore opportunities for collaborations and to identify practical first steps to initiate them. Promising ideas emerging from this discussion may be developed into a proposal for a project to be funded by our partnership resource fund.

Zoom link



Breakout room 1:
Collaboration with
other Research Hubs

Dirk
Hao
Nick
Richard
Peter

Breakout room 2:
Engagement with
industry and clinical
partners

David
Rado
Sean
Paul
Gillian

Breakout room 3:
Getting involved
and establish new
collaborations

Mihaela
Arash
Alan
David
Yalei

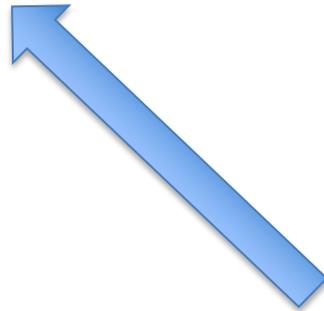
Suggestions for how SofTMech and Hub
members should pick their room.

If adjustments are needed, you can use the private messaging
function in Zoom to ask a member from another group to join your
group if you think their inputs are needed.

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Members of other Research Hubs:

Carola Schönlieb (Cambridge)
John Aston (Cambridge)
Peter Challenor (Exeter)
Kasimira Tasaneva (Exeter)
Rebecca Shipley (UCL)
Alejandro Diaz (UCL)

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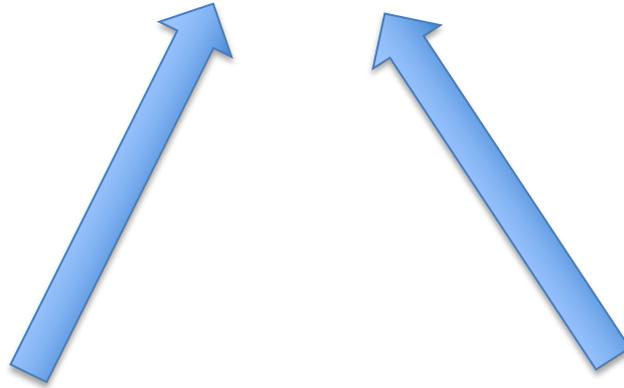
NHS Scotland

Stephen Kelly
Ewan Dougall
Mark Danton

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POLIMI

Simone Stella
Luca Dede
Anna Pandolfi
Francesco Regazzoni

MIT

Roger Kamm

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Robert Insall

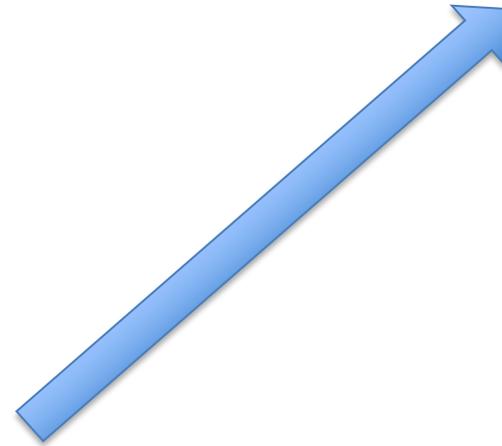


Mitchel Colebank
Muhamad Noor Aziz

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Participants who haven't registered and who are new to SofTMech, and participants who want to explore the potential for new collaborations with the Research Hub

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Advisory Board

~~Peter Challenor (Exeter)~~
Tony O'Hagan (Sheffield)
Gary Mirams (Nottingham)
Timothy Secomb (Arizona)
Mette Olufsen (North Carolina)
Dave Wood (Southampton)

Breakout room 1:
Collaboration with
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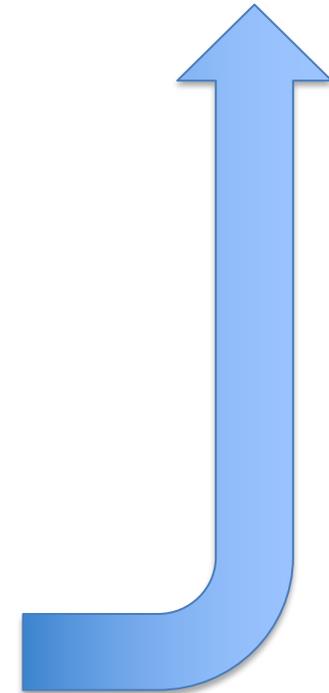
Breakout room 2:
Engagement with
industry and clinical
partners

Breakout room 3:
Getting involved
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If Room 3 is poorly attended, please go to
Room 3 to discuss with our PhD students
and RAs the details for their work

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If Room 3 is well attended, please pick the
room of your choice, ideally following a
uniform distribution

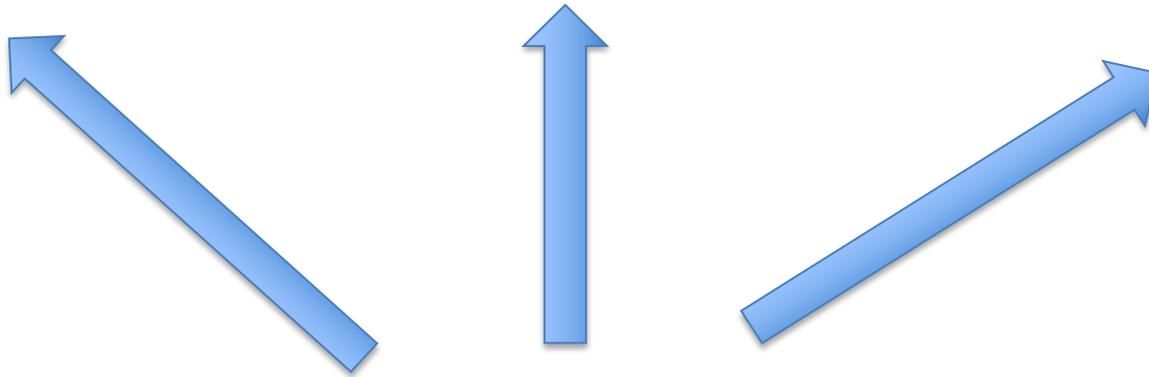
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EPSRC

Nishta Agarwal
Michael Onoja

Please feel free to pick the room of your
choice, and move from room to room

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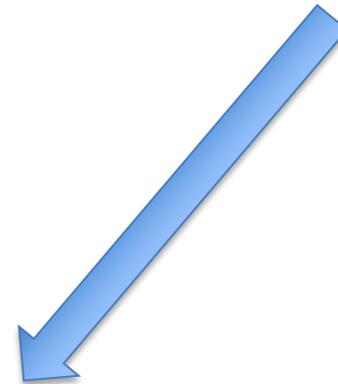
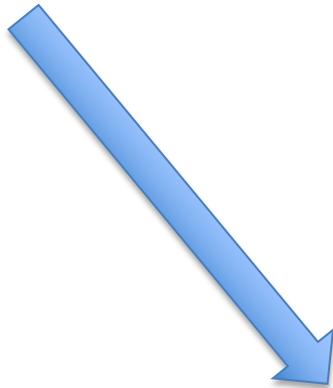
Breakout room 3:
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Please aim for a discussion for
about 30 minutes.

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After about 30 minutes, you will receive a message to invite you to come back to the main room, for a general discussion and brief feedback from the breakout groups.