

2024 DOVS Research Retreat | Poster Session

Friday, September 6

Poster	Presenter	Title
1	Ji-Kang Chen <i>Kerschensteiner Lab</i>	Investigating the role of IGL NPY neurons in integrating photic and metabolic information to drive behavior outputs
2	Evelyn Craigen <i>Clark Lab</i>	Cis-regulatory element activity in temporal gene expression & retinal cell fate specification
3	Henok Getahun <i>Apte Lab</i>	Retinal nonperfusion index as a marker of neurocognitive outcomes in retinal vasculopathy with cerebral leukoencephalopathy and systemic manifestations
4	Isabella Gomes <i>Chen and Rajagopal Labs</i>	Genotype-phenotype associations for cone-rod homeobox (CRX)-linked retinopathies
5	Senyue Hao <i>Zhou Lab</i>	Wide-field space division multiplexing optical coherence tomography for angiographic imaging of the human retina
6	Christy Hoffmann <i>Clark Lab</i>	CellOracle: Identifying novel regulators of retinal cell fates using gene regulatory network inference and in silico knock-out simulations
7	Jade Enright Hostetler <i>Clark Lab</i>	Long noncoding RNA regulation of retina development
8	Chin-I Lin <i>Kerschensteiner Lab</i>	Mechanism for the emergence of the OFF pathway in vision
9	Sean McCracken <i>Williams Lab</i>	Mitochondrial calcium homeostasis influences retinal ganglion cell survival in neurodegeneration following optic nerve axon injury
10	Qingwei Niu <i>Lishko and Zhang Labs</i>	Exploring the pharmacology and structure of Kir7.1, an essential ion channel of retinal pigment epithelium
11	Ismael Nunez <i>Clark Lab</i>	Active DNA demethylation is required for photoreceptors determination and function
12	Pratyush Ramakrishna <i>Kerschensteiner and Morgan Labs</i>	Functional architecture of surround inhibition in an object motion sensitive circuit
13	Pooja Rathaur <i>Bassnett Labs</i>	Contributions of FBN1, FBN2, LTBP2, MAGP1, LOXL1 and FBN1C1039G mutation to the strength zonular fibers
14	Andrew Smith <i>Bassnett Lab</i>	Aqueous humor LEFTY2 is a biomarker for exfoliation glaucoma
15	Ramiz Somjee <i>Corbo and Holehouse Labs</i>	Understanding how interactions between Samd7 and PRC1 reinforce photoreceptor cell identity
16	Jenna Krizan <i>Kerschensteiner Lab</i>	Predation in an insectivorous marsupial
17	Mahsa Bank Tavakoli <i>Morgan Lab</i>	Using deep learning for microcircuits reconstruction in developing mouse dorsal lateral geniculate nucleus (dLGN)
18	Kennedy Turner <i>Ruzycki Lab</i>	Discrete effects of H3f3b loss from retinal progenitors vs post-mitotic photoreceptors
19	Leo Volkov <i>Yoshimatsu Lab</i>	Zebrafish Cyp26 enzymes mediate cone photoreceptor maturation
20	Jamie Walsh <i>Faculty</i>	Aging and inflammation promote ocular T cell residency
21	Qian Wang <i>Faculty</i>	Phospholipase Cy regulates lacrimal gland branching by competing with PI3K in phosphoinositide metabolism
22	Minglei Zhao <i>Williams Lab</i>	Study of peripheral retina ganglion cells using in vivo trans-scleral imaging