

Abstract List AVN Research Day June 5th, 2017

Paper Presentations

1st Session: 12:00 - 12:40

Rescue of Corneal Dystrophy-Causing SLC4A11 Mutants by Ophthalmological Non-Steroidal Anti-inflammatory Drugs	Kumari Alka
Genetic Etiology of Pigmentary Dispersion Syndrome/Pigmentary Glaucoma	Adrian Lahola-Chomiak
Investigating the requirement of zebrafish <i>unc119</i> genes in cilia	Francesca Jean

2nd Session: 2:45 - 3:45

A conserved role for transcription factor <i>nrl</i> in the evolution of rod development across vertebrates	Phil Oel
A role for <i>Sema6d</i> in facilitating epithelial flow into the optic cup during eye morphogenesis	Paula Cechmanek
Over-expression of the Axenfeld-Rieger gene orthologs <i>foxc1a</i> and <i>foxc1b</i> result in lengthened cilia and ciliopathic phenotypes in zebrafish	Paul Chrystal
Investigating Visual Function in a Mouse Model of Autism	Ning Cheng
The role of <i>FoxF2</i> in neurovascular interactions in the developing and adult retina	Nicole Munsie

Poster Presentations

Early changes preceding photoreceptors death in the retina of a Stargardt-like maculopathy mouse model	Camille Dejos
Hereditary Corneal Endothelial Dystrophy Protein, SLC4A11, has a role in Endothelial Cell Adhesion	Darpan Malhotra
The evolutionary history of vertebrate vision through the eyes of the Pacific hagfish (<i>Eptatretus stoutii</i>)	Emily Dong
Fibroblast growth factor signalling regulates optic tract development	Jonathan Yang
Manipulation of key eye dorsoventral axis patterning genes, <i>vax2</i> and <i>tbx2b</i> , affects the closure of a novel optic fissure	Kevin Yoon
Genetic regulation of photoreceptor cell differentiation in the developing mouse retina	Maryam Hejazi
<i>gdf6a</i> , <i>thrβ</i> , and <i>tbx2b</i> act in shared genetic pathways to regulate UV and blue cone identity in zebrafish	Michelle DuVal

(Posters Continued)

Characterizing photoreceptor telodendria in the zebrafish retina	Nicole Noel
Neural crest-derived Bmp7 is critical for inner-retina development and function	Pranidhi Baddam
Investigating the function of redundant cone-rod homeobox-like genes and their role in photoreceptor development and maintenance using an <i>in vivo</i> zebrafish model	Ramona Rosca
Identification of novel mediators of FOXC1 duplication-driven Axenfeld-Rieger Syndrome	Serhiy Havrylov
Bmp3 is a novel regulator of neural crest cells and ocular fissure closure	Sonya Widen
Retinal mitochondria respiration defects precede hyperglycemia onset in the Nile grass Rat model of type 2 diabetes	Ted Han
PMEL Paralogs Required for Pigment Deposition in Zebrafish	Thien-Kim Nguyen-Phuoc
The role of Ezrin in the morphological development of photoreceptors	Nathan Nadolski
Neural crest cells and the superior ocular fissure	Rachel Zukiwsky
Dark current and photoreceptor morphology	Stephanie Ditlof
Determining fundus autofluorescence area in choroideremia males using a semi-automated (SA) method	Jake Knowles