

**ARVO 2024**  
**Accredited sessions**

**Sunday, May 5, 2024**

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**8:00 AM**

Symposium

Vision for the future: Exploring the transformative potential of Artificial Intelligence in Ophthalmology

**1:00 PM**

Minisymposium

Vice President Session: Understanding the initial stages of diabetic eye disease

Paper

Activities of daily living with low vision

Corneal epithelial wound repair and healing

Dry eye: Clinical aspects

Improving the understanding of genetic variants in ocular disorders

Metabolic pathways and dynamics in retina/RPE

Ocular blood flow and biomechanics

Retina miscellaneous: Translational

Retinal development

Retinal pigmented epithelium: Function and dysfunction

**3:15 PM**

Paper

Cataractogenesis mechanisms and treatments

Corneal immunology and neovascularization

Current clinical trials and novel approaches for treatment of genetic disorders

Diabetic retinopathy

Glaucoma - Risk factors and omics

ImmunoQuest: Journey into the intricacies of immune responses in ocular diseases

Neurotherapeutic targeting and neurorestoration

Whole genome approaches to complex disease genetics

**Monday, May 6, 2024**

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**8:30 AM**

Minisymposium

Modelling vision at multiple scales: In search of a virtual visual system

Paper

Corneal surgery

Digital health and AI

Electroretinography: Basic mechanisms and disease

Emerging therapies in ocular neuroprotection: From peptide treatments to molecular interventions in glaucoma

Eye movements and extraocular muscles

Functional retinal imaging

Lens fiber cells and biomechanics

Liquid biopsy for ocular tumors

Novel cellular and molecular targets for ocular inflammatory disease

Novel findings in inherited retinal disorders

**3:00 PM**

## Minisymposium

A roadmap for developing vision-restoring therapies for patients suffering from optic neuropathy

## Paper

Advances in age-related macular degeneration

Microbial symphony: Understanding the harmony of pathogens and immunology

Pediatric ophthalmology

Photoreceptors and outer retina

Progress on adaptive optics imaging

RPE degeneration and aging

Zooming in on genes and their influence on disease

**Tuesday, May 7, 2024**

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**8:30 AM**

## Minisymposium

Novel approaches and models to gain insight in albinism

## Paper

Anterior segment imaging plus AI in Alzheimer's, glaucoma, and retina

Conjunctiva, ocular surface in health and disease

Glaucoma risk and pathogenics: From data science to translational mechanisms

Glial contributions to retinal health and disease

**1:15 PM**

## Minisymposium

Functional consequences of amblyopia

Vice President Session: Next-gen researchers in ocular immunology and microbiology

## Paper

AMD imaging II

Biomarker breakthroughs in ocular fluids

Large-scale omics analysis in ocular disease

Lens cell development, morphogenesis, and physiology

Retina/RPE treatment: New drugs, delivery methods, and mechanisms of action

Retinal angiogenesis

Retinal disease and neuronal repair

**3:30 PM**

## Minisymposium

Non-coding variation in human eye disease: From discovery to functional exploration

## Paper

Advances in diabetic retinopathy

Functional imaging and optoretinography

Inner retinal processing

Keratoconus and collagen crosslinking

Myopia: Structural changes from cornea to sclera

Neuroinflammation and neurodegeneration I

OCT angiography clinical application

On your last nerve: The nature of neuroimmune interactions at the ocular surface

Using patient derived stem cells to model and treat inherited retinal disease

Vitreoretinal surgery

## Wednesday, May 8, 2024

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### 10:30 AM

#### Paper

Advances in imaging technologies and applications

Cornea: Other

Lens fibrosis and stress

Novel drugs, delivery systems, anti-inflammatory agents, antibiotics, antivirals, oxidative stress and aqueous humor

Outflow pathway and aqueous humor dynamics I

Retinal diseases - Epidemiology

Retinal vascular diseases and ROP

RGCs and retinal output

Therapeutic approaches for inherited retinal disease

Vision restoration and assistive technology

### 2:15 PM

#### Minisymposium

Illuminating myopia: Newer insights into the mechanism and effects of light on myopia

#### Paper

Keratitis

Neuroinflammation and neurodegeneration II

Photoreceptor development and degeneration

Solving the missing heritability problem: Successes and novel approaches

Targeting diabetic retinopathy: Pharmacological agents and their mechanisms of action

## Thursday, May 9, 2024

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### 8:00 AM

#### Symposium

Innovative approaches for harnessing novel small molecules and biomolecules for the treatment of eye diseases

### 11:45 AM

#### Minisymposium

Tear fluid biomarkers: Fundamentals, hurdles and clinical applications

#### Paper

Corneal epithelium

Experimental models of glaucoma: In vitro, ex-vivo and in vivo

Genetic factors in lens development and pathology

Low vision services and mental health

Machine learning for image segmentation

Myopia: Mechanisms of emmetropization and eye growth

Optic neuropathies

Regeneration and reprogramming in the retina and RPE

Retina: Mechanisms of disease

### 2:00 PM

#### Paper

Advances in diagnosis and treatment of uveitis

Big data in ophthalmology

Corneal neuropathy and ocular pain

Retinal detachment