

HARVARD MEDICAL SCHOOL
Department of Ophthalmology



**Harvard Medical School
Department of Ophthalmology**

ARVO 2013

ARVO-ISIE/Imaging Conference

May 4, 2013

Sheraton Seattle Hotel

ARVO Annual Meeting

May 5–9, 2013

Washington State Convention Center

Harvard Medical School Department of Ophthalmology

ARVO 2013

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

ARVO-ISIE/Imaging Conference
May 4, 2013

Sheraton Seattle Hotel (adjacent to the Washington State Convention Center)
1400 6th Avenue, Seattle, WA 98101

Poster Sessions	1
Paper Sessions	1

ARVO Education Courses
May 4, 2013

Washington State Convention Center
800 Convention Place, Seattle, WA 98101

Education Courses	2
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ARVO Annual Meeting
May 5–9, 2013

Washington State Convention Center
800 Convention Place, Seattle, WA 98101

Poster Sessions	3-17
Sunday, May 5, 2013	3-5
Monday, May 6, 2013	6-9
Tuesday, May 7, 2013	10-12
Wednesday, May 8, 2013.....	13-15
Thursday, May 9, 2013.....	16-17
Paper Sessions	18-23
Monday, May 6, 2013	18-19
Tuesday, May 7, 2013	20
Wednesday, May 8, 2013.....	21-22
Thursday, May 9, 2013.....	23
Special Interest Groups	24
Cross-Sectional Groups	25
Minisymposia	26
Workshops	27

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

ISIE Imaging Conference Poster Sessions

Saturday, May 4, 2013
8:00 AM – 5:30 PM

Sheraton Seattle Hotel
(adjacent to the Washington State Convention Center)
2nd Floor Main Building
Grand C – D

Separate registration from main ARVO meeting

ISIE Imaging Conference Paper Sessions

Saturday, May 4, 2013
8:00 AM – 5:30 PM

Sheraton Seattle Hotel
(adjacent to the Washington State Convention Center)
2nd Floor Main Building
Grand A – B

Separate registration from main ARVO meeting

Session Date

Session Time

Session ID & Title

Poster ID

Abstract Title

Authors

Affiliations

Session Date

Session Time

Session ID & Title

Presentation Time

Abstract ID & Title

Authors

Affiliations

Saturday, May 4, 2013

10:00 AM - 10:30 AM

201 Anterior Poster Session

P4

Use of Laser In Vivo Confocal Microscopy to Diagnose and Evaluate Efficacy of Autologous Serum Tears for Severe Light Sensitivity in Corneal Neuropathy

S. Aggarwal; A. Kheirkhah; C. Colon; E. Brown; P. Hamrah
Mass Eye and Ear Infirmary

201 Anterior Poster Session

P8

Fungal Keratitis: Diagnosis and Management with In Vivo Confocal Microscopy and Corneal Cultures

G. Vora; C. Colon; M. Trinidad; C. Williams; P. Hamrah
Massachusetts Eye and Ear Infirmary

201 Image Processing

P28

Measurement Deviation and Scan Artifacts Associated with Macular Spectral-Domain Optical Coherence Tomography

Y. Chee; T. Elze; L. Pasquale; D. Rhee; P. J. Bex; L. Q. Shen
Massachusetts Eye and Ear Infirmary; Schepens Eye Research Institute, Harvard Medical School

Saturday, May 4, 2013

1:30 PM – 3:30 PM

103 Retina Imaging

2:00 PM - 2:15 PM

17 Mapping human retinal pigment epithelium (RPE) cell number and autofluorescence (AF)

T. Ach; J. D. Messinger; M. J. Bentley; F. C. Delori; R. T. Smith; K. R. Sloan; C. A. Curcio
University of Alabama at Birmingham; University of Alabama at Birmingham; Schepens Eye Research Institute; Columbia University

ARVO EDUCATION COURSES (SEPARATE REGISTRATION REQUIRED)

Saturday, May 4, 2013

Washington State Convention Center

See individual presentations for times & locations

Session Date

Session Time

Session ID & Title

Session Location

Presentation Time

Abstract ID & Title

Authors

Affiliations

Saturday, May 4, 2013

8:30 AM – 4:30 PM

1 Diabetic Retinopathy: Where Do We Stand and Where Do We Go from Here?
TCC 303

9:45 AM - 10:00 AM

Anti-VEGF and Other Pharmacotherapies

L. P. Aiello

Joslin Diabetes Center

1 Diabetic Retinopathy: Where Do We Stand and Where Do We Go from Here?
TCC 303

10:30 AM - 10:55 AM

Diabetic Retinopathy: Mechanisms – Review

G. L. King

Joslin Diabetes Center

1 Diabetic Retinopathy: Where Do We Stand and Where Do We Go from Here?
TCC 303

1:50 PM - 2:05 PM

Novel Biomarkers

E. P. Feener

Joslin Diabetes Center

2 Entrepreneurship in Ophthalmology: Pathways to Innovation
606/607

9:15 AM - 9:45 AM

Development of a Pediatric Vision Screening Device

D. G. Hunter

Boston Children's Hospital

Saturday, May 4, 2013

8:30 AM – 12:00 PM

6 Telehealth Methods for Diabetic Retinopathy and Glaucoma: Clinical, Technical and Business Insights and Strategies for Successful Tele-ophthalmology Programs

615-617

8:45 AM - 9:00 AM

Goals of DR Telemedicine Assessment Programs

P. S. Silva

Joslin Diabetes Center

Saturday, May 4, 2013

8:30 AM – 12:00 PM

6 Telehealth Methods for Diabetic Retinopathy and Glaucoma: Clinical, Technical and Business Insights and Strategies for Successful Tele-ophthalmology Programs

615-617

9:00 AM - 9:15 AM

DR Assessment: System Validation Against Gold Standard ETDRS Fundus Photography

P. S. Silva

Joslin Diabetes Center

6 Telehealth Methods for Diabetic Retinopathy and Glaucoma: Clinical, Technical and Business Insights and Strategies for Successful Tele-ophthalmology Programs

615-617

9:15 AM - 9:45 AM

Teleglaucoma: Challenges and Opportunities

L. R. Pasquale

Mass Eye & Ear Infirmary

6 Telehealth Methods for Diabetic Retinopathy and Glaucoma: Clinical, Technical and Business Insights and Strategies for Successful Tele-ophthalmology Programs

615-617

10:20 AM - 10:35 AM

Financial Factors

I. E. Zimmer-Galler; M. Horton; P. S. Silva; J. Cavallerano

Johns Hopkins Medical Institutions; Phoenix Indian Medical Center; Joslin Diabetes Center; Joslin Beetham Eye Institute

6 Telehealth Methods for Diabetic Retinopathy and Glaucoma: Clinical, Technical and Business Insights and Strategies for Successful Tele-ophthalmology Programs

615-617

10:35 AM - 10:50 AM

Panel Discussion

I. E. Zimmer-Galler; M. Horton; P. S. Silva; J. Cavallerano

Johns Hopkins Medical Institutions; Phoenix Indian Medical Center; Joslin Diabetes Center; Joslin Beetham Eye Institute

6 Telehealth Methods for Diabetic Retinopathy and Glaucoma: Clinical, Technical and Business Insights and Strategies for Successful Tele-ophthalmology Programs

615-617

11:10 AM - 11:30 AM

Potential Impact on Conventional Eye Care Programs

J. Cavallerano

Joslin Beetham Eye Institute

ARVO Annual Meeting Poster Sessions

Sunday, May 5, 2013

8:30 AM – 2:45PM

Washington State Convention Center

Level 4 Exhibit Halls

Session Date

Session Time

Session ID & Title

Poster ID – Poster # (A & B = South Exhibit Hall; C & D = North Exhibit Hall)

Abstract Title

Authors

Affiliations

Sunday, May 5, 2013

8:30 AM - 10:15 AM

103 Imaging of Ocular Vasculature and Flow

18 - A0005

Ultra-Widefield Fluorescein Angiography in Children Using Oral Fluorescein Administration

A. Schneier; D. Y. Kim; D. VanderVeen; S. Mukai

Boston Children's Hospital; Massachusetts Eye and Ear Infirmary

103 Imaging of Ocular Vasculature and Flow

23 - A0010

Retinal Vascular Measurements Using Automated Fundus Image Analysis: The Effect of Hypertension on Vascular Caliber in Adult Population

M. Englander; E. I. Paschalis; T. J. Lee; A. Vasanji; R. Singh

Cole Eye Institute; Massachusetts Eye and Ear Infirmary, Harvard Medical School; Cleveland Clinic Lerner College of Medicine; Cleveland Clinic

105 Inflammation and Drugs

112 - C0117

Efficacy of Tocilizumab, an IL-6 receptor inhibitor in ocular inflammatory disorders: a pilot study

V. Sarup; A. Butt; K. Aziz; C. Foster

Massachusetts Eye Research & Surgery Institution; Ocular Immunology & Uveitis Foundation; Harvard Medical School

105 Inflammation and Drugs

120 - C0125

Assessment of Efficacy and Safety of a Novel Protocol for Pulsed Intravenous Cyclophosphamide for Recalcitrant or Severe Ocular Inflammatory Disease

A. M. Suelves; C. A. Arcinue; J. González-Martín; C. Foster

Massachusetts Eye Research and Surgery Institution; Ocular Immunology & Uveitis Foundation; Harvard Medical School; University of Valencia

106 Posterior Segment Infection/AIDS-Related Ocular Disease

133 - C0138

Role of Immunomodulatory Therapy for Herpes Simplex Virus Associated Ocular Inflammation

A. Bajwa; S. Hu-Torres; C. Foster

Massachusetts Eye Research and Surgery Institution; Ocular Immunology & Uveitis Foundation; Harvard Medical School

110 AMD, CL

239 - D0084

Periodontal Disease and Age-related Macular Degeneration

S. Wagley; R. A. Salhi; K. Marra; J. G. Arroyo

College of Human Medicine - Michigan State University; Beth Israel Deaconess Medical Center

Sunday, May 5, 2013

8:30 AM - 10:15 AM

112 Animal Models of Disease

264 - D0213

Identification of a novel genetic model for retinal neovascularization

M. Allocca; B. D. Leehy; J. A. White; L. A. Kim; M. Saint-Geniez; P. Escher; D.

Elliott; E. A. Pierce; M. M. DeAngelis; N. B. Haider

Department of Ophthalmology, Harvard Medical School ; IRO-Institute for Research in Ophthalmology; University of Lausanne; University of Utah

112 Animal Models of Disease

277 - D0226

Notch signaling misregulation in retinal pericytes exposed to high glucose

J. F. Arboleda-Velasquez; A. M. James; V. A. Primo; M. J. Graham; P. A. D'Amore

Schepens Eye Research Institute/Mass Eye and Ear Infirmary; Harvard Medical School; Exeter University

114 AMD Mechanisms: Choroid and RPE

322 - D0358

Differential expression patterns of Semaphorin 3F in the murine and human retina and its role in choroidal neovascularization

A. D. Buehler; N. Sitaras; S. Favret; J. Joyal; G. Martin; M. Klagsbrun; H. T.

Agostini; L. E. Smith; P. Sapielha; A. Stahl

University Eye Hospital Freiburg; University of Montreal; Children's Hospital Harvard Medical School

114 AMD Mechanisms: Choroid and RPE

326 - D0362

Loss of Cathepsin B and Z reduces matrix invadosome formation, endothelial sprouting and CNV area in mice

S. Berger; A. D. Buehler; F. Werner; G. Martin; H. Han; D. Boehringer; G. R.

Schlunck; H. T. Agostini; T. Reinheckel; A. Stahl

University Eye Hospital; Department of Molecular Medicine

Sunday, May 5, 2013

10:30 AM - 12:15 PM

124 Neuroprotection; Clinical Drug Studies

417 - A0148

A peptide derived from Prominin-1 enhances axon regeneration of retinal ganglion cells in an optic nerve injury model

Z. Chi; A. Birsner; A. Adini; R. J. D'Amato

Harvard Medical School; Boston Children's Hospital

Sunday, May 5, 2013

10:30 AM - 12:15 PM

127 Corneal Epithelium and Imaging I

531 - B0168**Laser In Vivo Confocal Microscopy Demonstrates a Lower Density of Peripheral Corneal Nerve Fibers Compared to the Central Cornea in Normal Subjects**

J. You; B. M. Cavalcanti; S. Cheng; M. L. Trinidad; D. Critser; A. Watts; C. D. Leahy; C. W. Sindt; P. Hamrah

Massachusetts Eye and Ear Infirmary; Massachusetts Eye and Ear Infirmary; University of Iowa

127 Corneal Epithelium and Imaging I

554 - B0191**Knockdown of MUC16 Alters Tight Junctions of Corneal Epithelial Cells Resulting in Decreased Transepithelial Resistance**I. K. Gipson; S. J. Spurr-Michaud; A. S. Tisdale
Schepens Eye Research Inst/MEEI

128 Spatial Vision, Visual Psychophysics and Aging I

577 - C0188**iPad-Based Quick CSF Implementation to Assess Effects of Dioptric Blur on Contrast Sensitivity**

M. Dorr; L. A. Lesmes; Z. Lu; P. Bex

Harvard Medical School; Ohio State University

129 ROP

615 - D0137**Adiponectin mediates protective effect of omega-3 long-chain polyunsaturated fatty acid in retinopathy of prematurity**

Z. Fu; C. Lofqvist; A. Juan; Z. Cui; D. T. Pei; C. G. Hurst; L. Evans; J. Chen; A. Hellström; L. E. Smith

Boston Children's Hospital/Harvard Medical School; Sahlgrenska Academy at University of Gothenburg

129 ROP

619 - D0141**Foveal Fine Structure in Retinopathy of Prematurity (ROP) Subjects: an Adaptive Optics Spectral Domain Optical Coherence Tomographic Study**

E. A. Swanson; J. D. Akula; T. L. Favazza; D. X. Hammer; R. D. Ferguson; A. Moskowitz; R. M. Hansen; A. B. Fulton

Boston Children's Hospital; Harvard Medical School; Physical Sciences Inc; Food and Drug Administration

129 ROP

636 - D0158**Next Generation Sequencing Analysis of Gene and Pathway Regulation in the Rat Model of Retinopathy of Prematurity**

T. L. Favazza; R. M. Griffith; H. Li; N. Zhang; R. M. Hansen; A. B. Fulton; J. D. Akula

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

130 Retinitis Pigmentosa I

686 - D0208**A spontaneously occurring mouse Rp1 missense mutation causing outer segment shortening and progressive retinal degeneration**

D. Song; S. F. Grieco; A. Hunter; Y. Li; L. Shi; Q. Liu; E. A. Pierce; J. Lambris; P. M. Nishina; J. L. Dunaief

Scheie Eye Institute, University of Pennsylvania; Harvard Medical School; University of Pennsylvania; The Jackson Labs

Sunday, May 5, 2013

10:30 AM - 12:15 PM

132 Retinal and Photoreceptor Degeneration I: Cell Biology

723 - D0280**Sodium Iodate Induces Rapid Neuroretinal Dysfunction Prior To RPE Changes**

J. Wang; J. Iacovelli; C. Spencer; M. Saint-Geniez

Ophthalmology Department, Harvard Medical School

133 Oculoplastics and Orbital Disease: Surgical and Therapeutic Techniques

747 - D0406**Preservation of the inferomedial strut in endoscopic orbital decompression for thyroid orbitopathy reduces the rate of postoperative diplopia**

N. G. Lee; B. Bleier; S. K. Freitag

Massachusetts Eye and Ear Infirmary

Sunday, May 5, 2013

1:00 PM - 2:45 PM

134 Pharmacological Interventions; Cellular Mechanisms; Electrophysiology

789 - A0124**Latanoprost Lowers Intraocular Pressure in Matrix Metalloproteinase 9-null Mice**

R. I. Haddadin; D. Oh; D. J. Rhee

Massachusetts Eye & Ear Infirmary

135 Cataract Surgery I

811 - B0035**Ophthalmic air filtration practices in hospital and community settings and its role in modern day surgery**

K. Ma; B. A. Henderson

Boston Medical Center; Ophthalmic Consultants of Boston; Harvard Medical School

135 Cataract Surgery I

816 - B0040**Cataract Surgery in Forme Fruste Megalocornea**

N. Warriar; M. K. Daly; D. Siracuse-Lee

Veterans Affairs Boston Health System; Boston University School Of Medicine

135 Cataract Surgery I

821 - B0045**Impact of Pre-operative Anterior Chamber Depth and Axial Length on Cataract Surgery Outcomes: Results of the Ophthalmic Surgical Outcomes Data Project**

A. Chomsky; N. Shekhawat; E. Baze; M. K. Daly; D. E. Vollman; M. G. Lawrence Vanderbilt University; VA Tennessee Valley Healthcare System; Michael E. Debakey VA Medical Center; Baylor College of Medicine; VA Boston Healthcare System; Boston University School of Medicine; St Louis VA Medical Center; Washington University School of Medicine; DoD/VA Vision Center of Excellence

137 Cornea and Cataract

873 - B0097**Scleritis Associated with Relapsing Polychondritis**

L. Gonzalez; M. Sainz de la Maza; N. Molina-Prat; D. Rojas Crutchik; P. P. Doctor; J. Tauber; C. Foster

Massachusetts Eye Research and Surgery Institution; Ocular Immunology and Uveitis Foundation; Hospital Clinic of Barcelona; Bay View Clinic; Tauber Eye Center

138 Dry Eye and Lacrimal Gland I

939 - B0244**The Relationship between Ocular Surface Epithelial Damage and Tear Abnormalities: Osaka Study**

H. Kato; N. Yokoi; A. Komuro; Y. Sonomura; Y. Uchino; M. Uchino; D. Murat; M. Kawashima; K. Tsubota; S. Kinoshita

Kyoto Prefectural University of Medicine; Keio University School of Medicine

Sunday, May 5, 2013

1:00 PM - 2:45 PM

138 Dry Eye and Lacrimal Gland I

940 - B0245

Association of Dry Eye Disease with Physical Activity and Sleep Quality: Osaka study

M. Kawashima; M. Uchino; N. Yokoi; Y. Uchino; M. Dogru; A. Komuro; Y. Sonomura; H. Kato; S. Kinoshita; K. Tsubota
Keio University School of Medicine; Kyoto Prefectural University of Medicine

139 Ocular Surface and Tear Film

972 - B0277

Differential effect of Th1- and Th2-type cytokines on rat conjunctival goblet cell function

L. Garcia-Posadas; D. Li; R. R. Hodges; M. A. Shatos; Y. Diebold; D. A. Dartt
IOBA-University of Valladolid; Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN); Schepens Eye Research Institute/Massachusetts Eye and Ear; Harvard Medical School

139 Ocular Surface and Tear Film

976 - B0281

Matrix Metalloproteinases-8, -9 and Myeloperoxidase are Elevated in the Tears of Patients with Ocular Cicatricial Pemphigoid and Stevens-Johnson Syndrome

S. N. Arafat; A. M. Suelves; S. J. Spurr-Michaud; J. Chodosh; C. Foster; C. H. Dohlman; I. K. Gipson
Massachusetts Eye and Ear Infirmary; Schepens Eye Research Institute, Massachusetts Eye and Ear Infirmary; Massachusetts Eye Research and Surgery Institution

139 Ocular Surface and Tear Film

978 - B0283

Autologous Serum Tears May Result in Subclinical Changes in Corneal Immunity: An In Vivo Confocal Microscopy Study

A. Kheirkhah; S. Aggarwal; B. M. Cavalcanti; D. Witkin; N. Wong; M. Trinidad; C. Williams; R. Dana; P. Hamrah
Massachusetts Eye and Ear Infirmary, Harvard Medical School; Massachusetts Eye and Ear Infirmary, Harvard Medical School

140 Cell and Molecular Biology and Stem Cells

981 - B0286

Differentiation Potential of Limbal Fibroblasts and Bone Marrow Mesenchymal Stem Cells to Corneal Epithelial Cells

K. Katikireddy; R. Dana; U. V. Jurkunas
Schepens Eye Research Institute and Massachusetts Eye and Ear, Department of Ophthalmology, Harvard Medical School.

142 Drug Delivery I

1078 - C0055

A Pilot Safety Assessment of a Topical Ocular Device (TODDD™) Intended for Sustained Drug Delivery

C. D. Leahy; R. Gutner; W. Varney; J. Rulander; S. Johnston; F. S. Lai; K. S. Crawford; R. Albright; J. Y. Ellis; E. J. Ellis
Vista Scientific LLC; New England College of Optometry; PharmOcu; University of Massachusetts Lowell-Massachusetts Medical Device Development Center; Foresight Regulatory Strategies, Inc.

142 Drug Delivery I

1096 - C0073

VITAMIN E INCREASES THE BIOACTIVITY IN RETINAL CELLS OF MICROENCAPSULATED GLIAL CELL LINE DERIVED NEUROTROPHIC FACTOR

I. Bravo-Osuna; P. Checa-Casalengua; C. Jiang; B. A. Tucker; I. T. Molina-Martínez; M. J. Young; R. Herrero-Vanrell
University Complutense of Madrid; Harvard University; University of Iowa

Sunday, May 5, 2013

1:00 PM - 2:45 PM

144 Diabetic Retinopathy, Vein Occlusion, Retinal Ischemia

1128 - D0032

Correlation of the Aqueous and Vitreous Proteomes in Diabetic Eye Disease

N. N. Haddad; J. K. Sun; M. Molla; P. G. Arrigg; S. T. Shah; D. K. Schlossman; T. J. Murtha; E. P. Feener; L. P. Aiello
Joslin Diabetes Center; Harvard Medical School; Harvard Medical School; Joslin Diabetes Center

144 Diabetic Retinopathy, Vein Occlusion, Retinal Ischemia

1137 - D0041

Plasma Kallikrein Deficiency is protective against diabetes induced retinal vascular dysfunction

A. Clermont; Q. Zhou; T. Kita; J. Liu; L. P. Aiello; E. P. Feener
Joslin Diabetes Center; Joslin Diabetes Center; Harvard Medical School

145 Retinal Regeneration and Cell Biology of the Retina and RPE - I

1161 - D0305

Synchronization of the Clock in RPE Cells Promotes Reentry into the Cell Cycle

D. J. Ramsey; K. M. Ramsey; D. Vavvas
Massachusetts Eye and Ear Infirmary; Northwestern University Feinberg School of Medicine

145 Retinal Regeneration and Cell Biology of the Retina and RPE - I

1166 - D0310

Absence of ephrin-A2/A3 promotes photoreceptor regeneration in rhodopsin knockout mice

R. Zhu; K. Cho; Y. Fang; C. Xu; L. Yang; D. F. Chen
Department of Ophthalmology, 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; Shanghai Eye and ENT hospital; Boston VA Healthcare System

ARVO Annual Meeting Poster Sessions

Monday, May 6, 2013

8:30 AM – 4:30 PM

Washington State Convention Center

Level 4 Exhibit Halls

Session Date

Session Time

Session ID & Title

Poster ID – Poster # (A & B = South Exhibit Hall; C & D = North Exhibit Hall)

Abstract Title

Authors

Affiliations

Monday, May 6, 2013

8:30 AM - 10:15 AM

227 Genetics of Inherited Eye Disease

1314 - A0008

Waf3 is required for photoreceptor sensory cilia (PSC) formation

J. Zhang; Q. Zhang; C. Zhang; C. Wu; E. A. Pierce; Q. Liu

Massachusetts Eye and Ear Infirmary, Harvard Medical School

227 Genetics of Inherited Eye Disease

1315 - A0009

A 353-bp Alu insertion in MAK is a prevalent cause of recessive retinitis pigmentosa in North American Jewish patients

C. Rivolta; G. Venturini; S. Harper; H. Koskiniemi; E. L. Berson

University of Lausanne; Harvard Medical School, Massachusetts Eye and Ear Infirmary

227 Genetics of Inherited Eye Disease

1331 - A0025

Genetic and clinical features of FEVR and Norrie disease

E. Arai; T. Fujimaki; A. Miyazaki; K. Fujiki; F. Iwata; T. Inomata; H. Kawano; T. Yokoyama; A. Okumura; A. Murakami

Juntendo University School of Medicine; The Tokyo Metropolitan Children's Medical Center; Iwata Ophthalmology Clinic; Juntendo University Nerima Hospital; Juntendo University School of Medicine

227 Genetics of Inherited Eye Disease

1354 - A0048

Multiplex Ligation-dependent Probe Amplification (MLPA) for detection of large deletions in CYP1B1 in congenital glaucoma patients from the US

K. Allen; M. Janessian; K. Linkroum; W. Abdrabou; J. L. Wiggs

Massachusetts Eye and Ear Infirmary

227 Genetics of Inherited Eye Disease

1355 - A0049

Clinical features of OPA1-related optic neuropathy: a retrospective case series

E. Gaier; P. Skidd; M. Janessian; S. Lessell; D. Cestari; J. F. Rizzo; J. L. Wiggs

University of Connecticut Health Center; University of Connecticut Health Center; Massachusetts Eye and Ear Infirmary; Massachusetts Eye and Ear Infirmary; Massachusetts Eye and Ear Infirmary; Harvard Medical School

229 Ocular Nanotherapy, Nanoparticles, and Gene Therapy

1383 - B0001

Use of Polymeric Scaffolds as Extracellular Matrix Substitutes for Conjunctival Epithelial Repair

T. Storr-Paulsen; M. Fullana; A. L. Wang; D. Karamichos; T. P. Utheim; M. A. Shatos; J. Hjortdal; G. E. Wnek; D. A. Dartt

Schepens Eye Research Institute, Massachusetts Eye and Ear, Harvard Medical School; Case Western Reserve University; Aarhus University Hospital NBG; Oslo University Hospital

Monday, May 6, 2013

8:30 AM - 10:15 AM

233 Binocular Vision and Age Effects on Vision

1528 - B0314

Online Assessment of Contrast Sensitivity and Hallucinations in Parkinson's Disease

M. Jackson; J. Wallis; P. Wicks; P. Bex

Massachusetts Eye & Ear Infirmary; PatientsLikeMe Research

235 Ocular Disease Expression, Proteomics, Biomarkers, and Polymorphisms

1579 - D0006

Genetic Heterogeneity Among Patients with Pericentral Retinitis Pigmentosa

J. Comander; A. Langsdorf; S. Harper; C. Weigel-DiFranco; M. B. Consugar; M. Sandberg; X. Gai; J. A. White; E. L. Berson; E. A. Pierce

Massachusetts Eye and Ear Infirmary, Harvard Medical School; Massachusetts Eye and Ear Infirmary, Harvard Medical School; Loyola University Chicago Health Sciences Division

235 Ocular Disease Expression, Proteomics, Biomarkers, and Polymorphisms

1581 - D0008

Comprehensive genetic analysis of an Usher I patient cohort

K. M. Bujakowska; E. Place; M. B. Consugar; D. G. Taub; A. Langsdorf; C. Weigel-DiFranco; S. Harper; X. Gai; E. L. Berson; E. A. Pierce

Massachusetts Eye and Ear Infirmary, Harvard Medical School; Harvard Medical School, Massachusetts Eye and Ear Infirmary; Loyola University Chicago Health Sciences Division

235 Ocular Disease Expression, Proteomics, Biomarkers, and Polymorphisms

1584 - D0011

Colorimetric Image Analysis in Detection of Leukocoria from Retinoblastoma in Snapshots Taken by Standard Digital Photography

K. E. Talcott; E. Shaw; R. Holden; B. W. Taylor; E. J. Baker; G. Hamerly; A. Kentsis;

S. Mukai; C. Rodriguez-Galindo; B. F. Shaw

Massachusetts Eye and Ear Infirmary; Dana Farber Cancer Institute; Baylor University; Baylor University

236 Glaucoma Biochemistry and Mechanisms

1609 - D0036

Soluble guanylate cyclase: an emerging therapeutic target in open angle glaucoma

E. S. Buys; Y. Ko; C. Alt; H. Gong; P. Brouckaert; J. L. Wiggs; M. S. Gregory-Ksander; L. R. Pasquale; K. D. Bloch; B. R. Ksander

Massachusetts General Hospital; Schepens Eye Research Institute; Massachusetts General Hospital; Boston University School of Medicine; Ghent University; Massachusetts Eye and Ear Infirmary; Brigham and Women's Hospital; Massachusetts General Hospital

Monday, May 6, 2013

8:30 AM - 10:15 AM

238 Corneal Endothelium

1646 - D0281

Cyclosporin A inhibits cell death of Corneal Endothelial Cells by protecting mitochondrial membrane potentialT. Funaki; K. Ohtomo; M. Yamaguchi; A. Matsuda; A. Murakami
Juntendo Univ School of Medicine

238 Corneal Endothelium

1670 - D0305

Oxidative Stress Causes Mitochondrial Dysfunction in Human Corneal Endothelial CellsT. Schmedt; C. E. Hamill; Y. Chen; U. V. Jurkunas
Schepens Eye Research Inst; Massachusetts Eye and Ear

238 Corneal Endothelium

1697 - D0332

The roles of TWEAK in human corneal endothelial cellsM. Yamaguchi; N. Ebihara; T. Funaki; A. Murakami; S. Yamagami
Juntendo University; Tokyo University

Monday, May 6, 2013

11:00 AM - 12:45 PM

250 Oxidative/ER Stress and Autophagy in RPE and Retina

1781 - A0127

Evidence for baseline abnormalities in the retinal vascular network of Trp1-Cre miceA. Thanos; A. Al Moujahed; L. H. Young; D. Vavvas
Massachusetts Eye & Ear Infirmary

250 Oxidative/ER Stress and Autophagy in RPE and Retina

1796 - A0142

PGC-1 isoforms regulate photoreceptor response to photo-oxidative stress: relevance to retinal degenerative diseasesJ. Iacovelli; Z. Arany; M. Saint-Geniez
Massachusetts Eye and Ear Infirmary; Beth Israel Deaconess Medical Center ;
Harvard Medical School; Harvard Medical School

250 Oxidative/ER Stress and Autophagy in RPE and Retina

1810 - A0156

Receptor-Interacting Protein Kinases and the NLRP3 Inflammasome Mediate Tamoxifen Toxicity of the Retinal Pigment EpitheliumL. A. Kim; D. Amarnani; W. A. Tseng; D. Vavvas; P. A. D'Amore
Massachusetts Eye and Ear Infirmary, Harvard Medical School; Schepens Eye
Research Institute

251 Cataract Surgery II

1826 - A0172

Impact of intra-operative floppy iris and use of pupillary expansion devices on intra-operative complication rates in cataract surgery: results of the Ophthalmic Surgical Outcomes Data ProjectD. E. Vollman; A. Chomsky; E. Baze; M. K. Daly; M. G. Lawrence
Washington University School of Medicine; St. Louis VA Medical Center;
Vanderbilt Eye Institute, Vanderbilt University School of Medicine; VA
Tennessee Valley Healthcare System Center; Michael E. DeBakey VA Medical
Center; Cullen Eye Institute, Baylor College of Medicine; VA Boston Healthcare
System; Boston University School of Medicine; VA/DoD Vision Center of
Excellence

251 Cataract Surgery II

1836 - A0182

Phacoemulsification Parameters and Measures of Corneal EdemaM. M. Wong; A. Shukla; W. M. Munir
Boston Univ School of Med; Massachusetts Eye and Ear Infirmary

Monday, May 6, 2013

11:00 AM - 12:45 PM

252 Lasers; Structure and Function I

1857 - B0111

Longitudinal evaluation of selective laser trabeculoplasty repeatability in eyes with pseudoexfoliation glaucomaE. D. Golez; M. A. Latina
Massachusetts Eye and Ear Infirmary; Tufts University School of Medicine

255 Retina/RPE: New Drugs, Mechanisms of Action, and Toxicity

1938 - C0152

Conversion to aflibercept for chronic refractory or recurrent neovascular age-related macular degenerationY. Yonekawa; J. B. Miller; J. I. Loewenstein; L. Sobrin; D. Elliott; D. Vavvas; J. W. Miller; C. M. Andreoli; I. K. Kim
Massachusetts Eye and Ear Infirmary; Harvard Vanguard Medical Associates

255 Retina/RPE: New Drugs, Mechanisms of Action, and Toxicity

1940 - C0154

Comparison of the toxicity of different drug delivery nanoparticles in RPE and photoreceptor cellsY. Yan; H. Lin; H. Matsumoto; P. Bouzika; J. W. Miller; D. Vavvas
Massachusetts Eye and Ear Infirmary, Harvard Medical School

255 Retina/RPE: New Drugs, Mechanisms of Action, and Toxicity

1957 - C0171

Blocking the necroptosis pathway decreases RPE and photoreceptor damage induced by NaIO3H. Lin; M. Roh; H. Matsumoto; A. H. Alhateem; P. Bouzika; Y. Murakami; J. W. Miller; D. Vavvas
Massachusetts Eye and Ear, Harvard Medical School

257 Retina/RPE: Molecular and Cell Biology

2014 - D0045

Analysis of Human Retinal Pigment Epithelium (RPE) Morphometry in the Macula of the Normal Aging EyeS. K. Arora; A. Rashid; M. A. Chrenek; Q. Zhang; S. Park; H. E. Grossniklaus; J. M. Nickerson
Emory University School of Medicine

257 Retina/RPE: Molecular and Cell Biology

2015 - D0046

Spatial Analysis of Morphometry of Retinal Pigment Epithelium in the Normal Human EyeA. Rashid; S. K. Arora; M. A. Chrenek; S. Park; Q. Zhang; J. M. Nickerson; H. E. Grossniklaus
Emory University School of Medicine; Emory University School of Medicine

257 Retina/RPE: Molecular and Cell Biology

2016 - D0047

AMP-activated Protein Kinase Suppresses Matrix Metalloproteinase-9 Expression and Cell Migration of Mouse Retinal Pigment EpitheliumY. Morizane; K. Takeuchi; J. Suzuki; T. Yoshimura; Y. Murakami; M. Kayama; F. Kumase; B. Viollet; J. W. Miller; D. Vavvas
Massachusetts Eye and Ear Infirmary; Okayama University Graduate School of
Medicine, Dentistry and Pharmaceutical Sciences; INSERM

258 Immune Responses and Immunopathology

2036 - D0175

Association of Thrombospondin-1 Polymorphism with Predisposition to Chronic Dry EyeL. Contreras-Ruiz; B. Turpie; D. S. Ryan; R. K. Sia; K. S. Bower; D. A. Dartt; S. Masli
Boston University School of Medicine; U.S. Army Warfighter Refractive Surgery
Research Center; The Johns Hopkins School of Medicine; Department of
Ophthalmology Harvard Medical School

Monday, May 6, 2013

11:00 AM - 12:45 PM

258 Immune Responses and Immunopathology

2038 - D0177**What Is the Lineage of IL-17+IFN- γ +CD4+ T Cells in Dry Eye Disease?**

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

Schepens Eye Research Ins /MEEI

258 Immune Responses and Immunopathology

2047 - D0186**Immunomodulatory therapy and multiple sclerosis-associated uveitis**

G. T. Markov; K. Vongpaisarnsin; C. Foster

University Eye Hospital "Professor Pashev"; Massachusetts Eye Research and Surgery Institution; Harvard Medical School

258 Immune Responses and Immunopathology

2052 - D0191**Response of uveitis-related retinal vasculitis to therapy with systemic infliximab**

P. K. Sharma; G. T. Markov; C. Foster

Massachusetts Eye Research and Surgery Institution; VSS Medical College, Burla; University Eye Hospital "Professor Pashev"; Harvard Medical School

259 Corneal Immunology, Allergy, Neovascularization

2054 - D0193**The Effect of Trigeminal Neurons on the Expression of Maturation Markers by Bone Marrow-Derived Dendritic Cells**

S. Lee; W. Stevenson; K. Katikireddy; H. Lee; T. H. Dohlman; S. K. Chauhan; J. Hua; Z. Sadrai; M. Omoto; R. Dana

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

259 Corneal Immunology, Allergy, Neovascularization

2056 - D0195**Host Mesenchymal Stem Cells Home to Transplanted Cornea and Promote Allograft Survival**

M. Omoto; Y. Jin; S. K. Chauhan

Harvard Medical School

259 Corneal Immunology, Allergy, Neovascularization

2061 - D0200**In Vivo Administration of Interleukin-2 Increases Corneal Allograft Survival through Expansion of CD4+CD25+ T Regulatory Cells**

M. Tahvildari; P. Emami-Naeini; Y. Chen; M. Omoto; J. Hua; S. K. Chauhan; R. Dana

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

259 Corneal Immunology, Allergy, Neovascularization

2063 - D0202**Morphologic Dendritic Immune Cells Parameters Reveal Differential Characteristics between the Central and Peripheral Cornea: an In Vivo Confocal Microscopy Normative Data**

C. M. Colon; B. M. Cavalcanti; S. Aggarwal; A. Cruzat; C. Williams; D. Critser; A. Watts; C. W. Sindt; P. Hamrah

Massachusetts Eye & Ear Infirmary, Harvard Medical School; Massachusetts Eye & Ear Infirmary, Harvard Medical School; Massachusetts Eye & Ear Infirmary, Harvard Medical School; University of Iowa

259 Corneal Immunology, Allergy, Neovascularization

2071 - D0210**Bilateral Up-regulation of Limbal Intravascular Adhesion Molecules Mediates Cell Infiltration into the Cornea after Unilateral Trigeminal Nerve Axotomy**

D. L. Harris; T. Yamaguchi; A. Turhan; U. von Andrian; P. Hamrah

Schepens Eye Research Inst; Mass. Eye and Ear; Immune Disease Institute

Monday, May 6, 2013

11:00 AM - 12:45 PM

260 Conjunctiva Cell Biology

2110 - D0337**Carboxypeptidase A3 expression in intraepithelial mast cells of chronic allergic conjunctivitis**

K. Hori; N. Ebihara; T. Funaki; K. Ohtomo; Y. Asada; A. Murakami; A. Matsuda

Juntendo Univ School of Med

260 Conjunctiva Cell Biology

2114 - D0341**Resolvin D1 Receptor Activation Counter-regulates H1 histamine receptors in human and rat conjunctival goblet cells**

R. R. Hodges; D. Li; R. B. Carozza; M. A. Shatos; N. Chiang; C. N. Serhan; D. A. Dartt

Schepens Eye Research Institute, Massachusetts Eye and Ear; Harvard Medical School; Harvard Medical School; Brigham and Women's Hospital

Monday, May 6, 2013

2:45 PM - 4:30 PM

285 Stem and iPS Cells

2235 - A0104**Immunohistochemical and histopathological characterization of allogenic GFP + pig retinal progenitor cells after transplantation into the sub-retinal space**

M. Abud; P. Y. Baranov; C. Hicks; S. Patel; J. Sinden; C. V. Regatieri; D. L. Isaac;

M. Ávila; M. J. Young

MEEI/SERI/Harvard Medical School; Federal University of Goiás; Reneuron

292 Phototransduction, Retinal Development, Molecular Biology and Biochemistry

2475 - D0080**Oligonucleotide-mediated gene correction in human primary fibroblasts**

M. M. Staniszewska; M. B. Consugar; M. H. Farkas; E. A. Pierce

Department of Ophthalmology, Massachusetts Eye and Ear Infirmary, Harvard Medical School

296 Autoimmune Ocular Disease/Allergy

2528 - D0133**Increased reliability of diagnosis of ocular cicatricial pemphigoid using avidin-biotin complex immunoperoxidase technique**

S. D. Anesi; P. Artornsombudh; C. Foster

Massachusetts Eye Research & Surgery Institution

296 Autoimmune Ocular Disease/Allergy

2540 - D0145**Treatment of Pediatric Uveitis with Adalimumab: The MERSI Experience**

C. P. Castiblanco; C. Foster

Massachusetts Eye and Research Institution

296 Autoimmune Ocular Disease/Allergy

2546 - D0151**Cytosine Arabinoside for the treatment of Ocular Inflammatory disorders: a pilot study**

M. Shaikh; S. S. Siddique; M. S. Dacey; C. Foster

George Washington University Hospital; Ocular immunology and uveitis foundation

297 Corneal Epithelium and Imaging II

2599 - D0399**In Vivo Morphology of the Limbal Palisades of Vogt Correlates with Progressive Stem Cell Deficiency in Aniridia-Related Keratopathy**

T. P. Utheim; N. S. Lagali; U. Eden; X. Chen; R. Riise; A. Dellby; P. Fagerholm

Oslo University Hospital; SynsLaser Kirurgi AS; Faculty of Health Sciences Linköping University; Inlandet Hospital

Monday, May 6, 2013

2:45 PM - 4:30 PM

297 Corneal Epithelium and Imaging II

2600 - D0400

Laser In Vivo Confocal Microscopy Demonstrates Diminishment of Subbasal Nerve Plexus in Early Stage Fuchs Endothelial Corneal Dystrophy

S. Aggarwal; B. M. Cavalcanti; A. Cruzat; L. Regali; U. V. Jurkunas; P. Hamrah
Massachusetts Eye & Ear Infirmary

297 Corneal Epithelium and Imaging II

2602 - D0402

Incidence and type of higher order corneal aberrations in the cataract population

N. M. Vyas; B. A. Henderson

Boston University; Ophthalmic Consultants of Boston

ARVO Annual Meeting Poster Sessions

Tuesday, May 7, 2013

8:30 AM – 4:30 PM

Washington State Convention Center

Level 4 Exhibit Halls

Session Date

Session Time

Session ID & Title

Poster ID – Poster # (A & B = South Exhibit Hall; C & D = North Exhibit Hall)

Abstract Title

Authors

Affiliations

Tuesday, May 7, 2013

8:30 AM - 10:15 AM

311 Diabetic Retinopathy and Vascular Biology I

2704 - A0026

Neuronal Socs3 deficiency promotes pathologic retinal angiogenesis

Y. Sun; J. Joyal; A. Stahl; C. G. Hurst; Z. Cui; L. Evans; Z. Fu; Z. Shao; J. Chen; L. E. Smith

Harvard Medical School/Boston Children's Hospital

312 Gene Therapy

2718 - A0162

Comparison of Adeno-Associated Viral Vector Serotypes for Gene Transfer To Corneal Endothelial Cells

T. A. Fuchsluger; C. Mueller; R. Dana

Heinrich-Heine-University Hospital; University of Massachusetts Medical School; Schepens Eye Research Institute

312 Gene Therapy

2722 - A0166

Subretinal Injection of AAV2-CMV-hEPO to Diabetic Retina is Protective and Safe

H. Xu; J. Zhang; L. Zhang; L. Gu; L. Lu; W. Li; G. Xu

Tongji University School of Medicine (TUSM); Tongji University School of Medicine (TUSM); Tongji University School of Life Sciences and Technology; Drexel University College of Medicine

312 Gene Therapy

2731 - A0175

AAV8 mediated gene therapy for corneal cystinosis

D. H. Nguyen; H. Du; M. Bedell; S. Grob; J. Luo; J. L. Quach; P. Shaw; S. Cherqui; K. Zhang

University of California San Diego; Scripps Research Institute

312 Gene Therapy

2734 - A0178

Transfer of TACSTD2 Gene into Corneal Epithelial Cells of Gelatinous Drop-Like Corneal Dystrophy and Its Functional Expression

T. Matsunaga; K. Kitazawa; K. Yamasaki; T. Sato; Y. Watanabe; T. Funaki; A. Matsuda; N. Ebihara; S. Kawasaki; A. Murakami

Juntendo University School of Medicine; SEED Co., Ltd.; Kyoto Prefectural University School of Medicine; Doshisha University

313 Low Vision Rehabilitation

2758 - B0012

Peripheral Prisms Increase Blindside Eye And Head Scanning Movements During Outdoor Walking In Hemianopes: Preliminary Results

M. Tomasi; J. Churchill; J. Wiegand; K. Houston; E. Peli; A. R. Bowers; G. Luo
Schepens Eye Research Institute

Tuesday, May 7, 2013

8:30 AM - 10:15 AM

313 Low Vision Rehabilitation

2759 - B0013

Perceptual-motor adaptation in hemianopes wearing peripheral prisms is possible: Preliminary results

K. Houston; J. Churchill; J. Wiegand; E. Peli; G. Luo; R. B. Goldstein; R. L. Woods; A. R. Bowers

Massachusetts Eye and Ear ; Massachusetts Eye and Ear; Harvard Medical School

313 Low Vision Rehabilitation

2761 - B0015

Analyses of contrast sensitivity assessments over time: A pilot study

X. Chen; L. A. Lesmes; J. Wallis; T. S. Wallis; M. Jackson; P. Bex
Massachusetts Eye and Ear Infirmary

313 Low Vision Rehabilitation

2762 - B0016

The Reliability of the quick CSF Method for Contrast Sensitivity Assessment in Low Vision

L. A. Lesmes; J. Wallis; M. Jackson; P. Bex

Harvard Medical School

314 Macular Disease other than AMD I

2798 - B0052

Visual and Anatomic Results of the Macula Society Photodynamic Therapy (PDT) for Central Serous Chorioretinopathy (CSC) Retrospective Study

J. I. Lim; A. R. Glassman; L. P. Aiello; U. Chakravarthy; C. J. Flaxel; R. F. Spaide
University of Illinois ; Jaeb Center for Health Research; Harvard Medical School;

Queens University ; Oregon Health and Sciences University; Vitreous Retina Macula Consultants; Macula Society

314 Macular Disease other than AMD I

2830 - B0084

Quantitative measurements of autofluorescence in Stargardt's disease

T. Duncker; T. R. Burke; J. P. Greenberg; W. Lee; T. Smith; S. H. Tsang; J. R. Sparrow; R. Allikmets; F. C. Delori

Columbia University; Harvard Medical School

315 Retinal Detachment I

2849 - B0158

Ranibizumab is a potential prophylaxis for proliferative vitreoretinopathy, a non-angiogenic blinding disease

S. Pennock; D. Kim; S. Mukai; M. Kuhnle; D. Chun; J. A. Matsubara; J. Z. Cui; P. e. Ma; D. Maberley; A. Kazlauskas

Schepens & MEEI; Harvard Medical School; Walter Reed Army Medical Center; University of British Columbia

Tuesday, May 7, 2013
8:30 AM - 10:15 AM

315 Retinal Detachment I
2851 - B0160

Membrane-bound Fas ligand has a critical role in photoreceptor cell death in an experimental model of retinal detachment

H. Matsumoto; Y. Murakami; D. Mantopoulos; G. Trichonas; J. W. Miller; M. S. Gregory-Ksander; B. R. Ksander; D. Vavvas
Massachusetts Eye and Ear Infirmary; Schepens Eye Research Institute

317 Posterior Segment Inflammation I
2939 - B0308

The Prevalence, Incidence and Risk Factors for Exudative Retinal Detachment in Uveitis

D. Shah; C. Newcomb; G. Levy-Clarke; R. B. Nussenblatt; J. T. Rosenbaum; E. B. Suhler; J. E. Thorne; C. Foster; D. A. Jabs; J. H. Kempen
University of Pennsylvania; University of Pennsylvania; University of Pennsylvania; Massachusetts Eye Research and Surgery Institution; National Institutes of Health ; National Institutes of Health ; Oregon Health and Science University;; Portland Veteran's Affairs Medical Center8;; The Johns Hopkins University;; The Johns Hopkins University;; Harvard Medical School; Mount Sinai School of Medicine; Mount Sinai School of Medicine

319 Cataract Surgery III
2996 - C0087

Impact of changes in attending staffing on major cataract complications at Veterans Affairs Boston Healthcare System

N. V. Moodabagil; J. Gonzalez Monroy; D. Trief; M. K. Daly
Veterans Affairs-Boston Healthcare System; Boston University School of Medicine; Massachusetts Eye and Ear Infirmary

319 Cataract Surgery III
3001 - C0092

Cataract Prevalence and Cataract Surgery Outcomes in Patients with Ocular Graft-Versus-Host Disease (GVHD)

U. S. Saboo; H. Shikari; R. Dana
Massachusetts Eye and Ear Infirmary, Schepens Eye Research Institute, Department of Ophthalmology, Harvard Medical School

319 Cataract Surgery III
3006 - C0097

Multifocal IOL implantation in Patients with Uveitis

S. Hu-Torres; R. Rasheed; C. Foster
Massachusetts Eye Research and Surgery Institution; Ocular Immunology & Uveitis Foundation; Harvard Medical School

321 Anatomy
3049 - C0212

Evaluating Choroidal Microvascular Angiogenesis by Choroid Sprouting Assay

Z. Shao; M. Friedlander; C. G. Hurst; Z. Cui; L. Evans; J. Chen; P. Sapiaha; S. Chemtob; J. Joyal; L. E. Smith
Harvard Medical School, Boston Children's Hospital; Research Centers of Hôpital Maisonneuve-Rosemont, University of Montreal; Research Centers of CHU Sainte-Justine

321 Anatomy
3058 - C0221

Effects of Retinopathy of Prematurity (ROP) on Intraocular Structures

J. D. Akula; R. J. Munro; A. Moskowitz; R. M. Hansen; T. Y. Chui; S. P. Prabhu; A. B. Fulton
Boston Children's Hospital; Harvard Medical School; Indiana University ; Boston Children's Hospital; Harvard Medical School

Tuesday, May 7, 2013
11:00 AM - 12:45 PM

338 Retinal Degeneration and Neuroprotection
3250 - A0041

Neuroprotective Effect of DHEA-derivative BNN27 against N-Methyl-D-Aspartate-induced Retinal Excitotoxicity in Mice

P. A. Tsoka; I. Charalampopoulos; A. Gravanis; D. Vavvas; M. K. Tsilimbaris
University of Crete, School of Medicine; Harvard Medical School; University of Crete, School of Medicine; University Hospital of Heraklion

338 Retinal Degeneration and Neuroprotection
3260 - A0051

Neuroprotective Effects of IGF-1 on Retinal Ganglion Cell Survival and Axonal Outgrowth

J. Ma; C. Guo; D. F. Chen; K. Lashkari
Schepens Eye Research Institute

338 Retinal Degeneration and Neuroprotection
3269 - A0060

Safety and Efficacy of Retinal Optogenetic Therapy in Canine Models

K. Willett; A. M. Maguire; J. A. Sahel; J. Bencicelli; B. Roska; S. A. Picaud; G. M. Acland; L. H. Vandenberghe; J. Bennett
University of Pennsylvania; L'institut de la Vision; Friedrich Miescher Institute; Howard Hughes Medical Institute; Cornell University; Schepens Eye Research Institute, Massachusetts Eye and Ear Infirmary, Harvard Medical School

339 AMD: New Drugs, Delivery Systems, and Mechanisms of Action
3272 - A0123

Rationale for Treating Wet AMD in Human Using an Oral Pill Consisting of a VEGFR/PDGFR Inhibitor X-82

C. Liang; D. M. Brown; N. A. Chaudhry; M. J. Elman; J. S. Heier
Xcovery, LLC; Retina Consultants of Houston; New England Retina Associates; Elman Retina Group; Ophthalmic Consultants of Boston

339 AMD: New Drugs, Delivery Systems, and Mechanisms of Action
3280 - A0131

Omega-3 long chain polyunsaturated fatty acids promote choroidal neovessel regression

R. Yanai; L. Mulki; K. Takeuchi; J. H. Sweigard; J. Suzuki; P. Y. Gaissert; D. Vavvas; W. Schunck; J. W. Miller; K. M. Connor
Massachusetts Eye & Ear Infirmary Harvard Medical School; Max Delbrück Center for Molecular Medicine

344 Cones and Outer Retina
3445 - C0166

Adaptive Optics Scanning Laser Ophthalmoscopy and High Resolution Imaging in Autosomal Dominant Retinitis Pigmentosa Caused by a Novel PRPF31 Nonsense Mutation

J. I. Morgan; M. Sivalingam; G. K. Han; A. M. Maguire; B. J. Forbes; X. Gai; E. A. Pierce; J. Bennett; D. C. Chung
University of Pennsylvania; Children's Hospital of Philadelphia; Loyola University Chicago; Massachusetts Eye and Ear Infirmary, Harvard Medical School

345 Corneal Surgery Non-refractive II and Keratoprosthesis
3459 - D0086

Boston type 1 keratoprosthesis: surgical indications, short term retention and achievement of 20/200 vision

K. Lo; K. Colby; J. Chodosh
Massachusetts Eye and Ear Infirmary

345 Corneal Surgery Non-refractive II and Keratoprosthesis
3460 - D0087

The Boston Keratoprosthesis Type I in Mucous Membrane Pemphigoid

S. Palioura; B. Kim; C. H. Dohlman; J. Chodosh
Massachusetts Eye & Ear Infirmary; University of Illinois at Chicago

Tuesday, May 7, 2013

11:00 AM - 12:45 PM

345 Corneal Surgery Non-refractive II and Keratoprosthesis

3466 - D0093

Anterior Segment Optical Coherence Tomography in Patients with Boston Type I Keratoprosthesis Allows Early Detection and Monitoring of Corneal and Scleral Melts

D. Sola-Del Valle; B. M. Cavalcanti; A. Cruzat; C. H. Dohlman; P. Hamrah
Massachusetts Eye & Ear Infirmary, Harvard Medical School Department of Ophthalmology; Massachusetts Eye & Ear Infirmary, Harvard Medical School Department of Ophthalmology

345 Corneal Surgery Non-refractive II and Keratoprosthesis

3467 - D0094

Scanning Laser Ophthalmoscope Microperimetry through the Boston Keratoprosthesis

R. R. Sayegh; C. H. Dohlman; M. Jackson
Massachusetts Eye & Ear Infirmary

345 Corneal Surgery Non-refractive II and Keratoprosthesis

3468 - D0095

Assessment of Titanium Modification for Coloring the Backplate of Boston Keratoprosthesis

E. I. Paschalis; J. Chodosh; S. J. Spurr-Michaud; A. Cruzat; A. Tauber; I. Behlau; I. K. Gipson; C. H. Dohlman
Massachusetts Eye and Ear Infirmary - Harvard Medical School; Schepens Eye Research Institute - Harvard Medical School

345 Corneal Surgery Non-refractive II and Keratoprosthesis

3478 - D0105

Polydopamine-coated and polyethylene glycol-impregnated corneas as tissue carriers for the Boston Keratoprosthesis

S. Bozorg; K. Jeong; S. N. Arafat; D. S. Kohane; C. H. Dohlman
Massachusetts Eye and Ear Infirmary; Children's Hospital Boston, Harvard Medical School

347 Trabecular Meshwork II

3549 - D0278

Overexpression of SPARC Upregulates Gremlin and Proteoglycans Opticin & Decorin

S. S. Swaminathan; D. Oh; D. J. Rhee
Massachusetts Eye & Ear Infirmary

347 Trabecular Meshwork II

3552 - D0281

Characterization of Sirtuin family protein expression in human trabecular meshwork cells

A. Chatterjee; S. S. Oh; G. Villarreal; D. J. Rhee
Massachusetts Eye and Ear Infirmary

348 Anterior Segment Imaging

3576 - D0305

Comparative Study of the Nidek Specular Microscope CEM-530 and the CELLCHEK XL Predicate Device for the Measurements of Endothelial Cell Density Measurements, Coefficient of Variation of Endothelial Cell Area, and percent Hexagonality

R. Kaiser; R. Bouchard; A. Shapiro; G. L. Torkildsen; J. B. Ciolino; T. Murata
Nidek Co, Inc; Ora, Inc.; Andover Eye Associates; Massachusetts Eye and Ear Infirmary

Tuesday, May 7, 2013

11:00 AM - 12:45 PM

349 Vitreoretinal Imaging

3624 - D0353

A Comparison of Short-Wavelength (488nm) and Near-infrared (787nm) Autofluorescence in Stargardt's Disease

W. Lee; T. Duncker; F. C. Delori; R. Allikmets; J. R. Sparrow
Columbia University; Schepens Eye Research Institute; Columbia University

Tuesday, May 7, 2013

2:45 PM - 4:30 PM

378 Corneal Wound Repair, Transparency I

3871 - D0115

Examination of Corneal Anatomy in Attempted Ninety Percent Depth Suture Repair of Traumatic Corneal Lacerations, Utilizing Post-Operative High Resolution Anterior Segment OCT Imaging

A. C. Lorch; P. Veldman
Massachusetts Eye & Ear Infirmary

378 Corneal Wound Repair, Transparency I

3907 - D0151

Role of Galectins in Corneal Nerve Regeneration

P. Hamrah; Z. Cao; D. L. Harris; T. Thitiprasert; L. Zheng; W. Chen; W. Schrems; T. Yamaguchi; N. A. Panjwani
Schepens Eye Research Institute/Massachusetts Eye and Ear; Harvard Medical School; Tufts Medical School

379 Perimetry II

3962 - D0250

Finding Patterns in Glaucomatous Visual Field Loss: Components, Prototypes, and Archetypes

T. Elze; L. R. Pasquale; L. Q. Shen; A. Turalba; T. C. Chen; D. J. Rhee; J. L. Wiggs; C. L. Grosskreutz; S. Brauner; P. Bex
Harvard Medical School; Massachusetts Eye and Ear Infirmary

380 Retinoblastoma: Experimental and Clinical

3972 - D0373

Metformin affects the growth and redox state of human retinoblastoma cells

K. A. Brodowska; E. S. Gragoudas; D. Vavvas
Mass Eye and Ear Infirmary

381 Amblyopia: Detection, Treatment and Mechanisms

3994 - D0407

Interocular suppression within the visual cortex of adults with strabismic amblyopia: an fMRI study

B. Thompson; G. Maehara; R. Farivar; B. Mansouri; S. R. Clavagnier; R. F. Hess
University of Auckland; Kanagawa University; McGill University; Harvard University

ARVO Annual Meeting Poster Sessions
 Wednesday, May 8, 2013
 8:30 AM – 4:30 PM

Washington State Convention Center
 Level 4 Exhibit Halls

Session Date
 Session Time
 Session ID & Title
Poster ID – Poster # (A & B = South Exhibit Hall; C & D = North Exhibit Hall)
 Abstract Title
 Authors
 Affiliations

Wednesday, May 8, 2013
 8:30 AM - 10:15 AM

413 AMD II, RE
4127 - A0045
Effects of Plasma Kallikrein on the neuroretina in diabetic rats
 G. WU; E. P. Feener
 Joslin Diabetes Center

415 Retinal and Photoreceptor Degeneration II: Cell Biology
4178 - B0171
Responsiveness of rhodopsin kinase GRK1 promoter activity to light
 S. C. Khani; Z. Oskouie
 Schepens Eye Research Inst

417 Accommodation and Presbyopia Correction
4270 - B0307
Age-related Stiffening of Human Lens Measured by In Vivo Brillouin Microscopy
 S. Besner; G. Scarcelli; R. Pineda; S. H. Yun
 Harvard Medical School; Massachusetts General Hospital; Massachusetts Eye and Ear Infirmary

419 Dry Eye and Lacrimal Gland IV
4313 - C0051
Isolation and characterization of progenitor cells from intact rabbit lacrimal gland
 H. He; G. Sun; H. Lin; M. A. Shatos; D. A. Dartt; S. C. Yiu
 Wilmer Eye Institute; Shepens Eye Research Institute; King Khaled Eye Specialist Hospital

419 Dry Eye and Lacrimal Gland IV
4316 - C0054
Suppressive effects of 17 β -estradiol on immortalized human meibomian gland epithelial cells
 W. R. Kam; D. A. Sullivan
 Harvard Medical School

419 Dry Eye and Lacrimal Gland IV
4317 - C0055
Impact of azithromycin on lipid accumulation in immortalized human meibomian gland epithelial cells
 Y. Liu; W. R. Kam; J. Ding; D. A. Sullivan
 Harvard Medical School

Wednesday, May 8, 2013
 8:30 AM - 10:15 AM

419 Dry Eye and Lacrimal Gland IV
4331 - C0069
Ocular Surface Disease Characteristics in Patients with Ocular Graft-versus-Host Disease (GVHD).
 H. Shikari; U. S. Saboo; R. Dana
 Massachusetts Eye and Ear Infirmary, Harvard Medical School; Schepens Eye Research Institute, Harvard Medical School

419 Dry Eye and Lacrimal Gland IV
4340 - C0078
Relating Improvements in Signs and Symptoms to Duration of Dry Eye Disease (DED) after Treatment with MIM-D3 Ophthalmic Solutions
 K. Meerovitch; T. Lama; D. A. Schaumberg
 Mimetogen Pharmaceuticals; Brigham & Women's Hospital, Harvard Medical School; McGill University; University of Utah School of Medicine

420 Neuro-Ophthalmology: Papilledema, Characterization of Rare Diseases, and Methods of Evaluation
4363 - D0001
Etiologies and visual outcomes in secondary pediatric intracranial hypertension
 W. Rhoades; G. Heidary
 Boston University Medical Center; Children's Hospital Boston

421 Eye Care
4394 - D0032
PROSE treatment for moderate to severe ocular graft-versus-host disease: Analysis of utilization rates versus projected demand across four centers
 R. Ridges; B. Beard; D. S. Jacobs
 Boston Foundation for Sight

421 Eye Care
4401 - D0039
Glaucoma Treatment: A Closer Look at Non-adherence
 S. Pandit; T. C. Chen
 Harvard Medical School; Mass Eye and Ear Infirmary

422 Ocular Trauma
4435 - D0120
Outcomes and characteristics of open-globe injuries with delayed presentation
 D. Trief; M. T. Andreoli; A. S. Shah; Y. Yonekawa; C. M. Andreoli
 Mass Eye and Ear Infirmary; Boston Children's Hospital; University of Illinois College of Medicine at Chicago; Harvard Vanguard Medical Associates

Wednesday, May 8, 2013

8:30 AM - 10:15 AM

423 Ocular Blood Flow; Surgery and Wound Healing

4485 - D0225

Functional and anatomic outcomes following endocyclophotocoagulation (ECP) surgery for neo-vascular glaucoma as compared to routine glaucoma care

K. V. Marra; S. Wagley; A. F. Omar; J. G. Arroyo

Beth Israel Deaconess Medical Center ; College of Human Medicine - Michigan State University; Joslin Diabetes Center

Wednesday, May 8, 2013

11:00 AM - 12:45 PM

436 AMD I, BI

4578 - A0097

AMD-associated silent polymorphisms in HtrA1 ameliorate IGF-1 antagonism

S. P. Jacobo; M. M. DeAngelis; A. Kazlauskas

Harvard Medical School; The Schepens Eye Research Institute; University of Utah; John A. Moran Eye Center

437 Translational Approaches in AMD and DR

4596 - A0147

The dual PPAR- α / γ agonist aleglitazar attenuates retinopathy in streptozotocin diabetic rats

R. de la Flor; M. B. Wright; A. P. Adamis; J. S. Ehrlich; D. T. Shima

UCL Institute of Ophthalmology; F. Hoffmann-La Roche Ltd; Genentech

438 Retinal Flow and VEGF

4630 - B0094

Antagonism of PDGFR β Inhibits Pericyte Recruitment in a Mouse Model of Corneal Neovascularization

A. Jensen; R. Cepeda; M. Maker; C. E. Bigelow; J. Ghosh; G. Li; P. A. D'Amore; G. Spohn; B. D. Jaffee; S. Azarian

Novartis; Schepens Eye Research Institute

438 Retinal Flow and VEGF

4657 - B0121

Periocular injection of a broad spectrum antiangiogenic therapy regresses choroidal neovascularization

O. Benny; Z. Chi; L. Bazinet; R. J. D'Amato

Harvard Medical School

439 Ocular Nanoimaging, Nanobiosensors and Nanodiagnostics

4680 - B0249

Fullerenol Protects RPE cells from Oxidative-stress Induced Premature Senescence via Activation of SIRT1G. Xu; C. Zhuge; J. Xu; J. Zhang; G. Xu; L. Chen; X. Liu; H. Xu; L. Lu; W. Li
Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences; Tongji Univ School of Medicine; Tongji University School of Medicine; Second Affiliated Hospital, Suzhou University; Drexel University College of Medicine

439 Ocular Nanoimaging, Nanobiosensors and Nanodiagnostics

4684 - B0253

Human retinal progenitor cells as a tool for retinal repair: establishing cell lines for clinical study

P. Y. Baranov; G. Brooke; S. Patel; M. J. Young; J. Sinden

Schepens Eye Research Institute; ReNeuron Ltd.

439 Ocular Nanoimaging, Nanobiosensors and Nanodiagnostics

4685 - B0254

Hybrid vitronectin-mimicking polycaprolactone scaffolds and human retinal progenitor cell composites

E. Lawley; P. Y. Baranov; M. J. Young

Schepens Eye Research Institute, Massachusetts Eye and Ear, an affiliate of Harvard Medical School; Exeter Medical School

Wednesday, May 8, 2013

11:00 AM - 12:45 PM

439 Ocular Nanoimaging, Nanobiosensors and Nanodiagnostics

4699 - B0268

Hybrid interphotoreceptor matrix – poly(caprolactone) scaffolds for human retinal progenitor cell culture and differentiation

M. J. Young; A. Michaelson; P. Y. Baranov; R. L. Carrier

Schepens Eye Research Inst, Massachusetts Eye and Ear, Harvard Medical School; Northeastern University

440 Strabismus: Treatment Methods

4711 - B0280

Adjustable-suture strabismus surgery: A new, removable, sliding noose

E. Deschler; K. Irsch; K. Guyton; D. L. Guyton

The Wilmer Eye Institute, The Johns Hopkins School of Medicine

441 Corneal Development, Differentiation, Dystrophies, Genetics

4726 - C0109

Impaired mitochondrial membrane potential in Fuchs endothelial corneal dystrophy

C. E. Hamill; T. Schmedt; Y. Chen; U. V. Jurkunas

Massachusetts Eye and Ear Infirmary; Schepens Eye Research Institute

442 Surgery and Wound Healing

4772 - D0156

Repairing filtration bleb leakage with FocalSeal[®] in rabbit model

T. Nagata; Y. Harada; H. Kondo; M. Arai; A. Tawara

University of Occupational and Environmental Health, Japan; Arai Eye Clinic; Schepens Eye Research Institute, Harvard Medical School

442 Surgery and Wound Healing

4782 - D0166

Investigation of the filtration surgery with FocalSeal[®] in rabbit's eyes

Y. Harada; T. Nagata; M. Arai; A. Tawara

University of Occupational & Environmental Health; Arai Eye Clinic; Harvard Medical School

443 Imaging III, GL

4813 - D0252

The Prevalence of Spectral Domain Optical Coherence Tomography Artifact Patterns in Different Subtypes of Open Angle Glaucoma and Normal Eyes

N. Baniasadi; E. I. Paschalis; T. C. Chen

Massachusetts Eye & Ear Infirmary/Harvard Medical School

445 Imaging of Animal Models

4871 - D0310

Quantitative Fundus Autofluorescence in Mice. Correlation with HPLC Quantitation of RPE Lipofuscin and Measurement of Retina Outer Nuclear Layer Thickness

J. R. Sparrow; A. M. Blonska; E. Flynn; T. Duncker; J. P. Greenberg; R. Secondi; K. Ueda; F. C. Delori

Columbia University; Columbia University; Harvard Medical School

445 Imaging of Animal Models

4875 - D0314

Multimodal adaptive optics imaging system (MAOS) for small animals

A. Patel; R. D. Ferguson; M. Mujat; N. Iftimia; J. D. Akula

Physical Sciences Inc; Children's Hospital Boston

445 Imaging of Animal Models

4894 - D0333

Imaging Functional Hyperemia in Response to Flicker Stimulus in the Rat Retina Using Ultrahigh-Speed Spectral / Fourier Domain OCT

W. Choi; A. Clermont; E. P. Feener; D. Boas; J. G. Fujimoto

MIT; Joslin Diabetes Center; Massachusetts General Hospital

Wednesday, May 8, 2013

11:00 AM - 12:45 PM

447 DME: OCT and Function

4922 - D0361

Retinal Perifoveal Inner Layer Disorganization as a Predictor of Visual Acuity Outcomes in Eyes with Center-involved Diabetic Macular Edema

M. M. Lin; R. Sarangi; J. Lammer; A. Y. Ganjei; S. Radwan; A. Z. Soliman; P. S. Silva; L. P. Aiello; J. K. Sun

Joslin Diabetes Center; Boston University School of Medicine; Medical University Vienna; University of Minnesota; Cairo University; Harvard Medical School

Wednesday, May 8, 2013

2:45 PM - 4:30 PM

466 AMD II, BI

4999 - A0128

Expression of VEGF-C, VEGF-D and their Cognate Receptors in Experimental Choroidal Neovascularization and Clinical AMD

K. Lashkari; J. Ma; G. Teague; J. G. Arroyo

Harvard Med School

466 AMD II, BI

5007 - A0136

Role of complement in altered RPE function and deposit formation in Efemp1 mutant mice: A primary cell culture model

R. Fernandez-Godino; E. A. Pierce; D. Garland

Ocular Genomics Institute. Mass Eye and Ear Infirmary. Harvard Medical School

466 AMD II, BI

5008 - A0137

Quantifying progression of disease in aging mouse and human RPE

J. M. Nickerson; X. Qi; T. Jiang; Y. Cheng; J. M. Zhang; M. A. Chrenek; A. Rashid; S. K. Arora; H. E. Grossniklaus; Y. Jiang

Emory Univ; Georgia State University; Yale University

468 Drug Delivery III

5073 - B0031

Sustained Delivery of Prostaglandin from Drug-Containing Depots Using Ocular Rings in Beagles

K. S. Crawford; J. Y. Ellis; J. Rulander; S. Johnston; F. S. Lai; E. J. Ellis; C. D. Leahy

PharmOcu; Vista Scientific, LLC; University of Massachusetts

469 Dysfunction in Disease: Translational Studies

5080 - B0038

Scotopic Spatial Summation in Retinopathy of Prematurity (ROP)

J. Tavormina; R. M. Hansen; A. Moskowitz; A. B. Fulton

Boston Children's Hospital; Harvard Medical School

471 Retinal Development II: Retina and Vasculature

5142 - B0146

Blood Vessel Pattern in Subjects with Albinism

M. Ehrenberg; R. M. Hansen; A. Moskowitz; A. B. Fulton

Boston Children's Hospital ; Harvard Medical School

473 Non-infectious Inflammation

5197 - C0012

Fluocinolone Acetonide Implants for Refractory Uveitis: a Retrospective Review

H. S. Sandhu; P. Pillai; G. N. Papaliadis

Massachusetts Eye and Ear Infirmary

473 Non-infectious Inflammation

5198 - C0013

Combination chemotherapy with Mycophenolate mofetil and Cyclosporin in recalcitrant uveitis

R. A. Rasheed; G. T. Markov; C. Foster

Wednesday, May 8, 2013

2:45 PM - 4:30 PM

Massachusetts Eye Research and Surgery Institution; Regional Institute of Ophthalmology; University Eye Hospital

473 Non-infectious Inflammation

5203 - C0018

Optic nerve spectral domain optical coherence tomography of papillitis secondary to uveitis

P. Pillai; L. Sobrin

Massachusetts Eye and Ear Infirmary

474 Corneal Infection/Inflammation I

5222 - C0141

Genomics of the Conjunctival Pathogen Streptococcus pneumoniae

M. Valentino; W. Haas; C. M. Sanfilippo; J. W. Rosch; E. I. Tuomanen; T. W. Morris; M. S. Gilmore

Harvard Medical School / Mass. Eye & Ear Infirmary; Bausch & Lomb, Inc.; St. Jude Children's Research Hospital

475 Corneal Wound Repair, Transparency II

5236 - C0155

The Effects of Amniotic Membrane Extract on Primary Human Corneal Epithelial Cells

D. V. Dudok; K. Cheung; H. Liu; L. Vedovelli; E. Ghinelli; K. Kenyon; S. Parapuram; C. M. Hutnik

Western University Canada; Massachusetts Eye & Ear Infirmary; Massachusetts General Hospital

476 Corneal Stroma and Keratocytes

5240 - C0159

Co-cultures of Human Corneal Epithelium and Self-assembled Keratocyte and Fibroblast Matrix

A. E. Hutcheon; D. Karamichos; X. Q. Guo; J. D. Zieske

Schepens Eye Research Institute/MEE; Harvard Medical School

477 Corneal Cross-linking and Keratoconus

5286 - C0205

Crosslinking Corneal Collagen using Rose Bengal and Green Light

I. E. Kochevar; T. Gisel; E. E. Verter; G. Scarcelli; S. H. Yun; R. H. Webb; R. W. Redmond; S. Melki

Massachusetts General Hospital; Boston Eye Group

478 Vision Function and Quality of Life

5337 - D0098

The Effect of Comprehensive Vision Rehabilitation on Self-Administration of Medication in Patients with Central Vision Loss

C. J. Choi; J. Wallis; M. Jackson

Massachusetts Eye and Ear Infirmary

479 Oculoplastics and Orbital Disease: Prognosis, Diagnosis and Outcomes

5344 - D0105

Orbital Cerebrospinal Fluid Leak Following Pterional Orbitozygomatic Craniotomy

Z. M. Alsadah; M. K. Yoon; T. J. McCulley

KKESH; Wilmer Eye Institute, Johns Hopkins; Massachusetts Eye and Ear Infirmary

479 Oculoplastics and Orbital Disease: Prognosis, Diagnosis and Outcomes

5346 - D0107

The effect of eyelid manipulation on exophthalmometry values

A. Gilbert; M. K. Yoon

Massachusetts Eye and Ear Infirmary

ARVO Annual Meeting Poster Sessions

Thursday, May 9, 2013
8:30 AM – 12:15 PM

Washington State Convention Center
Level 4 Exhibit Halls

Session Date
Session Time
Session ID & Title
Poster ID – Poster # (A & B = South Exhibit Hall; C & D = North Exhibit Hall)
Abstract Title
Authors
Affiliations

Thursday, May 9, 2013
8:30 AM - 10:15 AM

505 Ocular Surface in Health and Disease

5428 - A0127

Ocular surface findings associated to clinical signs of hyperandrogenism assessed by an innovative videodermoscopic method

I. Macchi; L. Guccione; F. Mantelli; A. Micera; C. G. Moretti; S. Bonini
campus biomedico university; San Giovanni Calibita Fatebenefratelli Hospital; IRCCS GB Bietti

505 Ocular Surface in Health and Disease

5429 - A0128

PROSE treatment for Ocular Surface Disease in patients with history of Stevens-Johnson Syndrome/Toxic Epidermal Necrolysis

T. D. Papakostas; H. Le; J. Chodosh; D. S. Jacobs
Massachusetts Eye & Ear Infirmary; Boston Foundation for Sight

507 Image Processing and Segmentation Algorithms

5497 - B0007

Tissue, microscopy, and computational techniques for mapping human retinal pigment epithelium cell number and autofluorescence

T. Ach; J. D. Messinger; M. J. Bentley; F. C. Delori; K. R. Sloan; C. A. Curcio
University of Alabama at Birmingham; University of Alabama at Birmingham; Schepens Eye Research Institute

509 Diabetic Retinopathy and Vascular Biology II

5574 - B0097

SOCS3 inhibits pathologic angiogenesis

J. Joyal; A. Stahl; Y. Sun; Z. Shao; Z. Fu; A. Juan; D. T. Pei; C. G. Hurst; J. Chen; L. E. Smith
Children's Hospital, Harvard Med Sch; University Eye Hospital Freiburg

509 Diabetic Retinopathy and Vascular Biology II

5575 - B0098

The Alternative Complement System Mediates Neovascularization in Retinopathy

J. H. Sweigard; R. Yanai; K. M. Connor; P. Y. Gaissert; A. Thanos
Harvard Medical School/MEEI

510 Glia in Health and Disease

5586 - B0109

The Time Course of Gene Expression during Reactive Gliosis in the Optic Nerve

J. Qu; T. C. Jakobs
Massachusetts Eye & Ear Infirmary

Thursday, May 9, 2013
8:30 AM - 10:15 AM

510 Glia in Health and Disease

5587 - B0110

Retinal Astrocytes in the Mouse Model of Oxygen-Induced Retinopathy

F. Bucher; A. Stahl; G. Martin; H. T. Agostini
University Eye Hospital Freiburg

511 Intraocular Pressure

5648 - C0034

The Role Of Ageing In Experimental Glaucoma

T. Vu; K. Cho; M. M. Jager; D. F. Chen
Schepens Eye Research Institute; Leiden University Medical Center

518 Vitreoretinal Surgery III

5785 - D0032

One Year Clinical Outcomes Of A Randomized Clinical Trial Investigating Pre-operative Adjunctive Bevacizumab For Tractional Retinal Detachment (TRD) Due To Proliferative Diabetic Retinopathy (PDR)

E. O. Tegins; M. Javaheri; D. Elliott; L. A. Kim; H. Salehi-Had; D. R. Hinton; E. H. Sohn
University of Iowa; University of Southern California and Los Angeles County Hospitals; Keck School of Medicine, University of Southern California; Massachusetts Eye and Ear Infirmary; Atlantis Retina Institute

518 Vitreoretinal Surgery III

5810 - D0057

Temporal pattern of macular thickness resolution and visual acuity improvement after epiretinal membrane peel surgeries

A. Campbell; D. Vavvas
Massachusetts Eye and Ear

520 Imaging II, RE

5869 - D0180

Novel and safe technique for smartphone fundus photography: Application in human and animal eyes

L. J. Haddock; D. Kim; F. C. Delori; S. Mukai
Massachusetts Eye and Ear Infirmary; Schepens Eye Research Institute

Thursday, May 9, 2013

10:30 AM – 12:15 PM

535 Dry Eye and Lacrimal Gland V

6009 - A0072

Symptoms and Findings in a Norwegian Cohort of Patients with Meibomian Gland Dysfunction

O. M. Rygh; J. Eidet; X. Chen; T. P. Utheim; A. Thyholdt; O. Utheim; F. Stojanovic; A. Stojanovic; S. Raeder
Torreoyneklivnikken AS; Hospital of Vestfold; Oslo University Hospital Ullevål, University of Oslo; dbConsult; Synslaser Kirurgi; University of Bergen

Thursday, May 9, 2013

10:30 AM – 12:15 PM

537 Cell Biology of the Retina and RPE II

6071 - B0142**Iron Upregulates Melanogenesis Genes in the RPE**

N. Wolkow; A. Maminishkis; J. Iacovelli; J. C. Lee; S. S. Miller; J. L. Dunaief
The Raymond and Ruth Perelman School of Medicine at the University of Pennsylvania; Salus University; Harvard Medical School; National Institutes of Health

541 Genetic Risk Factors for Common Eye Disorders with Complex Inheritance

6206 - C0091**Systems Genetics of Intraocular Pressure—Mice to Humans: The Use of BXD Murine Reference Panel for Identifying Novel Genetic Modulators of Glaucoma and Bidirectional Translation**

M. M. Jablonski; S. Swaminathan; H. Lu; J. L. Wiggs; R. W. Williams; L. Lu
Univ Tennessee Health Sci Ctr; The University of Tennessee Health Science Center; Harvard Medical School MEEI

541 Genetic Risk Factors for Common Eye Disorders with Complex Inheritance

6208 - C0093**COCH Variants are not Associated with Primary-open Angle Glaucoma or Intraocular Pressure in Caucasians**

D. Wang; B. Fan; Y. Liu; M. A. Hauser; R. Allingham; J. L. Haines; J. L. Wiggs
Massachusetts Eye & Ear Infirmary; Duke University Medical Center; Duke University Medical Center; , Vanderbilt University School of Medicine

541 Genetic Risk Factors for Common Eye Disorders with Complex Inheritance

6209 - C0094**Family-based Genome-wide Association Study in South Indian Consanguineous Pedigrees confirms association between *ZNF469* and central corneal thickness**

B. Fan; N. Soumitra; S. Sripriya; D. S. Friedman; V. Lingam; J. L. Haines; R. J. George; J. L. Wiggs
Harvard Med Sch Massachusetts Eye & Ear Infirmary; Sankara Nethralaya; Johns Hopkins Medical School Wilmer Eye Institute; Sankara Nethralaya; Vanderbilt University School of Medicine

542 Genetics II

6226 - C0111**Mouse Genomic Loci Modulating Ganglion Cell Loss in Glaucoma**

E. E. Geisert; S. G. Hart; X. Wang; J. L. Wiggs
Univ of Tennessee Health Sci Ctr; Harvard Medical School

542 Genetics II

6230 - C0115**Mouse Genomic Loci Modulating Corneal Thickness**

X. Wang; S. G. Hart; J. L. Wiggs; E. E. Geisert
University of Tennessee Health Science Center; Mass Eye & Ear Infirmary

542 Genetics II

6234 - C0119**The association between CAV1/2 region loci and their relation with primary open angle glaucoma**

S. Loomis; L. R. Pasquale; J. H. Kang; M. A. Hauser; B. Yaspan; J. L. Haines; J. L. Wiggs
Massachusetts Eye and Ear Infirmary; Channing Division of Network Medicine; Vanderbilt University; Duke University; Duke University Medical Center

Thursday, May 9, 2013

10:30 AM – 12:15 PM

542 Genetics II

6239 - C0124**Rare Genetic Variants in African Americans with Primary Open Angle Glaucoma**

A. E. Ashley-Koch; X. Qin; J. Gibson; Y. Liu; J. L. Wiggs; J. E. Richards; S. E. Moroi; C. A. Girkin; R. Allingham; M. A. Hauser
Duke University Medical Center; Duke University Medical Center; Harvard Medical School; University of Michigan Medical School; University of Alabama at Birmingham School of Medicine

543 Proliferative Vitreoretinopathy

6258 - D0066**Epithelial cells promote fibroblast-mediated contraction of collagen gels by secreting bFGF**

M. Sharma; H. Lei; S. Pennock; A. Kazlauskas
The Schepens Eye Research Institute, Massachusetts Eye and Ear Infirmary, Department of Ophthalmology, Harvard Medical School

543 Proliferative Vitreoretinopathy

6261 - D0069**Immunospecific targeting of fibronectin towards an anti-fibrotic therapy, with special emphasis on proliferative vitreoretinopathy (PVR)**

M. Luthra-Guptasarma; M. Sharma; S. Sharma; A. Tiwari; V. Gupta; A. Gupta
PGIMER Chandigarh; PGIMER Chandigarh; Harvard Medical School

544 AMD IV, RE

6278 - D0094**Correlation Between Fluid Status at Week 12 and Week 52 Following Intravitreal Aflibercept Injections in the VIEW Study of wAMD Patients**

J. L. Marx; D. M. Moshfeghi; S. M. Hariprasad; J. S. Heier
Lahey Clinic; Stanford University; University of Chicago; Ophthalmic Consultants of Boston and Tufts University School of Medicine

545 Retina: Physiology and Pharmacology

6341 - D0212**Inhibition of the diabetes-induced increased TGF- β signaling in retinal vessels leads to an abnormal endothelial phenotype**

Z. Dagher; J. Vaz; M. Goodridge; C. Gerhardinger; M. Lorenzi
Massachusetts Eye & Ear

ARVO Annual Meeting Paper Sessions

Monday, May 6, 2013

Washington State Convention Center

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 6, 2013

8:30 AM - 10:15 AM

224 Strabismus/Eye Movements
TCC 305

8:45 AM - 9:00 AM

1301 Displacement of Optical Centers in Over-the-Counter Readers: A Potential Cause of Diplopia

C. E. West; D. G. Hunter

Cincinnati Children's Hospital Medical Center; University of Cincinnati; Boston Children's Hospital; Harvard Medical School

210 Retinoblastoma: Pre-Clinical Models and Targeted Therapies
608

9:00 AM - 9:15 AM

1255 Expression of Pluripotent Markers L1CAM and SSEA-5, Common to Human Retinoblastomas, Xenografts, Teratomas, Embryonic Tumors and Induced Pluripotent Stem Cells

G. M. Seigel; M. Choi; R. Chang; J. S. Meyer; B. R. Ksander; P. E. Kolovou; N. E. de Waard; L. L. Cassidy

University at Buffalo; Mount Sinai School of Medicine; Indiana University; Schepens Eye Research Institute; Leiden University; SUNY Eye Institute

220 Immunology, Allergy, Neovascularization
TCC 303

9:00 AM - 9:15 AM

1288 Intravital Multiphoton Microscopy of Corneas and Draining Lymph Nodes Shows Increased Velocity of Dendritic Cells after Corneal Transplantation and Directionality in Corneal Allografts

T. Yamaguchi; K. Hu; D. L. Harris; P. Hamrah

Massachusetts Eye and Ear Infirmary; Harvard Medical School

220 Immunology, Allergy, Neovascularization
TCC 303

9:15 AM - 9:30 AM

1289 The CCR7-CCL19/CCL21 Axis Mediates Enhanced Antigen-Presenting Cell Trafficking In High-Risk Corneal Transplantation

J. Hua; W. Stevenson; T. H. Dohlman; N. Calcagno; N. Pirmadjid; Z. Sadrai; S. K. Chauhan; D. R. Saban; R. Dana

Schepens Eye Research Institute, Massachusetts Eye and Ear Infirmary, Harvard University

Monday, May 6, 2013

11:00 AM - 12:45 PM

244 Microbial Pathogenesis
606/607

11:00 AM - 11:15 AM

1726 Comparative Genome Sequencing to Identify Staphylococcus aureus Virulence and Antibiotic Resistance Genes causing Keratitis

I. Behlau; D. Lazinski; J. Martin; S. Heimer; E. M. Leonard; A. Wright; M. S. Gilmore; C. H. Dohlman; A. Camilli

Sackler School of Biomedical Sciences - Tufts University School of Medicine; Mass. Eye and Ear /Schepens Eye Research Institute - Harvard Medical School

Monday, May 6, 2013

11:00 AM - 12:45 PM

249 Nanotechnology and Regenerative Medicine
TCC 305

11:15 AM - 11:30 AM

1762 Insulin-like Growth Factor Binding Protein-like 1 (IGFBPL1) as a Potent Regulator of Optic Nerve Regeneration

C. Guo; K. Cho; K. T. Tchedre; J. Ma; C. Antolik; D. F. Chen

Schepens Eye Research Institute; VA Boston Healthcare System

245 Genetic Epidemiology: GWAS and SNPs Around the World
615-617

12:00 PM - 12:15 PM

1737 International meta-analysis of genetic factors influencing intraocular pressure: the International Glaucoma Genetics Consortium Study

P. G. Hysi; C. Cheng; T. Aung; J. E. Craig; C. J. Hammond; A. J. Lotery; N. Pfeiffer; C. M. van Duijn; A. C. Viswanathan; J. L. Wiggs

King's College London; National University of Singapore; Erasmus University Medical Centre; Johannes Gutenberg University Medical Centre; Faculty of Medicine, University of Southampton, Southampton General Hospital, Southampton; Flinders University; Harvard University; University College London

243 DR: Factors and Function
6E

12:15 PM - 12:30 PM

1724 Structural Characteristics of Microaneurysms on Adaptive Optics Scanning Laser Ophthalmoscopy (AOSLO) and Surrounding Neural Retinal Pathology in Diabetes

J. K. Sun; J. Lammer; S. G. Prager; M. M. Lin; M. C. Cheney; P. S. Silva; S. A. Burns; L. P. Aiello

Joslin Diabetes Center; Harvard Medical School; Indiana University; Medical University of Vienna ; Harvard Medical School

243 DR: Factors and Function

6E

12:30 PM - 12:45 PM

1725 Peripheral Diabetic Retinal Lesions Identified on Ultrawide Field (UWF) Imaging May Predict 3-Year Diabetic Retinopathy Progression

P. S. Silva; J. Cavallerano; J. K. Sun; L. M. Aiello; L. P. Aiello

Joslin Diabetes Center; Harvard Medical School

246 Cone Photoreceptors in Aging and Disease

TCC LL 4/5

12:30 PM - 12:45 PM

1746 Changes in Cone Reflectivity and Regularity Assessed by Adaptive Optics Scanning Laser Ophthalmoscopy (AOSLO) Correlate with Presence of Diabetic Retinopathy

J. Lammer; A. Ahmed; S. G. Prager; M. C. Cheney; S. A. Burns; P. S. Silva; L. P. Aiello; J. K. Sun

Joslin Diabetes Center; Medical University of Vienna; Harvard Medical School; Indiana University; Faculty of Medicine, Assiut University

Monday, May 6, 2013

2:45 PM - 4:30 PM

283 Endothelium

TCC 304

2:45 PM - 3:00 PM

2196 Decline in DJ-1 Leads to Decreased Nuclear Translocation of Nrf2 and Results in p53-mediated Apoptosis of Human Corneal Endothelial Cells

C. Liu; Y. Chen; U. V. Jurkunas

Department of Ophthalmology, Harvard Medical School

277 Corneal Infection and Inflammation

606/607

2:45 PM - 3:00 PM

2156 Adenoviral Pathogenesis in Epidemic Keratoconjunctivitis: the Failure of Hexon Gene Sequence to Predict Corneal Tropism

J. Chodosh; G. Singh; X. Zhou; J. Rajaiya; M. A. Yousuf; J. Lee; C. M. Robinson; D. Seto; D. Dyer; M. S. Jones

Mass Eye & Ear - Harvard Medical School; George Mason University; University of Oklahoma Health Sciences Center

277 Corneal Infection and Inflammation

606/607

3:15 PM - 3:30 PM

2158 The role of corneal Plasmacytoid Dendritic Cells in acute herpes simplex virus infectionK. Hu; D. L. Harris; T. Yamaguchi; H. Ghiasi; U. von Andrian; P. Hamrah
Massachusetts Eye & Ear Infirmary; Schepens Eye Research Institute; Immune Disease Institute, Program in Cellular and Molecular Medicine at Children's Hospital; Cedar Sinai Medical Center

277 Corneal Infection and Inflammation

606/607

3:30 PM - 3:45 PM

2159 In Vivo Confocal Microscopy Demonstrates Bilateral Increase in Epithelial Corneal Dendritic Immune Cells in Unilateral Herpes Zoster OphthalmicusB. M. Cavalcanti; A. Cruzat; D. Pavan-Langston; E. A. Samayoa; P. Hamrah
Massachusetts Eye & Ear Infirmary, Harvard Medical School Department of Ophthalmology; Massachusetts Eye & Ear Infirmary, Harvard Medical School Department of Ophthalmology

280 AMD and Drugs

618-620

3:15 PM - 3:30 PM

2177 Integrin Peptide Therapy: The First Wet AMD Experience

P. K. Kaiser; D. S. Boyer; P. A. Campochiaro; J. Guerrero-Naranjo; J. S. Heier; J. Kornfield; B. D. Kuppermann; H. Quiroz-Mercado; S. Salinas Longoria; S. Schwartz

Cole Eye Institute; Retina Vitreous Associates; University of California, Irvine; University of Colorado, Denver; Wilmer Eye Institute - Johns Hopkins; California Institute of Technology; Ophthalmic Consultants of Boston; Association Para Evitar La Ceguera

279 Retinal Health and Diabetic Retinopathy: Evidence for Mechanisms, Treatment, and Risk

615-617

3:30 PM - 3:45 PM

2171 Epidemiology of retinopathy in African Americans with impaired fasting glucose and type 2 diabetes in the Jackson Heart StudyL. Sobrin; A. Penman; S. T. Hoadley; J. G. Wilson; H. A. Taylor; C. J. Chen
Harvard Med Mass Eye & Ear Infirmary; University of Mississippi Medical Center; University of Mississippi Medical Center; University of Mississippi Medical Center

Monday, May 6, 2013

2:45 PM - 4:30 PM

274 Surgery and Laser

6B

3:30 PM - 3:45 PM

2138 Comparison of Phacoemulsification Combined with ab interno Trabeculectomy (AIT), or with Trabeculectomy (Trab), and Phaco Alone for the Management of Cataract and Open-Angle Glaucoma

M. Toeteborg-Harms; S. S. Swaminathan; S. Jea; A. Marvasti; K. Choi; J. Kim; L. R. Pasquale; D. J. Rhee

Massachusetts Eye and Ear Infirmary; School of Medicine

281 Low Vision: Central Vision Loss

TCC LL 4/5

3:30 PM - 3:45 PM

2185 Qualitative and Quantitative Assessment of Metamorphopsia in Retinopathy PatientsE. K. Wiecek; K. Lashkari; S. C. Dakin; P. Bex
University College London ; Harvard Medical; Massachusetts Eye and Ear; Moorfields Eye Hospital

281 Low Vision: Central Vision Loss

TCC LL 4/5

4:00 PM - 4:15 PM

2187 Effect of central vision loss on mutual gaze perceptionA. R. Bowers; S. S. Sheldon; J. Quint; H. Hecht
Ophthalmology, Harvard Med School; Indiana University School of Optometry; Johannes Gutenberg-Universitat

ARVO Annual Meeting Paper Sessions
 Tuesday, May 7, 2013
 Washington State Convention Center
 See individual presentations for times & locations

Session Date
Session Time

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

Tuesday, May 7, 2013

8:30 AM - 10:15 AM

301 Gene Regulation: Transcription and Epigenetics
 6A

8:30 AM - 8:45 AM

2612. Transcriptional and post-transcriptional regulation links RPE65, RLBP1, and RGR in the RPE

N. Esumi; T. Masuda; J. Wan; K. J. Wahlin; J. Iacovelli; N. Wolkow; J. L. Dunaief; D. J. Zack; J. Qian

Wilmer Eye Institute, Johns Hopkins Univ Sch of Med; F.M. Kirby Center for Molecular Ophthalmology, Scheie Eye Institute, University of Pennsylvania; Institute of Genetic Medicine, Johns Hopkins Univ Sch of Med

309 Dry Eye and Lacrimal Gland III

TCC 303

8:45 AM - 9:00 AM

2666 Role of galectin-3 in dry eye disease

Y. Uchino; J. Mauris; J. Dieckow; A. M. Woodward; F. Amparo; R. Dana; F. Mantelli; P. Argueso

Harvard Medical School; Campus Bio-Medico, University of Rome

308 Binocular Vision and Stereopsis

TCC LL 4/5

9:30 AM - 9:45 AM

2662 The Contribution of Perspective, Blur and Disparity to Depth Perception in Natural Vision

G. Maiello; M. Chessa; F. Solari; P. Bex

Harvard Medical School; University of Genoa

308 Binocular Vision and Stereopsis

TCC LL 4/5

9:45 AM - 10:00 AM

2663 Rapid assessment of core visual deficits in amblyopia

M. Kwon; L. A. Lesmes; A. Miller; M. Kazlas; M. Dorr; D. G. Hunter; Z. Lu; P. Bex
 Harvard Medical School; Boston Children's Hospital; Ohio State University

Tuesday, May 7, 2013

11:00 AM - 12:45 PM

335 Corneal Epithelium and Imaging III

TCC 303

11:00 AM - 11:15 AM

3217 Binding of transmembrane mucins to galectin-3 limits herpes simplex virus infection

P. Argueso; J. Mauris; A. M. Woodward

Dept. of Ophthalmology, Harvard Medical School

Tuesday, May 7, 2013

11:00 AM - 12:45 PM

335 Corneal Epithelium and Imaging III

TCC 303

11:30 AM - 11:45 AM

3219 Suture placement on the mouse cornea induces K8 and Muc5ac expression within K12+ corneal epithelial cells

M. Stepp; G. Tadvalkar; V. L. Perez; Y. Tan; S. Ghosh; J. D. Zieske; A. Lee; V. E. Trinkaus-Randall; A. Pajooohesh-Ganji

George Washington University; Boston University School of Medicine; Harvard/Schepens's Eye Research Institute; Bascom Palmer Eye Institute

327 Imaging: Advances in Imaging and Diagnostic

6C

11:30 AM - 11:45 AM

3163 Nonmydriatic Ultrawide Field Retinal Imaging Reduces Ungradable Rate, Increases Retinopathy Detection and Reduces Image Evaluation Time in an Ocular Telehealth Program for Diabetic Retinopathy

A. F. Omar; P. S. Silva; J. Cavallerano; K. Hock; A. M. Tolson; N. Haddad; J. K. Sun; L. M. Aiello; L. P. Aiello

Joslin Diabetes Center; Harvard Medical School; Faculty of Medicine, Assiut University

Tuesday, May 7, 2013

2:45 PM - 4:30 PM

371 Refractive Surgery

TCC 303

2:45 PM - 3:00 PM

3711 In Vivo Confocal Microscopy Demonstrates a Profound Increase in Immune Dendritic Cells and Decrease in Corneal Nerves in Patients with Post-Refractive Surgery Keratoneuralgia

Y. Qazi; S. Aggarwal; B. M. Cavalcanti; A. Cruzat; L. J. Wu; P. Rosenthal; P. Hamrah

Massachusetts Eye and Ear Infirmary; Boston Foundation for Sight; Immune Disease Institute, Harvard Medical School

ARVO Annual Meeting Paper Sessions
Wednesday, May 8, 2013
Washington State Convention Center
See individual presentations for times & locations

Session Date
Session Time

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

Wednesday, May 8, 2013

8:30 AM - 10:15 AM

412 Photoreceptors: Structure, Transduction, Signaling
 TCC 304

8:30 AM - 8:45 AM

4076 Modulating the phototransduction cascade with small molecules

T. Isayama; J. Wu; S. Miyazono; V. Lee; E. S. Levine; E. Makino; A. L. Zimmerman;
 C. L. Makino

Mass Eye & Ear Infirmary; Brown University; Sanofi Corporation

404 DR: Therapeutic Effects

6E

8:45 AM - 9:00 AM

4024 Intensive Diabetes Therapy Reduces Ocular Surgeries in Patients with Type 1 Diabetes: twenty-eight year followup of the Diabetes Control and Complications Trial / Epidemiology of Diabetes Interventions and Complications study (DCCT/EDIC)

L. P. Aiello; W. Sun; P. A. Cleary; J. M. Lachin; S. Gangaputra; R. Klein; A. Das; S. Kiss; A. Domalpally; R. P. Danis

Joslin Diabetes Center; Harvard Medical School; University of Wisconsin; University of Wisconsin School of Medicine and Public Health; George Washington University; Weill Cornell Medical College; University of New Mexico School of Medicine

402 New Ideas

6B

9:00 AM - 9:15 AM

4011 Estrogen Pathway Polymorphisms in Relation to Primary Open Angle Glaucoma: A Gender-Specific Analysis from Patients in the United States

L. R. Pasquale; S. Loomis; B. Yaspan; J. H. Kang; R. N. Weinreb; J. E. Richards; M. A. Hauser; J. L. Haines; J. L. Wiggs

Mass Eye & Ear Infirmary; Brigham and Women's Hospital; Genentech, Inc; Duke University; Vanderbilt University; UCSD; University of Michigan

411 Keratoconus and Biomechanics

TCC 303

9:00 AM - 9:15 AM

4071 Novel proteins and metabolites for the identification of Keratoconus disease

D. Karamichos; J. Hjortdal; A. E. Hutcheon; J. M. Asara; J. D. Zieske
 Schepens Eye Research Institute/MEE; Harvard Medical School; Beth Israel Deaconess Medical Center, Harvard Medical School; Aarhus University Hospital

403 Retinitis Pigmentosa II

6C

9:45 AM - 10:00 AM

4021 Recombinant Human Nerve Growth Factor Protects Photoreceptor Degeneration in a Rat Model of Inherited Retinitis Pigmentosa

L. Aloe; P. Bianchi; M. Rocco; A. Micera; A. Lambiase; S. Bonini
 Institute of Neurobiology and Molecular Medicine, National Research Council; G.B. Bietti IRCCS; University of Rome, Campus Biomedico

Wednesday, May 8, 2013

8:30 AM - 10:15 AM

411 Keratoconus and Biomechanics
 TCC 303

10:00 AM - 10:15 AM

4075 Brillouin microscopy of collagen crosslinking: non-contact depth-dependent analysis of corneal elastic modulus

G. Scarcelli; S. Kling; E. Quijano; R. Pineda; S. Marcos; S. H. Yun

Harvard Medical School; Conejo Superior de investigacion cientifica; Mass Eye and Ear Infirmary

Wednesday, May 8, 2013

11:00 AM - 12:45 PM

424 Genetics I

6B

11:00 AM - 11:15 AM

4497 Genome-wide Association Study and Meta-Analysis of Intraocular Pressure in Primary Open-Angle Glaucoma Cases and Controls in the NEIGHBOR, GLAUGEN and AMD-MMAP Studies

S. E. Moroi; A. B. Ozel; D. M. Reed; K. E. Branham; M. A. Hauser; L. R. Pasquale; J. L. Wiggs; J. E. Richards; J. Z. Li

Univ of Michigan-Kellogg Eye Ctr; University of Michigan; Duke University School of Medicine; Harvard Medical School, Massachusetts Eye and Ear Infirmary

424 Genetics I

6B

11:15 AM - 11:30 AM

4498 Molecular mechanisms in Primary Glaucoma: POAG-associated variant disrupts microRNA regulation of CDKN2B expression

T. Gaasterland; A. N. Dubinsky; A. R. La Spada; K. Mansouri; K. H. Willert; D. E. Gaasterland; M. A. Hauser; L. R. Pasquale; J. L. Wiggs; R. N. Weinreb
 Univ of California San Diego; Univ of California San Diego; Univ of California San Diego; University of Geneva; Ophthalmology; Duke University; Harvard; Univ of California San Diego; Sanford Consortium for Regenerative Medicine; Univ of California San Diego

428 Uveal Melanoma: Experimental Therapeutics

608

11:15 AM - 11:30 AM

4525 Uveal Melanoma Cells Are Inhibited by AICAR Partially Through Activation of AMP-Dependent Kinase

A. Al Moujahed; F. Nicolaou; T. D. Papakostas; J. W. Miller; E. S. Gragoudas; D. Vavvas

Massachusetts Eye and Ear Infirmary, Harvard Medical School; Massachusetts General Hospital

Wednesday, May 8, 2013

11:00 AM - 12:45 PM

430 Physiologic Vascularization in Retinopathies

611-614

11:30 AM - 11:45 AM

4537 Neuronal Sirtuin1 mediates retinal vascular regeneration in retinopathy

J. Chen; A. Juan; C. G. Hurst; D. T. Pei; J. Joyal; L. Evans; Z. Cui; A. Stahl; P.

Sapieha; L. E. Smith

Harvard Med Sch Children's Hosp

435 Neuro-Ophthalmology: Novel Treatments and Mechanisms of Disease

TCC 305

11:45 AM - 12:00 PM

4572 Genotype-retinal phenotype correlations in infantile nystagmus

M. G. Thomas; V. Sheth; R. J. McLean; F. A. Proudlock; G. Maconachie; S. Kohl;

W. Chan; C. Andrews; E. C. Engle; I. Gottlob

University of Leicester; Boston Children's Hospital; Harvard Medical School and

Boston Children's Hospital; Institute for Ophthalmic Research

433 Stroma Keratocytes, Development and Dystrophies

TCC 303

12:00 PM - 12:15 PM

4559 Investigation of Gene Therapy Using Immortalized Cells Derived from a Gelatinous Drop-Like Corneal Dystrophy Patient

K. Kitazawa; S. Kawasaki; K. Aoi; K. Shinomiya; A. Matsuda; T. Funaki; M.

Nakatsukasa; J. Hamuro; A. Murakami; S. Kinoshita

Kyoto Prefectural Univ of Med; Juntendo University; Doshisya University

424 Genetics I

6B

12:00 PM - 12:15 PM

4501 The role of SIX6 in primary open-angle glaucoma

M. A. Hauser; M. Ulmer; Y. Liu; E. Davis; N. Katsanis; Y. Liu; L. R. Pasquale; J. L.

Wiggs; A. E. Ashley-Koch; R. Allingham

Duke Univ Medical Center; Duke Univ Medical Center; Duke University; Harvard

Medical School

427 Ocular Immune Responses

606/607

12:15 PM - 12:30 PM

4522 Inhibition of Vascular Endothelial Growth Factor Ameliorates Ocular Allergy in the Murine Model

D. R. Saban; R. Dana; H. Lee; T. Blanco

Duke University School of Medicine; Schepens Eye Res Inst, Mass. Eye & Ear,

Harvard Medical School

Wednesday, May 8, 2013

2:45 PM - 4:30 PM

465 Amblyopia: Neural Mechanisms and Treatment

TCC 305

3:30 PM - 3:45 PM

4981 Binocular iPad Treatment for Amblyopia

S. Li; V. Subramanian; L. To; R. M. Jost; S. Jost; D. R. Stager; L. Dao; D. R. Stager;

E. E. Birch

Retina Foudation of the Southwest; Schepens Eye Research Institute; Pediatric

Ophthalmology and the Center for Adult Strabismus; Pediatric Ophthalmology

and Adult Strabismus; University of Texas Southwestern Medical Center

465 Amblyopia: Neural Mechanisms and Treatment

TCC 305

4:00 PM - 4:15 PM

4983 Anodal tDCS Enhances the Effect of Binocular Therapy on Stereopsis in Adults with Amblyopia

D. P. Spiegel; J. Li; R. F. Hess; W. D. Byblow; L. To; J. R. Cooperstock; M. Yu; B.

Thompson

The University of Auckland; Sun Yat-sen University; McGill University; The

University of Auckland; Schepens Eye Research Institute; McGill University

ARVO Annual Meeting Paper Sessions
Thursday, May 9, 2013
Washington State Convention Center
See individual presentations for times & locations

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

Wednesday, May 8, 2013
10:30 AM – 12:15 PM
525 Clinical and Translational Studies in Ocular Inflammation 606/607 10:45 AM - 11:00 AM
5929 IV Secukinumab Is An Effective Treatment In Patients With Noninfectious Uveitis Requiring Steroid Sparing Immunosuppressive Therapy
E. Letko; S. Yeh; C. L. Grosskreutz; U. Pleyer; C. Foster; M. G. Brigell Corneal Consultants of Colorado; Ophthalmology Eye Center; Global Translational Medicine Head for Ophthalmology Novartis Institutes for Biomedical Research; Ophthalmology University Charite Berlin ; Ophthalmology Ocular Immunol & Uveitis Foundation; Novartis Institutes for BioMedical Research, Inc.

ARVO Special Interest Groups
 Washington State Convention Center
 See individual presentations for times & locations

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

Sunday, May 5, 2013
1:00 PM - 2:30 PM

158 Thrombospondin Dependent Pathways in Ocular Pathologies - SIG
 TCC 305
 1:00 PM - 2:30 PM
TSP-1 appears to play an essential role in corneal endothelial wound repair
 J. D. Zieske
 Schepens Eye Research Institute/MEE

Monday, May 6, 2013
1:00 PM - 2:30 PM

272 Managing Patients with DME, Neovascular AMD, and RVO: How to Utilize
 Data from Clinical Trials - SIG
 TCC 304
 1:00 PM - 2:30 PM
**Do monthly injections of an anti-VEGF agent provide better visual outcomes
 than prn injections in patients with neovascular AMD? Is there an advantage
 to monthly visits with prn treatment over streamlined monthly visits for
 monthly injections?**
 J. S. Heier
 Ophthalmic Consultants of Boston

Tuesday, May 7, 2013
1:00 PM - 2:30 PM

355 Translational Aspects of Anti(lymph) Angiogenic Therapy at the Ocular
 Surface - SIG
 606/607
 1:00 PM - 2:30 PM
Antilymphangiogenic therapy in dry eye disease
 R. Dana
 Mass Eye & Ear Infirmary/HMS

356 Endothelial Dysfunction: From Pathophysiology to Treatment - SIG
 608
 1:00 PM - 2:30 PM
**Mitochondrial dysfunction as a novel therapeutic target in Fuchs Endothelial
 Conreal Dystrophy**
 U. V. Jurkunas
 MA Eye & Ear Infirm Schepens Eye Res

Wednesday, May 8, 2013
1:00 PM - 2:30 PM

455 Diabetic Retinopathy: Where We Are and a Path to Progress - SIG
 6B
 1:00 PM - 2:30 PM
SIG Organizer
 J. E. Dowling
 Harvard University

455 Diabetic Retinopathy: Where We Are and a Path to Progress - SIG
 6B
 1:00 PM - 2:30 PM
Present and Proposed Approaches to Therapeutics
 L. M. Aiello
 Joslin Diabetes Center

456 - Epigenetic Mechanism and Ocular Diseases - SIG
 6C
 1:00 PM - 2:30 PM
Histone modification in regulation of retinal development
 D. F. Chen
 Schepens Eye Res Inst, Harvard Med Sch

ARVO CROSS-SECTIONAL GROUPS
Washington State Convention Center
See individual presentations for times & locations

Session Date

Session Time

Session ID & Title

Session Location

Presentation Time

Abstract ID & Title

Authors

Affiliations

Monday, May 6, 2013

1:00 PM - 2:30 PM

261 Low Vision Group: Opportunities and Challenges for Clinical Trials of Treatment or Rehabilitation Strategies for Vision Enhancement

TCC LL 4/5

1:54 PM - 2:12 PM

Opportunities and Challenges: Mobility-related Outcome Measures

A. R. Bowers

Schepens Eye Res Inst, Mass Eye and Ear

ARVO MINISYMPOSIA
 Washington State Convention Center
 See individual presentations for times & locations

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

Monday, May 6, 2013
8:30 AM - 10:15 AM

216 Peptides and Polypeptides in Ocular Health and Dysfunction
 618-620
 8:55 AM - 9:15 AM
1275 VEGF and PDGF: Roles in Physiology and Pathology
 P. A. D'Amore
 Schepens Eye Res Inst, Mass Eye & Ear

Wednesday, May 8, 2013
8:30 AM - 10:15 AM

409 Purine Signaling in the Eye: Role in Health and Disease
 618-620
 9:00 AM - 9:15 AM
4058 Purinergic Receptors in Lacrimal Gland Health and Dry Eye Disease
 D. A. Dartt
 Schepens Eye Research Institute

Monday, May 6, 2013
2:45 PM - 4:30 PM

273 Application of Pharmacologic / Chemical Biologic Approaches to Eye Disease
 6A
 3:40 PM 4:05 PM
2133 Dietary Omega 3 Fatty Acids and Retinopathy
 L. E. Smith
 Harvard Univ/Children's Hospital

Tuesday, May 7, 2013
11:00 AM - 12:45 PM

330 From Cytology to Proteomics: New Insights into the Vitreous and Its Role in Ocular Disease
 608
 11:16 AM 11:30 AM
3183 Proteomics of Embryonic Human Vitreous Development
 L. P. Aiello
 Joslin Diabetes Center

330 From Cytology to Proteomics: New Insights into the Vitreous and Its Role in Ocular Disease
 608
 12:26 PM 12:40 PM
3188 Proliferative Vitreoretinopathy: Old Problem, New Treatments
 A. Kazlauskas
 Schepens Eye Res Inst/ Harvard

334 Clinical Aspects of Motion Perception
 TCC LL 4/5
 11:00 AM - 11:15 AM
3210 Motion perception in ocular disease and visual dysfunction
 P. Bex
 Harvard Medical School

ARVO WORKSHOPS
Washington State Convention Center
See individual presentations for times & locations

Session Date

Session Time

Session ID & Title

Session Location

Presentation Time

Abstract ID & Title

Authors

Affiliations

Wednesday, May 8, 2013

1:00 PM – 2:30 PM

449 Managing Your Research, Teaching and Service: “Dollary/Scholarly”

606/607

1:00 PM - 2:30 PM

Presentation

J. L. Wiggs

Mass Eye & Ear Infirmary

449 Managing Your Research, Teaching and Service: “Dollary/Scholarly”

606/607

1:00 PM - 2:30 PM

Presentation

C. L. Grosskreutz

Novartis Inst for Biomed Resrch

451 Indo-US Collaborative Vision Research Program

615-617

1:48 PM - 2:00 PM

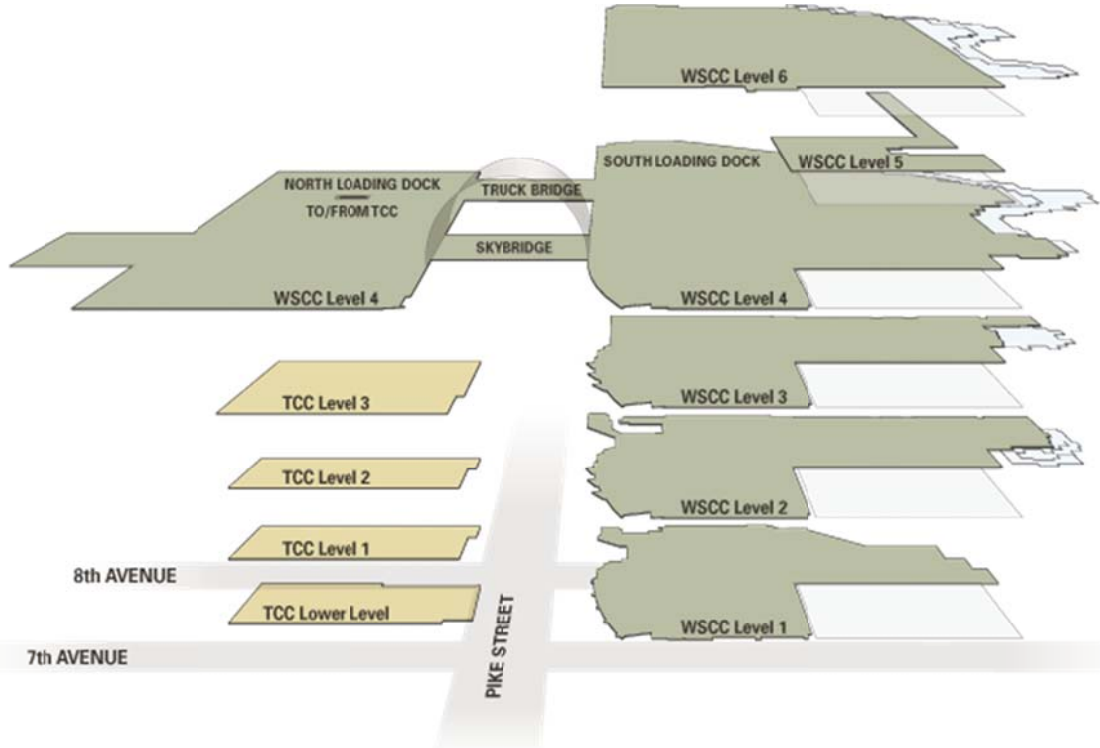
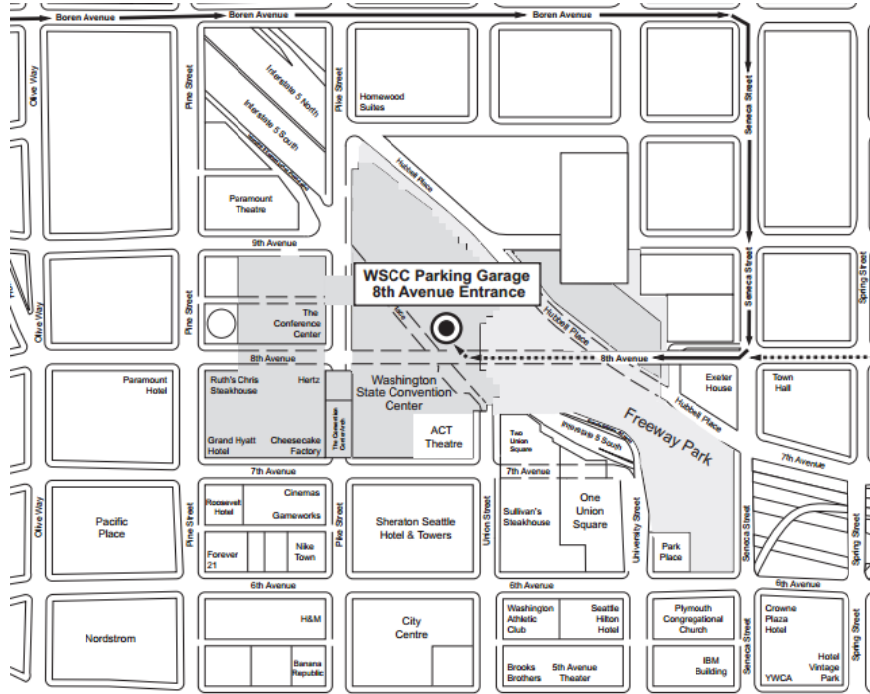
India US Genetic Study of Ocular Quantitative Traits

J. L. Wiggs

Mass Eye & Ear Infirmary

NOTES

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