NIH National Eye Institute

RESEARCH IN VISION REPAIR AND HEALTH

FRIDAY • JULY 19, 2024

Session	TIME	SPEAKER	CHAIR
	8:15 AM	Check-in: Coffee and cookies/ donuts	
	8:30 AM	Welcome- **Kapil Bharti**- Scientific Director	
Intro	8:40 AM	**Kiam Preston Jr. -** Predoctoral fellow	**Kiam Preston Jr.**
Keynote	8:45 AM	**Dan Larson** - Senior Investigator NCI/CCR The Enhancer Problem	
	9:45 AM	Coffee break	
10-min talk	10:00 AM	**Claire Marchal** - Data analysis consultant Aging induces large scale chromatin reorganization in mouse photoreceptors	**Jayshree Advani**
	10:15 AM	**Zepeng Qu** - Postdoctoral fellow NRL-centered Rod Gene Regulatory Network identified by gene delivery in a patient iPSC-derived retinal organoid model of NRL-retinopathy	
	10:30 AM	**Mohita Gaur** - Postdoctoral fellow Lactate modulates gene expression through histone lactylation in retina.	
	10:45 AM	**Aman George** - Staff Scientist at Ophthalmic Genetics and Visual Function Branch Drug Development for Oculocutaneous Albinism: Scientific Rationale & Economic Perspective	
	11:00 AM	**Ruchi Sharma** - Staff Scientist at NEI Ocular and Stem Cell Translational Unit Recreating RPE heterogeneity in a dish.	
	11:15 AM	**Xulong Liang** - Research fellow A multifunctional Nrl_P2A-iCreT2A-Td mouse line to study the regulation of the expression and function of NRL	
	11:30 AM	**Soumitra Pal** - Staff scientist Adaptive evolution of gene expression in nocturnal birds	
	11:45 AM	Lunch Break	
Intro	12:45 PM	**Zepeng Qu** - Postdoctoral fellow	**Zepeng Qu**
Keynote	12:50 PM	**Richard Krauzlis** - Senior Investigator and Chief – Lab of Sensorimotor Research Unexpected visual circuits in the primate brain: Selective attention meets object recognition	

3-min talk	1:50 PM	**Amy Chen** - Postbacalaureate fellow The origin of NRL from the MAF family of transcription factors in Chordata	
	1:55 PM	**Sophia Ibargüen** - Postbacalaureate fellow Molecular and functional characterization of the Epha10 receptor in the mouse central nervous system	
	2:00 PM	**Minji Kim** - Predoctoral fellow Using small molecules from a CEP290 retinal ciliopathy screen to mitigate photoreceptor degeneration in P23H rhodopsin transgenic rats and rd10 mice.	
	2:05 PM	**Madhuri Arya** - Postdoctoral fellow Understanding the NRL mediated transcription regulation and its potential protein interactors	
	2:10 PM	**Bilguun Tegshee** - Postdoctoral fellow Identification of Cis Regulatory Elements in NRL as Master Regulators of Gene Expression	
	2:15 PM	**Kaori Ueda** - Postdoctoral fellow Understanding the mechanism of disease formation by NRL-mutation using retinal organoids	
	2:20 PM	**Dheeraj Agrohia** - Postdoctoral fellow Mapping Site-Specific Drug Distribution and Biochemical Changes in Retinal Degeneration Rodent Eyes Using Mass Spectrometry Imaging	
	2:25 PM	**Aditi Mahajan** - Postdoctoral fellow Disease Modeling Using Retinal Organoids	
	2:30 PM	**Anjani Kumari** - Postdoctoral fellow Biomolecular condensates in NRL mediated transcription	
	2:35 PM	**Matthew Brooks –** Biologist TBD	
	2:40 PM	QA	
Break	2:50 PM		
10-min talk	3:00 PM	**Kiam Preston Jr.** - Predoctoral fellow Investigaton of Novel Neural Retina Leucine-Zipper (NRL) Protein Interactors	**Mohita Gaur**
	3:15 PM	**Ting-Yi Lin** - Predoctoral fellow Genetics and Epigenetics Insight into Human Retina Aging	
	3:30 PM	**Kyle Schwab** - Predoctoral fellow Improving Retinal Organoid Cultures Using Bioengineering Approaches	
	3:45 PM	**Alexandra Bernardo-Colón** - Biologist at Laboratory of Retinal Cell and Molecular Biology Neurotrophic PEDF peptides promote photoreceptor survival in murine and human models of retinal degeneration	
	4:00 PM	Wei Li's Lab - TBD	
	4:15 PM	**Anupam Mondal** - Research fellow Decoding pathology onset mechanisms and modularity among inherited retinal degenerative diseases	
	4:30 PM	**Jayshree Advani** - Research fellow Contribution of rare variants in Age related macular degeneration families from whole-exome and whole-genome sequencing data	
	4:45 PM	Closing Remarks: Anand Swaroop - Senior Investigator & Chief of NNRL	
END	5:00 PM		