

AOPT 2015 Poster Program

Board #	First Author	YI award	Poster Title
Retinal Pharmacology			
1	Cheng-Wen Lin		Selective multi-kinase inhibitor of ROCK/JAK/PDGFR-B reduces laser-induced CNV in rats
2	Chiara Bianca Maria Platania		Molecular features of interaction between VEGF-A and anti-angiogenic molecules: a biophysical computational study
3	Christopher Toomey	y	Anti-C5a therapy blocks systemic and local monocytes and protects RPE cells from damage in the Cfh+/-~HFC model of AMD
4	Danielle Desjardins		Trichostatin A Rescues RPE Function in Diabetic Rats
5	Emilie PICARD	y	Iron chelation by transferrin preserves vision in retinal degeneration models
6	Fareeha Ambreen		Inflammatory markers and angiogenic mediators in patients with age related macular degeneration
7	GHULAM MOHAMMAD	y	Platelet factor-4 variant (CXCL4L1/PF-4var) antagonizes VEGF functions and inhibits diabetes-induced blood-retinal barrier breakdown
8	Hongwei Ma	y	Inhibition of Thyroid Hormone Receptor Protects Cone Photoreceptors in Retinal Degeneration
9	Jakub Hanus	y	Gossypol Acetic Acid protects RPE cells from oxidative stress-induced necrosis
10	Jeffrey A Jamison		In Vivo Imaging of Retinal Caspase Activity with the Novel Near Infrared Dye: 780-VAD-FMK
11	Jing Wang	y	The sigma 1 receptor ligand (+)-pentazocine ((+)-PTZ) preserves cone function in the Pde6rd10 (Rd10) mouse model of retinitis pigmentosa
12	John A Fuller	y	Use of machine learning-based high content methodologies to identify novel retinal cell phenotypes
13	Kacie Meyer	y	Imprinting and epigenetic modulation of retinal disease in mice
14	Kai Kang	y	Carnosic acid slows photoreceptor degeneration in Pde6rd10 mice by controlling oxidative stress and endoplasmic reticulum stress
15	Khaoula Ramchani		Mechanism protection of dietary supplement enriched in antioxidants and omega-3 in progressive light-induced retinal degeneration model
16	Manas R Biswal	y	Gene based antioxidant therapy delays retinal degeneration in a mouse model of progressive retinal degeneration
17	Mei Chen		Long-term low-dose aspirin use promotes angiogenesis in laser induced choroidal neovascularisation
18	Nawajes Mandal		Ceramide Pathway, Novel Target for Retinal Degenerative Diseases
19	Néstor Más Gómez	y	Chloroquine retinopathy as a modern model of macular degeneration
20	Ram H. Nagaraj		sHSP Peptides Inhibit Protein Aggregation and Apoptosis in the Eye
21	Sarah Melissa Porras Jacobo	y	HtrA1 is Required for Retinal Pigment Epithelium Survival During Endoplasmic Reticulum Stress
22	Simon Kaja		Novel plate reader-based assay measuring glioprotection in primary optic nerve head astrocytes
23	Stephanie Merrigan	y	Vitamin D, An Improved Therapy for Aberrant Ocular Neovascularisation ?
24	Sylvia B. Smith		Sigma 1 Receptor (σ 1R) regulates the oxidative stress response in primary retinal Müller glial cells (1 ^o MGCs) via Nrf2 signaling and system xc-, the Na+-independent glutamate-cystine exchanger
25	Vasudevaraju Padmaraju		Familial Alzheimer's disease mutations impair retinal sensitivity and can be protected by methionine restriction
26	Whitney Ann Greene		Screening pharmacological compounds using an in vitro model of proliferative vitreoretinopathy
27	Xi-Qin Ding		cGMP/PKG Signaling Suppresses Inositol 1,4,5-Trisphosphate Receptor Phosphorylation and Promotes Endoplasmic Reticulum Stress in Photoreceptors of CNG Channel-deficient Mice
Glaucoma and blood flow			
28	Ana Caroline Dordea		Chronic tadalafil treatment attenuates increases in IOP and retinopathy in sGC α 1-/- mice
29	Dorette Z. Ellis		Sigma1 Receptor-Induced Correlates Between Caspase Activity and Mitochondria Membrane Potential in Glucose and Oxygen Deprived Retinal
30	Dorota Luiza Stankowska	y	Neuroprotective effects of transcription factor Brn3b in an ocular hypertension rat model of glaucoma
31	Elie beit-Yannai		Receptor protein tyrosine phosphatase sigma (RPTP- σ) increases pro-MMP activity in oxidatively stressed trabecular meshwork cell line
32	Elizabeth Cairns		The Ago-PAM GAT211 Decreases Retinal Ganglion Cell Loss in the Nee Mouse Model of Ocular Hypertension
33	Guorong Li		Recovery profile of human trabecular meshwork cells following withdrawal from prolonged corticosteroid treatment
34	Hoi-Lam Li		Effects of topical baicalein on intraocular pressure in rodents
35	Inas Aboobakar	y	Functional characterization of LOXL1 regulatory variants in pseudoexfoliation glaucoma
36	Jason C Lim		Stimulation of TLR3 leads to lysosomal exocytosis and ATP release from both RPE cells and optic nerve head astrocytes
37	Jie Fan	y	Acid Sphingomyelinase Plays a Role in Ischemia-induced Retinal Degeneration
38	John Cameron Millar		Investigation of lentiviral vectors as anterior segment gene transducing agents in the mouse
39	Line Petersen	y	NO and COX products regulate the retinal vessel diameters in diabetic patients

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40	Madeline L. Budda		Sphingolipid Signaling – New Insights into the Mechanism of Ganglion cell Death and Glaucoma
41	Nicole E. Ashpole		Shear Stress Regulation of eNOS Promoter Activity in Schlemm's Canal Cells
42	Nolan Robert McGrady		Involvement of the Endothelin Receptor A in a Rat Model of Ocular Hypertension
43	Padmanabhan P Pattabiraman		Effects of Rho kinase inhibitor AR-13324 on the actin cytoskeleton and on TGFβ2- and CTGF-induced fibrogenic activity in Human Trabecular Meshwork Cells
44	Peter Skov Jensen		Effects of insulin on the porcine retinal arterioles and capillaries in a new model for studying the vascular diameter regulation in vitro
45	Raghu R. Krishnamoorthy		Endothelin B Receptor Mediated Neurodegeneration in a Rodent Model of Ocular Hypertension
46	Shahid Husain		Role of HIF-1α in retinal ganglion cell death
47	Yong Hwan Park	y	AMPA Receptor Dual Role in RGC Survival
48	Yuliya Naumchuk	y	Differential control of intracellular calcium signaling in primary adult rat optic nerve head astrocytes
49	Yutao Liu		Human Aqueous Humor Exosomes

Ocular Surface Pharmacology

50	Achim Krauss		Improvement of outcome measures of dry eye by a novel integrin antagonist in the murine desiccating stress model
51	Ariel Gore	y	A Novel approach for expansion of epithelial stem cells on contact lenses: Towards cell therapy treatment of ocular surface diseases
52	Juana Gallar		Effects of amitriptyline on the spontaneous and stimulus-evoked activity of corneal cold-sensitive nerve terminals
53	Rui Zhang		Mesenchymal Stem Cells (MSCs) inhibit Bacterial induced corneal inflammation
54	Yang Liu		Mechanisms involved in azithromycin's stimulation of human meibomian gland epithelial cell function
55	Sandra Johanna Garzon Parra		Effective diagnosis in inclusion conjunctivitis in Colombia and Azithromycin as topical treatment

Ocular Drug Delivery

56	Akihiro Ohira		The effect of Topical Dexamethasone γ-Cyclodextrin Nanoparticle Eye Drops in diabetic macular edema
57	Hu Yang		A Clickable Dendrimer Hydrogel Platform for Ocular Drug Delivery
58	Joseph B. Ciolino		Dexamethasone-eluting Contact Lens
59	Lorant Dienes		The effect of hydroxypropyl-guar gellable lubricant eye drops on tear film stability and corneal sensitivity in patients with dry eye
60	R. Michael Burr		Small Chain Triglycerides as Novel Platform for Ocular Drug Delivery of Protein Therapeutics
61	Miltiadis K Tsilimbaris		The bioavailability of slow release flurobiprofen after intravitreal administration in the rabbit eye
62	Rob W.J. Collin		AAV-mediated antisense oligonucleotide delivery is an effective therapeutic approach for CEP290-associated LCA