

MVN 2022 – Wednesday 13 July 2022

Agenda

09:00-09:05	Welcome	Panos Sergouniotis, Riccardo Storchi
09:05-09:50	Session #1 (chairs: Panos Sergouniotis, Riccardo Storchi)	
09:05-09:20	Translating the Machine: Skills clinicians will need in the era of AI	Tariq Aslam
09:20-09:35	A National Ophthalmic Genetic Diagnostic Service	Simon Ramsden
09:35-09:50	Using functional MRI to map and decode the visual system	Laura Parkes
09:50-10:20	The Janus Kulikowski 2022 Award Lecture: Let there be light: Impact of daytime light intensity on animal behaviour and circadian clock function	Bea Bano-Otalora
10:20-10:50	Coffee Break, Poster Viewing	
10:50-11:45	Session #2 (chairs: Hema Radhakrishnan, Paul Warren)	
10:50-11:05	Symmetry detection in autistic adults benefits from local processing in a contour integration task	Emma Gowen
11:05-11:20	How do people process real and artificial hands?	Ellen Poliakoff
11:20-11:35	Novel bioinformatic approach to identify retinal metal-binding proteins and disease associations	Marta Ugarte
11:35-11:45	Causal factors for age-related macular degeneration: A phenome-wide mendelian randomisation study.	Tom Julian
11:45-12:30	Invited Keynote Lecture: Who, what, why? Improving outcomes for children with eye and visual disorders	Lola Solebo
12:30-14:00	Lunch Break, Poster Viewing; Tony Hall Face Illusions	
14:00-14:30	Invited Lecture: The unexpectedly colour-full mouse visual system	Tim Brown
14:30-15:20	Session #3 (chairs: Cerys Manning, Chris Dickinson)	
14:30-14:40	Optogenetic interrogation reveals degenerate rd1 retinas can support diverse visual code	Jessica Rodgers
14:40-14:50	The diagnostic performance of a smart supra-threshold test to detect early glaucoma	Subash Sukumar
14:50-15:00	Automatic segmentation of hip osteophytes in DXA scans using U-Nets	Raja Ebsim
15:00-15:10	Changes in corneal clouding over time in patients with mucopolysaccharidosis	Orlaith McGrath
15:10-15:20	Concurrent Fuchs endothelial corneal dystrophy and keratoconus in a European cohort	Shane Liu
15:20-15:50	Coffee Break, Poster Viewing	
15:50-17:00	Session #4 Genomics to therapeutics (chairs: Bill Newman, Graeme Black, Jane Ashworth)	
15:50-16:30	Setting up an NHS gene therapy centre in Manchester	Graeme Black, Rebecca Redmond, Neil Parry, Assad Jalil
16:30-17:00	Therapies for retinal disease - where next?	Paul Bishop, Rob Lucas
17:00-17:30	Awards & final remarks	MVN Steering Committee



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Posters

Ebrahimi , Orlowska-Feuer, Huang, Zippo, Peterson, Lucas, Storchi	3D unsupervised probabilistic pose reconstruction (3D-UPPER) for freely moving animals
Ekasari , Dickinson, Phipps	Evaluation of website accessibility of online pharmacies for individuals with visual impairment
Huang , Storchi, Lucas	How spatial patterns of visual scenes change rodents' behavioural states
Liu J , Black, Sergouniotis	Generation of a human induced pluripotent stem cell line for a common form of albinism using CRISPR-Cas9 genome editing
Liu S , Morgan, Chan, Attaulah	Manchester Eye Removal Study: 15 years of real-world eye removal experience in a tertiary centre
Mouland , Brown	The suprachiasmatic nucleus (SCN) uses light information from intrinsically photosensitive retinal ganglion cells (ipRGCs) to entrain internal time to the external environment
McGrath , Aslam	Use of imaging technology to assess the long-term effect of Covid-19 on retinal tissues
Orlowska-Feuer , Bano-Otalora, Lucas	How do SCN neurons read the time of the day in diurnal and nocturnal rodents?
Parmar , Porter, Dickinson, Baimbridge, Pelham, Gowen	Optometric anomalies in autistic adults: what's the impact?
Payne , Eleuteri, Orledge, Yagan	Novel use of the electromyogram signal to indicate proximity of the monopolar needle to the extraocular muscle during botox treatment for strabismus
Strain , Jay, Stewart, Warren	The impact of visual factors on perceived correlation in scatterplots
Thompson , Perry, Cootes, Lindner	Estimating clinically useful measurements of children's hips from automatic analysis of radiographs

Location: The event will take place on 13 July 2022 at the Zochonis Building (Lecture Theatre B), The University of Manchester, Oxford Road, Manchester, M13 9PL

Registration: <https://www.eventbrite.co.uk/e/manchester-vision-network-2022-tickets-309429611297>