

Date	Start Time	End Time	Duration	Session Title	Speaker(s)	Institution	Presentation Title	
Sunday Day 1								
9/15	7:00 AM	8:00 AM	1:00	Breakfast			Breakfast & Registration	
	8:00 AM	8:10 AM	0:10	i2eye Opening Session	Anantha Shekhar, MD, PhD	University of Pittsburgh	Welcome to Pitt	
	8:10 AM	8:20 AM	0:10		Jose Sahel, MD	University of Pittsburgh	Welcome to the Vision Institute	
	8:20 AM	8:30 AM	0:10		Drs. Paques, Grieve & Rossi		Welcome to i2eye 2024	
	8:30 AM	8:55 AM	0:25	Opening Keynote	Joseph Carroll, PhD	Medical College of Wisconsin	Clinical Applications of Adaptive Optics Retinal Imaging	
	8:55 AM	9:05 AM	0:10		Discussion			
	9:05 AM	9:17 AM	0:12	Session 1: Imaging retinal function and structure in health and disease	Jessica Morgan	University of Pennsylvania	Optoretinography using Adaptive Optics Scanning Laser Ophthalmoscopy	
	9:17 AM	9:29 AM	0:12		Donald Miller	Indiana University	Using the optoretinogram to assess cone function in health and disease	
	9:29 AM	9:41 AM	0:12		Michael Atlan	Institut Langevin	Leveraging Ultra-High-Speed Digital Holography for Eye Fundus Angiography and Optical Coherence Tomography	
	9:41 AM	9:53 AM	0:12		Michel Paques	Institut de la Vision	Decoding the complex imaging of geographic atrophy: combining histology and high resolution imaging	
	9:53 AM	10:05 AM	0:12		Kiran Kumar Vupparaboina	University of Pittsburgh	3D Biomarkers of Choroidal Vasculature: A Quantitative Perspective	
	10:05 AM	10:13 AM	0:08		Yan Liu	Indiana University	Imaging photoreceptor structure in the outer nuclear layer of the living human eye	
	10:13 AM	10:45 AM	0:32		Discussion			
	10:45 AM	11:15 AM	0:30	Coffee Break				
	11:15 AM	11:27 AM	0:12	Session 2: Glaucoma and ONH	Ian Sigal	University of Pittsburgh	Optic nerve head biomechanics and glaucoma	
	11:27 AM	11:39 AM	0:12		Moderator: Ian Conner, MD	Christophe Baudouin	Institut de la Vision	Quality of life, quality of vision in glaucoma
	11:39 AM	11:51 AM	0:12		Rajesh Sasikumar	University of Pittsburgh	The Evolution and Application of OCT in Glaucoma	
	11:51 AM	12:03 PM	0:12		Dan Milea	Fondation Rothschild	Through the eyes into the brain, using AI	
	12:03 PM	12:11 PM	0:08		Paul Bastelica	Institut de la Vision	Lamina cribrosa assessment and axonal pathways in glaucoma	
	12:11 PM	12:19 PM	0:08		Kazuhiro Kurokawa	Devers Eye Institute	In vivo polarimetric imaging of human optic nerve head using multifunctional AO-OCT	
	12:19 PM	12:45 PM	0:26		Discussion			
	12:45 PM	1:30 PM	0:45	Lunch				
	1:30 AM	1:35 AM	0:05	Industry Showcase	TBD	Bausch & Lomb		
	1:35 AM	1:40 AM	0:05		TBD	Heidelberg Engineering		
	1:40 AM	1:45 AM	0:05		TBD	Intelligent Imaging		
	1:45 AM	1:50 AM	0:05		TBD	Imagine Eyes		
	1:50 AM	1:55 AM	0:05		TBD	Physical Sciences, Inc.		
	1:55 AM	2:00 AM	0:05		TBD	The Spective Group		
	2:00 AM	2:05 AM	0:05		TBD	Translational Imaging Innovations		
	2:05 AM	2:10 AM	0:05		TBD	UPMC Enterprises		
	2:10 AM	2:15 AM	0:05		TBD	Zilia Health		
	2:15 AM	2:27 AM	0:12		Optogenetics, gene therapy, & vision restoration	Leah Byrne, PhD	University of Pittsburgh	Advances in retinal gene therapy
	2:27 PM	2:39 PM	0:12		Moderator: Jose Sahel, MD	Grégory Gauvain	Institut de la Vision	Axonal Topography of Foveal Ganglion Cells in the Primate Visual Thalamus
	2:39 PM	2:51 PM	0:12			Emiliano Ronzitti	Institut de la Vision	All optical retina circuits manipulation
	2:51 PM	3:03 PM	0:12			Valentina Emiliani	Institut de la Vision	Two-photon scanless voltage imaging of retinal circuits
	3:03 PM	3:11 PM	0:08			Ny Raphael	Institut de la Vision	Layer-dependent organization of foveal ganglion cells expressing gene therapy vectors in primate visual thalamus
	3:11 PM	3:35 PM	0:24		Discussion			
	3:35 PM	4:00 PM	0:25	Coffee Break				
	4:00 PM	4:12 PM	0:12	Eye movements	J. Patrick Mayo	University of Pittsburgh	The interaction of saccadic and smooth pursuit eye movement signals in prefrontal cortex	
	4:12 PM	4:24 PM	0:12		Moderator: Ethan A. Rossi, PhD	Christy Sheehy-Bensinger	C. Light Technologies, Inc.	Fixation as a quantitative performance metric for major and minor league baseball
	4:24 PM	4:36 PM	0:12		Denis Sheynikhovich	Institut de la Vision	Eye movements in presymptomatic AMD	
	4:36 PM	4:50 PM	0:14		Discussion			
	4:50 PM	5:15 PM	0:25	Keynote	Kapil Bharti	National Eye Institute	Translating RPE Biology into Disease Treatments Using Stem Cells	
	5:15 PM	5:25 PM	0:10	Discussion				
	5:30 PM	7:30 PM	2:00	Poster Session & Cocktail Reception				
Monday Day 2								
9/16	7:00 AM	8:00 AM	1:00	Breakfast				
	8:00 AM	8:12 AM	0:12	RPE and Fluorescence	Jennifer Hunter	University of Waterloo	Fluorescence lifetime ophthalmoscopy of the outer retina	
	8:12 AM	8:24 AM	0:12		Moderator: Kate Grieve, PhD	Kiyoko Gocho	Institut de la Vision	Two adaptive optics imaging methods comparison of retinal pigmented epithelial (RPE) cells.
	8:24 AM	8:36 AM	0:12		Émeline Nandrot	Institut de la Vision	An intimate journey in the lifelong physiology of RPE cell	
	8:36 AM	8:44 AM	0:08		Wuao Jia	University of Rochester	Confocal adaptive optics two-photon excitation fluorescence ophthalmoscope for living mouse retina	
	8:44 AM	9:00 AM	0:16		Discussion			
	9:00 AM	10:00 AM	1:00	Industry Roundtable Discussion	Moderator: TBD	All industry representatives	Addressing unmet needs in clinical and research imaging of diseases and treatments	
	10:00 AM	10:30 AM	0:30	Coffee Break				
BEGIN PARALLEL SESSIONS								
Track 1								
	10:30 AM	10:42 AM	0:12	Retinal degeneration and novel therapies	Isabelle Audo	Institut de la Vision	Genotype-Phenotype Correlation in IRDs	
	10:42 AM	10:54 AM	0:12		Moderator: Leah Byrne, PhD	Yuanyuan Chen	University of Pittsburgh	Boosting proteostasis via nuclear speckle rejuvenation for the treatment of retinitis pigmentosa
	10:54 AM	11:06 AM	0:12		Antoine Rousseau	Institut de la Vision	Retinal and choroidal findings in hereditary amyloidosis	
	11:06 AM	11:18 AM	0:12		Xing Chen	University of Pittsburgh	Artificial vision via high-channel-count visual cortical stimulation in primates	
	11:18 AM	11:26 AM	0:08		Leili Soo	Miguel Hernández University of Elch	The Functional Benefits of Visual Neuroprosthesis in Everyday Tasks	
	11:26 AM	11:34 AM	0:08		Soumaya Belhadj	University of Rochester	In vivo and ex vivo characterization of photoreceptor cell replacement therapy using scaffolds in a non-human primate model of vision	
	11:34 AM	11:42 AM	0:08		Baptiste Wilmet	Institut de la Vision	Shedding light on myopia by studying inherited retinal diseases	
	11:42 AM	12:15 PM	0:33		Discussion			
Track 2								

10:30 AM	10:42 AM	0:12	Anterior Segment	Kira Lathrop	University of Pittsburgh	Evaluating the Palisades of Vogt in Optical Coherence Tomography Volumes; Enface Segmentation and Scoring
10:42 AM	10:54 AM	0:12	Moderator: Vishal Jhanji, MD	Annabelle Réaux-Le Goazigo	Institut de la Vision	Corneal neuropathic pain: peripheral and central mechanisms
10:54 AM	11:06 AM	0:12		Jannick Rolland	University of Rochester	Anterior Segment Imaging with Gabor Domain Optical Coherence Microscopy
11:06 AM	11:18 AM	0:12		Nacim Bouheraoua	Institut de la Vision	Corneal Innervation, clinical approach with corneal neurotisation and fundamental research
11:18 AM	11:30 AM	0:12		Eric Gabison	Fondation Rothschild	Intraoperative OCT in Corneal Surgeries
11:30 AM	11:38 AM	0:08		Hong Liang-Bouttat	Institut de la Vision	Multimodal imaging systems for rare nephropathic cystinosis disease
11:38 AM	11:46 AM	0:08		Patrice Tankam	Indiana University	Non-invasive Cellular Resolution In vivo Imaging of the Cornea: From Disease Mouse Models to Humans
11:46 AM	12:15 PM	0:29				
12:15 PM	1:00 PM	0:45	Lunch			
Track 1						
1:00 PM	1:12 PM	0:12	Organoids, animal models and histology	Shaohua Pi	University of Pittsburgh	Fully automated OCT imaging for ex vivo and in vitro tissue screening
1:12 PM	1:24 PM	0:12	Moderator: Boris Rosin, MD	Kate Grieve	Institut de la Vision	Monitoring subcellular dynamics of in vitro retinal organoids and samples with dynamic full field OCT
1:24 PM	1:36 PM	0:12		Sacha Reichman	Institut de la Vision	Model human retinal degenerative diseases with iPSC-derived cells and organoids to find drugs
1:36 PM	1:48 PM	0:12		Susana da Silva	University of Pittsburgh	Insights on Fovea Development: Molecular Mechanisms from Multiple Models Systems
1:48 PM	2:00 PM	0:12		Alexandra Rebsam	Institut de la Vision	Mouse models to unravel the physiopathology of visual deficits in albinism
2:00 PM	2:12 PM	0:12		Marie Darce	Institut de la Vision	3D histology of the human eye
2:12 PM	2:45 PM	0:33		Discussion		
Track 2						
1:00 PM	1:12 PM	0:12	Ocular immunology & inflammation	Marie H�el�ene Errera	University of Pittsburgh	Adaptive optics and multimodal imaging for inflammatory vitreoretinal interface abnormalities
1:12 PM	1:24 PM	0:12	Moderators: Kip Kinchington & Rob Shanks	Tony St. Leger	University of Pittsburgh	The neuroimmune axis at the ocular surface during health and disease
1:24 PM	1:36 PM	0:12		Marc Labetoulle	Institut de la Vision	Herpetic keratitis due to HSV1 strains that are resistant to conventional antiviral treatment
1:36 PM	1:48 PM	0:12		Xavier Guillonneau	Institut de la Vision	Lipid-bloated Phagocytes in the Diabetic Retina and Animal Models of Severe Vascular Leakages
1:48 PM	2:00 PM	0:12		C�ecile Delarasse	Institut de la Vision	Highlighting the role of PIR-A and PIR-B receptors in Uveitis
2:00 PM	2:12 PM	0:12		Florian Sennlaub	Institut de la Vision	Deregulation of the inflammatory reflex exacerbates pathogenic subretinal inflammation in age-related macular degeneration
2:12 PM	2:45 PM	0:33		Discussion		
2:45 PM	3:00 PM	0:15	Coffee Break			
PI Track						
3:00 PM	4:00 PM	1:00	Teaming Session 1			
4:00 PM	5:00 PM	1:00	Teaming Session 2			
Trainee Track						
3:00 PM	5:00 PM	2:00	Professional Development Programming	Agenda TBD		
END PARALLEL SESSIONS						
5:00 PM	5:30 PM	0:30	VI Image contest winner announcement	Leah Byrne, PhD	University of Pittsburgh	
5:30 PM	5:55 PM	0:25	Closing Keynote	Serge Picaud	Institut de la Vision	TBD
5:55 PM	6:05 PM	0:10		Discussion		
6:05 PM	6:30 PM	0:25	Travel to University Club			
6:30 PM	9:30 PM	3:00	Rooftop Cocktail Reception & Dinner at the University Club			
Tuesday Day 3						
9/17	7:00 AM	8:00 AM	1:00	Breakfast		
	8:00 AM	12:00 PM	4:00	VI Lab Tours, including: Advanced Ophthalmic Imaging Lab, Streetlab		
	8:00 AM	12:00 PM	4:00	Teaming Sessions for PIs (in parallel)		
	12:00 PM	1:00 PM	1:00	Lunch		
				Afternoon free to explore city of Pittsburgh, including:		
				Carnegie Museums of Art & Natural History		
				Andy Warhol Museum		
				Phipps Conservatory		
				Cathedral of Learning Nationality Rooms		
				Pittsburgh Zoo		
				Point State Park....		