

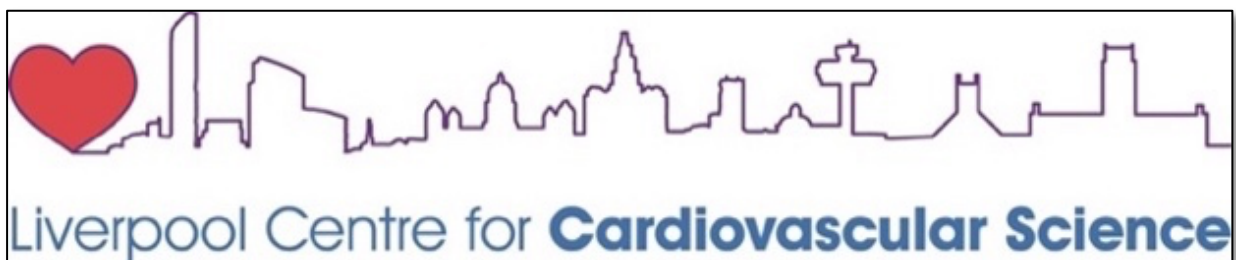
# Aorta: Structure to Rupture (2024)

## Meeting Programme

Thursday 20<sup>th</sup> June 2024

Mason Bibby Common Room, 1<sup>st</sup> Floor, Harrison Hughes Building, School of Engineering

*Organised by the Liverpool Aortic Biomechanics and Biochemistry (LABB) Research Group, University of Liverpool*



## Meeting Programme

All presentations will take place in the Mason Bibby Common Room, 1st Floor, Harrison Hughes

**9.00-9.30 AM:** Registration (Atrium, Ground Floor, Harrison Hughes Building)

**9.30-9.35 AM:** Introduction to the Meeting (Dr Riaz Akhtar, University of Liverpool)

**9.35-9.45 AM:** Welcome Address (Professor Wiebe van der Hoek, Executive Pro-Vice-Chancellor for the Faculty of Science & Engineering, University of Liverpool)

### **Session 1 – (Session Chair: Dr Riaz Akhtar, University of Liverpool)**

**09:45-10:15 AM:** Biomechanical Analysis of Aortic Roots: Differences Between Tricuspid and Bicuspid Aortic Valve Patients (Dr Ankush Aggarwal, University of Glasgow) **\*Invited Speaker**

**10:15-10:30 AM:** Establishing a zebrafish model of arterial valve development (Dr Chris Derrick, Newcastle University) **\*ECR talk**

**10.30-10.45 AM:** Viscoelastic characterisation of porcine aorta at the macro and micro-length scale (Dr Aadarsh Mishra, University of Oxford) **\*ECR talk**

**10.45-11.15 AM:** Poster view, coffee and refreshments

### **Session 2 – (Session Chair: Dr Jillian Madine, University of Liverpool)**

**11.15-11.35 AM:** **The Aortic Dissection Charitable Trust: Driving Research Together** (Kirsty Lawrie, Valerie Lechenne and Catherine Fowler, Aortic Dissection Charitable Trust) **\*PPI Talk**

**11.35-12.15 PM:** **Loeys-Dietz syndrome: What have we learned in 20 years?** (Professor Duke Cameron, The Johns Hopkins Hospital, Baltimore, USA) **\*Plenary Speaker**

**12.15-12.35 PM:** Bicuspid Aortic Valve Aortopathy – Feedback and Recommendations from the Liverpool multidisciplinary workshop, (Dr Riaz Akhtar, University of Liverpool) **\*PPI Talk**

**12.35-12.50 PM:** Unravelling the Circadian Connection: BMAL1 Alterations in Aortic aneurysms and Insights into Cardiovascular Health (Bojin Marinov, University of Liverpool) **\*ECR talk**

**12.50–13.50 PM:** Lunch and Poster Viewing (Atrium, Ground Floor)

### **Session 3 – (Session Chair: Mr Omar Nawaytou, Liverpool Heart and Chest Hospital)**

**13.50–14.20 PM:** **Identifying high risk thoracic aortopathy in bicuspid aortic valve: the AoRTAS study** (Dr Alexander Fletcher, University of Glasgow) **\*Invited Speaker**

**14.20–14.35 PM:** Exploring the relationship between aortic amyloid and other risk factors associated with aortic pathologies (Dr Alana Maerivoet, University of Liverpool) **\*ECR talk**

**14.35-14.50 PM:** The genetic contribution to variation to aortic distensibility (Mehak Chopra, University of Galway) **\*ECR talk**

**14.50-15.20 PM:** Poster Viewing, Coffee Break and Refreshments (Atrium, Ground Floor)

**Session 4 – (Session Chair: Professor Mark Field, Liverpool Heart and Chest Hospital)**

**15:20–15.50 PM: *The Dynamic Aortic Environment: Challenges for Current Therapies and Future Perspectives (Dr Niamh Hynes, University of Galway) \*Keynote Speaker***

**15.50–16:05 PM: *Neutrophil activation in Acute Type A Aortic Dissection (Sarah Shirley, University of Liverpool) \*ECR talk***

**16:05-16.20 PM: *Biomechanics-based Virtual Stent-graft Deployment Tools for Thoracic Endovascular Aortic Repair of Aortic Dissection (Dr Xiaoxin Kan, Fudan University, China) \*ECR talk***

**16.20-16:30 PM: *Closing remarks (Professor Mark Field, Liverpool Heart & Chest Hospital)***