



HARVARD
MEDICAL SCHOOL

DEPARTMENT OF
Ophthalmology

ARVO 2014

ARVO-ISIE/Imaging Conference
May 3, 2014

ARVO Annual Meeting
May 4–8, 2014

Orange County Convention Center
South Building
9899 International Drive, Orlando, FL

Harvard Medical School Department of Ophthalmology

ARVO 2014

Presentations at the ARVO-ISIE/Imaging Conference and the ARVO Annual Meeting*

ARVO-ISIE/Imaging Conference May 3, 2014

Poster Sessions 1

ARVO Education Courses May 3, 2014

Education Courses 2

ARVO Annual Meeting May 4–8, 2014

Poster Sessions	3-15
Paper Sessions	16-23
Special Interest Groups	24-25
Cross-Sectional Groups	26
Minisymposia & Symposia	27
Workshops.....	28

*This collection of presentations was extracted from the complete conference programs.
Any errors or omissions are inadvertent.

ISIE Imaging Conference Poster Sessions

Saturday, May 3, 2014

10:00 - 10:30 am

12:00 - 1:30 pm

3:30 - 4:30 pm

Poster P5

MRI, CT, and UBM imaging after corneal and cataract surgery

Sotiria Palioura, James Chodosh, Lois Hart, Karen Capaccioli, Daniel Ginat,
Suzanne Freitag

Massachusetts Eye and Ear Infirmary, Harvard Medical School

ARVO EDUCATION COURSES (SEPARATE REGISTRATION REQUIRED)

Saturday, May 3, 2014
8:30 PM – 4:30 PM

Session ID & Title
Session Location
Session Date
Session Time

Presentation Time

Abstract ID & Title

Authors

Affiliations

1 New Insights in Understanding Diabetic Retinopathy

S 210A-C

Saturday, May 3, 2014

8:30 AM – 4:30 PM

9:15 AM - 9:30 AM

Pharmacotherapies for Diabetic Retinopathy and Diabetic Macular Edema

J. K. Sun

Joslin Diabetes Center; Harvard Medical School

1:25 PM - 1:40 PM

Inflammation in Diabetic Retinopathy

L. Smith

Children's Hospital of Boston, Harvard; Harvard Medical School

6 Telehealth Methods for Eye Disease: Focus on Diabetic Retinopathy, Glaucoma and Retinopathy of Prematurity

S 230GH

Saturday, May 3, 2014

1:00 PM – 4:30 PM

1:05 PM - 1:20 PM

Goals of telemedicine diabetic retinopathy programs

P. S. Silva

Joslin Diabetes Center; Harvard Medical School

1:35 PM - 1:50 PM

Telemedicine for Retinopathy of Prematurity

D. Vanderveen

Boston Children's Hospital; Harvard Medical School

1:50 PM - 2:20 PM

Glaucoma Screening

L. R. Pasquale

Mass Eye & Ear Infirmary

ARVO Annual Meeting Poster Sessions
Sunday, May 4, 2014
Exhibit/Poster Hall SA

Session Date

Session Time

Poster ID – Poster #

Abstract Title

Authors

Affiliations

Sunday, May 4, 2014
8:30 AM - 10:15 AM

16 - A0004

Are Mice Relevant Models for Understanding Sex-Related Differences in the Human Meibomian Gland?

D. A. Sullivan; R. Rahimi Darabad; S. Liu; W. R. Kam
Schepens Eye Res Inst/MEE/Harvard Med School

17 - A0005

Membrane Steroid Receptors are Expressed by Human Meibomian Gland Epithelial Cells

W. R. Kam; R. Rahimi Darabad; D. A. Sullivan
Schepens Eye Research Institute, Massachusetts Eye and Ear, Harvard Medical School

36 - A0024

Composition of Terrestrial and Marine Mammal Tears is Dependent on Species and Environment

R. Kelleher Davis; P. Argueso
Schepens Eye Research Institute and Massachusetts Eye and Ear, Harvard Medical School

45 - A0033

Relative Efficacy of Loteprednol (Lotemax®) vs. Loteprednol-Tobramycin (Zylet®) on Corneal and Conjunctival Immune Response in Treatment of Meibomian Gland Dysfunction (MGD)-Associated Ocular Surface Inflammation: In Vivo Confocal Microscopy Results of a Phase IV Randomized Clinical Trial

Y. Qazi; A. Kheirkhah; T. H. Dohlman; F. Amparo; R. Dana; P. Hamrah
Massachusetts Eye and Ear Infirmary

62 - A0050

Alteration in Cell Structure and Function in Lacrimal Gland of Thrombospondin-1/- Mouse of Sjögren's Syndrome

S. Bhattacharya; R. R. Hodges; S. Masli; D. Dartt
Schepens Eye Research Institute Massachusetts Eye and Ear Infirmary Harvard Medical School; Boston University School of Medicine

80 - A0135

Regulation of vascular leakage by Fas Ligand: Distinguishing the role of soluble from membrane FasL in unique knock-in mice with laser-induced choroidal neovascularization

A. Koirala; A. Marshak-Rothstein; B. R. Ksander; M. S. Gregory-Ksander
Schepens Eye Research Institute, Massachusetts Eye and Ear Infirmary, Harvard Medical School; University of Massachusetts Medical School

133 - A0226

The Difference Between Goldmann Applanation Tonometry and Pascal Dynamic Contour Tonometry in Both Normal and Open Angle Glaucoma Patients

M. Giovengo; M. A. Latina
Massachusetts Eye and Ear Infirmary

Sunday, May 4, 2014
8:30 AM - 10:15 AM

174 - A0361

Vision-related Quality of Life in patients with Ocular Graft-Versus-Host Disease

T. B. Abud; U. S. Saboo; F. Amparo; H. Shikari; R. Dana
Massachusetts Eye and Ear Infirmary, Harvard Medical School

188 - A0375

Positive impact of Comprehensive Vision Rehabilitation on psychosocial well-being

A. Selivanova; M. Jackson
Massachusetts Eye and Ear Infirmary; Massachusetts Eye and Ear Infirmary

193 - B0001

CONJUNCTIVAL INDOCYANINE GREEN LYMPHOGRAPHY

C. Freitas; F. Orefice; R. A. Costa; J. L. Orefice; T. Freitas; N. Kombo; C. Foster
Massachusetts Eye Research and Surgery Institution; Centro Brasileiro de Ciências Visuais; Hospital de Olhos Santa Luzia

241 - B0049

Embolus extravasation is a mechanism of microvascular recanalization in human retinal artery occlusions

B. P. Hafler; J. Grutzendler; R. A. Adelman
Yale School of Medicine; Yale University School of Medicine

332 - C0103

Scotopic and Photopic ERG Responses in Pediatric Patients with Usher Syndrome

J. Tavormina; R. M. Hansen; A. Moskowitz; H. L. Rehm; M. Kenna; A. Fulton
Boston Children's Hospital; Harvard Medical School; Brigham and Women's Hospital; Boston Children's Hospital

341 - C0112

Electroretinographic Oscillatory Potentials and Flicker Responses in Pediatric Patients Taking Vigabatrin

T. L. Favazza; T. Bowe; E. A. Swanson; A. Moskowitz; R. M. Hansen; A. Raghuram; A. Fulton; J. D. Akula
Boston Children's Hospital; Harvard Medical School

383 - C0154

Synergistic interaction between endothelial cells and retinal pigment epithelium

M. Saint-Geniez; C. Spencer; S. Abend; K. McHugh
Mass Eye and Ear; Harvard Medical School; Boston University

407 - C0178

Novel technique for sectioning a mouse retinal flat mount

C. M. Aderman; Y. Sun; Z. Shao; J. Joyal; L. Smith
Children's Hospital Boston; University of California, San Francisco

423 - C0194

Cysteine targets multiple phototransduction components

T. Isayama; J. Wu; V. Lee; A. L. Zimmerman; C. L. Makino
Mass Eye & Ear Infirmary; Brown University

Sunday, May 4, 2014
8:30 AM - 10:15 AM

481 - D0100

Continuous Wear Non-Invasive Device for Sustained Ocular Drug Delivery

C. D. Leahy; R. Gutner; W. Varney; J. Rulander; S. Johnston; F. Lai; K. S. Crawford; J. Ellis; E. Ellis

Vista Scientific LLC; New England College of Optometry; PharmOcu; University of Massachusetts Lowell-Massachusetts Medical Device Development Center

Sunday, May 4, 2014
1:30 PM - 3:15 PM

594 - B0121

Plasma kallikrein (PKal) deficiency ameliorates the effects of vascular endothelial growth factor (VEGF) on retinal hyperpermeability and edema.

A. C. Clermont; Q. Zhou; N. Murugesan; W. Fickweiler; E. P. Feener
Joslin Diabetes Center; Joslin Diabetes Center; Harvard Medical School

612 - B0139

A primary RPE cell culture model to study early mechanisms of macular degeneration

R. Fernandez-Godino; E. Pierce; D. Garland
OGI-Mass Eye and Ear Infirmary-HARVARD MEDICAL SCHOOL

668 - C0078

Risk Factors for Depressive Symptoms in Age-related Macular Degeneration Based on the Fifth (2011) Korea National Health and Nutrition Examination Survey (KNHANES V-2).

H. Cho; W. Lee; L. Sobrin
Hanyang University Guri Hospital; Massachusetts Eye and Ear Infirmary
Department of Ophthalmology, Harvard Medical School

713 - C0256

Characterization of Retinal Structure and Function in Mice Carrying Ezh2 Deficiency Specifically in Retinal Ganglion Cells

L. Cheng; H. Yu; N. Yan; H. Zhou; D. Chen
Institute of Clinical Pharmacology, Central South University; Schepens Eye Research Institute, Department of Ophthalmology, Harvard Medical School; Department of Ophthalmology and Ophthalmic Laboratories, West China Hospital, Sichuan University

765 - D0008

The effect of Omega-3 status on contrast sensitivity in healthy middle-aged Norwegians

T. Olsen; T. Langaas; P. J. Bex; S. J. Gilson; R. Baraas
Buskerud and Vestfold University College; Schepens Eye Research Institute

797 - D0040

Monocular and Binocular Contrast Sensitivity Functions as Clinical Outcomes in Amblyopia

L. A. Lesmes; M. Kwon; Z. Lu; M. Dorr; A. Miller; D. G. Hunter; M. Kazlas; P. J. Bex
Adaptive Sensory Technology; Massachusetts Eye and Ear Infirmary; Harvard Medical School; Boston Children's Hospital; Ohio State University

Sunday, May 4, 2014
3:15 PM - 5:00 PM

900 - A0252

Imaging the Lamina Cribrosa using Spectral Domain OCT Enhanced Depth Imaging and Swept Source OCT in Open Angle Glaucoma Patients

E. Taniguchi; N. Sangal; E. I. Paschalis; L. R. Pasquale; L. Q. Shen
Massachusetts Eye and Ear Infirmary

1001 - A0390

Metabolic defects and oxidative stress in keratoconus

D. Karamichos; J. Hjortdal; A. E. Hutcheon; J. M. Asara; J. D. Zieske
University of Oklahoma Health Sciences Center; Schepens Eye Research Institute/Massachusetts Eye and Ear and Harvard Medical School; Beth Israel Deaconess Medical Center, Harvard Medical School; Aarhus University Hospital

Sunday, May 4, 2014
3:15 PM - 5:00 PM

997 - A0386

Oxidative DNA damage in Fuchs endothelial corneal dystrophy

A. Halilovic; T. Schmedt; U. Jurkunas
Schepens Eye Research Institute, Mass Eye and Ear Infirmary, Harvard Medical School

1092 - B0230

In Vivo and In Vitro Feasibility Studies of Intraocular Use of FocalSeal® to Close Retinal Breaks in Porcine and Rabbit Eyes

S. Hoshi; F. Okamoto; Y. Kaji; M. Arai; T. Hirose; T. Oshika
Institute of Clinical Medicine, University of Tsukuba; Arai Eye Clinic; The Schepens Eye Research Institute, Harvard Medical School

1119 - B0257

Retinal detachment in traumatic chorioretinal rupture (sclopetaria)

T. D. Papakostas; Y. Yonekawa; D. M. Wu; J. B. Miller; P. B. Veldman; Y. E. Chee; D. Husain; D. Elliott
Massachusetts Eye & Ear Infirmary

1128 - C0002

Adaptive Optics Scanning Laser Ophthalmoscopy Identifies Microaneurysm Features Associated with Fluorescein Leakage and Local Retinal Neural Pathology in Diabetic Eyes

J. K. Sun; J. Lammer; M. Cheney; P. S. Silva; L. P. Aiello
Joslin Diabetes Center; Harvard Medical School; Medical University Vienna

1180 - C0208

Characterization of a spontaneous neovascular mouse model

E. Hasegawa; D. Husain; B. Chang; D. G. Vavvas; R. J. D'Amato; J. W. Miller; K. M. Connor
Massachusetts Eye & Ear Infirmary, Harvard Medical School; The Jackson Laboratory; Boston Children's Hospital, Harvard medical School

1199 - C0227

Functional role of TLR in choroidal neovascularization

Y. Ng; M. Ju; D. Iwata; R. Foxtan; S. Bunker; M. Belich; G. Gough; P. S. Adamson; D. T. Shima
UCL Institute of Ophthalmology; GlaxoSmithKline; GlaxoSmithKline; The Schepens Eye Research Institute

ARVO Annual Meeting Poster Sessions
Monday, May 5, 2014
Exhibit/Poster Hall SA

Session Date
Session Time

Poster ID – Poster #
Abstract Title
Authors
Affiliations

Monday, May 5, 2014
8:30 AM - 10:15 AM

1346 - A0064
Zebrafish genome targeting with CRISPR-Cas9 endonuclease system at the nmnat1 locus
Q. Zhang; E. Pierce
Massachusetts Eye and Ear Infirmary

1388 - A0144
Enhanced Neurogenic Potential of Müller Cells in the Absence of Ephrin-A2/A3
R. Zhu; K. Cho; Y. Fang; L. Yang; D. F. Chen
Peking University First Hospital, Key Laboratory of Vision Loss and Restoration, Ministry of Education; Schepens Eye Research Institute, Massachusetts Eye and Ear, Harvard Medical School; Eye and ENT hospital, Fudan University; Boston VA Healthcare System

1393 - A0250
Long-term Vision Changes in Carriers of X-linked Retinitis Pigmentosa
J. Comander; C. Weigel-DiFranco; E. L. Berson
Harvard Medical School, Massachusetts Eye and Ear Infirmary

1404 - A0261
The Relationship of Cystoid Macular Edema to Urinary Iodine Concentration in Retinitis Pigmentosa
M. A. Sandberg; E. N. Pearce; S. Harper; C. Weigel-DiFranco; L. Hart; B. Rosner; E. L. Berson
Harvard Medical School, Massachusetts Eye and Ear Infirmary; Boston University School of Medicine; Massachusetts Eye and Ear Infirmary

1417 - A0274
Quantitative Fundus Autofluorescence in Bull's-Eye Maculopathy
T. Duncker; F. C. Delori; J. P. Greenberg; W. Lee; J. Zernant; R. Allikmets; S. H. Tsang; J. R. Sparrow
Columbia University; Schepens Eye Research Institute

1422 - A0279
Quantitative Fundus Autofluorescence in Patients with Peripherin 2 (PRPH2/RDS) Mutations
F. C. Delori; T. Duncker; R. Allikmets; C. Cai; R. L. Woods; S. H. Tsang; J. R. Sparrow
Schepens Eye Research Institute; Columbia University

1464 - C0103
PROSE Treatment at Five Years
J. S. Agranat; N. Kitos; D. S. Jacobs
Boston Foundation for Sight; Boston University School of Medicine; Massachusetts Eye and Ear

1468 - C0107
Efficacy of Autologous Serum Tears for Treatment of Severe Corneal Pain in Patients with Corneal Neuropathy: An In Vivo Confocal Microscopy Study
S. Aggarwal; C. M. Colon; A. Kheirkhah; P. Hamrah
Massachusetts Eye & Ear Infirmary

Monday, May 5, 2014
8:30 AM - 10:15 AM

1469 - C0108
Impact of Corneal Pain on Quality of Life (QoL): The Ocular Pain Assessment Survey (OPAS) Study
P. Hamrah; Y. Qazi; S. Hurwitz; J. Chodosh; R. Dana
Harvard Medical School, MEEI; Brigham and Women

1471 - C0110
In Vivo Confocal Microscopy Demonstrates Bilateral Loss of Corneal Endothelial Cells in Unilateral Herpes Simplex Keratitis
R. Pourmirzaie; R. T. Muller; S. Aggarwal; A. Jamali; B. M. Cavalcanti; D. Langston; P. Hamrah
Massachusetts Eye and Ear Infirmary, Harvard Medical School; Schepens Eye Research Institute

1561 - C0200
Surgical Complications and Visual Outcomes Following Cataract Surgery in Patients with Age-Related Macular Degeneration in the VA System
X. Chen; T. Cakiner-Egilmez; L. A. Gonzalez; A. Chomsky; E. Baze; D. Vollman; M. G. Lawrence; M. K. Daly
VA Boston Healthcare System; Boston University School of Medicine; Harvard Medical School - Massachusetts Eye and Ear Infirmary; VA Tennessee Valley Healthcare System Center; Vanderbilt University; Michael E. DeBakey VA Medical Center; Baylor College of Medicine; St Louis VA Medical Center; Washington University School of Medicine; DoD/VA Vision Center of Excellence

1571 - C0210
Association of American Society of Anesthesiology (ASA) Classification with Complications and Visual Outcomes of Cataract Surgery in the Veteran Population
D. Sola-Del Valle; L. A. Gonzalez; T. Cakiner-Egilmez; A. Chomsky; E. Baze; D. Vollman; M. G. Lawrence; M. K. Daly
VA Boston Healthcare System; Boston University School of Medicine; Massachusetts Eye and Ear Infirmary; VA Tennessee Valley Healthcare System Center; Vanderbilt University; Michael E. DeBakey VA Medical Center; Baylor College of Medicine; St Louis VA Medical Center; Washington University School of Medicine; VA Vision Center of Excellence

1573 - C0212
Association of Glaucoma and Surgical Outcomes Following Cataract Surgery in Veteran Population: Results from the Ophthalmic Surgical Outcomes Data Project
L. A. Gonzalez; T. Cakiner-Egilmez; D. Sola-Del Valle; X. Chen; A. Chomsky; E. Baze; D. Vollman; M. G. Lawrence; M. K. Daly
VA Boston Healthcare System; Boston University School of Medicine; Harvard Medical School - MEEI; VA Tennessee Valley Healthcare System Center; Vanderbilt University; Michael E. DeBakey VA Medical Center; Baylor College of Medicine; St Louis VA Medical Center; Washington University School of Medicine; VA Vision Center of Excellence

Monday, May 5, 2014

8:30 AM - 10:15 AM

1574 - C0213

Association of Age with Surgical Complications and Visual Outcomes Following Cataract Surgery: Results of the Ophthalmic Surgical Outcomes Data Project

E. E. Verter; T. Cakiner-Egilmez; L. A. Gonzalez; A. Chomsky; E. Baze; D. Vollman; M. G. Lawrence; M. K. Daly

VA Boston Healthcare System; Boston University School of Medicine; Harvard Medical School - Massachusetts Eye and Ear Infirmary; VA Tennessee Valley Healthcare System Center; Vanderbilt University Medical Center; Michael E. DeBakey VA Medical Center; Baylor College of Medicine; St Louis VA Medical Center; Washington University School of Medicine; VA Vision Center of Excellence

Monday, May 5, 2014

11:00 AM - 12:45 PM

1734 - A0103

Inhibition of inflammasome rescues photoreceptor cell death after retinal detachment.

K. Kataoka; H. Matsumoto; K. Takeuchi; J. W. Miller; D. G. Vavvas
Massachusetts Eye and Ear Infirmary

1740 - A0109

PGC-1 alpha regulates human RPE oxidative metabolism and anti-oxidant capacity

J. Iacovelli; G. C. Rowe; Z. Arany; M. Saint-Geniez

Massachusetts Eye and Ear Infirmary; Harvard Medical School; Harvard Medical School; Beth Israel Deaconess Medical Center

1741 - A0110

Tamoxifen Toxicity of the Retinal Pigment Epithelium is Mediated by RIP Kinase and the NLRP3 Inflammasome

L. A. Kim; D. Amarnani; W. A. Tseng; D. G. Vavvas; P. A. D'Amore
Massachusetts Eye and Ear Infirmary

1788 - A0225

Foveal Disorganization of Retinal Inner Layers (DRIL) Predicts Long Term Visual Acuity (VA) Outcomes in Eyes with Diabetic Macular Edema

J. Lammer; M. Cheney; M. Lin; L. B. Aiello; P. S. Silva; L. P. Aiello; J. K. Sun
Joslin Diabetes Center; Medical University Vienna; Harvard Medical School; Harvard Medical School

1823 - A0322

VEGF-C and VEGF-D Blockade by VGX-300 Inhibits Choroidal Neovascularization and Leakage in a Mouse Model of wet AMD

K. Lashkari; J. Ma; G. C. Teague; C. Guo; M. E. Baldwin
Massachusetts Eye & Ear Infirmary; Circadian Technologies Ltd

1835 - A0334

Advanced Hermetic Feedthrough and Packaging Technology for the Boston Retinal Prosthesis

D. B. Shire; W. K. Jones; A. Karbasi; S. Behan; M. Gingerich; S. Kelly; J. L. Wyatt; J. F. Rizzo

VA Healthcare System; Cornell University; Florida International University; Design Consultants; Carnegie Mellon University; Massachusetts Institute of Technology; Massachusetts Eye and Ear Infirmary

1856 - B0002

Mechanisms of Mesenchymal Stem Cell-Mediated Promotion of Regulatory T cell Function

S. Chauhan; M. Omoto

Schepens Eye Research Institute, Massachusetts Eye and Ear, Harvard Medical School

Monday, May 5, 2014

11:00 AM - 12:45 PM

1862 - B0008

Association between Statin Use and Uveitis: Results from the Pacific Ocular Inflammation Study

D. Borkar; V. Tham; J. V. Parker; A. Uchida; A. C. Vinoya; N. Acharya
University of California San Francisco; Kaiser Permanente Hawaii; Pacific Vision Institute of Hawaii; Kaiser Permanente Hawaii; University of California San Francisco

1867 - B0013

Interpretation and clinical correlation of histopathology and immunohistochemistry findings in conjunctival and scleral biopsy specimens: non-infectious and infectious

S. D. Anesi; S. Kothari; C. Foster
Massachusetts Eye Rsch & Surg Inst

1873 - B0019

AMP-activated Protein Kinase Suppresses CCR2 Expression by Inhibiting the NF- κ B Pathway in Macrophages

F. Kumase; K. Takeuchi; Y. Morizane; J. Suzuki; K. Kataoka; H. Matsumoto; J. W. Miller; D. G. Vavvas

Massachusetts Eye and Ear Infirmary; Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences; Tokyo Medical University

1884 - B0149

Iron Rescue of Deferoxamine Toxicity in human RPE cells

J. B. Miller; H. Lin; P. Bouzika; A. Atik; Y. Yan; Y. Hu; J. W. Miller; D. G. Vavvas
Harvard Department of Ophthalmology; Massachusetts Eye and Ear Infirmary

1894 - B0159

CD4+T Cell Responses Contribute To Progressive Neurodegeneration In Ischemic Neuropathy

T. Vu; H. Chen; D. Doesburg; K. Cho; M. Jager; D. F. Chen
Schepens Eye Research Institute/Massachusetts Eye and Ear Infirmary; Leiden University Medical Center; the Second Xiangya Hospital of Central South University and Institution of Ophthalmic Center

1897 - B0162

Suppression of Interferon-gamma protects retinal ischemia-induced neuron death

K. Cho; T. Vu; D. Doesburg; D. F. Chen

Schepens Eye Research Institute, Massachusetts Eye and Ear, Harvard Medical School; Leiden University Medical Center; Boston VA Healthcare System

1908 - B0173

Suppression of T cell function with anti-CD4 antibody leads to increased RGC survival after retinal ischemia-reperfusion injury

D. Doesburg; T. Vu; K. Cho; M. Jager; D. F. Chen

Leids Universitair Medisch Centrum; Schepens Eye Research Institute, Massachusetts Eye and Ear Infirmary, Harvard Medical School

1909 - B0174

Placental Growth Factor Levels Correlated with Retinal Ischemia Progression

K. V. Marra; K. Kovacs; S. Wagley; S. Akella; G. C. Teague; W. Johnson; K. Lashkari; J. G. Arroyo

Beth Israel Deaconess Medical Center; Albert Einstein College of Medicine; Michigan State University; Schepens Eye Research Institute, Massachusetts Eye & Ear; Suffolk University

1919 - B0184

Development of Biomarker Equations based on Multi-Dimensional Modeling of Cytokine Shifts in Retinal Diseases

G. C. Teague; N. Nandakumar; J. Ma; K. V. Marra; J. G. Arroyo; M. E. Baldwin; W. Johnson; K. Lashkari

Massachusetts Eye & Ear Infirmary; Beth Israel Deaconess Medical Center; Circadian Technologies Ltd; Suffolk University

Monday, May 5, 2014

11:00 AM - 12:45 PM

1966 - B0231

Verteporfin Without Photodynamic Therapy: Effect of the Photosensitizer on Ocular Cell Lines

P. Bouzika; H. Lin; Y. Yan; Y. Hu; A. Atik; J. W. Miller; E. S. Gragoudas; D. G. Vavvas
Massachusetts Eye & Ear Infirmary

1977 - B0276

The Computer-Assisted Corneal Fluorescein Index (CCFI): An Automated Index for Quantifying Corneal Epitheliopathy

F. Amparo; H. Wang; R. Dana
Massachusetts Eye & Ear Infirmary; Schepens Eye Research Institute

1984 - B0283

Age-associated Differences in Severity of Ocular Signs in Dry Eye Disease Patients

R. Badian; S. Ræder; T. P. Utheim; Ø. A. Utheim; X. Chen; A. Stojanovic; D. Dartt; J. Eidet
Sykehuset Innlandet HF, Elverum; The Norwegian Dry Eye Clinic; SynsLaser kirurgi; Oslo University Hospital; Massachusetts Eye and Ear, Harvard Medical School

1995 - B0294

Dry Eye Disease Patients with Xerostomia Report Higher Symptomatic Burden

I. G. Fostad; J. Eidet; S. Ræder; N. S. Lagali; E. B. Messelt; J. L. Jensen; H. K. Galtung; D. Dartt; T. P. Utheim
University of Oslo; Norwegian Dry Eye Clinic; Oslo University Hospital; Linköping University; University of Oslo; Massachusetts Eye and Ear/Harvard Medical School

2048 - C0067

Human Corneal Endothelial Development on 3D Constructs

X. Q. Guo; A. E. Hutcheon; J. D. Zieske
Schepens Eye Research Institute/MEE

2056 - C0075

Stem cell characteristics in distinct subpopulation of human corneal endothelial cells

K. Katikireddy; T. Schmedt; Y. Chen; U. Jurkunas
Schepens Eye Research Institute, Massachusetts Eye and Ear; AbbVie Deutschland GmbH & Co. KG

2060 - C0079

UVA Irradiation Activates Nrf2 Antioxidant Defense in Human Corneal Endothelial Cells

C. Liu; Y. Chen; I. E. Kochevar; U. Jurkunas
Harvard Medical School; Wellman Center for Photomedicine, Massachusetts General Hospital, Harvard Medical School

2077 - C0096

Neurogenic Homeostasis of Corneal Endothelial Cells: Peripheral Innervation Maintains Endothelial Cell Survival Through Vasoactive Intestinal Peptide

T. Yamaguchi; A. Ziaei; B. M. Cavalcanti; D. L. Harris; U. von Andrian; U. Jurkunas; P. Hamrah
Massachusetts Eye & Ear Infirmary; Schepens Eye Research Institute; Program in Cellular and Molecular Medicine at Children's Hospital Boston, Harvard Medical School

Monday, May 5, 2014

3:45 PM - 5:30 PM

2256 - A0160

Role of Akt in VEGF-, bradykinin-, and diabetes-induced retinal dysfunction and edema

W. Fickweiler; A. C. Clermont; N. Murugesan; E. P. Feener
Joslin Diabetes Center; Harvard Medical School

Monday, May 5, 2014

3:45 PM - 5:30 PM

2278 - A0230

Lesions Predominantly Peripheral to ETDRS Fields on Ultrawide Field Images (UWFI) Predict Markedly Increased Risk of Diabetic Retinopathy (DR) Progression

P. S. Silva; J. Cavallerano; N. M. Haddad; D. Tolls; H. Kwak; L. M. Aiello; J. K. Sun; L. P. Aiello
Joslin Diabetes Center; Harvard Medical School

2279 - A0231

Nondiabetic Retinal Findings Using Ultrawide Field Imaging in a Diabetes Ocular Telehealth Program

N. N. Haddad; P. S. Silva; J. Cavallerano; D. Tolls; A. Tolson; J. K. Sun; L. M. Aiello; L. P. Aiello
Joslin Diabetes Center; Harvard Medical School

2289 - A0241

Pediatric Teleophthalmology Diabetes Eye Care Program in Caracas, Venezuela: Joslin Vision Network 7 Year Experience

E. K. Deschler; K. Hock; P. S. Silva; J. Cavallerano; J. K. Sun; M. M. Grossmann; A. Millan; L. M. Aiello; L. P. Aiello
Joslin Diabetes Center; Harvard Medical School; MMG Fundación

2326 - A0374

Microbiologic Analysis in 23-ga office-based sutureless pars plana vitrectomy

C. Qian; F. Rezende; P. Sapielha
Massachusetts Eye and Ear Infirmary; University of Montreal

2337 - A0385

FocalSeal® for Closure of Sutureless Sclerotomies of Vitrectomy: An In Vivo and Histological Study

S. Ishida; F. Okamoto; S. Hoshi; S. Fukuda; Y. Sugiura; M. Arai; T. Hirose; T. Oshika
Institute of Medicine, University of Tsukuba; Arai Eye Clinic; The Schepens Eye Research Institute, Harvard Medical School

2445 - B0144

PR1P, a novel Prominin-1 derived peptide, enhances axonal regeneration in vivo.

Z. Chi; A. E. Birsnier; A. Idini; R. J. D'Amato
Boston Children Hospital; Harvard Medical School

2510 - C0030

Autoimmune retinopathy in patients with birdshot retinochoroidopathy (BSRC) who are in remission

H. A. Hossain; C. Foster
Massachusetts Eye Research and Surgery Institution

2514 - C0034

Assessment of Inflammatory Cytokines in Aqueous Humour of Patients with Sarcoidosis

K. Lee; A. R. Payal; J. Metzinger; R. Rasheed; N. Kombo; P. Patel; H. A. Hossain; C. Foster
Massachusetts Eye Research and Surgery Institution; HanGil Eye Hospital; University of Pennsylvania; Harvard Medical School

2515 - C0035

Long-Term Drug-Free Remission and Visual Outcomes in Sympathetic Ophthalmia

A. R. Payal; C. Foster
University of Pennsylvania; Massachusetts Eye Research and Surgery Institution; Harvard Medical School

Monday, May 5, 2014

3:45 PM - 5:30 PM

2520 - C0040

**Combination of Rituximab and Intravenous Immunoglobulin for Recalcitrant
Ocular Cicatricial Pemphigoid**

A. Bajwa; P. Patel; J. Z. Baffi; N. C. Kombo; H. A. Hossain; K. Lee; C. Foster
Massachusetts Eye Research and Surgery Institution

ARVO Annual Meeting Poster Sessions
Tuesday, May 6, 2014
Exhibit/Poster Hall SA

Session Date
Session Time

Poster ID – Poster #
Abstract Title
Authors
Affiliations

Tuesday, May 6, 2014
8:30 AM - 10:15 AM

2725 - A0107

Accuracy of the Spot Pediatric Vision Screener for Detection of Hyperopia, Astigmatism and Anisometropia

H. Gaiser; B. D. Moore; N. Solaka; D. M. Ledoux; J. Sandoval; A. R. Shah; C. Rook; R. He
New England College of Optometry; Children's Hospital

2742 - A0124

Direction discrimination of global motion low contrast patterns in school aged children

L. Bogfjellmo; P. J. Bex; H. Falkenberg
Buskerud and Vestfold University College; Buskerud and Vestfold university college; Harvard Medical School

2759 - A0141

Human goblet cell function in an in vitro allergic microenvironment

L. Garcia-Posadas; D. Li; R. R. Hodges; M. A. Shatos; Y. Diebold; D. Dartt
IOBA-University of Valladolid; Harvard Medical School; Harvard Medical School

2760 - A0142

Conjunctival Goblet Cells Produce MUC16

I. K. Gipson; S. Spurr-Michaud; A. Tisdale; C. Marko
Schepens Eye Research Inst/MEEI

2768 - A0150

Lipoxin A4 Inhibits Histamine-stimulated Increase in [Ca²⁺], ERK Activation, and Mucin Secretion in Cultured Rat Conjunctival Goblet Cells

R. R. Hodges; D. Li; J. A. Bair; M. A. Shatos; N. Chiang; C. N. Serhan; D. Dartt
Schepens Eye Research Institute; Harvard Medical School; Brigham and Womens Hospital; Harvard Medical School

2798 - A0383

Functional visual improvement after cataract surgery in eyes with age-related macular degeneration; Results of the Ophthalmic Surgical Outcomes Data (OSOD) Project

M. Stock; D. Vollman; E. Baze; A. Chomsky; M. K. Daly; M. G. Lawrence
Washington University School of Medicine; St Louis VA Medical Center; Michael E. DeBakey VA Medical Center; Baylor College of Medicine; VA Tennessee Valley Healthcare System Center; Vanderbilt University Medical School; VA Boston Healthcare System; Harvard University Medical School; Minnesota VA Medical Center; University of Minnesota Medical School

2825 - B0058

Trends of Methicillin- Resistant Staphylococcus Aureus (MRSA) Keratitis in Western Pennsylvania: A 14- year study

V. Chang; R. P. Kowalski
UPMC

Tuesday, May 6, 2014
8:30 AM - 10:15 AM

2838 - B0071

Experience with valganciclovir in the treatment of presumed Epstein – Barr Virus (EBV)-associated uveitis

N. Kombo; C. Foster
Massachusetts Eye Research and Surgery Institution

2846 - B0079

In Vivo Confocal Microscopy Reveals Differential Corneal Immune Response in Patients with Central vs. Peripheral HSV Keratitis

R. T. Muller; R. Pourmirzaie; S. Aggarwal; B. M. Cavalcanti; A. Jamali; D. Langston; P. Hamrah
Massachusetts Eye and Ear Infirmary; Schepens Eye Research Institute

2870 - B0103

The role of CodY in S. aureus endophthalmitis

A. Sadaka; T. Suzuki; K. Palmer; M. Gilmore
University of Cincinnati; Massachusetts Eye and Ear Infirmary; Ehime University; University of Texas

2882 - B0115

Ex-press shunt implantation in Uveitic Glaucoma

S. Dhanireddy; N. C. Kombo; C. Foster
Massachusetts Eye Research and Surgery Institution

2963 - D0014

Mouse Prpf3, 8 and 31 mutants show altered rhythms of retinal phagocytosis and adhesion

D. Lew; M. H. Farkas; K. M. Bujakowska; J. Chatagnon; S. S. Bhattacharya; E. Pierce; E. F. Nandrot
INSERM, U968, UPMC Univ Paris 06, UMR_S 968; CNRS, UMR_7210, Institut de la Vision; Ocular Genomics Institute, Massachusetts Eye and Ear Infirmary, Harvard Medical School; Institute of Ophthalmology, University College London; Andalusian Center of Molecular Biology and Regenerative Medicine

2972 - D0023

Isoform Switch of RPGR During Photoreceptor Development

X. Sun; O. V. Bulgakov; M. Adamian; Z. Wu; T. Li
National Eye Institute; Harvard Medical School

Tuesday, May 6, 2014
11:00 AM - 12:45 PM

3084 - A0017

Primary and Salvage Proton Radiotherapy for Intraocular Retinoblastoma: 1990 – 2013

Y. Yonekawa; S. M. MacDonald; J. E. Munzenrider; S. Mukai
Massachusetts Eye and Ear Infirmary; Massachusetts General Hospital

3095 - A0028

Utility of wide-field autofluorescence imaging in screening for new retinal capillary hemangiomas associated with von Hippel Lindau disease.

I. Leskov; S. Mukai
Massachusetts Eye and Ear Infirmary

Tuesday, May 6, 2014
11:00 AM - 12:45 PM

3114 - A0284

Large chalazia affecting multiple eyelids associated with bortezomib

S. Grob; F. Jakobiec; A. Rashid; M. K. Yoon
Massachusetts Eye and Ear Infirmary; Massachusetts Eye and Ear Infirmary;
Harvard Medical School

3147 - A0317

A NOVEL MURINE MODEL FOR KERATOPROSTHESIS RESEARCH

A. Crnej; M. Omoto; T. H. Dohlman; C. H. Dohlman; R. Dana
Massachusetts Eye and Ear Infirmary; Schepens Eye Research Institute

3215 - B0122

Corneal plasmaytoid dendritic cells subpopulations demonstrate differential expression of the functional Siglec-H receptor that are altered after corneal inflammation

A. Jamali; M. J. Lopez; D. L. Harris; P. Hamrah
Schepens Eye Research Institute/Massachusetts Eye and Ear Infirmary, Harvard Medical School; Cornea & Refractive Surgery Service, Massachusetts Eye & Ear Infirmary, Department of Ophthalmology, Harvard Medical School,

3216 - B0123

Elevated IL-6 and IL-23 in Dry Eye Hosts Disrupt Peripheral Induction of Tregs and Exacerbate Corneal Allograft Rejection

J. Hua; W. Stevenson; T. Inomata; Y. Chen; T. H. Dohlman; H. Lee; T. Shiang; M. Omoto; R. Dana
Schepens Eye Research Inst

3217 - B0124

In Vivo Expansion of Regulatory T Cells Reduces Corneal Inflammation in High Risk Corneal Transplantation

M. Tahvildari; M. Omoto; Y. Chen; S. K. Chauhan; R. Dana
Schepens Eye Research Institute/Mass. Eye and Ear

3218 - B0125

Enhanced allosensitization following corneal allograft transplantation in dry eye disease recipients

A. Di zazzo; J. Hua; W. Stevenson; T. Inomata; T. Shiang; T. H. Dohlman; S. Lee; M. Omoto; Q. Zhang; R. Dana
Harvard Medical School

3219 - B0126

Effect of the Topical Selective Glucocorticoid Receptor Agonist, Mipracorat, in Experimental Dry Eye Disease

S. Eigelmeier; Z. Sadrai; Y. Chen; S. K. Chauhan; R. Dana
Schepens Eye Research Institute; Massachusetts Eye and Ear Infirmary

3220 - B0127

Expression of P- and E-Selectin in Corneal Transplantation

T. H. Dohlman; S. K. Chauhan; M. Omoto; J. Hua; Z. Sadrai; P. Hamrah; R. Dana
Harvard Medical School

3221 - B0128

Impaired Peripheral Induction of Regulatory T Cells in High-Risk Corneal Transplantation

T. Inomata; J. Hua; M. Omoto; Q. Zhang; R. Dana
Schepens Eye Research Institute/ Massachusetts Eye and Ear Infirmary/ Harvard Medical School

3223 - B0130

A Novel Mouse Model for Radiation Keratopathy

D. L. Harris; T. Yamaguchi; U. von Andrian; P. Hamrah
Schepens Eye Research Inst; Massachusetts Eye and Ear Infirmary; Immune Disease Institute/Children

Tuesday, May 6, 2014
11:00 AM - 12:45 PM

3264 - B0204

Molecular characterization of SNRNP200 mutations causing autosomal dominant retinitis pigmentosa with incomplete penetrance and phenotypic variability

C. Rivolta; P. Benaglio; T. Guillaumie; G. Manes; S. Harper; E. L. Berson; I. Meunier; C. P. Hamel
University of Lausanne; Université et Hôpital de Montpellier; Inserm; Harvard Medical School

3265 - B0205

Genotype and phenotype studies in autosomal dominant retinitis pigmentosa (adRP) of the French Canadian founder population.

R. Coussa; C. Chakarova; R. Ajlan; C. Kavalec ; A. Khan; I. Lopez; H. Ren; N. Waseem; S. S. Bhattacharya; R. K. Koenekoop
McGill University; Montreal Children's Hospital, McGill University Health Centre; University College London; CSIC – CABIMER

3286 - B0226

An Expanded NMNAT1 Allele Containing a Partial Gene Duplication is Associated with Leber Congenital Amaurosis

S. H. Greenwald; K. M. Bujakowska; E. Place; E. Pierce
Massachusetts Eye and Ear Infirmary, Harvard Medical School

3312 - B0252

AAV-mediated antisense oligonucleotide-based therapy for CEP290-associated LCA

A. Garanto; L. Duijkers; R. Xiao; L. H. Vandenberghe; R. W. Collin
Radboud university medical centre; Schepens Eye Research Institute, Massachusetts Eye and Ear Infirmary, Harvard Medical School

3379 - C0072

Optical Coherence Tomography of the Central Retina in Pediatric Patients with Usher Syndrome

V. Mucaj; E. A. Swanson; J. Tavormina; R. M. Hansen; A. Moskowitz; J. D. Akula; A. Fulton
Boston Children; Harvard Medical School

3381 - C0074

Quantification of the Structure of the Perifoveal Retina in Retinopathy of Prematurity

E. A. Swanson; J. Tavormina; T. L. Favazza; A. Moskowitz; R. M. Hansen; J. D. Akula; A. Fulton
Boston Children's Hospital; Harvard Medical School

3505 - D0105

Retinal Remodeling in Retinopathy of Prematurity

J. D. Akula; A. Mocofanescu; R. D. Ferguson; M. Mujat; J. Tavormina; T. L. Favazza; E. A. Swanson; A. Moskowitz; R. M. Hansen; A. Fulton
Boston Children's Hospital; Harvard Medical School; Physical Sciences, Inc.

Tuesday, May 6, 2014
3:45 PM - 5:30 PM

3648 - A0162

Effects of Corneal Nerve Density on the Response to Treatment in Dry Eye Disease

A. Kheirkhah; T. H. Dohlman; F. Amparo; M. A. Arnoldner; Y. Qazi; A. Jamali; P. Hamrah; R. Dana
Massachusetts Eye and Ear Infirmary

3661 - A0175

CCR7 is critical in the induction and maintenance of Th17 immunity in dry eye disease

S. Kodati; Y. Chen; T. H. Dohlman; S. K. Chauhan; D. R. Saban; R. Dana
Harvard Medical School; UPMC Eye Center; Duke University

Tuesday, May 6, 2014

3:45 PM - 5:30 PM

3664 - A0178

Increased Substance P Expression in the Ocular Surface in Murine Dry Eye Disease

S. Lee; Z. Sadrai; H. Lee; W. Stevenson; Y. Chen; J. Hua; K. Katikireddy; T. H. Dohlman; S. K. Chauhan; R. Dana
Schepens Eye Research Institute, Massachusetts Eye and Ear Infirmary, Harvard Medical School; Hallym University Sacred Heart Hospital; The Catholic University of Korea School of Medicine

3686 - A0200

Topical Interleukin-1 (IL-1) Receptor Inhibition Reduces Ocular Pain

E. S. Furfine; R. Dana; C. Wheeler; A. Celniker; M. H. Goldstein
Eleven Biotherapeutics; Massachusetts Eye and Ear Infirmary

3716 - A0230

High-resolution biomechanical characterization of keratoconus cornea ex vivo with Brillouin microscopy.

G. Scarcelli; S. Besner; R. Pineda; S. H. Yun
Harvard Medical School; Massachusetts Eye and Ear Infirmary

3718 - A0232

Characterization of cornea biomechanics by Brillouin microscopy: Instrument and initial in vivo data

S. Besner; G. Scarcelli; R. Pineda; S. H. Yun
Harvard Medical School; Massachusetts General Hospital; Massachusetts Eye and Ear Infirmary

3734 - A0248

Sterile Vitritis after Boston Keratoprosthesis

C. M. Grassi; A. Crnej; K. Colby; C. H. Dohlman; J. Chodosh
Massachusetts Eye and Ear Infirmary, Harvard Medical School

3735 - A0249

Tumor Necrosis Factor Alpha and Leptin Levels in Boston Keratoprosthesis Patients: Preliminary Data

E. I. Paschalis; E. Taniguchi; A. Crnej; K. Colby; L. R. Pasquale; J. Chodosh; C. H. Dohlman; L. Q. Shen
Massachusetts Eye and Ear Infirmary - Harvard Medical School; Massachusetts Eye and Ear Infirmary - Harvard Medical School

3792 - B0160

Identification of disease-associated genome variants in regulatory regions using exome sequencing in 295 POAG cases

T. Gaasterland; D. E. Gaasterland; L. E. Edsall; A. N. Dubinsky; K. Ding; S. Head; K. H. Willert; C. The NEIGHBOR
Univ of California San Diego; Univ of California San Diego; Univ of California San Diego; Duke University; Univ of California San Diego; The Scripps Research Institute; Harvard; Duke University

3794 - B0162

Linkage and association analyses identify a vCDR locus on chromosome 14q32 in consanguineous pedigrees from South India

R. Wang; B. Fan; P. Ferdina Marie Sharmila; N. Soumitra; S. Sripriya; D. Friedman; L. Vijaya; J. L. Haines; R. J. George; J. L. Wiggs
Massachusetts Eye and Ear Infirmary; Vision Research Foundation; Wilmer Eye Institute; Sankara Nethralaya; Vanderbilt University School of Medicine

3799 - B0167

The retinal nerve fiber layer is reduced in POAG cases homozygous for the common Six6 risk-allele of rs33912345 (Asn141His)

S. J. Havens; J. C. Wen; M. Ulmer Carnes; J. L. Wiggs; L. R. Pasquale; A. E. Ashley-Koch; M. A. Hauser; R. R. Allingham
Duke University Medical Center; Duke University; Harvard - Massachusetts Eye and Ear Infirmary

Tuesday, May 6, 2014

3:45 PM - 5:30 PM

3806 - B0174

CYP1B1 mutation carrier frequency in a normal population residing in the United States

K. Allen; A. Langguth; K. Linkroum; M. Janessian; D. Wang; E. Delbono; J. L. Wiggs
Massachusetts Eye and Ear Infirmary; University of Iowa Carver College of Medicine

3814 - B0182

Copy Number Variants associated with Glaucoma in the NEIGHBOR Study

A. E. Ashley-Koch; M. E. Garrett; J. L. Haines; J. L. Wiggs; L. R. Pasquale; Y. Liu; R. R. Allingham; M. A. Hauser
Duke University Medical Center; Case Western Reserve University; Harvard University; Duke University Medical Center

3819 - B0187

Caveolin-Soluble Guanylate Cyclase Single Nucleotide Polymorphism Score in Relation to Primary Open Angle Glaucoma in the NEIGHBORHOOD Consortium

C. Qiao; S. Loomis; J. H. Kang; M. A. Hauser; R. R. Allingham; N. Wang; J. L. Haines; J. L. Wiggs; L. R. Pasquale
Massachusetts Eye and Ear Infirmary; Beijing Tongren Eye Center, Beijing Tongren Hospital, Capital Medical University; Brigham and Women Hospital; Duke University; Case Western Reserve University

ARVO Annual Meeting Poster Sessions
Wednesday, May 7, 2014
Exhibit/Poster Hall SA

Session Date

Session Time

Poster ID – Poster #

Abstract Title

Authors

Affiliations

Wednesday, May 7, 2014

8:30 AM - 10:15 AM

4084 - A0058

Outcomes of Invasive Fungal Disease

D. Trief; S. T. Gray; N. Chhabra; M. K. Yoon

Massachusetts Eye and Ear Infirmary; Harvard Medical School; Massachusetts Eye and Ear Infirmary; Harvard Medical School; OSF Medical Center

4122 - A0110

The Relationship Between Athletic Participation and Magnocellular Function

B. Modjtahedi; C. Kundavaram; S. Khaderi

Massachusetts Eye and Ear Infirmary ; University of California, Davis. School of Medicine; University of Arizona School of Medicine

4128 - A0116

Multiplexing Prism: A novel optical element for visual field expansion

E. Peli

Schepens Eye Research Institute; MEE, Harvard Medical School

4129 - A0117

Multiplexing prism glasses for field expansion in bitemporal hemianopia

J. Jung; E. Peli

Schepens Eye Research Institute, Massachusetts Eye and Ear, Department of Ophthalmology, Harvard Medical School

4130 - A0118

Biased Collision Judgments by People with Left but not Right Hemianopia

K. E. Houston; R. Liu; S. Sheldon; E. Peli; R. B. Goldstein; G. Luo; R. L. Woods; A. R. Bowers

Harvard Medical School, Massachusetts Eye and Ear Infirmary; Schepens Eye Research Institute; Shanghai Eye and ENT Hospital of Fudan University

4131 - A0119

Compensatory gaze scanning by patients with hemianopia during outdoor walking

M. Tomasi; A. R. Bowers; E. Peli; G. Luo

Schepens Eye Research Institute

4149 - A0137

Image stabilization in smart phone magnification apps helps read distant text

G. Luo; S. Pundlik

Schepens Eye Research Inst

4285 - B0053

Relation between time spent outdoors and exfoliation glaucoma or exfoliation glaucoma suspect

J. H. Kang; J. L. Wiggs; L. R. Pasquale

Brigham and Women; Massachusetts Eye and Ear

4290 - B0058

Competing risk analysis reveals unique determinants for primary open angle glaucoma subtypes defined by pattern of visual field loss

L. R. Pasquale; S. Loomis; J. L. Wiggs; B. Rosner; J. H. Kang

Mass Eye & Ear Infirmary; Brigham and Women's Hospital

Wednesday, May 7, 2014

8:30 AM - 10:15 AM

4306 - B0074

Residential History and Solar Exposure in Relation to Exfoliation Syndrome in the United States and Israel

A. Jiwan; T. Zehavi-Dorin; A. Majd; S. Loomis; J. H. Kang; J. L. Wiggs; H.

Levkovitch-Verbin; L. R. Pasquale

Massachusetts Eye and Ear Infirmary; Goldschleger Eye Institute, The Chaim Sheba Medical Center, Tel Aviv University; Brigham and Women's Hospital

4388 - C0171

Deficiency of tetratricopeptide repeat domain 21B (Ttc21B) leads to early onset of photoreceptor cell death

M. M. Stanisewska; D. Taub; E. Pierce; Q. Liu

MEEI/Harvard Medical School

4418 - C0274

Foveal Disorganization of Retinal Inner Layers (DRIL) is Highly Associated with Worse Vision in Eyes with Diabetic Macular Edema

H. Shikari; J. Lammer; M. Cheney; L. B. Aiello; P. S. Silva; L. P. Aiello; J. K. Sun

Beetham Eye Institute; Harvard Medical School; Medical University Vienna

4448 - D0108

Modeling the Developmental Growth of the Eye in Subjects Born at Term and Subjects with Retinopathy of Prematurity (ROP)

R. J. Munro; J. D. Akula; T. Y. Chui; R. M. Hansen; T. L. Favazza; A. Moskowitz; S.

P. Prabhu; A. Fulton

Boston Children's Hospital; Boston Children's Hospital; Harvard Medical School; Indiana University

4495 - D0155

Increased incidence of sympathetic ophthalmia observed in a pediatric open-globe-injury population

A. Gilbert; G. Heidary; M. Andreoli; C. M. Andreoli; A. Shah

Harvard Medical School and Massachusetts Eye & Ear Infirmary; Boston

Children's Hospital; Illinois Eye and Ear Infirmary; Harvard Vanguard Medical

Associates

Wednesday, May 7, 2014

11:00 AM - 12:45 PM

4685 - A0310

Tear Matrix Metalloproteinases and Myeloperoxidase Levels Following Boston Keratoprosthesis Type I surgery.

M. Robert; S. N. Arafat; S. Spurr-Michaud; J. Chodosh; C. H. Dohlman; I. K.

Gipson

Massachusetts Eye and Ear Infirmary; Schepens Eye Research Institute

4745 - B0106

Three-dimensional Neuroretinal Rim Analysis of the Optic Nerve Head with Spectral / Fourier domain OCT

V. Srinivasan; E. Tsikata; H. Simavli; C. Que; S. Pandit; R. DeLuna; R.

Seevaratnam; D. Sobehi; J. F. de Boer; T. C. Chen

UC Davis; Massachusetts General Hospital; Massachusetts Eye and Ear

Infirmary; Vrije Universiteit

Wednesday, May 7, 2014

11:00 AM - 12:45 PM

4751 - B0112

Naifold hemorrhages and dilated capillaries separate POAG from NTG

P. A. Knepper; G. Hill; A. S. Hawkins; C. Wanderling; P. V. Kuprys; S. Forte; C. Velagapudi; J. R. Samples; M. C. Giovingo; N. J. Volpe
University of Illinois at Chicago; Northwestern University Medical School; John H. Stroger, Jr. Hospital of Cook County; Geneva Eye Clinic; Rush Medical College of Rush University; Rocky Vista University; Massachusetts Eye and Ear Infirmary

4769 - B0130

Comparison of Nonmydriatic Ultrawide Field Imaging and Mydriatic 30-Degree Stereo Optic Disc Photography for Optic Nerve Evaluation

B. J. Song; L. R. Pasquale; J. Cavallerano; P. S. Silva; L. P. Aiello
Massachusetts Eye and Ear Infirmary; Harvard Medical School; Beetham Eye Institute, Joslin Diabetes Center

4813 - B0189

Mosaicing and Multi-Field Layer Segmentation of 3D Retinal OCT

H. Bogunovic; M. D. Abramoff; X. Wu; P. S. Kemp; M. K. Garvin; W. L. Alward; J. H. Fingert; Y. H. Kwon; M. Sonka
The University of Iowa; The University of Iowa; Iowa City VA Health Care System

4866 - B0242

Telemedicine for Corneal Disease in Rural Nepal

C. E. Peeler; K. Dhakhwa; S. I. Mian; T. Blachley; S. Patel; D. C. Musch; M. A. Woodward
University of Michigan; Lumbini Eye Institute; University of Michigan

4908 - C0223

The AMPK agonist AICAR suppresses VEGF stimulated tube formation, transcytosis, endocytosis, Caveolin-1 phosphorylation and Prdx1/c-abl dissociation.

K. Takeuchi; Y. Morizane; C. J. Kamami-Levy; F. Kumase; J. Suzuki; M. Kayama; W. Cai; J. W. Miller; D. G. Vavvas
Hirosaki University School of Medicine; Okayama University Graduate School of Medicine; Massachusetts Eye and Ear Infirmary

4921 - C0236

Notch signaling functions in retinal pericytes survival

V. A. Primo; J. F. Arboleda-Velasquez; A. M. James; M. J. Graham; J. Manent; P. A. D'Amore
Schepens Eye Research Institute, Mass Eye and Ear Infirmary and Department of Ophthalmology, Harvard Medical School; Harvard Medical School; Peter MacCallum Cancer Centre; University of Exeter Medical School

4937 - D0047

Long term anti-VEGF therapy for neovascular age-related macular degeneration: prognostic factors, treatment benefit and outcome

M. Roh; M. Braschler; T. Braschler; D. G. Vavvas; J. W. Miller; I. K. Kim
Massachusetts Eye and Ear Infirmary; Harvard University

4993 - D0180

Transcriptome analyses reveal minimal aberrant splicing in mouse models of RNA splicing factor retinitis pigmentosa

M. Farkas; E. D. Au; M. E. Sousa; E. Pierce
MEEI

4999 - D0186

Epigenetic repression of photoreceptor genes expression by Ezh2 is required for postnatal homeostasis

N. Yan; L. Cheng; H. Yu; K. Cho; D. Chen
State Key Laboratory of Biotherapy, West China Hospital, Sichuan University; Schepens Eye Research Institute, Harvard Medical School; Institute of Clinical Pharmacology, Central South University

Wednesday, May 7, 2014

3:45 PM - 5:30 PM

5110 - A0090

Visual Outcomes of Pediatric Patients with Craniopharyngioma

Y. Guo; G. Heidary
Boston Medical Center, Boston School of Medicine; Boston Children's Hospital

5215 - B0264

Association of Age-related Macular Degeneration (AMD) Susceptible Genes with Second Eye Involvement of AMD

M. Miyake; K. Yamashiro; K. Kumagai; H. Tamura; M. Yoshikawa; I. Nakata; H. Nakanishi; N. Gotoh; A. Tsujikawa; N. Yoshimura
Kyoto Univ Grad Sch of Medicine

5217 - B0266

Patient-specific modeling of retinal oxygen as a predictor of AMD progression

K. McHugh; L. Kwarq; S. Farsiu; L. A. Kim; M. Saint-Geniez
Schepens Eye Research Institute/Massachusetts Eye and Ear Infirmary; Boston University; Harvard Medical School; Duke University

5218 - B0267

Effect of Aspirin on Polyethylene Glycol (PEG) induced Mouse Model of Dry Age Related Macular Degeneration and Human ARPE-19 cells in vitro

S. Goyal; V. V. Lyzogubov; O. Ali; P. S. Bora; N. S. Bora; S. H. Uwaydat

5319 - C0137

Ocular complications in juvenile idiopathic arthritis associated uveitis patients on TNF inhibitor therapy

A. Lobo; S. Faez; M. Lo; G. N. Papaliodis; D. M. Ledoux
Harvard Medical School, Massachusetts Eye and Ear Infirmary; Children's Hospital; Children's Hospital

5333 - C0180

Diabetic Retinopathy Assessment Among Readers with Various Backgrounds in an Urban Teleretinal Imaging Program

Y. Liu; S. Loomis; R. Parikh; C. Kloek; L. A. Kim; D. Hitchmoth; B. J. Song; L. R. Pasquale
Harvard Medical School; University of Wisconsin-Madison; White River Junction VA Hospital

5372 - D0004

The Alternative Complement Pathway Facilitates Neovessel Regression

H. Sweigard; R. Yanai; P. Gaissert; M. Saint-Geniez; K. Kataoka; A. Thanos; K. M. Connor
MEEI/Harvard Medical School; Schepens eye research institute Massachusetts Eye and Ear Infirmary/MEEI

5382 - D0014

Twist1 Regulates Pathologic Neovascularization in Retinopathy

J. Li; C. Liu; Z. Fu; L. P. Evans; C. G. Hurst; H. H. Bogardus; Z. Cui; K. T. Tian; A. Mammoto; J. Chen
Boston Children's Hospital/ Harvard Medical School; West China Hospital/ West China School of Medicine, Sichuan University; Boston Children's Hospital/ Harvard Medical School

5397 - D0029

VLDLR deficiency suppresses anti-angiogenic Sema3F in mouse retinas

Y. Sun; A. Stahl; L. P. Evans; K. T. Tian; Z. Cui; C. G. Hurst; H. H. Bogardus; M. Ju; J. Chen; L. Smith
Boston Children's Hosp/Harvard Med Sch; University Eye Hospital Freiburg

ARVO Annual Meeting Poster Sessions
Thursday, May 8, 2014
Exhibit/Poster Hall SA

Session Date

Session Time

Poster ID – Poster #

Abstract Title

Authors

Affiliations

Thursday, May 8, 2014

8:30 AM - 10:15 AM

5439 - A0013

A new conjunctival melanoma model of primary and metastatic tumor growth

J. Cao; N. de Waard; A. A. Mulder; B. R. Ksander; M. Jager
Leiden University Medical Center; Schepens Eye Research Institute / Mass Eye & Ear, Harvard,

5449 - A0023

Evaluation of conjunctival scarring in graft-versus-host disease

S. Basti; R. Ram; D. Borkar
Northwestern University, Feinberg School of Medicine

5456 - A0030

Incidence of Stevens-Johnson Syndrome and Chemical Burns to the Eye. Relevance for Keratoprosthesis Surgery

M. White; J. Chodosh; C. H. Dohlman
Massachusetts Eye and Ear Infirmary; Harvard Medical School

5477 - A0051

Management of Canalicular Lacerations: Epidemiological Aspects and Experience

A. Campbell; D. K. De Castro; N. G. Lee; S. K. Freitag; D. R. Lefebvre
Massachusetts Eye and Ear Infirmary; Harvard Medical School

5493 - A0067

CD147 is Required for Meibomian Gland Development and Differentiation

J. mauris; J. Dieckow; E. E. Gabison; R. A. Nowak; P. Argueso
schepens Eye Rsrch Inst, MEEI, HMS; Hôpital Bichat, APHP, Université Paris VII Diderot; University of Illinois

5592 - A0201

Accuracy of the International Classification of Diseases, 9th Revision (ICD-9) as a research tool for the identification of patients with polymyalgia rheumatica and concurrent noninfectious uveitis

E. Uchiyama; S. Faez; H. Nasir ; S. H. Unizony; G. N. Papaliodis; L. Sobrin
Massachusetts Eye and Ear Infirmary; Massachusetts General Hospital

5606 - A0245

A Novel Way to Assess Visual Performance in Elite Athletes

D. Kirschen; D. M. Laby; D. Meadows
Southern California College of Optometry; Harvard Medical School; University of Florida

5607 - A0246

A Robust Method for Assessing Visual Performance Ability in Amateur Baseball Players

D. Meadows; D. Kirschen; D. M. Laby
University of Florida; Southern California College of Optometry; Harvard Medical School

Thursday, May 8, 2014

8:30 AM - 10:15 AM

5739 - B0047

Neuroprotective Effects of IGF-1 on Retinal Ganglion Cell Survival

J. Ma; C. Guo; C. Guo; T. Liao; U. Beattie; G. Teague; D. Chen; K. Lashkari
Schepens Eye Research Inst

5744 - B0052

Amitriptyline induces glial-cell line derived neurotrophic factor in retinal cells in vivo and in vitro

P. Y. Baranov; T. Sukhanova; O. Yerov; H. Lin; C. James; D. Morrow; S. Wang; P. Lei; J. McNeish; M. J. Young
Schepens Eye Research Institute; GlaxoSmithKline; GlaxoSmithKline

5773 - B0109

Distribution of OPA1-AS1 genetic variants in patients with optic atrophy

I. Nakata; E. D. Gaier; M. Janessian; E. Delbono; L. R. Pasquale; S. Lessell; D. M. Cestari; J. F. Rizzo; J. L. Wiggs
Massachusetts Eye & Ear Infirmary

5809 - B0234

Reactive and infiltrative papillitis in uveitis: response to treatment and use of optic nerve optical coherence tomography for monitoring

L. Sobrin; L. Nicholson; P. Pillai; H. Cho
Harvard Med Mass Eye & Ear Infirmary; Hanyang University College of Medicine

5821 - C0007

Angiofibrotic Response to Bevacizumab on Fibrovascular Membranes in Proliferative Diabetic Retinopathy

C. Jiao; C. Spee; S. He; R. Mullins; D. Elliott; D. R. Hinton; E. H. Sohn
University of Iowa; University of Southern California Keck School of medicine; Harvard Medical School

5843 - C0029

MRI Detection of Retinal Hemorrhages: Correlation with Graded

Ophthalmologic Exam

A. Stagner; A. Beavers; S. Allbery; E. Lyden; S. Haney; T. Hejkal
University of Nebraska Medical Center; University of Nebraska Medical Center; Children's Hospital and Medical Center; University of Nebraska Medical Center; Children's Hospital and Medical Center

5862 - C0048

Peripheral Retinal Hemorrhages on Fundus Photography in Patients with Suspected Abusive Head Trauma

P. S. Kemp; S. Q. Longmuir; B. Zimmerman; A. Walz; R. Oral; M. D. Abramoff
University of Iowa; University of Iowa; University of Iowa; University of Iowa

Thursday, May 8, 2014

12:15 PM – 1:45 PM

6144 - A0323

A Retrospective Study on the Effects of Retisert Implant and Ahmed Valve in Patients with Uveitic Glaucoma

K. Talcott; H. Cho; L. Sobrin; A. Lobo; G. N. Papaliodis; A. Turalba; L. Q. Shen
Massachusetts Eye and Ear Infirmary; Hanyang University College of Medicine

Thursday, May 8, 2014

12:15 PM – 1:45 PM

6154 - A0333

Safety and Efficacy of Selective Laser Trabeculoplasty in Uveitic Glaucoma

P. Patel; C. Foster

Massachusetts Eye Research and Surgery Institute (MERSI)

6186 - B0091

Differentiating between Ischemic and Non-Ischemic Origins of the “Negative” Electroretinogram

N. Tanimoto; J. D. Akula; A. Fulton; B. H. Weber; M. W. Seeliger

Ctr Ophthalmol Inst Ophthalmic Res; Boston Children’s Hospital and Harvard Medical School; Institute of Human Genetics, University of Regensburg

6222 - B0141

An Experimental Model of Optic Nerve Head Injury

D. Mantopoulos; A. Tsakris; B. S. Pawlyk; M. A. Sandberg; J. W. Miller; J. F. Rizzo;

D. G. Vavvas; D. M. Cestari

Massachusetts Eye and Ear Infirmary; Ohio State University; Athens Medical School

6378 - C0155

Eplerenone fails to treat central serous chorioretinopathy

H. Sandhu; D. G. Vavvas

Massachusetts Eye and Ear Infirmary

6406 - C0202

Genome-wide Linkage Analysis Using Large Consanguineous Pedigrees from South India Identifies New Loci for Ocular Quantitative Traits

B. Fan; P. Ferdina Marie Sharmila; N. Soumittra; S. Sripriya; D. S. Friedman; L.

Vijaya; J. L. Haines; R. J. George; J. L. Wiggs

Massachusetts Eye & Ear Infirmary; Vision Research Foundation; Wilmer Eye Institute; Sankara Nethralaya; Vanderbilt University School of Medicine

6408 - C0204

Family-based Genome-wide Association Study in South Indian Consanguineous Pedigrees Identifies an Association between WNT7B and Central Corneal Thickness

X. Chen; B. Fan; P. Ferdina Marie Sharmila; N. Soumittra; S. Sripriya; D.

Friedman; L. Vijaya; J. Haines; R. J. George; J. L. Wiggs

Massachusetts Eye & Ear Infirmary; Vision Research Foundation; Wilmer Eye Institute; Sankara Nethralaya; Vanderbilt University School of Medicine

6413 - C0209

High Resolution in-vivo Imaging in Patients with PAX6 Mutations

M. G. Thomas; V. Sheth; W. Chan; C. Andrews; E. C. Engle; I. Gottlob

University of Leicester; Boston Children; Harvard Medical School and Boston Children

6443 - C0239

Clinical characteristics of uveal melanoma in patients with germline BAP1 mutations

M. Patel; M. M. DeAngelis; A. Lane; K. Mayne; E. S. Gragoudas; I. K. Kim

Mass Eye and Ear Infirmary, Harvard Medical School; University of Utah

ARVO Annual Meeting Paper Sessions

Sunday, May 4, 2014

Arranged by time; see individual presentations for times & locations

Session Date

Session Time

Session Title

Session Location

Presentation Time

Abstract ID & Title

Authors

Affiliations

Sunday, May 4, 2014

3:15 PM – 5:00 PM

Amblyopia

S 230GH

3:15 PM - 3:30 PM

811 Retinal ganglion cell differentiation triggering FGF-2 is down-regulated in experimental visual deprivation in newborn rats

M. Meyer zu Horste; V. Prokosch-Willing; H. Melkonyan; T. Stupp; S. Thanos
 Massachusetts Eye and Ear Infirmary, Harvard Medical School; School of Medicine, Westfalian-Wilhelms-University Muenster; Westfalian-Wilhelms-University Muenster

Amblyopia

S 230GH

4:45 PM - 5:00 PM

817 Integrated Visual-Auditory Perception in Amblyopic Adults: A Study Using the McGurk Phenomenon

M. Wan; C. Narinesingh; H. C. Goltz; M. Chandrakumar; A. M. Wong
 The Hospital for Sick Children; Boston Children's Hospital; University of Toronto

Shedding light on mechanisms - genetics and beyond

S 320CD

4:30 PM - 4:45 PM

844 Risk of Elevated Intraocular Pressure (IOP) in Pediatric Non-infectious Uveitis

S. Kothari; M. Pistilli; C. Foster; H. Sen; E. B. Suhler; J. E. Thorne; D. A. Jabs; R. B. Nussenblatt; J. T. Rosenbaum; J. H. Kempen
 The Massachusetts Eye Research and Surgery Institute; The Perelman School of Medicine, University of Pennsylvania ; The Perelman School of Medicine, University of Pennsylvania ; Harvard Medical School; Oregon Health and Science University; Oregon Health and Science University; National Eye Institute; Portland Veteran's Affairs Medical Center; The Johns Hopkins University School of Medicine; The Johns Hopkins University Bloomberg School of Public Health; The Icahn School of Medicine at Mount Sinai; The Icahn School of Medicine at Mount Sinai

Ocular Tumors: Experimental Therapeutics

S 330CD

3:30 PM - 3:45 PM

847 Sensitivity and Resistance of Uveal Melanoma (UM) cells to PKC inhibition: Role of the Steroid Receptor Coactivator (SRC)-3

V. Poulaki; S. Chew; B. W. O'Malley; N. Mitsiades
 Boston University; Baylor College of Medicine; Baylor College of Medicine

Ocular Tumors: Experimental Therapeutics

S 330CD

4:00 PM - 4:15 PM

849 Verteporfin (VP) inhibits human retinoblastoma cell growth in vitro without light activation.

K. Brodowska; A. Al Moujahed; A. Marmalidou; M. Meyer zu Horste; J. Cichy; J. W. Miller; E. S. Gragoudas; D. G. Vavvas
 Harvard Medical School

Sunday, May 4, 2014

3:15 PM – 5:00 PM

Microbial Pathogenesis

S 330GH

4:15 PM - 4:30 PM

856 IL-1R is essential for neutrophil recruitment, while TLR2 is essential for neutrophil mediated killing of Staphylococcus aureus during endophthalmitis

M. S. Gregory-Ksander; W. J. Vincent; M. Crane; S. McGuire
 Massachusetts Eye and Ear Infirmary, Harvard Medical School

ARVO Annual Meeting Paper Sessions

Monday, May 5, 2014

Arranged by time; see individual presentations for times & locations

Session Date

Session Time

Session ID

Title

Session Location

Presentation Time

Abstract ID & Title

Authors

Affiliations

Monday, May 5, 2014

8:30 AM – 10:15 AM

Angiogenesis - new approaches

S 320AB

8:45 AM - 9:00 AM

1262

Dietary supplementation of ω -3 long chain polyunsaturated fatty acids promote choroidal neovessel resolution

R. Yanai; L. Mulki; E. Hasegawa; K. Takeuhi; H. Sweigard; J. Suzuki; D. G. Vavvas; K. Sonoda; J. W. Miller; K. M. Connor
 Harvard Medical School, Massachusetts Eye & Ear Infirmary; Yamaguchi Univ Grad Sch of Med

Functional, Evolutionary and Translational Genomics

S 320GH

9:15 AM - 9:30 AM

1278

Mutations in IFT172 cause isolated and syndromic retinal degeneration

K. M. Bujakowska; Q. Zhang; Q. Liu; A. M. Siemiatkowska; X. Gai; L. I. van den Born; R. W. Collin; C. Zeitz; I. Audo; E. Pierce
 Massachusetts Eye and Ear Infirmary; Radboud University Medical Center; Loyola University Chicago Health Sciences Division; The Rotterdam Eye Hospital; Radboud University Medical Center; INSERM, UMR_S968; CNRS, UMR_7210; CHNO; CHNO, INSERM-DHOS CIC 503; UCL

Meibomian Gland, Lacrimal Gland and Tear Film

S 331A-D

10:00 AM - 10:15 AM

1306

Alteration of Galectin-3 in Tears of Dry Eye Patients

Y. Uchino; A. M. Woodward; J. Mauris; J. Dieckow; F. Amparo; R. Dana; F. Mantelli; P. Argueso
 Schepens Eye Research Institute; IRCCS Fondazione GB Bietti

Monday, May 5, 2014

11:00 AM - 12:45 PM

Disease Models

S 210DE

12:00 PM - 12:15 PM

1642

A novel mouse model for complete Congenital Stationary Night Blindness (cCSNB)

M. Neuillé; S. El Shamieh; E. Orhan; C. Michiels; K. M. Bujakowska; O. Poch; J. A. Sahel; I. Audo; C. Zeitz
 Institut de la Vision Univ Pierre et Marie Curie Paris 6; INSERM, UMR_S968; CNRS, UMR_7210; Massachusetts Eye and Ear Infirmary, Ocular Genomics Institute; Integrative Bioinformatics and Genomics Laboratory ICube; CNRS, UMR_7357 ; Univ Pierre et Marie Curie Paris 6; INSERM, UMR_S968; CNRS, UMR_7210; CHNO, INSERM-DHOS CIC 503; Fondation Ophthalmologique Adolphe de Rothschild; Académie des Sciences-Institut de France; UCL-Institute of Ophthalmology; Univ Pierre et Marie Curie Paris 6; INSERM, UMR_S968; CNRS, UMR_7210; CHNO, INSERM-DHOS CIC 503

Monday, May 5, 2014

11:00 AM - 12:45 PM

New ideas in glaucoma

S 310A-D

11:00 AM - 11:15 AM

1662

Common mechanisms underlying intraocular pressure identified in functional analysis of gene lists from genome-wide association study results in IGGC cohorts

C. Venturini; J. E. Craig; N. Pfeiffer; C. M. van Duijn; J. L. Wiggs; T. Aung; D. A. Mackey; A. C. Viswanathan; C. J. Hammond
 KCL; UCL; National University of Singapore; Erasmus University Medical Centre; Johannes Gutenberg University Medical Centre; Flinders University; Harvard Medical School, Harvard University; University of Melbourne, Royal Victorian Eye and Ear Hospital; Lions Eye Institute, University of Western Australia

New ideas in glaucoma

S 310A-D

12:00 PM - 12:15 PM

1666

The Impact of Bupropion Use on the Risk of Open-Angle Glaucoma

J. D. Stein; N. Talwar; J. H. Kang; J. L. Wiggs; L. R. Pasquale
 University of Michigan; Harvard Medical School; Brigham and Women

Corneal Infection and Inflammation

S 330GH

12:30 PM - 12:45 PM

1694

Role of plasmacytoid dendritic cell in the immune regulation in sutured inflamed cornea

V. G. Sendra; A. Jamali; D. L. Harris; P. Hamrah
 Schepens Eye Research Institute/Massachusetts Eye and Ear, Harvard Medical School ; Cornea & Refractive Surgery Service, Massachusetts Eye & Ear Infirmary, Harvard Medical School

Monday, May 5, 2014

3:45 PM - 5:30 PM

Glaucoma genetics

S 230A-D

4:30 PM - 4:45 PM

2146

Genetic Association of JMJD7-PLA2G4B Variants with Early-Onset Primary Open-Angle Glaucoma in African Americans

R. R. Allingham; K. Crooks; X. Qin; G. Howell; S. W. John; J. L. Wiggs; L. R. Pasquale; C. C. Leslie; Y. Liu; M. A. Hauser
 Duke University Eye Center; Duke University Medical Center; The Jackson Laboratory; Harvard Medical School; National Jewish Health

Monday, May 5, 2014

3:45 PM - 5:30 PM

Low Vision

S 230EF

4:00 PM - 4:15 PM

2151

Prevalence, Patterns and Repeatability of Metamorphopsia in Macular Disease

E. K. Wiecek; K. Lashkari; S. C. Dakin; P. J. Bex

University College London; Harvard Medical; Massachusetts Eye and Ear;
Moorfields Eye Hospital

Low Vision

S 230EF

5:00 PM - 5:15 PM

2155

Peripheral prisms and training improve detection of pedestrians by drivers with hemianopia

A. R. Bowers; K. E. Houston; R. B. Goldstein; E. Peli

Schepens Eye Research Institute, Mass Eye and Ear

Targets for Neurodegeneration and Neuroprotection

S 320AB

5:00 PM - 5:15 PM

2182

Nuclear Hormone Receptors are Potent Genetic Modifiers that Rescue Multiple Models of Retinal Degeneration

N. B. Haider; A. B. Olivares; N. M. Cruz; P. Escher; M. M. DeAngelis

Schepens Eye Research Inst/MEEI; Institute for Research in Ophthalmology;
University of Utah

Molecular mechanisms of AMD

S 320GH

4:00 PM - 4:15 PM

2185

Genetic and epigenetic evidence for a pathway involving lipid metabolism and HTRA1 in AMD pathophysiology.

M. M. DeAngelis; M. A. Morrison; J. Ahn; E. E. Tsironi; S. Giuliana; M. Hartnett; J. W. Miller; K. Park; I. K. Kim; L. Farrer

University of Utah; Harvard Medical School, Mass Eye and Ear Infirmary; Seoul National University Bundang Hospital; University of Thessaly School of Medicine; Queen; Boston University

CNS and Ocular Inflammation and Infection

S 330GH

4:45 PM - 5:00 PM

2194

Soluble Fas ligand is a neuroprotective molecule critical in restricting glaucomatous damage to retinal ganglion cells

A. Krishnan; A. Jones; A. Rothstein; B. R. Ksander; M. S. Gregory-Ksander

Schepens Eye Research Institute / Massachusetts Eye & Ear Infirmary/ Harvard Medical School; University of Massachusetts Medical School

Corneal Epithelium and Development

S 331A-D

4:30 PM - 4:45 PM

2200

Tumor Necrosis Factor- α Induces Decreased Interaction of MUC16 with Galectin-3 in Corneal Epithelial Cells

P. Argueso; A. M. Woodward

Schepens Eye Research Institute and Massachusetts Eye and Ear

ARVO Annual Meeting Paper Sessions
 Tuesday, May 6, 2014
 See individual presentations for times & locations

Session Date
Session Time
Session ID & Title
Session Location
Presentation Time
Abstract ID & Title
Authors
Affiliations

Tuesday, May 6, 2014
11:00 AM - 12:45 PM
Keratoconus, biomechanics and keratoprosthesis S 210DE 11:30 AM - 11:45 AM 2988 Crosslinking Corneal Collagen in vivo using Rose Bengal and Green Light I. E. Kochevar; H. Zhu; C. Alt; R. W. Redmond; S. Melki Massachusetts General Hospital, Harvard Medical School; Boston Eye Group
Keratoconus, biomechanics and keratoprosthesis S 210DE 12:15 PM - 12:30 PM 2991 Titanium to enhance biointegration of the Boston Keratoprosthesis with corneal tissue: a study in rabbits B. Salvador Culla; K. Jae Jeong; H. H. Chiang; J. Chodosh; C. H. Dohman; D. S. Kohane Massachusetts Eye & Ear Infirmary, Harvard Medical School; University of New Hampshire; Boston Children's Hospital, Harvard Medical School; Koch Institute, Massachusetts Institute of Technology
Early AMD S 230A-D 11:45 AM - 12:00 PM 2996 Evaluation of the AdaptDx™ for detection of age-related macular degeneration G. R. Jackson; I. U. Scott; I. K. Kim; D. A. Quillen; A. Iannaccone; J. G. Edwards Penn State College of Medicine; Massachusetts Eye & Ear Infirmary; University of Tennessee Health Science Center; MacuLogix
Spatial vision S 230EF 11:30 AM - 11:45 AM 3002 Neural Sharpening of Images Moving in Stereoscopic Depth G. L. McCormack; J. Van Cura; P. J. Bex New England College of Optometry; Harvard Medical School
Phototransduction S 320GH 12:00 PM - 12:15 PM 3032 Bicarbonate Regulates Cyclic GMP Synthesis in Retinal Rods and Cones X. Wen; T. Isayama; A. Pertzov; R. K. Sharma; C. L. Makino; T. Duda Massachusetts Eye and Ear Infirmary & Harvard Medical School; Salus University

Tuesday, May 6, 2014
11:00 AM - 12:45 PM
Dry Eye Disease S 331A-D 11:30 AM - 11:45 AM 3056 The effect of macrolide and tetracycline antibiotics on lipid expression in human meibomian gland epithelial cells Y. Liu; W. R. Kam; J. Ding; D. A. Sullivan Schepens Eye Research Institute, Massachusetts Eye and Ear, Harvard Medical School

Tuesday, May 6, 2014
3:45 PM - 5:30 PM
Glaucoma pharmacology and clinical studies S 310A-D 3:45 PM - 4:00 PM 3546 Dissection of a QTL Locus on Mouse Proximal Chromosome 5 that Modulates Intraocular Pressure (IOP) leads to Identification of a Potential New Drug Target for Glaucoma S. Swaminathan; H. Lu; J. L. Wiggs; R. W. Williams; L. Lu; M. M. Jablonski Hamilton Eye Institute, The University of Tennessee Health Science Center; The University of Tennessee Health Science Center; Harvard Medical School, Massachusetts Eye and Ear Infirmary
Pathophysiology of AMD and retinopathies S 310E-H 5:00 PM - 5:15 PM 3558 Adiponectin mediates protective effect of omega-3 long-chain polyunsaturated fatty acid in retinal neovascularization Z. Fu; C. Lofqvist; C. G. Hurst; Z. Cui; L. P. Evans; K. T. Tian; H. H. Bogardus; J. Chen; A. Hellström; L. Smith Children's Hosp Boston/Harvard Med Sch; Sahlgrenska Academy at University of Gothenburg
Inflammatory Tissue Damage and Immunoregulation S 330GH 4:30 PM - 4:45 PM 3576 Similarities of human EMR2 to mouse F4/80 in ocular tolerance H. Song; S. Gordon; J. Stein-Streilein Schepens Eye Research Institute; University of Oxford

Tuesday, May 6, 2014

3:45 PM - 5:30 PM

Inflammatory Tissue Damage and Immunoregulation

S 330GH

4:45 PM 5:00 PM

3577

The Membrane-associated Mucins MUC1 and MUC16 Suppress Toll-like Receptor-mediated Innate Immune Responses at the Ocular Surface

B. B. Menon; C. Marko; S. Spurr-Michaud; A. Tisdale; I. K. Gipson

Schepens Eye Rsch Inst, MEE

Inflammatory Tissue Damage and Immunoregulation

S 330GH

5:15 PM - 5:30 PM

3579

Retinal Laser Burn (RLB) alter inflammatory Toll-like receptors (TLRs) in the retina in a Substance P dependent manner

T. Phan; J. Stein-Streilein

Schepens Eye Research Institute/Mass Eye and Ear/Harvard Medical School

Corneal endothelium

S 331A-D

4:45 PM - 5:00 PM

3584

Menadione Induces Endothelial Mesenchymal Transition in Human Corneal Endothelial Cells

D. Raoof; K. Katikireddy; T. Schmedt; U. Jurkunas

Massachusetts Eye and Ear Infirmary; Schepens Eye Research Institute ; AbbVie Deutschland GmbH & Co. KG

ARVO Annual Meeting Paper Sessions
Wednesday, May 7, 2014
 See individual presentations for times & locations

Session Date
Session Time
Session ID & Title
Session Location
Presentation Time
Abstract ID & Title
Authors
Affiliations

Wednesday, May 7, 2014
11:00 AM - 12:45 PM

Function and microstructure of the macula
 S 230A-D
 11:00 AM - 11:15 AM
 4532
Impact of age-related macular degeneration (AMD) on human retinal pigment epithelium autofluorescence (AF), cell number, and packing geometry
 T. Ach; J. D. Messinger; M. J. Bentley; F. C. Delori; T. Smith; K. R. Sloan; C. A. Curcio
 Univ of Alabama at Birmingham; Univ of Alabama at Birmingham; Schepens Eye Research Institute; NYU Langone Medical Center

Function and microstructure of the macula
 S 230A-D
 11:15 AM - 11:30 AM
 4533
Aging human retinal pigment epithelial (RPE) cells accumulate lipofuscin and live on: histological basis of quantitative autofluorescence (AF)
 C. A. Curcio; J. D. Messinger; T. Zhang; C. E. Huisingh; F. C. Delori; Z. Ablonczy; T. Smith; K. R. Sloan; T. Ach
 University of Alabama at Birmingham; University of Alabama at Birmingham; New York University; Schepens Eye Research Institute; Medical University of South Carolina

New Developments in Ophthalmic Genetics
 S 320AB
 11:45 AM - 12:00 PM
 4569
Meta-Analysis of Glaucoma Genome-Wide Imputed Dataset
 J. Cooke Bailey; S. Loomis; M. A. Hauser; L. R. Pasquale; J. H. Kang; R. R. Allingham; R. N. Weinreb; J. L. Wiggs; J. Haines
 Case Western Reserve University; Harvard Medical School, Massachusetts Eye and Ear Infirmary; Brigham and Women; Duke University Medical Center; Duke University Medical Center; Hamilton Eye Center, University of California, San Diego

Consequences of impaired visual function in everyday life
 S 320CD
 11:45 AM - 12:00 PM
 4576
A test of visual function combining size, contrast and presentation time
 D. M. Laby; D. Kirschen; D. Meadows; R. W. Massof
 Harvard Medical School; Southern California College of Optometry; The Johns Hopkins University School of Medicine; University of Florida

Wednesday, May 7, 2014
11:00 AM - 12:45 PM

Retinopathy of Prematurity
 S 320GH
 11:00 AM - 11:15 AM
 4580
Small for gestational age as a risk factor for severe retinopathy of prematurity is dependent on gestational age at birth.
 P. Lundgren; A. Kistner; I. Hansen-Pupp; G. Holmstrom; D. Ley; A. Niklasson; L. Smith; C. Wu; A. Hellström; C. Lofqvist
 Sahlgrenska Academy at University of Gothenburg; Lund University; Uppsala University; Sahlgrenska Academy at University of Gothenburg; Boston Children Hospital, Harvard

Retinopathy of Prematurity
 S 320GH
 11:15 AM - 11:30 AM
 4581
Postnatal Apolipoprotein and Adipocytokine Profiles at the induction time of ROP
 G. Hellgren; E. Engström; L. Smith; C. Lofqvist; A. Hellström
 University of Gothenburg; University of Gothenburg; Children's Hospital Boston, Harvard Medical School

Retinopathy of Prematurity
 S 320GH
 11:30 AM - 11:45 AM
 4582
Restricted postnatal growth is reflected by low serum adiponectin levels during the second phase of ROP
 C. Lofqvist; I. Hansen-Pupp; G. Hellgren; L. Smith; A. Hård; D. Ley; A. Hellström
 University of Gothenburg; Lund University and Skane ; Childrens Hospital and Harvard Medical School

Ocular Immune Responses
 S 330GH
 11:30 AM - 11:45 AM
 4601
Galectin-8 inhibits experimental autoimmune uveitis by promoting regulatory T cells
 J. Sampson; A. Suryawanshi; W. Chen; L. Mulki; E. Hasegawa; K. M. Connor; G. A. Rabinovich; N. A. Panjwani
 Tufts University; Massachusetts Eye and Ear Institute; Institute of Biology and Experimental Medicine, CONICET

Wednesday, May 7, 2014

11:00 AM - 12:45 PM

Ocular Immune Responses

S 330GH

12:15 PM - 12:30 PM

4604

Th17-derived IFN- γ +IL-17+ effectors exacerbate dry eye disease

Y. Chen; S. K. Chauhan; Z. Sadrai; J. Hua; M. Omoto; R. Dana

Schepens Eye Research Ins /MEEI

Corneal stoma and wound repair

S 331A-D

12:15 PM - 12:30 PM

4611

Human Growth Hormone Promotes Corneal Wound Healing in Vitro

J. Ding; D. A. Sullivan

Schepens Eye Research Institute/ Mass Eye and Ear

Wednesday, May 7, 2014

3:45 PM - 5:30 PM

Immunology and angiogenesis

S 331A-D

3:45 PM - 4:00 PM

5044

Multi-Photon Intravital Microscopy Of Corneal Draining Lymph Nodes

Demonstrates Immune Cell Alterations And Kinetics After Corneal

Allotransplantation

M. J. Lopez; T. Yamaguchi; D. L. Harris; A. Jamali; P. Hamrah

Schepens Eye Research Institute, Harvard Medical School; Massachusetts Eye & Ear Infirmary, Harvard Medical School

ARVO Annual Meeting Paper Sessions
Thursday, May 8, 2014
 See individual presentations for times & locations

Session Date
Session Time
Session ID & Title
Session Location
Presentation Time
Abstract ID & Title
Authors
Affiliations

Session Date
12:00 PM – 1:45 PM
Vision with Adaptive Optics S 230EF 12:15 PM - 12:30 PM 5970 Internal code for blur: Interocular effects A. Radhakrishnan; C. Dorronsoro; L. Sawides; M. Webster; E. Peli; S. Marcos Instituto de Optica, CSIC; University of Nevada; The Schepens Eye Research Institute
Visual Development and Amblyopia S 230GH 1:30 PM - 1:45 PM 5981 An Exploratory Study of a Novel Home-Based Binocular Therapy for Childhood Amblyopia M. Bossi; E. J. Anderson; V. Taylor; P. J. Bex; J. A. Greenwood; A. Dahlmann-Noor; S. C. Dakin UCL Institute of Ophthalmology; UCL Institute of Cognitive Neuroscience; Moorfields Eye Hospital; Massachusetts Eye and Ear Infirmary; UCL Psychology & Language Sciences; National Institute for Health Research Biomedical Research Centre for Ophthalmology at Moorfields Eye Hospital NHS Foundation Trust
Trabecular meshwork S 310A-D 1:15 PM - 1:30 PM 5987 In vivo study of the role of SPARC in TGFb2-mediated ocular hypertension S. S. Swaminathan; D. Oh; M. Kang; A. R. Shepard; I. Pang; D. J. Rhee Massachusetts Eye & Ear Infirmary; Case Western Reserve University; Novartis Institutes for Biomedical Research; University of North Texas Health Sciences Center

Session Date
12:00 PM – 1:45 PM
Drug/gene delivery S 320AB 1:30 PM -1:45 PM 6002 Comparison of dual AAV vector approaches for large gene delivery to the retina L. S. Carvalho; H. T. Turunen; M. Luna Velez; J. Bennett; L. H. Vandenberghe Schepens Eye Research Institute, Massachusetts Eye and Ear Infirmary, Harvard Medical School; University of Pennsylvania School of Medicine, F.M. Kirby Center for Molecular Ophthalmology, Scheie Eye Institute
Clinical and Translational Studies in Ocular Inflammation S 330GH 12:15 PM - 12:30 PM 6031 Incidence and Risk Factors for Ocular Hypertension in Adults with Non- infectious Uveitis E. Daniel; M. Pistilli; H. Sen; E. B. Suhler; J. E. Thorne; C. Foster; D. A. Jabs; R. B. Nussenblatt; J. T. Rosenbaum; J. H. Kempen University of Pennsylvania; University of Pennsylvania; University of Pennsylvania; National Eye Institute; Portland Veteran's Affairs Medical Center; The Devers Eye Institute; The Johns Hopkins University Bloomberg School of Public Health; The Johns Hopkins University School of Medicine; The Massachusetts Eye Research and Surgery Institution; Harvard Medical School; The Icahn School of Medicine at Mount Sinai; Oregon Health and Science University

ARVO Special Interest Groups
See individual presentations for times & locations

Session Date
Session Time

Session Title
Session Location
Presentation Time
Abstract ID & Title
Authors
Affiliations

Sunday, May 4, 2014

1:30PM – 3:00 PM

New insights into the role of nitric oxide signaling in glaucoma - SIG
S 310A-D

1:30 PM - 3:00 PM

SIG - Organizer

E. S. Buys; W. Stamer; E. S. Buys; W. Stamer; L. R. Pasquale; P. L. Kaufman; J. L. Vittitow

Massachusetts General Hospital, Harvard Medical School; Duke University School of Medicine; Harvard Medical School; University of Wisconsin Medical School;; Bausch + Lomb

New insights into the role of nitric oxide signaling in glaucoma - SIG
S 310A-D

1:30 PM - 3:00 PM

The role of impaired nitric oxide signaling in primary open angle glaucoma

L. R. Pasquale
Harvard Medical School

A Report from the TFOS International Workshop on Contact Lens Discomfort - SIG
S 331A-D

1:30 PM - 3:00 PM

SIG -Organizer

D. A. Sullivan; M. D. Willcox; J. J. Nichols; K. K. Nichols; K. Dumbleton; F. Stapleton; N. Efron; J. P. Craig; L. W. Jones; E. B. Papas; G. N. Foulks
Schepens Eye Res Inst/Harvard Med School; College of Optometry, University of Houston; CCLR-School of Optometry, University of Waterloo; School Optometry and Vision Science, Univ of New South Wales; Institute of Health & Biomedical Innovation Queensland University of Technology; University of Auckland; University of Louisville; Brien Holden Vision Institute

Monday, May 5, 2014

1:00 PM - 2:30 PM

Working Towards International Consensus in the Field of Vision Restoration Outcome Measures - SIG
S 230GH

1:00 PM - 2:30 PM

Panel Discussion

J. F. Rizzo
Mass Eye & Ear Infirmary

The clinical impact of neuroretinal degeneration in DM patients - SIG
S 330CD

1:00 PM - 2:30 PM

SIG - Organizer

F. D. Verbraak; T. W. Gardner; T. W. Gardner; M. A. Bearn; F. D. Verbraak; G. R. Jackson; J. K. Sun; T. W. Gardner
Academic Medical Center; University of California; Harvard Medical School; University of Michigan; Penn State College of Medicine

Monday, May 5, 2014

1:00 PM - 2:30 PM

The clinical impact of neuroretinal degeneration in DM patients - SIG
S 330CD

1:00 PM - 2:30 PM

Debate: clinical relevance of neuro-retinal degeneration

J. K. Sun
Harvard Medical School

Tuesday, May 6, 2014

1:00 PM - 2:30 PM

Long term career considerations for graduate students - SIG
S 320GH

1:00 PM - 2:30 PM

SIG - Organizer

G. Edwards; T. A. Carreon; I. Pang; N. B. Haider; N. B. Caberoy; D. H. Epstein
University of Miami Miller Medical School; Bascom Palmer Eye Institute; Schepens Eye Research Institute; University of Nevada; North Texas Eye Research Institute ; National Alliance for Eye and Vision Research (NAEVR)

Long term career considerations for graduate students - SIG
S 320GH

1:00 PM - 2:30 PM

Stepping stones from graduate school to running the show

N. B. Haider
Schepens Eye Research Institute

Wednesday, May 7, 2014

1:00 PM - 2:30 PM

The inflammasome, lysosomal disruption and the P2X7 receptor; emerging evidence for a key role in RPE pathology - SIG
S 310E-H

1:00 PM - 2:30 PM

SIG - Organizer

C. H. Mitchell; J. Ambati; P. A. D'Amore; D. T. Shima; C. H. Mitchell
University of Pennsylvania Library; University of Kentucky; Schepens Eye Research Institute; Institute of Ophthalmology London

The inflammasome, lysosomal disruption and the P2X7 receptor; emerging evidence for a key role in RPE pathology - SIG
S 310E-H

1:00 PM - 2:30 PM

NLRP3 inflammasome activation in retinal pigment epithelial cells by lysosomal destabilization

P. A. D'Amore
Schepens Eye Research Institute

Wednesday, May 7, 2014

1:00 PM - 2:30 PM

Translational Research: Drug or Regenerative Medicine - SIG

S 331A-D

1:00 PM 2:30 PM

SIG - Organizer

S. Kinoshita; F. E. Kruse; J. Menzel-Severing; Y. Oie; U. Jurkunas; A. S. Jun; N. Okumura

Kyoto Prefectural University of Medicine; University of Erlangen Nurnberg;

Osaka University; Massachusetts Eye and Ear Infirmary; Johns Hopkins

University; Doshisha University

Translational Research: Drug or Regenerative Medicine - SIG

S 331A-D

1:00 PM - 2:30 PM

ROS as the drug target of treating Fuchs endothelial corneal dystrophy

U. Jurkunas

Massachusetts Eye and Ear Infirmary

ARVO CROSS-SECTIONAL GROUPS
See individual presentations for times & locations

Session Date
Session Time
Session ID & Title
Session Location
Presentation Time
Abstract ID & Title
Authors
Affiliations

Tuesday, May 6, 2014
1:00 PM - 2:30 PM

Low Vision Group: Binocular Vision Meets Low Vision
S 210DE

1:45 PM - 2:00 PM

Diplopia and Confusion: Partners in Discomfort, Mostly Together, but Sometimes Separate

E. Peli

Schepens ERI, Mass Eye & Ear

Low Vision Group: Binocular Vision Meets Low Vision
S 210DE

2:00 PM - 2:15 PM

Does binocular suppression limit the functionality of unilateral low vision devices?

N. C. Ross

Johns Hopkins Wilmer Eye Institute; Schepens Eye Research Institute, Massachusetts Eye and Ear

ARVO MINISYMPOSIA & SYMPOSIA
See individual presentations for times & locations

Session Date
Session Time
Session ID & Title
Session Location
Presentation Time
Abstract ID & Title
Authors
Affiliations

Sunday, May 4, 2014

8:30 AM - 10:30 AM

ROP: Evolving Phenotypes and Emerging Treatments

Hall SB

8:50 AM - 9:10 AM

8 Prevention of ROP: Mechanisms of lipid metabolites and IGF-1 in ROP

L. Smith

Boston Children's Hospital; Harvard Medical School

ROP: Evolving Phenotypes and Emerging Treatments

Hall SB

10:10 AM - 10:30 AM

12 Retinal and Visual Development in ROP

A. Fulton

Children's Hospital of Boston, Harvard

Sunday, May 4, 2014

5:15 PM - 7:15 PM

From Bench to Therapy: Translating Molecular Genetics into Clinical Practice

Hall SB

5:39 PM - 5:58 PM

1225 Next generation sequencing in inherited retinal disease

E. Pierce

Massachusetts Eye and Ear Infirmary

From Bench to Therapy: Translating Molecular Genetics into Clinical Practice

Hall SB

6:36 PM - 6:55 PM

1228 Genome-wide association studies in glaucoma

J. L. Wiggs

Mass Eye and Ear, Harvard

Monday, May 5, 2014

8:30 AM - 10:15 AM

Innervation in Corneal Health and Inflammation - Minisymposium

S 330GH

9:00 AM - 9:20 AM

1297 Inflammation and innervation of the cornea

P. Hamrah

Harvard Medical School, MEEI

Monday, May 5, 2014

11:00 AM - 12:45 PM

Non-Coding Variations of the Genome and Their Alterations in Ocular Disease -

Minisymposium

S 320GH

11:05 AM - 11:25 AM

1676 Novel elements in the human retinal transcriptome

E. Pierce

Massachusetts Eye and Ear Infirmary

Monday, May 5, 2014

11:00 AM - 12:45 PM

New Insights into the Etiology, Impact and Treatment of Oxidative Stress in the

Cornea and External Eye - Minisymposium

S 331A-D

12:25 PM - 12:45 PM

1699 Oxidative Stress in Fuchs Dystrophy

U. Jurkunas

Harvard Medical School

The Microbiome of the Eye and Beyond - How the Microbiome Influences

Resistance against Opportunistic Pathogens - Minisymposium

S 330GH

11:30 AM - 11:50 AM

3050 NLRP3 inflammasome and conjunctival goblet cell control of bacterial keratitis and conjunctivitis

D. Dartt

Schepens Eye Research Institute/Massachusetts Eye and Ear; Harvard Medical School

ARVO WORKSHOPS

See individual presentations for times & locations

Session Date

Session Time

Session ID & Title

Session Location

Presentation Time

Abstract ID & Title

Authors

Affiliations

Wednesday, May 7, 2014

1:00 PM – 2:30 PM

Leading Vision Research: Promoting and Managing Diverse Collaborations

S 230EF

1:45 PM - 2:00 PM

Approaches to Managing a Diverse Research Environment

P. A. D'Amore

Schepens Eye Research Institute-Mass Eye & Ear; Harvard University Medical School

Clinician-Scientist Forum: How to Become a Successful Clinician-Scientist

S 320CD

1:51 PM - 2:03 PM

Perspectives of a Career Development Awardee-Rewards and Pitfalls

P. Hamrah

Harvard Medical School, MEEI

Exhibit Hall Map

Ocular 155	254	255	354	355	454	NTP 455	554	555	654	655	754	OXYM AP 755	854
Camb ridge 153	252	253	352	353	452	453	552	553	Pharm Optim 652	653	752	753	852

149	248	Fiberguide Industries 247	Biopigen, Inc 346	Diagnosys 345	Prevention 446	National Eye Institute/NIH 445	Coalition 546	549	648	649	748	749	848
Amidus Health 145	244	Clarity Medic 245	Karger 344	345	444	Midwest 544	545	547	Lutein Pharm 646	Images on Ophthalmoto 645	746	747	846
								Jaypee 545	Integral 644	Singapore 744		745	844

Lions Eye Institute for 139	240	World Precise 241	Wasatch 340	ARVO CENTRAL				Optovue, Inc 639	Shenyang 740	741	Association 840
Bioniko 137	236	Visoptics/Gibraltar IT 237	Comparativ 338					Visit Denver, 20'	UCL Institute 739	Imedoss 838	
Cell Signal 135	Coloni al 234	Precision 235	GENE TOOL 334					EVER (Euro 637	Lexitas 737	836	
								ifa united 635	The JAMA 734	Innova 735	Roland 834

Posters

Posters

METROVISI 129	Minnesota 228	Review of 229	HAI Laboratorie 20'	Sante n Inc. 329	Pharma 20'	20' Phoenix Research Labs 423	40'	Arrington 527	SDC 626	Leiters 629	Imagine Eyes 20'	VOPTICA 729	Anirida 828
Women's 127	Center vue 226	NOF Ameri 227	Speed way 324	World Glauc 327	426	Quant el 525	Retina l 624	American 627	726	Rose Micro 724	Physi cal 725	Internationa 826	Jorve c 824
Vision Tiffan 125	The EMME 224	Nation al 225	Tome y 322	Kugler 325	Bryn Mawr 424	IOP Ophth 523	Haag-Streit 622	Alimer a 625	Cano n 722	DORC Intl 623	Nature 723	822	ThromboGen 818
Bio-Conc 123	Ocular Instru 222	Topcon 219	Lions Vision 318	The Anglo 323	Calvert 422								

Wolters 119	Vision searc 218	Heidelberg Engineering 215	NIDEK 20'	Sinclair 319	SAN DIEG 418	SILENT AUCTION / EXHIBITOR PRESENTATIONS		OCUL US 619	Eisevier 718	Accutome 617	Neomedix Corporatio 20'	SLACK incorporate 20'	Allergan 20'
Jackson 117	Ophthalmol 216	Good-Lite 310	M&S Techn 308	BTI - Biote 317	Boston 416			NEW WORL 615	714				
Fight for 115	214	Optos Inc 209	20'	Unilife 315	Encompas 414								
OPHM ED 111	Power ed 210												

ISOPT Clinic 109	Keeler Instrument 20'	Konan Medic 205	Synergetics 304	Bausch + Lomb 20'	Zeiss 20'	20' Genentech 409	20' VOLK OPTICAL INC. 20'	Toxikon 611	DSM 20'	20' Regeneron Pharmaceuticals 30'
Bright Focus 105	204	Katen a 203	LKC Technologi 20'	Rumex 305	Electro- 404			Oxford 609	708	
		Absorption 201	300	JANIX 20'	EyeCRO 400	20' OSOD 30'	Reichert 504	Castle Biosci 605	Aurora 704	705

Maculogix, Inc. 20'	Ocuscience 20'												

ENTRANCE

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