

Session Program

9 June 2026

IoO ECR Symposium 2026

Posters

Darwin Building, Darwin Lecture Theatre (B40)
Gower Street, London, WC1E 6BT

Tuesday 9 June

13:25

Posters: Session 1

Poster Session

Developing an mRNA therapy for RLBP1-retinopathy

Omics data challenge the proposed role for TSA α D in vascular permeability

Local Rules, Global Order: How Müller Glia Self-Organise in the Developing Retina

Refining the genetic landscape of anophthalmia and microphthalmia

Galectin-1 as a pathological inducer of microvascular leakage in diabetic retinopathy

Measuring Contrast Sensitivity in glaucoma with functional magnetic resonance imaging - a proof-of-concept study

Optic nerve regeneration with citicoline treatment

Influence of culture media on the in vitro functionality of ARPE-19 cells

Modelling PCARE-Associated Retinopathy in Human Retinal Organoids and a Mouse Model

Emergence and Compensation of Eye Size Asymmetry During Early Eye Development in Zebrafish

cGMP analogues for understanding and targeting early pathological changes in LCA4

Genetic investigation and iPSC-derived corneal cell modelling of familial keratoconus

Creating a mouse model for a newly discovered autosomal-dominant form of Retinitis Pigmentosa.

Development of Paediatric Isogenic Posterior Ocular Mimetics for Myopia Research

Modelling of RP17 structural variants in retinal organoids reveals upregulation of GDPD1 caused by enhancer hijacking

Celastrol Nanoparticle Exhibits Neuroprotective Effects in a Rat Model of RGC

Investigating common risk genes and molecular mechanisms in age-related macular degeneration and Alzheimer's disease

Extracellular matrix gene dysregulation and alternative splicing in Fuchs endothelial corneal dystrophy stratified by TCF4 repeat expansion status.

Targeted long-read methylation analysis of the TCF4 repeat in Fuchs endothelial corneal dystrophy

Investigating the role of GSK3 in N-Acetyl-L-Leucine (NALL)-mediated effects in cellular models of the lysosomal storage disease Niemann-Pick disease type C.

Spatial proteomic profiling of immune cells in archived FFPE human eyes with ocular inflammation

Speaker
Jakub Kubiak

Enhanced spatial mapping in a mouse model of retinitis pigmentosa

Molecular Mechanisms of Müller Glia Morphogenesis and Neuron-Glial Contact in Retinal Development

Distinguishing Stem Cell-Derived Microglia from Macrophages: Marker Identification in iPSC-Derived Immune Cells

The protective effect of citicoline and vitamin k on visual pathway degeneration following optic nerve damage

Mitochondrial Dysfunction Triggers Extracellular Matrix Remodelling In Hipsc-derived Retinal Pigment Epithelium

RPE photoreceptor phagocytosis in lysosomal storage disease models of AMD

Optic nerve microglia in a model of retinal inflammatory disease - Experimental Autoimmune Uveitis (EAU)

In Situ Sequencing characterises ganglion-cell subset loss in a model of Glaucoma

Non-viral mRNA therapy in a retinal organoid model of CRB1 retinopathy.

Identification of a de novo Cyclin-C (CCNC) variant in microphthalmia

Understanding and targeting fibrosis in Neovascular Age-Related Macular Degeneration

"Some days it hits me like a ton of bricks that I can, in fact, not see": A qualitative reflexive thematic analysis study of factors which support and limit mental well-being in young people with vision impairment from inherited eye disease.

14:25

15:35

Posters: Session 2

Poster Session

AAV-mediated ocular gene therapy overcomes retinal immune tolerance, to enable cytotoxic T cell-mediated retinal cell loss

Multimodal in vivo and ex vivo imaging of putative hyalocyte-associated signals at the human vitreoretinal interface

Arhgef18/p114RhoGEF is a structural component of the outer limiting membrane essential for retinal integrity and mitochondrial homeostasis

A Gelatin-Supported Protocol for Preserving Delicate Retinal Tissue Enables Spatial Analyses

The role of VIP interneurons in ocular dominance plasticity

Using whole blood stimulation to identify predictive biomarkers in Birdshot Chorioretinopathy

PLXND1 signalling excludes blood vessels from airway smooth muscle and epithelium

Mitochondrial Dysfunction in Geographic Atrophy

Modelling Epigenetic Aging in Retinal Pigment Epithelial Cells to Investigate AMD Pathogenesis

Unveiling the role of mitochondria-plasma membrane contacts in healthy vision

Investigating Genetic Variation Affecting Vitamin A Metabolism in Microphthalmia, Anophthalmia and Coloboma

Behavioural state-dependent serotonergic modulation of the visual cortex

Design and Optimisation of pegRNA Strategies for Prime Editing of the IFT140 T484M Variant in an Inherited Retinal Ciliopathy

Peroxisomal Dynamics and Organelle Interactions in Retinal Pigment Epithelium

Identification of Candidate Genetic Variants in Unresolved Anophthalmia and Microphthalmia Cases Using Whole Genome Sequencing Data from the 100,000 Genomes Project

Generation and characterisation of hiSPC-derived retinal organoids modelling RP1 associated dominant and recessive RP

Cellular and extracellular matrix reorganisation in proliferative vitreoretinopathy

The impact of amyloid precursor protein knockout on protein homeostasis in the ageing retina of African turquoise killifish

Targeting Semaphorin 3 Signalling Promotes Reparative Angiogenesis in Murine Models of Retinopathy

Improving the molecular diagnostic rate for developmental glaucoma in the 100,000 Genomes Project

A novel NRP1 pathway in physiological and ischaemic retinal vascularisation

A Comparative Study of Deep Learning-based Retinal Image Registration Methods

Developing a human light damage model of rhodopsin retinitis pigmentosa

Deep Learning Segmentation of Retinal Biomarkers in RPE65-IRD

The role of the RNA-binding protein Musashi 1 (MSI1) in retinal development and alternative mRNA splicing

Retrotransposon insertions upstream of CRX are associated with autosomal dominant cone rod dystrophy

Macrophages and macrophage-conditioned medium activate contraction and migration in Mitomycin C-arrested fibroblasts

Muller glia: The architects of retinal synapse remodelling

Dbp3-MRCK β Signalling Couples Epithelial Polarity to Transcriptional Regulation

Validation of GEF-H1 Inhibitors in Preclinical Models of Ocular Disease

Building a retina-specific neurovascular unit in vitro

16:30