



ARVO 2026 DENVER, CO USA

On Demand Sessions

<p><i>Kellie Rong</i>^{*1}, <i>Andreia Goncalves</i>², <i>Nicolas Santander</i>³, <i>Alexander Stanley</i>², Audrey Cleuren^{4,5}, <i>Dibyanti Mukherjee</i>¹, <i>David A. Antonetti</i>^{2,6}, <i>Thomas Arnold</i>¹</p>	<p>Analysis of FLVCR2 as a Novel Regulator of Retinal Angiogenesis</p>	<p>Abstract Number: OD242</p>	<p>On Demand Session</p>
<p>Jennifer D. Ballheim^{*1}, Mark McClellan², <i>Philip Mzyk</i>³, <i>William Daniel Stamer</i>³, Michael H. Elliott^{1,2}</p>	<p>Caveolin-2 Deficiency Increases Intraocular Pressure and Decreases Caveolae-Associated Proteins</p>	<p>Abstract Number: OD174</p>	<p>On Demand Session</p>

Sunday, May 03

<p><i>Susan Helen Kishi</i>^{*1,2}, <i>Dimitrios Pollalis</i>², <i>Justin Leung</i>², <i>Tongzhou Xu</i>², Maryam Firouzi³, <i>Dongjin Kim</i>⁴, <i>Sun Young Lee</i>^{2,5}</p>	<p>Intraocular Tracking and Pharmacokinetic Profiling of Small Extracellular Vesicles Using Fluorescent Labeling and Intraluminal Loading</p>	<p>Abstract Number: 47 - 0050</p>	<p>Sun, May 03 8:00AM</p>	<p>Poster Hall Session ID 104</p>
<p><i>Atiyabanu Nagingar</i>^{*1}, <i>Rui Cheng</i>², <i>Kamala Sundararaj</i>¹, <i>Dimitrios Arhontoulis</i>¹, Jiyang</p>	<p>Age-dependent sexual dimorphism in laser-induced CNV</p>	<p>Abstract Number: 100 – 0130</p>	<p>Sun, May 03 8:00AM</p>	<p>Poster Hall Session ID 105</p>

Cai⁴, Peter Hao Tang¹, Kip Connor³, Elizabeth Pearsall¹

Gautham S. Ramakrishnan^{*1},
Jorge Lightfoot², Kevin K. Fuller¹

Hypoxia – a driver of proinflammatory signaling in the cornea?

Abstract Number:
196 - 0535

Sun, May 03
8:00AM

Poster Hall
Session ID 108

Miwa Hara^{*1}, Elizaveta Sozinova¹,
Wenjing Lily wu^{2,3}, Yusuke Takahashi¹, Jian-xing Ma¹,
Gennadiy P. Moiseyev¹

The role of PNPLA2 in the retinal pigment epithelium

Abstract Number:
1008 – 0668

Sun, May 03
3:15PM

Poster Hall
Session ID 152

Raju V S Rajala^{*1,2}, Larissa J. Trevino¹, Thamaraiselvi Saravanan^{3,4}, **Tyler M. Black¹**,
Visvanathan Ramamurthy^{3,4},
Ammaji Rajala¹

Inositol Polyphosphate Multikinase Regulates Photoreceptor Maintenance Through Inositol and Phosphoinositide Metabolism

Abstract Number:
1017 – 0677

Sun, May 03
3:15PM

Poster Hall
Session ID 152

Lea D. Bennett^{*1}, Ammaji Rajala¹, Raju V S Rajala¹

Characterization of iPSC-derived retinal organoids and retinal pigment epithelium from a patient with a mutation in *PRPH2*

Abstract Number:
1059 – 0719

Sun, May 03
3:15PM

Poster Hall
Session ID 154

Jody Summers^{*1}, Manish Harrigill², Tammy Yanovitch², R Michael Siatkowski²

The Role of Systemic Anti-Inflammatory Agents on Refractive Development: A Retrospective Study in Children.

Abstract Number:
1270 – 1040

Sun, May 03
3:15PM

Poster Hall
Session ID 159

Monday, May 04

Julia V. Busik^{*1}

Ceramide-centric view of diabetic retinopathy

Abstract Number:
1420

Mon, May 04
11:35AM
Minisymposium

Room 405
Session ID 215

Martin-Paul Gameli Agbaga^{*1,2}

Novel insights into mechanisms of impaired ELOVL4 and VLC-FAs on retinal metabolism

Abstract Number:
1421

Mon, May 04
11:50AM
Minisymposium

Room 405
Session ID 215

<p>Rowaida Hussein*¹, Alaa Tayyib^{2,3}, Deepika Parameswarappa^{2,3}, Maanik Mehta¹, Kashif Ahmed¹, Erika Tavares¹, Anupreet Tumber², Ammaji Rajala⁴, Evgueni Ivakine¹, Philippe Monnier⁵, Raju V S Rajala⁴, Elise Heon^{1,2}, Tomas Pinós Figueras⁶, Ajoy Vincent^{1,2}</p>	<p>Exploring the role of glycogen myophosphorylase in the retina</p>	<p>Abstract Number: 1949 – 0016</p>	<p>Mon, May 04 3:00PM</p>	<p>Poster Hall Session ID 246</p>
<p>Xiangpeng Li*¹, Jonas Padilla², Kandis Fox³, Denis Proshlyakov¹</p>	<p>Non-Invasive Fluorescence Probing of Hyperglycemia- and Stress-Driven Metabolic Changes in ARPE-19 Cells</p>	<p>Abstract Number: 2013 – 0080</p>	<p>Mon, May 04 3:00PM</p>	<p>Poster Hall Session ID 248</p>
<p>Sherif Hamidu*¹, Anna Usoltseva¹, Jianglei Chen¹, Amina Jamil¹, Arjun Singh², Richard Kolesnick², Maria B. Grant³, Julia V. Busik¹</p>	<p>Ceramide-Rich Platform Formation in Diabetes Impairs Myeloid Angiogenic Cells (MACs) Function and contributes to progression of Diabetic Retinopathy</p>	<p>Abstract Number: 2015 – 0082</p>	<p>Mon, May 04 3:00PM</p>	<p>Poster Hall Session ID 248</p>
<p>Wenjing Lily wu*^{1,2}, Asa Brown^{1,2}, Joel McRae^{1,2}, martin-paul agabaga^{1,2}</p>	<p>Leveraging VLC-PUFA to impede retinal degeneration</p>	<p>Abstract Number: 2018 – 0085</p>	<p>Mon, May 04 3:00PM</p>	<p>Poster Hall Session ID 248</p>
<p>Tyler Pfister*¹, Rachel Dolan¹, Grace Trigler², Jila Noori¹</p>	<p>Sensitivity of Widefield Swept-Source OCTA for Detection of Microaneurysms in Diabetic Retinopathy</p>	<p>Abstract Number: 2174 – 0606</p>	<p>Mon, May 04 3:00PM</p>	<p>Poster Hall Session ID 254</p>
<p>Jila Noori*¹, Annah Fowler¹, Amelia Momtazzadeh²</p>	<p>Detection and Characterization of Choroidal Neovascularization in Uveitis using Ocular Coherence Tomography Angiography</p>	<p>Abstract Number: 2180 – 0612</p>	<p>Mon, May 04 3:00PM</p>	<p>Poster Hall Session ID 254</p>
<p>Xiang Ma*¹, Yelyzaveta Rudenko¹, Jun Xie¹, Christopher M. Schafer², Courtney T. Griffin^{1,3}</p>	<p>Enhancing blood flow perception to mitigate vascular regression in ischemic retinopathies</p>	<p>Abstract Number: 2342 – 0774</p>	<p>Mon, May 04 3:00PM</p>	<p>Poster Hall Session ID 260</p>
<p>Konstantin Kotliar*¹, Camila Bonin Pinto², Tamas Csipo², Agnes Lipecz², Peter Mukli²,</p>	<p>Simultaneous dynamic assessment of retinal and cerebral circulation in response to flicker stimulation</p>	<p>Abstract Number: 2363 – 0795</p>	<p>Mon, May 04 3:00PM</p>	<p>Poster Hall Session ID 260</p>

Abdelrahman Assaf³, Ines Lanzl³,
Andriy Yabluchanskiy²

Tuesday, May 05

Steve Mabry^{*1,2}, Purnima
Sharma^{1,2}, Sarah E. Nicholas^{1,2},
Kamran M. Riaz³, Yutao Liu⁴,
Dimitrios Karamichos^{1,2}

**Differential Expression of Salivary
microRNA Associated with Keratoconus**

Abstract Number:
2914

Tue, May 05
1:15PM

Mile High 4C
Session ID 336

**Rachel Dolan^{*1}, Josh John¹,
Ben Henderson¹, Chao Xu¹,
Andrew Melson³, Claire
Delpirou Nouh²**

**Examining risk factors related to the gut-
brain axis and vagal tone in visual snow
syndrome**

Abstract Number:
3139 – 0540

Tue, May 05
1:15PM

Poster Hall
Session ID 346

Folahan Adesola Ibukun^{*1},
Bhavishya Pancharathi¹, Zainab
Rustam¹, Muhammad Jehanzeb
Khan¹, Guoshu Kong¹, **Lea D.
Bennett²**, Hossein Ameri³, Robert
K. Koenekoop⁴, Nieraj Jain⁵,
Rupert Strauss⁶, Kristina Pfau⁷,
Artur V. Cideciyan⁸, Jacque L.
Duncan⁹, Sun Young Lee³, Rachel
M. Huckfeldt¹⁰, Sandeep Grover¹¹,
Peter A. Campochiaro¹, Xiangrong
Kong¹

**Repeatability of Mean Macular
Sensitivity Measurements in Retinitis
Pigmentosa**

Abstract Number:
3232 – 0677

Tue, May 05
1:15PM

Poster Hall
Session ID 348

**Becca Lennon Wells^{*1}, David
Stanford¹, Adrian Filiberti¹,
Kevin Pham², Scott Plafker³,
Michael Stout³, Michael H.
Elliott^{1,4}, Willard M. Freeman^{2,5},
Ana Chucair-Elliott^{1,4}**

**Translatomic profile of the Sod2-
deficient retinal pigmented epithelium**

Abstract Number:
3239 – 0757

Tue, May 05
1:15PM

Poster Hall
Session ID 349

**Ana Chucair-Elliott^{*1,2}, Dorothy
Walton³, Becca Lennon Wells¹,
Adrian Filiberti¹, David**

**Functional and molecular profiles of the
retina and retinal pigmented epithelium
in response to aging and Nrf2 deletion**

Abstract Number:
3277 - 0795

Tue, May 05
1:15PM

Poster Hall
Session ID 349

Stanford¹, Kevin Pham⁴, Scott Plafker³, Willard M. Freeman^{4,5}

Xue Cai^{*1}, Amber Memon¹, Jianglei Chen¹, Amina Jamil¹, Raju Rajala^{1,2}, Julia Busik¹

Very long chain ceramides improve vascular endothelial properties

Abstract Number:
3745 – 0936

Tue, May 05
3:30PM

Poster Hall
Session ID 374

Wednesday, May 06

Olawale O. Bankole^{*1}, Diana Soriano-Dale¹, Frank M. Dyka², John D. Ash², Michael H. Elliott¹

Retinal neuroprotective role of Müller glia Non-caveolar Caveolin-1: Tale of a missing sibling

Abstract Number:
4332 – 0800

Wed, May 06
10:15AM

Poster Hall
Session ID 429

Brenna Sulianne Hefley^{*3}, Brenda Vasini^{3,4}, Jesper Hjortdal², Karanpreet S. Multani¹, Kamran M. Riaz¹, Dimitrios Karamichos^{3,4}

Tear and Saliva Extracellular Vesicles Comparison between Healthy and Keratoconus

Abstract Number:
4558 – 0100

Wed, May 08
2:00PM

Poster Hall
Session ID 448

Diana Soriano-Dale^{*1}, Ana Chucair-Elliott^{2,1}, Michael H. Elliott^{1,2}

Aging Alters Endothelial Cell Translatomes in the Retina and Brain

Abstract Number:
4739 – 0684

Wed, May 06
2:00PM

Poster Hall
Session ID 455

Sergio Li Calzi^{*1}, Fadeela Sheini³, Marie-Audrey Ines Kautzmann², Danielle E. Allen², Michael E. Boulton¹, Nicolas G. Bazan², Dorota Skowronska-Krawczyk⁴, Julia V. Busik⁵, Maria B. Grant¹

Gene therapy with ELOVL2/4 reduces neovascularization and capillary vasodegeneration while increasing peripheral vascular density in a mouse model of retinopathy of prematurity.

Abstract Number:
4750 – 0695

Wed, May 06
2:00PM

Poster Hall
Session ID 455

Maria B. Grant^{*1}, Yvonne Adu-Rutledge^{1,4}, Ram Prasad¹, Sergio Li Calzi¹, Md Sohel², George Abela⁵, Irina A. Pikuleva³, Julia V. Busik²

Cholesterol Crystal Dissolution and Microbiome Restoration: A Novel Alpha-Cyclodextrin-Based Strategy to Protect Against Diabetic Retinopathy (DR) in db/db Mice

Abstract Number:
4417

Wed, May 06
2:00PM

Bluebird Ballroom 1C
Session ID 434

Amber A. Memon^{*1}, Xue Cai¹, Jianglei Chen¹, Martin-Paul Gameli Agbaga², Julia V. Busik¹

Regulation of PNPLA-1- Mediated Omega Hydroxyacylceramide in Diabetic Retinopathy

Abstract Number:
4419

Wed, May 08
2:30PM

Bluebird Ballroom 1C
Session ID 434

<i>Yasmin Moradi</i> ^{*1,2} , Karanpreet S. Multani ⁴ , Kamran M. Riaz ⁴ , <i>Dimitrios Karamichos</i> ^{1,3}	In Vitro Assessment of Nintedanib in Keratoconus Corneal Stromal Microenvironment	Abstract Number: 4598 – 0140	Wed, May 06 2:00PM	Poster Hall Session ID 448
<i>Sarbodeep Paul</i> ^{*1} , <i>Sergio Li Calzi</i> ¹ , <i>Ram Prasad</i> ¹ , <i>Tim Florian Dorweiler</i> ² , Jianglei Chen ³ , Julia V. Busik ³ , <i>Maria B. Grant</i> ¹ , Denis A. Proshlyakov ³	Mitochondrial trafficking through tunneling nanotubes preserves retinal microvascular integrity following ischemia/reperfusion injury	Abstract Number: 4681 – 0626	Wed, May 06 2:00PM	Poster Hall Session ID 451
Yun-Zheng Le ^{*2,1} , Meili Zhu ² , Wenjing Wu ¹ , Martin-Paul Gameli Agbaga ¹	BDNF-mediated elevation of Müller cell viability is causative to the formation of retinal fibrotic lesions in hypoxia	Abstract Number: 4847 – 0792	Wed, May 06 2:00PM	Poster Hall Session ID 458
<i>Philip Mzyk</i> ^{*1} , <i>Nikolai P. Skiba</i> ¹ , Michael H. Elliott ² , <i>William Daniel Stamer</i> ¹	Caveolin-1 regulates contractility and DNA repair in human outflow tissue	Abstract Number: 4432	Wed, May 06 2:15PM	Mile High 1C Session ID 436

Thursday, May 07

<i>Guoshu Kong</i> ^{*1} , <i>Muhammad Jehanzeb Khan</i> ¹ , <i>Folahan Adesola Ibukun</i> ¹ , <i>Bhavishya Pancharathi</i> ¹ , <i>Zainab Rustam</i> ¹ , <i>Hosseini Ameri</i> ⁴ , <i>Mark E. Pennesi</i> ² , <i>Nieraj Jain</i> ⁵ , <i>Rachel M. Huckfeldt</i> ³ , <i>Robert K. Koenekoop</i> ¹⁰ , <i>Byron L. Lam</i> ⁶ , <i>Laura Kuehlewein</i> ¹¹ , <i>Josep Callizo</i> ⁸ , Ronald Kingsley ⁹ , <i>Rupert Strauss</i> ⁷ , <i>Sandeep Grover</i> ¹² , <i>Petra Rossouw</i> ⁸ , <i>Peter A. Campochiaro</i> ¹ , <i>Glenn J. Jaffe</i> ¹³ , <i>Xiangrong Kong</i> ¹ , <i>Mandeep S. Singh</i> ¹	Baseline Prevalence and factors associated with presence of Cystoid Macular Edema (CME) in patients with Retinitis Pigmentosa (RP) in NAC Attack	Abstract Number: 5334 – 0610	Thu, May 07 8:00AM	Poster Hall Session ID 512
Md Sohel ^{*1} , Xue Cai ¹ , Amina Jamil ¹ , <i>Tim F. Dorweiler</i> ⁶ , <i>Nicole</i>	Protective Effects of Fenofibrate on dyslipidemia-mediated Cholesterol	Abstract Number: 5523	Thu, May 07 12:45PM	Mile High 1C Session ID 521

El- Darzi⁴, Rui Cheng⁵, Jian-xing Ma⁵, Irina A. Pikuleva⁴, George Abela³, Maria B. Grant², **Julia Busik¹**

Crystals formation in Diabetic Retinopathy

Anna Usoltseva^{*1}, Sherif Hamidu¹, Amina Jamil¹, Jianglei Chen¹, Arjun Singh², Richard Kolesnick², Maria B. Grant³, Julia V. Busik¹

Inhibition of Ceramide-Rich Platform Formation Restores Neutrophil Membrane Homeostasis in Diabetes

Abstract Number:
6079 – 0841

Thu, May 07
2:00PM

Poster Hall
Session ID 559

Amina Jamil^{*1}, Jianglei Chen¹, Julia V. Busik¹

Systemic anti-ceramide antibody treatment rescues retina function in diabetic mouse model

Abstract Number:
6080 – 0842

Thu, May 07
2:00PM

Poster Hall
Session ID 559

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