Sunday, May 5, 2024

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

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
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

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 h
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

8:00 AM
Symposium
Innovative approaches for harnessing novel small 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