

4th Annual Southeastern Vision Research Conference
December 7 and December 8
Agenda

Day	Time	Title	Presenter	Institution
	* All times listed in EST			
	4:45-5:00	Welcome	John Nickerson, PhD, Mir	Emory Eye Center
	5:00-5:45 PM	Poster Session 1 Theme: Normal and diseased macula and retina		All
	5:45-6:00 PM	Break		
	6:00- 7:00 PM	Keynote Presentation: "A solution to the worldwide Myopia epidemic"	Jay Neitz, PhD, Maureen	University of Washington
12/7/2020	7:00-7:20 PM	Q&A with Drs. Neitz		All University of Alabama Birmingham Emory Eye Center
		Moderator: Rafael Gyrtz, PhD		
		Moderator: Michael Iuvone, PhD		
	9:00-10:00 AM	Oral Presentations Theme: Regenerative Medicine		
	9:00-9:12 AM	Lhx2 integrates hedgehog signaling into early retinal neurogenesis	Ed Levine, PhD	Vanderbilt University
	9:12-9:24 AM	Genomic modulation of optic nerve regeneration in mice	Jiaxing Wang MD, PhD	Emory Eye Center
	9:24-9:36 AM	In vitro electrophysiological and morphological characterization of human Pluripotent Stem Cell-derived Retinal Ganglion Cells (hPSC-RGCs)	Silvia Pasini, PhD	Vanderbilt University Massachusetts Eye and Ear Infirmary
	9:36- 9:46 AM	Tree shrew retina as a model to study retinal ganglion cell replacement	Monichan Phay, PhD	University of Alabama Birmingham
	9:46-9:56 AM	Systemic administration of human CD34+ cells as a potential therapy for age-related macular degeneration	Carolina Francelin	Birmingham
		Moderator: Rachael Allen, PhD		Atlanta VA Medical Center Emory Eye Center
		Moderator: Eldon Geisert, PhD		
	9:56- 10:00 AM	Break		
	10:00-10:45 AM	Poster Session 2 Theme: Glaucoma, Eye Movements		All
	10:45-11:00 AM	Break		
	11:00-12:00 PM	Oral Presentations Theme: Experimental Myopia		
	11:00-11:12 AM	Role of ambient illumination and photoreceptor pathways in myopia development	Machelle Pardue, PhD	Georgia Institute of Technology/Atlanta VA Medical Center University of Alabama Birmingham
	11:12-11:24 AM	The combined spatial and chromatic structure of visual scenes as a risk factor for myopia	Timothy Gawne, PhD	University of Alabama Birmingham
	11:24-11:36 AM	New approach for anatomical correct OCT imaging in tree shrews	Rafael Gyrtz, PhD	University of Alabama Birmingham
	11:36-11:46 AM	Form Deprivation Myopia in the Mouse Involves Altered Scleral Biomechanics	Dillon Brown	Georgia Institute of Technology University of Alabama Birmingham
	11:46- 11:56 AM	High Myopia Increases IOP-dependent Lamina Cribrosa Beam and Peripapillary Scleral Strains in Tree Shrews	Alexander Levy	Birmingham
		Moderator: Jay Neitz, PhD		University of Washington

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	Moderator: Maureen Neitz, PhD		University of Washington
11:56- noon	Break		
12:00-12:45 PM	Poster Session 3 Theme: Central Processing and Rehabilitation		All
12:45- 1:00 PM	Break		
1:00-2:00 PM	Oral Presentations Theme: Visual Integration		
1:00-1:12 PM	Rapid visual adaptation of LGN neurons	Loic Daumail	Vanderbilt University
1:12-1:24 PM	The neural population dynamics that give rise to memory-guided visual search	Kari Hoffman, PhD	Vanderbilt University
1:24-1:34 PM	Stimulus History Affects Binocular Visual Processing in Primate Visual Cortex	Brock Carlson	Vanderbilt University
	V1 laminar spiking responses to binocular stimuli predicted by monocular activity and principles of gain-control	Blake Mitchell	Vanderbilt University
1:34- 1:44 PM	Cortical columns in area V4 produce the event-related potential index of attention	Jacob Westerberg	Vanderbilt University
1:44-1:54 PM	Moderator: Frank Tong, PhD		Vanderbilt University
	Moderator: Kari Hoffman, PhD		Vanderbilt University
1:54- 2:00 PM	Break		
	Poster Session 4 Theme: Cornea, anterior segment, Visual circuitry, myopia, clinical studies		All
2:00-2:45 PM	Break		
2:45-3:00 PM	Break		
3:00-4:00 PM	Oral Presentations Theme: Basic/Translational, Aging/AMD		
	High Resolution Imaging Mass Spectrometry of Human Donor Eyes with Age-related Macular Degeneration	Kevin Schey, PhD	Vanderbilt University
3:00-3:12 PM	Clinically visible progression indicators in age-related macular degeneration (AMD) are transdifferentiated retinal pigment epithelium (RPE)	Christine Curcio, PhD	University of Alabama Birmingham
3:12-3:22 PM	Age-Related Ocular Changes in the RPE of C57/BL6J Mice	Vivian Summers	Emory Eye Center
3:22-3:32 PM	RNA Seq Analysis of myeloid progenitor cells in a Mouse Model of Neovascularization	Sara Jamal	Vanderbilt University
3:32-3:42 PM			
3:42- 3:54 PM	Exercise promotes astrocyte plasticity and protects against retinal degeneration	Katie Bales, PhD	Atlanta VA Medical Center University of Alabama Birmingham
	Moderator: Mike Boulton, PhD		Vanderbilt University
	Moderator: Tonia Rex, PhD		Vanderbilt University
12/8/2020 3:56- 4:05 PM	Closing	John Nickerson	Emory Eye Center