



Manchester Vision Network Annual Research Showcase and Networking Event Programme

Wednesday 19th July 2023, Zochonis Building, Lecture theatre B

MORNING RESEARCH TALKS AND POSTER SESSION

9 - 10.25	Morning Talks: Session 1	Chair: Christos
9 - 9.10	Welcome talk and Introduction to the day	Karen/Christos/Paul
9.10 - 9.25	Novel Techniques to Facilitate More Accurate Correlation Perception in Scatterplots	Gabriel Strain
9.25 - 9.40	The effects of self-induced motion on perceived motion in virtual reality	David Petrescu
9.40 - 9.55	Modulation of Visual Responses in the Mouse Retina-Recipient Thalamus and Superior Colliculus: Insights from Vestibular Inputs	Aghileh Ebrahimi
9.55 - 10.25	Janus Kulikowski 2023 Award Lecture: The Visual System of Nocturnal and Diurnal Rodents – Exciting Times Ahead	Patrycja Orłowska-Feuer
10.25 - 11	Coffee Break and Poster Viewing	
11 - 12.30	Morning Talks: Session 2	Chair: Karen
11 - 11.15	Using computational approaches to enhance <i>PAX6</i> missense variants interpretation	Nadya Andhika
11.15 - 11.30	Be Mindful" (BM) of the blood glucose measurement (BgM): the relevance of BgMs in the Emergency Eye Department (EED)	Amy Stone
11.30 - 11.45	Causal factors in primary open angle glaucoma: a phenome-wide Mendelian randomisation study	Tom Julian
11.45 - 12.30	Invited Keynote Lecture: Adaptive Optics Optical Coherence Tomography - Imaging the cells that die in glaucoma	Donald Miller
12.30 - 2	Lunch Break, Poster Viewing and Awards	

POSTERS

Cerys Manning	Crosstalk between mechanical cues and Notch gene expression in retinal development
Chrysanthos Laoudikos	Review of Manchester Royal Eye Hospital (MREH) Diabetic Macular Oedema (DMO) guidelines: visual-anatomic outcomes and clinical adherence to pathway
Irina-Elena Cristescu	Retinal Microcirculation Investigation in Type I and II Diabetic Patients without Retinopathy Using an Adaptive Optics Retinal Camera
Swati Sharma	Investigating retinal cellular dynamics in eye disorders using zebrafish embryos
Abigale Pieneer	Investigating diurnal variation in the electrophysiology of retinorecipient cells in the visual thalamus
Srishti Silvano	Modeling <i>YAP1</i> related developmental ocular disorders using retinal organoids
Fiona Crawford	Determining motivations and barriers to participating in ophthalmology research
Fengxi Jin	Capturing images projected on the eye of a freely moving mouse to understand visual processing in real-life conditions
Michael Hogan	Psychedelics modify mouse defensive strategies under visual threats
Qian Huang	Low-frequency spatial patterns of light impacts mice's preference choices: a potential melanopsin-mediated light effect

AFTERNOON NETWORKING EVENT

The afternoon session will be in the format of an away day/networking event. The goal is to bring the MVN Community together from across the University and NHS Trust to **identify key areas/themes for inter-disciplinary collaboration** and to **outline the next steps in working together to secure the necessary funding**.

It will consist of four rapid-fire talks on potential themes for collaborative work, followed by break-out sessions in groups to answer key questions such as:

- How can we encourage more collaboration across the university and NHS Trust?
- What are our current strengths and potential themes for collaboration?
- What are the potential funding avenues?

Each group will then feedback their thoughts and a summary and next steps for the future, will be drawn together.

2 - 4.30	Afternoon Networking Event	
2 - 2.15	Introduction and Aims of Event	Tariq Aslam
2.15 - 2.20	Rapid Fire Talk: Adaptive Optics OCT	Karen Hampson
2.20 - 2.25	Rapid Fire Talk: potential for using VR to investigate visual mechanisms, disorders and therapy	Paul Warren
2.25 - 2.30	Rapid Fire Talk: Visual processing in healthy, diseased and treated retinas	Jessica Rodgers
2.30 - 2.35	Rapid Fire Talk: Wide-Field OCT-A and its Applications	Maha Noor
2.35 - 3.20	Breakout sessions in small groups to answer key questions	
3.20 - 3.40	Coffee Break	
3.40 - 4.10	Each group feeds back with their answers to the questions	
4.10 - 4.30	Next steps and Final Remarks	Tariq Aslam

For any further information contact:

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<https://sites.manchester.ac.uk/manchester-vision-network/>