April 28, 2019

8:00 - 9:45am. AMD anti-VEGF II.
Location: West Exhibition Hall.
Abstract #112 - A0293. Poster #A0293.
High-dose high-frequency aflibercept for recalcitrant neovascular age-related macular degeneration (2-year follow up)

8:00 - 9:45am. AMD anti-VEGF II.
Location: West Exhibition Hall.
Abstract #A0253 - A0285. Poster #A0266.
10-year mortality and clinical outcomes in patients with neovascular age-related macular degeneration treated with intravitreal anti-VEGF injections
Young SL, Anderson M, Borooah S, Ambrecht AM, Cackett PD

8:00 - 9:45am. AMD anti-VEGF II.
Location: West Exhibition Hall.
Abstract #74 - A0254. Poster #A0254.
Factors associated with extended remission in neovascular age-related macular degeneration on pro re nata treatment protocol

1:00 - 2:45pm. VClinical and epidemiological aspects of infection.
Location: West Exhibition Hall.
Abstract #874 - B0352. Poster #B0352.
Cryptococcal choroiditis in the absence of cryptococcal meningitis: a novel clinical description
Spencer D, Yarmohammadi A, Toomey C, Ofstad T, Freeman WR

1:00 - 2:45pm. AMD therapies (excluding anti-VEGF).
Location: West Exhibition Hall.
Abstract #A0232 - A0252. Poster #A0250.
Generation of adeno-associated virus vector for RPE delivery of secretory antibody fragment

1:00 - 2:45pm. Melanoma: Immunotherapy, Genomics, New Strategies.
Location: West Exhibition Hall.
Abstract #B0207 - B0240. Poster #B0239.
Frequency of Mismatch Repair Gene Mutations in Uveal Melanoma
Toomey C, Phou S, Fraser K, Bakhoum M, Thorson J, Korn BS, Kikkawa DO, Goldbaum MH, Lin JH

1:00 - 2:45pm. Mechanistic and translational study of retinal degeneration and uveitis.
Location: West Exhibition Hall.
Abstract #771-B0249. Poster #B0249.
Kinetics of the retinal microglial response to optic nerve injury
Walsh J, Weinreb RN, Skowronksa-Krawczyk D
April 29, 2019

8:15 - 10:00am. Imaging Science and Vision Assessment. Location: West Exhibition Hall. Abstract #A0102 - A0116. Poster #A0108. Comparison of high magnification module for spectris to adaptive optics scanning laser Ophthalmoscopy
Bartsch DG, Amador M, Dans K, Jhingan M, Cavichini Cordeiro M, Freeman WR

8:15 - 10:00am. Imaging: posterior segment, clinical. Location: West Exhibition Hall. Abstract #1544 - A0304. Poster #A0304. Choroidal vascularity index in myopia
Jhingan M, Dans K, Cavichini Cordeiro M, Bartsch DG, Amador M, Chhablani J, Freeman WR

8:15 - 10:00am. Glaucoma Genetics. Location: West Exhibition Hall. Abstract #1620-A0500. Poster #A0500. Mixed effects models indicate several SNPs within the CNTNAP2 gene increase rate of glaucoma related visual field loss

11:15am - 1:00pm. OCT - Clinical Applications II. Location: West Exhibition Hall. Abstract #1885-A0276. Poster #A0276. Effect of body position on anterior chamber angle dimensions assessed by anterior segment optical coherence tomography
Penteado R, Xu B, Yang D, Proudfoot J, Susanna R, Weinreb RN


11:15am - 1:00pm. Molecular mechanisms of retinal function in health and disease. Location: East Ballroom C. Abstract #1738. PAPER SESSION. Inhibition of NF-kB signaling modulates epithelial to mesenchymal transition in human stem cell-derived retinal pigment epithelial cells
11:15am - 1:00pm. Drug delivery, drug and gene delivery system.
Location: East 2/3.
Abstract #1704. PAPER SESSION.
Scleral permeation of co-administered episcleral drugs

1:15 - 2:45pm. Aging as a factor in eye diseases-SIG.
Location: East Ballroom C.
SIG.
Aging as a factor in eye diseases
Skowronska-Krawczyk D, Palczewski K, Afshari NA, Menko AS, Swaroop A, Skowronska-Krawczyk D

1:15 - 2:45pm. Health disparities, social justice and vision research - SIG.
Location: West 217-219.
SIG.
Health disparities, social justice and vision research
Eghrari AO, Collins ME, Sommer A, Afshari NA, Wolle MA, Moshiri A, Eghrari AO, Collins ME

4:00 - 5:45pm. Visual Fields, Psychophysics, and Electrophysiology.
Location: West Exhibition Hall.
Abstract #2478-A0642. Poster #A0642.
Agreement between compus fundus automated perimetry and Humphrey field analyzer measurements

4:00 - 5:45pm. Neuroprotection.
Location: Harbour Ballroom.
Abstract #2255. PAPER SESSION.
MAP4K4 and GSK-3 pathways complement DLK/LZK signaling to control cell death and axon degeneration in retinal ganglion cells
Patel AK, Mitchell K, Hansen BS, Berlinicke C, Broyer R, Zack DJ, Welsbie DS
April 30, 2019
8:45 - 10:30am. OCTA in AMD/DR/Glaucoma/Ischemia.
Location: West Exhibition Hall.
Abstract #3004 - A0347. Poster #A0347.
Confusion matrix evaluation of the clinical utility of oct angiography in amd-associated Choroidal neovascularization
Cavichini Cordeiro M, Dans K, Jhingan M, Amador M, Bartsch DG, Nudleman E, Freeman WR

8:45 - 10:30am. OCT in AMD/DR/Glaucoma/Ischemia.
Location: West Exhibition Hall.
Abstract #3038-A0381. Poster #A0381.
Association of superficial and deep macula vessel density with past visual field progression in glaucoma

8:45 - 10:30am. OCTA in AMD/DR/Glaucoma/Ischemia.
Location: West Exhibition Hall.
Abstract #3044-A0387. Poster #A0387.
Diagnostic accuracy of OCTA vessel density and OCT tissue thickness measurements using machine learning

8:45 - 10:30am. OCTA in Healthy/Aging Eyes.
Location: West Exhibition Hall.
Abstract #3066-A0409. Poster #A0409.
Age-related optic nerve head and retinal microvasculature dropout varies by race

8:45 - 10:30am. Animal Models for Visual Disease and Restoration.
Location: West Exhibition Hall.
Abstract #3112 - A0503. Poster #A0503.
Retinal and optic nerve dysfunction in PS19 tau transgenic mice
Chao DL, Lin JH, Castillejos D, Chiang K, Hiramatsu N, Chen A, Koo E

8:45 - 10:30am. Aqueous humor Dynamics and IOP.
Location: West Exhibition Hall.
Abstract #3189-B0363. Poster #B0363.
Human scleral fibroblast steroid-response and cellular migration inhibition
Bogarin T, Saraswathy S, Barron E, Zheng JJ, Weinreb RN, Huang A

11:45am - 1:30pm. Highlights of OCT angiography.
Location: East Ballroom C.
Abstract #3281. PAPER SESSION.
Progressive ganglion cell complex thickness and vessel density loss in healthy, pre-perimetric glaucoma and primary open angle glaucoma eyes
11:45am - 1:30pm. **Non-Melanoma, Non-Retinoblastoma Intraocular Pathology & Retinopathy.**
Location: West Exhibition Hall.
Abstract #A0577 - A0594. Poster #A0583.
**Morphology of retinal pathologic prion protein (prp) deposits in sporadic creutzfeldt-jakob disease (scjd) patients**
Yarmohammadi A, Goodwill V, Sigurdso C, **Goldbaum MH, Savino P, Lin JH**

11:45am - 1:30pm. **Tumors: Eyelids, Orbit, Ocular Surface, Conjunctiva, and Ocular Adnexa.**
Location: West Exhibition Hall.
Abstract #A0595 - A0627. Poster #A0627.
**Temporal artery biopsy length does not affect rate of positive diagnosis in temporal arteritis: a retrospective review of 107 cases**
Men C, McKnight T, Challa BS, **Korn BS, Kikkawa DO, Lin JH**

11:45am - 1:30pm. **Stem Cells and Retinal Organoids: Development.**
Location: West Exhibition Hall.
Abstract #3331-A0020. Poster #A0020.
**The role of microRNAs in human retinogenesis**
Jones MK, Chow M, Kambli NK, **Wahlin KJ**

2:45 - 4:30pm. **Visual Impairment - Assistive Devices and Rehabilitation.**
Location: West Exhibition Hall.
Abstract #B0072 - B0103. Poster #B0072.
**Long-term quality of life assessment of severely visually impaired individuals after using the Aira assistive technology system**
Park K, Nguyen BJ, Luo S, Kim J, **Chao DL**
May 1, 2019

8:15 - 10:00am. **Retinal Degeneration.**
Location: East 8 & 15.
Abstract #4206. PAPER SESSION.
Unfolded protein response regulator, atf6, is essential for stress survival in cone Photoreceptors
Chiang WC, Bi X, Kroeger H, Landeros S, Cheng L, Lin JH

8:15 - 10:00am. **OCTA in Ocular, Cerebral and Systemic Diseases/Disorders.**
Location: West Exhibition Hall.
Abstract #4529-A0514. Poster #A0514.
Reduced retinal microvasculature with increasing axial length and older age in healthy myopic and non-myopic eyes

10:15am - 12:00pm. **Neuroprotection.**
Location: West Exhibition Hall.
Abstract #4863-A0184. Poster #A0184.
Gene regulation dynamics induced by the protein kinase inhibitor, SBJ-051 associated with neuroprotection in light-induced photoreceptor cell death

10:15am - 12:00pm. **Biochemical and molecular mechanisms of age-related macular degeneration.**
Location: West Exhibition Hall.
Abstract #4896 - A0217. Poster #A0217.
Regulation of HTRA1 activity by CTRP5 may underlie the pathology of Late Onset Retinal Degeneration (L-ORD)

10:15am - 12:00pm. **Neuroprotection.**
Location: West Exhibition Hall.
Abstract #A0184 - A0210. Poster #A0198.
Intravitreal injection of novel small molecule proteostasis regulators activates the Unfolded Protein Response in murine retina

10:15am - 12:00pm. **Biochemical and molecular mechanisms of age-related macular degeneration.**
Location: West Exhibition Hall.
Abstract #4897 - A0218. Poster #A0218.
HTRA1 is increased in Bruch’s membrane/choroid in a mouse model of L-ORD
Garland D, Chekuri A, Chavali V, Suk J, Borooah S, Ayyagari R
10:15am - 12:00pm. *Corneal Cell and Molecular Biology.*
Location: West Exhibition Hall.
Abstract #5085 - B0219. Poster #B0219.
Characterization of human iPSC-derived corneal endothelial cells
**Zhao J, Afshari NA**

10:15am - 12:00pm. *Macular Diseases Excluding AMD.*
Location: West Exhibition Hall.
Abstract #5030 - A0493. Poster #A0493
Characterizing two novel mouse models of Ctrp5/C1qtnf5 to understand disease mechanism in late-onset retinal degeneration

10:15am - 12:00pm. *Stem Cells and Organoids.*
Location: East 11/12.
Abstract #4762. PAPER SESSION.
Cone photoreceptors fail to form in atf6-related achromatopsia retinal organoids
Kroeger H, Chiang WC, Nguyen A, Lin JH

3:00 - 4:45pm. *Healthcare Delivery.*
Location: West Exhibition Hall.
Abstract #5458 - B0349. Poster #B0349.
Cost-effectiveness analysis of endonasal dacryocystorhinostomy using markov modeling
Hu JQ, Men C, Afshari NA, Korn BS, Kikkawa DO

3:00 - 4:45pm. *Imaging I.*
Location: West Exhibition Hall.
Abstract #5550-B0441. Poster #B0441.
Beta and gamma parapapillary atrophy (ppa) zone areas in myopic eyes with and without Glaucoma

3:00 - 4:45pm. *Imaging II.*
Location: West Exhibition Hall.
Abstract #5600-B0491. Poster #B0491.
Deep learning models predict visual function from macula thickness map

3:00 - 4:45pm. *Imaging II.*
Location: West Exhibition Hall.
Abstract #5605-B0496. Poster #B0496.
Longitudinal changes in optical coherence tomography angiography (OCTA) vessel density and thickness in glaucoma eyes with focal lamina cribrosa defects
3:00 - 4:45pm. **Imaging I.**
Location: West Exhibition Hall.
Abstract #5548-B0439. Poster #B0439.
Novel macular Bayesian deviation map for differentiation between healthy and glaucoma eyes
Zangwill LM, Medeiros FA, Weinreb RN, Belghith A

3:00 - 4:45pm. **Imaging I.**
Location: West Exhibition Hall.
Abstract #5522-B0413. Poster #B0413.
OCTA-measured vessel density and RNFL thickness in glaucomatous eyes with and without optic disc hemorrhage

3:00 - 4:45pm. **Medical education, training, and EHR implementation.**
Location: West Exhibition Hall.
Abstract #B0375 - B0403. Poster #B0395.
Impact of electronic health record implementation on clinical workflows for ophthalmology trainees

3:00 - 4:45pm. **Medical education, training, and EHR implementation.**
Location: West Exhibition Hall.
Abstract #5505 - B0396. Poster #B0396.
Time-motion analysis of paper-based clinical workflows in a multi-specialty academic ophthalmology practice

3:00 - 4:45pm. **AMD and Antiangiogenic agents.**
Location: West Exhibition Hall.
Abstract #5393-B0089. Poster #B0089.
Sustained neuroprotective effect of novel Aß aggregation modulator GAL-101 shown in dry AMD and glaucoma models with transient peak concentration using eye drops
Russ H, Parsons C, Barkana Y, Pearlman AL, Heier JS, Levin LA, Weinreb RN, Liebmann JM

6:15 - 7:45pm. **Wnt Signalling and regenerative medicine for retinal vascular disease - SIG.**
Location: East Ballroom C.
SIG.
Wnt Signalling and regenerative medicine for retinal vascular disease
Trese MT, Smith L, Drenser KA, Nudleman E, Antonetti D
May 2, 2019

8:00 - 9:45am. Biomechanics.
Location: West Exhibition Hall.
Abstract #6180-B0046. Poster #B0046
Optic nerve vessel density in glaucoma patients of African and European descent

8:00 - 9:45am. Blood flow, Ischemia/reperfusion, hypoxia and oxidative stress.
Location: West Exhibition Hall.
Abstract #A0120 - A0140. Poster #A0131.
Dilatation of the retinal capillary plexuses in branch retinal vein occlusion
Long CP, Bakhom M, Toomey CB, Bartsch DG, Nudleman E, Goldbaum MH, Freund KB, Sarraf D, Freeman WR

10:15am - 12:00pm. Biology of Retinal Neurons.
Location: East 11/12.
Abstract #6405. PAPER SESSION.
Thyroid signaling specifies cone subtypes in human retinal organoids

10:15am - 12:00pm. Cornea Dry Eye Clinical I Diagnostics.
Location: West Exhibition Hall.
Abstract #B0285 - B0322. Poster #B0285.
Evaluation of partial blink rate as a measurement of dry eye disease
Sella r, jie y, feng j, gomez lm, afshari na

12:15 - 1:45pm. Optical Coherence Tomographic Aniography of the Eye-SIG.
Location: East Ballroom B.
SIG.
Optical coherence tomographic angiography of the eye
Huang D, Rosenfeld PJ, Fawzi AA, Schmidt-Erfurth U, Jia Y, Zangwill LM

12:15 - 1:45pm. The implications of immune response in ocular gene therapy-SIG.
Location: East 1.
SIG.
The implications of immune response in ocular gene therapy
Borooah S, Dick AD, Flannery JG, Iannaccone A, Sieving PA, Borooah S