Pocket Guide

The Beauty of Diversity in Science and Nature

ARVO 2023
April 23 – 27
New Orleans, La.

ARVO.org/AM

The Association for Research in Vision and Ophthalmology
VERSATILE, INNOVATIVE PLATFORM FOR OCULAR DRUG DELIVERY

Our VitalDose® technology is a drug delivery platform providing controlled release through implant and insert dosage forms. The VitalDose® platform has proven biocompatibility and achieves >6 months release of mAbs, peptides, RNA, small molecules, and fixed dose combination therapies. We partner with you to enable innovation within your desired delivery profile.

The Celanese Pharma Lab offers the following support:
- Material selection
- Formulation and R&D prototype development
- Drug release testing
- Tech transfer

Collaborate with us
Email: Healthcare@Celanese.com
Website: healthcare.celanese.com
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<td>ARVO Social*</td>
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<td>ARVO Central</td>
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<td>Posters</td>
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<td>Paperrs/Posters/Minisymposia</td>
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Disclaimer

The Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting online program materials and print publications aim to promote vision research and scientific discourse for educational purposes. ARVO accepts no responsibility for any products, presentations, opinions, statements or positions expressed, and inclusion of such material within the Meeting, the publications or posted online does not constitute endorsement by ARVO.

Photography Release

By attending the ARVO Annual Meeting, attendees agree to allow their names, likenesses and images either in audio, photographic or video format recorded onsite to be used by ARVO and the ARVO Foundation for Eye Research for educational and promotional purposes.

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Continuing Medical Education

The ARVO 2023 Annual Meeting, held in New Orleans, La., April 23 – 27, is an accredited continuing education activity. Clinicians who register for CME credits and pay the processing fee are eligible to claim credit for attending in-person accredited paper and cross-sectional group sessions, minisymposia and symposia.

Physician Accreditation Statement

The Association for Research in Vision and Ophthalmology (ARVO) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Physician Credit Designation

ARVO designates this live activity for a maximum of 19.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The full program details are available at ARVO.org/CMEinfo

Complete meeting information is available at ARVO.org/AM
Recording/Photography/Audiotape/Video Equipment Policy — Recording by any means including, but not limited to photographing, audiotaping, videotaping, screen capturing, and/or screen recording of any presentations or sessions — whether virtual or in person — at or during the Annual Meeting is strictly prohibited. Exceptions include recording by an ARVO-authorized agent for official purposes or by First Authors who wish to capture their own presentations. Violators risk confiscation of their equipment and/or dismissal/banning from the Meeting as deemed appropriate by ARVO.

Anti-harassment Policy — While attending the ARVO Annual Meeting, members, non-member participants and invited guests are entitled to a harassment-free environment as they exchange research and engage in any ARVO activity. For detailed information on ARVO’s Anti-Harassment Policy, visit ARVO.org/Policies.

If you wish to report a possible violation, go to the Meeting Management Office, Room 211–213. ARVO staff will follow the established procedures to address complaints.

Commercial Relationships Policy — Presenters must state and display all applicable commercial relationships. For more information on this important policy, see the Commercial Relationships Policy at ARVO.org/Commercial.

Clinical Trials Registration Policy — All clinical trials that will be reported in ARVO Annual Meeting abstracts must be registered on a publicly available database. The required acknowledgement of the First Author, acting as the authorized agent for all authors, certifies that any research presented in the abstract that reports on a clinical trial is registered, and the registration location and number is included on the abstract, in compliance with the ARVO Statement on Registering Clinical Trials, arvo.org/Clinical-Trials. For more information on this policy, refer to the Clinical Trials Registration Statement at ARVO.org/Clinical-Trials.

Children in the convention center — Children under 18 who are not scientific attendees are permitted at the meeting without registration when accompanied by a parent. Please do not leave your children unattended. Children may attend sessions unless they are disruptive. Children are not permitted in ticketed events without a ticket and are not allowed on the exhibit/poster hall floor on setup days.
Where collaboration thrives, innovation emerges.
Visit ZEISS at Booth #1109

ZEISS is accelerating ophthalmic care with insightful research, innovative advancement, and novel collaborations. Discover the transformative technologies used by leading retina and glaucoma clinicians and researchers worldwide at ARVO. Spend some time at booth #1109 to see first-hand how AI, integrated workplaces, global collaboration, and more are shaping the eye care clinic of tomorrow.

Featured booth activities:
- Meet our scientists
- Hear from clinical experts
- Tour our technologies
- Test your knowledge with a game of “Jeopard-eye”
Presenters

All speakers are required to check into the Speaker Ready Room, Room 217–219, preferably 24 hours, but no later than four hours, before their presentations.

Previously uploaded presentations must be reviewed and approved.

All presentation slides and other files must be uploaded in advance of your presentation. Speaker Ready Room audiovisual (AV) technicians will upload files and screen them for compatibility. Presenters will not be allowed to load PowerPoint slides or other files directly to the computer in the session room.

Personal laptops cannot be used for presentations in the session rooms. Do not bring your laptop or other media devices to the session.

If you are unavoidably delayed, you must still go directly to the Speaker Ready Room.

Speaker Ready Room — Room 217–219

- Fri., April 21  6–8pm
- Sat., April 22  7am–7pm
- Sun., April 23  7am–6pm
- Mon., April 24  7am–6pm
- Tues., April 25  7am–6pm
- Wed., April 26  7am–6pm
- Thurs., April 27  7am–2:30pm

For details, see ARVO.org/Presenters.

How to Connect

Wireless Internet — Complimentary internet access is available throughout the convention center. To access the internet, open your device Wi-Fi and select network name: ARVO. There is no password.
Come See What’s Possible

Visit us at Booth 1001
**Poster Presenters**

- Exhibit Hall will be open starting at 7am for poster presenters to hang their poster on the day of their presentation.
- All posters must be placed by 8am on the day of presentation and remain on display the entire day.
- Posters may not be displayed prior to the day of presentation.
- Presenters must be present at their posterboards during their scheduled presentation time on the day of their scheduled presentation and at the end-of-day All Posters session.
- Sunday poster presenters are strongly encouraged to register and print their badges on Saturday.
- Posters must be removed 15 minutes following the All Posters session each day. ARVO is not responsible for poster materials left at the end of day. Posters remaining on the posterboards will be removed and discarded.

For details, see [ARVO.org/Presenters](https://www.arvo.org/).  

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**Safety/Security Tips**

- Carry with you the name, address, phone numbers and email of an individual to contact in case of emergency. If you have a mobile phone, enter the emergency contact phone number in your contacts list under the heading “ICE” (In Case of Emergency).
- Be sure to carry a card describing any medical conditions or allergies you may have, or wear a medical alert tag.
- Do not wear your Meeting name badge out and about in New Orleans.
- Avoid unlit streets and always walk with another person when sightseeing or shopping, particularly at night.
- Do not display large amounts of cash when paying for taxis or other purchases.
- Do not leave unsecured valuables in your hotel room; lock them in your in-room safe. Hotels are not responsible for items left in your room.
- At the meeting, check items at the coat and bag check area in Lobby A of the convention center.
ARVO congratulates BrightFocus Foundation on its 50th anniversary!

BrightFocus Foundation is a premier nonprofit funder of research to defeat Alzheimer’s, macular degeneration, and glaucoma. We are proud to have funded $93 million in vision research and 2,620 investigators since inception.

Will you be next? Macular Degeneration Research and National Glaucoma Research grant applications open soon!

Learn more at brightfocus.org/apply.

Visit us at Booth #1318
Cash at the Meeting
ARVO 2023 is a cashless meeting; however, concession vendors will accept cash.

Concessions/Food Service
Food service is available in the convention center Sunday through Wednesday. See pg. 16 for a listing of convention center concessions.

New Orleans Information, Tours and Restaurants
There is a concierge desk staffed by On the Town. They will provide information about local attractions, shopping, local transportation, tours and restaurants.

Disabilities or Special Needs
The Ernest N. Morial Convention Center is accessible to the disabled. For assistance, including scooter needs, go to the Meeting Management Office, Room 211–213.

First Aid
The First Aid office is located in main lobby concourse and will be available during Meeting hours. You may also stop by the Meeting Management Office, Room 211–213.

Coat and Bag Check
Complimentary coat and bag check will be available in Lobby A.

Hours:
- Sat., April 22 7am–11pm
- Sun., April 23 7am–7:30pm
- Mon., April 24 7am–8:30pm
- Tues., April 25 6am–8pm
- Wed., April 26 7am–7:30pm
- Thurs., April 27 7am–6pm

ARVO is not responsible for items left at the end of the Meeting.

Sponsored by: Genentech
A Member of the Roche Group
Lost and Found
All lost items are taken to the Meeting Management Office, Room 211–213. Please stop by this office to see if your item has been found.

Mother’s Lounge
Please see staff in Meeting Management, Room 211–213, for access to the Mother’s Lounge, Room 201–202.

Prayer and Meditation Room
The Prayer and Meditation Room is 223. Contact the Meeting Management Office, Room 211–213, if you have questions.

Recycling
Recycling and compost bins are located throughout the convention center. Help ARVO in our efforts to be environmentally friendly and put your trash in the appropriate receptacle.

Security Services
If you need assistance while at the convention center, contact the Information Desk in ARVO Central in the Exhibit/Poster Hall or Meeting Management in Room 211–213.

Water Bottles/Fountains
Water fountains and bottle-filling stations are located throughout the Ernest N. Morial Convention Center.

Download the ARVO Annual Meeting mobile app
Visit your app store and search for ARVO 2023

Use the mobile app to:
- Build your daily schedule
- Find a speaker, session or poster
- Take notes on a session or poster
- View the Convention Center Map
- Find an exhibitor

Sponsored by: 4DMT
The Ernest N. Morial Convention Center offers several food service options. All concessions take Mastercard, VISA, and American Express.

Concessions

Atrium
Twain’s Deli
- Sat., April 22 ........ 10am–3pm
- Sun., April 23 – Wed. April 26 ...... 6:30am–3pm
- Thurs., April 27 ...... 6:30am–2pm

Coffee Shop
- Sat., April 22 ........ 7am–2pm
- Sun., April 23 – Wed. April 26 ...... 6:30am–4pm
- Thurs., April 27 ...... 6:30am–2pm

Atrium Café
Full-service coffee, breakfast bites, soups, salads, and NOLA favorites
- Sun., April 23 – Wed. April 26 ...... 10am–3pm
- Thurs., April 27 ...... 10am–2pm

Maui Wowi
Coffees and smoothies
- Sun., April 23 – Wed. April 26 ...... 6:30am–3pm
- Thurs., April 27 ...... 6:30am–2pm

Exhibit Hall
Exhibit Hall Food Court
Grab n go Espresso Cart
- Sun., April 23 – Wed., April 26 ...... 8am–6pm

Burger Shack
- Sun., April 23 – Wed., April 26 ...... 10am–5pm

Korean Bowl
- Sun., April 23 – Wed., April 26 ...... 10am–5pm

NOLA Wok
- Sun., April 23 – Wed., April 26 ...... 10am–5pm

Pita Hut Mediterranean
- Sun., April 23 – Wed., April 26 ...... 10am–5pm

Southwest Bowl
- Sun., April 23 – Wed., April 26 ...... 10am–5pm

Lobby A
Morning Fuel
- Sun., April 23 – Thurs., April 27 ...... 6:30am–4pm

La Nouvelle Foyer (2nd Level)
Espresso Cart
- Sun., April 23 – Wed., April 26 ...... 6:30am–3pm

2023 Annual Meeting Survey
We want to hear from you! Following the Annual Meeting, all attendees will receive a link to the Annual Meeting Survey. Please take a few minutes to respond and send us your thoughts about how ARVO can continue to improve the Annual Meeting. We appreciate your attendance and look forward to receiving your comments.
Headshot Lounge
Get a free professional headshot taken in Booth 1548 in the Exhibit Hall.

Hours:
Sunday – Tuesday: 8:30am–12pm, 1–4:30pm
Wednesday: 8:30am–12pm

Walk-up only, no appointment necessary. Hair and makeup will not be provided.

Drop-In Mentoring
Looking for career guidance from a female perspective?
Mid- and senior-level ARVO members provide 15–30 minute mentoring sessions during ARVO 2023.
Meet with a mentor at ARVO Central in the Exhibit Hall, Sun., April 23 – Wed., April 26, 12–3pm each day. No appointment necessary.
Meetings Information

Meeting Management Office
Staff will be available in Room 211–213 throughout the week to assist with Meeting services.

Hours:
- Sat., April 22  7am–7pm
- Sun., April 23  7am–6:30pm
- Mon. April 24  7am–7pm
- Tues., April 25  7am–6:30pm
- Wed., April 26  7am–6:30pm
- Thurs., April 27  7am–5pm

Badge Printing
ARVO 2023 badge printing will be in Lobby B of the Ernest N. Morial Convention Center. Lobby B includes:

- **Badge printing** – Bring your email confirmation with the QR code to an ExpressPass badge printing kiosk. Simply scan the QR code and receive your badges and/or tickets. QR codes can also be used from your smartphone.
- **Press Badge Pickup** – Pre-registered press can simply key in their name and print their badges at a badge printing kiosk.
- **Name Badge Replacement** – Replace a lost or forgotten name badge at the Attendee Help Desk for a $50 fee. Corrections to the badges are free.
- **Exhibitor Badge Pickup** – All pre-registered exhibitors should print their confirmation and bring it with them to the convention center. Simply scan the QR code at the Exhibitor desk.

Badge Printing Hours
Sunday presenters are strongly encouraged to print their badges on Saturday.

- Fri., April 21  6–8pm
- Sat., April 22  7am–7pm
- Sun., April 23  7am–6pm
- Mon., April 24  7am–6pm
- Tues., April 25  7am–6pm
- Wed., April 26  7am–6pm
- Thurs., April 27  7am–2:30pm
Speaker Ready Room — Room 217–219
All speakers are required to check into the Speaker Ready Room at least four hours in advance of their presentation.

- Fri., April 21  6–8pm
- Sat., April 22  7am–7pm
- Sun., April 23  7am–6pm
- Mon., April 24  7am–6pm
- Tues., April 25  7am–6pm
- Wed., April 26  7am–6pm
- Thurs., April 27  7am–2:30pm

For details, see ARVO.org/Presenters.

Press Activities
ARVO invites members of the press to cover paper and poster sessions at the Meeting. Pre-registered press can simply key in their names and print their badges at a badge printing kiosk. Please note that research presented at the Meeting may be proprietary or submitted for publication.

The Press Room is Room 215–216, with some space available for interviews. Please inquire in the Press Room.

ARVO Fellows
ARVO Fellows in the Class of 2023 may pick up their materials at the Executive Lounge, Room 226 of the convention center, during Badge Printing hours. Ribbons for prior year Fellows will also be available.

Travel Grant Recipients
Pick up your Travel Grant packet which includes your ribbon and reimbursement form at the Information Desk in Lobby B of the convention center on Saturday. Packets will be available at ARVO Central during the rest of the meeting.

Need Gifts?
Visit ARVO Central, Exhibit Hall
Opening Keynote
Sun., April 23 | 10:15–11:30am | Great Hall AD

*Emerging imaging technologies to study subcellular architecture, dynamics and function*

Jennifer Lippincott-Schwartz, PhD
Senior Group Leader
Howard Hughes Medical Institute
Janelia Research Campus

Closing Keynote
Thurs., April 27 | 4–5:15pm | Great Hall AD

*The beauty of sensory diversity*

Ivan R. Schwab, MD, FACS
Professor Emeritus of Ophthalmology
University of California, Davis

The ARVO/Alcon Keynote Series is sponsored by the ARVO Foundation through a generous grant from Alcon Laboratories.
OUR VISION

Every day we dare to envision a brighter future

We stand by patients with courageous science to match their will. With relentless ingenuity, we aim to achieve extraordinary discoveries including gene therapy innovations. We won’t stop striving until we restore and preserve vision for those living with retinal diseases.

www.retina.janssen.com
ARVO Distinguished Service Awards

Distinguished Service Award recipients will be recognized at the General Business Meeting, Tues, April 25, 10:45–11:30am, Rivergate Room.

Maureen G. Maguire, PhD, FARVO
University of Pennsylvania
Immediate Past President
Trustee, CL Section (2017 – 2022)

Louis R. Pasquale, MD, FARVO
Mount Sinai Health
Vice President, GL Section
(2018 – 2023)

Donald Hood, PhD, FARVO
Columbia University
Editor-in-Chief, IOVS
(2018 – 2022)

Andrew “Beau” Watson, OD, PhD
Apple, Inc.
Editor-in-Chief, Journal of Vision
(2018 – 2022)

Marco Zarbin, MD, PhD, FARVO
Rutgers–New Jersey Medical School
Founding Editor-in-Chief, TVST
(2012 – 2022)
Proctor Award and Lecture
Mon., April 24, 8:45–9:30am
Great Hall AD
Ophthalmology at the forefront of precision medicine: From genes to therapies for inherited retinal degenerations
Eric A. Pierce, MD, PhD, FARVO

Friedenwald Award and Lecture
Mon., April 24, 9:30–10:15am
Great Hall AD
The diabetic retinopathy “pandemic” and evolving global strategies
Tien Y. Wong, MBBS, PhD, FARVO

Weisenfeld Award and Lecture
Wed., April 26, 8:45–9:30am
Great Hall AD
Iliad and Odyssey: A journey weaving and unweaving the axon
Leonard Levin, MD, PhD, FARVO

Cogan Award and Lecture
Wed., April 26, 9:30–10:15am
Great Hall AD
Treating inherited retinal degenerative blindness
Budd Tucker, PhD
Joanne G. Angle Award

The Joanne G. Angle Award is the highest service honor to a volunteer professional bestowed by ARVO. This year the award is being presented to Nicholas Delamere, PhD, FARVO.

Delamere is a professor in the Department of Physiology at the University of Arizona in Tucson. He developed a connection with ARVO from the time he attended his first Annual Meeting as a postdoc in May 1977. An editor of *Investigative Ophthalmology & Visual Science* since 1998, he has served on several ARVO committees over the years, eventually becoming president of the Association in 2009.

“Being recognized in this way is incredibly touching because Joanne Angle was a very dear friend,” says Delamere. “It will be an honor to accept the award and be with everyone when we gather in New Orleans.”

Delamere will be recognized at the General Business Meeting Tues, April 25, 10:45–11:30am, Rivergate Room.

The Champalimaud Award Lecture

**Tues., April 25 | 6:30–7:30pm | Great Hall AD**

The António Champalimaud Vision Award is presented to active research groups involved in basic or clinical research which has led to a major breakthrough in the understanding and/or the preservation of vision.

The 2022 awards were presented to Gerrit Melles (The Netherlands) and Claes Dohlman (Sweden) for their groundbreaking research and treatment of corneal diseases, resulting in the restoration of vision for millions of people.

Attend the award lecture to hear Melles and Dohlman present on their revolutionary research and treatment of corneal diseases.
<table>
<thead>
<tr>
<th>Time</th>
<th>Title/ Section</th>
<th>CME Accredited</th>
<th>Location</th>
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<tbody>
<tr>
<td>8–10am</td>
<td>Mechanisms behind Myopia control treatments [VI] — Symposia</td>
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<td>La Nouvelle C</td>
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<td>Functional retinal imaging: Optoretinography (ORG) and beyond [MOI] — Symposia</td>
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<td>La Nouvelle AB</td>
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<td>Cell death in ocular health and disease: Mechanisms and emerging therapeutics [IM] — Symposia</td>
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<tr>
<td>10:15–11:30am</td>
<td>Emerging imaging technologies to study subcellular architecture, dynamics and function — Opening Keynote</td>
<td>*</td>
<td>Great Hall AD</td>
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<tr>
<td>12–1:45pm</td>
<td>Cellular and genetic diversity in the retinas of human and non-human primates [VN] — Minisymposia</td>
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<td>Image based machine learning for classification [MOI]</td>
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<td>356-357</td>
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<td></td>
<td>Retinal Diseases [CL]</td>
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<td>Amblyopia [EY]</td>
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<td>Lens cell development and differentiation [LE]</td>
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<td>Corneal Immunology [CO]</td>
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<td>252-254</td>
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<td>Corneal Stroma: Keratocytes, wound repair, healing [CO]</td>
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<td>Molecular Events in Diabetic Retinopathy [BI]</td>
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<td>R07-R08</td>
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<td>High-dimensional Data Types to Big Data in Ocular Gene Discovery and Translation [GEN]</td>
<td>*</td>
<td>R06</td>
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<td>Neurodegeneration [GL]</td>
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<td>R04-R05</td>
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<td>Inherited retinal degeneration: From diagnosis to treatment [RC]</td>
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<td>R02-R03</td>
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<td></td>
<td>Functional imaging and optoretinography [VI]</td>
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<td>La Nouvelle C</td>
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<td>AMD antiVEGF [RE]</td>
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<td>Posterior segment Imaging (non-AMD) [RE]</td>
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Complete meeting information is available at ARVO.org/AM
### Daily Program

Sun., April 23  ■  Papers, Sessions, Lectures, etc.

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<tr>
<td>2–3:30pm</td>
<td>Representation Matters: The Value of DEIA in Vision Research</td>
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<tr>
<td>3:45–5:30pm</td>
<td><strong>Novel models and approaches for cell replacement in retinal degeneration [RC] — Minisymposia</strong></td>
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<td>Low Vision Group: Challenges in intervention effectiveness research [LV]</td>
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<td>R06</td>
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<td><strong>Consequences of altered cell metabolism and/or mitochondrial functionality during ocular health and disease [IM] — Minisymposia</strong></td>
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<td>Retinal Potpourri [RE]</td>
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<td>353-355</td>
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<td>Glaucoma Data Science [GL]</td>
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<td>Corneal epithelium [CO]</td>
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<td>Corneal Neuropathy and Ocular Pain [CO]</td>
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<td>Myopia: Mechanism of Emmetropization and Eye Growth [AP]</td>
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<td>R09</td>
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<td>Animal Models of Ophthalmic Disease [GL]</td>
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<td>Diabetic Retinopathy Novel Mechanisms [RC]</td>
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<td>AMD: New drugs, delivery systems and mechanisms of action 1 [PH]</td>
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<td>AMD Imaging [RE]</td>
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<td>8–9:45am</td>
<td>Retinal ganglion cells, visual circuits and behavior [VN]</td>
<td>B0083-B0111</td>
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<td>Glaucoma: molecular, biochemical and biomechanical mechanisms [BI]</td>
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<td>Glaucoma Epidemiology [CL]</td>
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<td>Pathobiology of Microbial Infections [IM]</td>
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<td>Lacrimal gland and meibomian gland [CO]</td>
<td>B0305-B0322</td>
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<td>Tear film [CO]</td>
<td>B0323-B0338</td>
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<td>Ocular Surface health/disease and microbiome [CO]</td>
<td>B0386-B0399</td>
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<td>AI in the retina, photos and other [RE]</td>
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<td>AI in the retina using OCTA [RE]</td>
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<td>AI in retina using OCT [RE]</td>
<td>C0141-C0171</td>
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<td>Glaucoma Data Science [GL]</td>
<td>C0226-C0286</td>
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<td>Honing in on phenotypes and treatments using genomic technologies [GEN]</td>
<td>C0328-C0346</td>
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<td>Molecular and Biochemical Mechanisms of Ocular Disease [BI]</td>
<td>C0406-C0422</td>
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<td>12–1:45pm</td>
<td>Cataract surgery: outcomes and epidemiology [LE]</td>
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<td>Diabetic Retinopathy (clinical studies) [RC]</td>
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<td>Retinopathy – novel mechanisms and treatment approaches [RC]</td>
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<td>Antimicrobial Resistance: Epidemiology, Antimicrobials and Diagnostics [IM]</td>
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<td>Corneal Endothelium 2 [CO]</td>
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<td>Corneal Endothelium 1 [CO]</td>
<td>B0273-B0304</td>
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<td>Dry eye [CO]</td>
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<td>Corneal Neuropathy and Ocular Pain [CO]</td>
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<td>AMD New drugs, delivery systems and mechanisms of action 1 [PH]</td>
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<td>Gene therapy and gene editing for ocular disorders [BI]</td>
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<td>Myopia Epidemiology and Treatment [CL]</td>
<td>C0488-C0517</td>
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Poster board numbers correspond to poster location in the Exhibit Hall.  
B = Poster Area B, C = Poster Area C.
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<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
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<tr>
<td>12–1:45pm</td>
<td>Mechanisms of Refractive Error and Eye Development [AP]</td>
<td>C0518-C0543</td>
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<td>(continued)</td>
<td>Low vision services and quality of life [LV]</td>
<td>C0600-C0613</td>
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<td>Melanoma [AP]</td>
<td>C0636-C0677</td>
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<td>3:45–5:30pm</td>
<td>Diabetic Retinopathy (preclinical studies) [RC]</td>
<td>B0012-B0031</td>
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<td>Neurodegeneration [GL]</td>
<td>B0062-B0082</td>
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<td>Applications of adaptive optics and advanced imaging [VI]</td>
<td>C0001-C0029</td>
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<td>High resolution and functional imaging [MOI]</td>
<td>C0030-C0048</td>
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<td>Machine learning for segmentation and classification [MOI]</td>
<td>C0172-C0225</td>
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<td>AMD New drugs, delivery systems and mechanisms of action 2 [PH]</td>
<td>C0287-C0308</td>
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<td>Anterior Segment and Trauma Epidemiology [CL]</td>
<td>C0423-C0487</td>
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<td>Lens aging and cataractogenesis [LE]</td>
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<td>Retinal vasculature [RC]</td>
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<td>Retinoblastoma and childhood tumors [AP]</td>
<td>C0614-C0635</td>
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- linkedin.com/company/arvoinfo
- arvoconnect.arvo.org

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<tbody>
<tr>
<td>7–8:30am</td>
<td>NAEVR Defense Briefing</td>
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<td>Rivergate Room</td>
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<tr>
<td>8:45–9:30am</td>
<td><strong>Proctor Award and Lecture</strong></td>
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<td>Great Hall AD</td>
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<tr>
<td>9:30–10:15am</td>
<td><strong>Friedenwald Award and Lecture</strong></td>
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<td>Great Hall AD</td>
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<tr>
<td>10:30–11:15am</td>
<td>Section Business Meetings</td>
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<td>Various</td>
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<tr>
<td>11:30am–1:15pm</td>
<td><strong>Mitochondrial optic neuropathies — from disease mechanisms to therapeutic strategies [EY] — Minisymposia</strong></td>
<td>*</td>
<td>344</td>
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<tr>
<td></td>
<td><strong>Immune response in the anterior segment of the eye – lens, cornea and anterior uveitis [LE] — Minisymposia</strong></td>
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<td>La Nouvelle C</td>
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<tr>
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<td><strong>Epigenetic landscape in ocular health and disease [BI] — Minisymposia</strong></td>
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<td>Great Hall BC</td>
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<td>Functional imaging [MOI]</td>
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<td>356-357</td>
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<td></td>
<td>Vision Impairment and Quality of Life [CL]</td>
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<td></td>
<td>Contact lens [CO]</td>
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<td>252-254</td>
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<td>Corneal Endothelium [CO]</td>
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<td>Protecting the Ocular Surface from Infection [IM]</td>
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<td><strong>Mechanisms of tumorigenesis – novel experimental approaches and characterization [AP]</strong></td>
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<td>R09</td>
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<td>Glaucoma Structure and Function Relationships [GL]</td>
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<td>Retinopathy – novel treatment approaches [RC]</td>
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<td>R02-R03</td>
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<td>AMD: New drugs, delivery systems and mechanisms of action 2 [PH]</td>
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<td>1:30-3pm</td>
<td><strong>AI in Retina OCTs [RE]</strong></td>
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<td><strong>US-China Networking Forum</strong></td>
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<td>220-222</td>
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Mon., April 24  ■ Papers, Sessions, Lectures, etc.
## Daily Program

Mon., April 24  ■ Papers, Sessions, Lectures, etc.

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<tbody>
<tr>
<td>3:15-5pm</td>
<td>Genetics Group: Broadening diversity and inclusion in ocular genetics and multi-omics research [GEN]</td>
<td>R09</td>
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<td><strong>Extracellular Vesicles in the Eye: From cellular communicators, to biomarkers and therapeutics (Part I) [GL] — Minisymposia</strong></td>
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<td>High-resolution and wide-field imaging [MOI]</td>
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<td>Refractive Error/Myopia [CL]</td>
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<td>Optic Neuropathies [EY]</td>
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<td>Lens homeostasis, pathology, and regeneration [LE]</td>
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<td><strong>Corneal Immunology and Neovascularization [CO]</strong></td>
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<td>Photoreceptors and Outer Retinal Processing [VN]</td>
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<td>Innate Immunity in Ocular Health and Disease [IM]</td>
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<td></td>
<td>Advances in gene therapy and gene editing for ocular diseases 1 [BI]</td>
<td>R07-R08</td>
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<td>Low vision and comorbidity [LV]</td>
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<td>R06</td>
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<td>Neuroprotection [GL]</td>
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<td>R04-R05</td>
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<td>Emerging topics in the application of stem cells as a tool for vision research [RC]</td>
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<td>R02-R03</td>
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<td>Aqueous humor dynamics, and IOP [PH]</td>
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<td>R01</td>
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<td><strong>Corneal epithelial wound repair and healing [CO]</strong></td>
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<td>AI in Retina Imaging [RE]</td>
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<td>La Nouvelle AB</td>
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Complete meeting information is available at [ARVO.org/AM](http://ARVO.org/AM)
### Daily Program

#### Mon., April 24  ■  Posters

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<td>Aqueous humor dynamics, trabecular meshwork and ciliary body 1</td>
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<td>Aqueous humor dynamics, IOP, corneal disease, cytokines and</td>
<td>B0029-B0041</td>
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<td>growth factors [PH]</td>
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<td>Pediatric Epidemiology [CL]</td>
<td>B0042-B0076</td>
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<td>Amblyopia [EY]</td>
<td>B0077-B0106</td>
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<td>Visual psychophysics [VI]</td>
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<td>Inherited Retinal Degeneration [RC]</td>
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<td>Neuregeneration and Neuroprotective Mechanisms [GL]</td>
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<td>Neuron/Glia Interactions in the Retina [RC]</td>
<td>B0260-B0282</td>
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<td>Regeneration in Retina and RPE: Regulatory Mechanisms [RC]</td>
<td>B0313-B0336</td>
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<td></td>
<td>Inner and outer retinal circuits [VN]</td>
<td>B0337-B0370</td>
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<tr>
<td></td>
<td>Keratoconus and Collagen Crosslinking [CO]</td>
<td>B0403-B0418</td>
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<td>Corneal Biomechanics [CO]</td>
<td>B0419-B0441</td>
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<td>Corneal Immunology and Neovascularization [CO]</td>
<td>B0442-B0474</td>
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<td>AMD Epidemiology [CL]</td>
<td>C0001-C0024</td>
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<td>Retinal vascular diseases [RE]</td>
<td>C0220-C0255</td>
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<td>Retinal Laser [RE]</td>
<td>C0256-C0265</td>
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<td></td>
<td>Biochemical and Molecular Mechanisms of Diabetic Retinopathy</td>
<td>C0300-C0337</td>
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<td>High-dimensional data and methods ocular genomic studies [GEN]</td>
<td>C0402-C0427</td>
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<td>AMD Imaging (intermediate AMD) [RE]</td>
<td>C0085-C0107</td>
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<td>Walking and driving with low vision [LV]</td>
<td>B0107-B0123</td>
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<td>Neuroprotection, blood flow, ischemia-reperfusion and oxidative</td>
<td>B0214-B0233</td>
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<td>stress [PH]</td>
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<tr>
<td>3:15pm–5pm</td>
<td>Glaucoma Structure and Function Relationships [GL]</td>
<td>B0283-B0312</td>
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<td>Immunobiology of Eye Diseases: The Ocular Microenvironment</td>
<td>B0371-B0402</td>
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<td>Posterior Segment Imaging (Non-AMD) [RE]</td>
<td>C0025-C0037</td>
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Poster board numbers correspond to poster location in the Exhibit Hall.  
B = Poster Area B, C = Poster Area C.

Complete meeting information is available at [ARVO.org/AM](http://www.ARVO.org/AM)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Board #</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:15pm–5pm</td>
<td>AMD: Cell Biology, Pathology and Pre-Clinical Studies [RC]</td>
<td>C0038-C0084</td>
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<td>(continued)</td>
<td>AMD Imaging (advanced AMD) [RE]</td>
<td>C0108-C0132</td>
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<td>AMD Clinical Neovascular [RE]</td>
<td>C0133-C0158</td>
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<td>AMD antiVEGF [RE]</td>
<td>C0159-C0204</td>
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<td></td>
<td>AMD Clinical geographic atrophy [RE]</td>
<td>C0205-C0219</td>
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<td>Diabetic Retinopathy [CL]</td>
<td>C0266-C0299</td>
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<td></td>
<td>Biochemical and molecular disease mechanisms of the posterior segment [AP]</td>
<td>C0338-C0362</td>
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<td>Keratitis [CO]</td>
<td>C0363-C0380</td>
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<td>Corneal tissue engineering and regenerative medicine [CO]</td>
<td>C0381-C0401</td>
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<tr>
<td></td>
<td>Image processing and machine learning [MOI]</td>
<td>C0428-C0463</td>
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</table>

Mon., April 24 | Posters (continued)

Meet the Editors
Stop by ARVO Central to meet the editors of two of ARVO’s scientific journals

Joseph Carroll, PhD, FARVO
Editor-in-Chief, Investigative Ophthalmology & Visual Science
Roy S. Chuck, MD, PhD
Editor-in-Chief, Translational Vision Science & Technology

Mon., April 24  1:30–3pm  Wed., April 26  1:30–3pm

Ask about:
- Journal scope
- Peer review
- Best practices for improving your manuscript
- Causes for rejection
- Anything else you’ve always wanted to know

Poster board numbers correspond to poster location in the Exhibit Hall. B = Poster Area B, C = Poster Area C.
## Daily Program

### Tues., April 25

<table>
<thead>
<tr>
<th>Time</th>
<th>Title/ Section</th>
<th>CME Accredited</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7–8:30am</td>
<td>Breakfast with the Experts</td>
<td></td>
<td>208–210</td>
</tr>
<tr>
<td>8:45–10:30am</td>
<td><strong>Gene-independent therapeutic approaches for treatment of retinal disease</strong> [RC] – Minisymposia</td>
<td></td>
<td>La Nouvelle AB</td>
</tr>
<tr>
<td></td>
<td><strong>RPE heterogeneity in health and disease</strong> [BI] — Minisymposia</td>
<td>* R07-R08</td>
<td>R09</td>
</tr>
<tr>
<td></td>
<td><strong>Extracellular Vesicles in the Eye: From cellular communicators, to biomarkers and therapeutics (Part II)</strong> [AP] — Minisymposia</td>
<td>*</td>
<td>R09</td>
</tr>
<tr>
<td></td>
<td><strong>Epstein Award Session</strong></td>
<td></td>
<td>255-257</td>
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<tr>
<td></td>
<td><strong>Emerging Therapeutics to Maintain Corneal Health</strong> [CO] — Minisymposia</td>
<td></td>
<td>La Nouvelle C</td>
</tr>
<tr>
<td></td>
<td><strong>Advances in retinal connectomics</strong> [VN] — Minisymposia</td>
<td>*</td>
<td>244</td>
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<td></td>
<td><strong>New imaging technologies - intrasurgical and robotically assisted</strong> [MOI]</td>
<td>*</td>
<td>356-357</td>
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<td></td>
<td><strong>Retinal detachment</strong> [RE]</td>
<td>*</td>
<td>353-355</td>
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<td></td>
<td><strong>Public Health</strong> [CL]</td>
<td>*</td>
<td>345</td>
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<td></td>
<td><strong>Visual Development and Pathways</strong> [EY]</td>
<td>*</td>
<td>344</td>
</tr>
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<td></td>
<td><strong>Cataract risk, mechanisms and treatments</strong> [LE]</td>
<td></td>
<td>343</td>
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<td></td>
<td><strong>Mechanisms in Uveitis: Immune Cell Recruitment and Activation</strong> [IM]</td>
<td>*</td>
<td>243</td>
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<tr>
<td></td>
<td><strong>Preferred retinal locus and multisensory perception in low vision</strong> [LV]</td>
<td>*</td>
<td>R06</td>
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<tr>
<td></td>
<td><strong>Aqueous humor dynamics, trabecular meshwork and ciliary body 1</strong> [GL]</td>
<td>*</td>
<td>R04-R05</td>
</tr>
<tr>
<td></td>
<td><strong>Targeting mitochondria</strong> [RC]</td>
<td>*</td>
<td>R02-R03</td>
</tr>
<tr>
<td>10:45–11:30am</td>
<td><strong>Retina/RPE: New drugs, delivery and mechanisms of action</strong> [PH]</td>
<td></td>
<td>R01</td>
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<td></td>
<td><strong>General Business Meeting</strong></td>
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<td>Rivergate</td>
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Complete meeting information is available at [ARVO.org/AM](https://www.arvo.org)
## Daily Program

**Tues., April 25**  
**Papers, Sessions, Lectures, etc.**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title/ Section</th>
<th>CME Accredited</th>
<th>Location</th>
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<tbody>
<tr>
<td>11:45am–1:30pm</td>
<td>New imaging technology and signal processing [MOI]</td>
<td>356-357</td>
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<td></td>
<td>Vitreoretinal surgery [RE]</td>
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<td>353-355</td>
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<td></td>
<td>Glaucoma Epidemiology [CL]</td>
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<td>345</td>
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<tr>
<td></td>
<td>Neuro-Ophthalmology [EY]</td>
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<tr>
<td></td>
<td>Cataract surgery: outcomes, epidemiology and techniques [LE]</td>
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<td>343</td>
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<tr>
<td></td>
<td>Vision assessment and clinical applications [VI]</td>
<td></td>
<td>255-257</td>
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<tr>
<td></td>
<td>Dry eye (clinical) [CO]</td>
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<td>252-254</td>
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<td></td>
<td>Inner Retinal Circuits [VN]</td>
<td>*</td>
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<tr>
<td></td>
<td>Ocular microenvironment in shaping immune response [IM]</td>
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<td></td>
<td>Myopia: Structural Changes from Retina to Sclera [AP]</td>
<td>*</td>
<td>R09</td>
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<td>Functional exploration of genetic variants in ocular disorders [BI]</td>
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<td>R07-R08</td>
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<td></td>
<td>Improving visual functioning through advanced technology [LV]</td>
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<td></td>
<td>Neuroregeneration [GL]</td>
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<td>R04-R05</td>
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<td></td>
<td>Eye Development: Regulatory Mechanisms and Networks [RC]</td>
<td>*</td>
<td>R02-R03</td>
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<td></td>
<td>Retina/RPE: New drugs, delivery and mechanisms of action 2 [PH]</td>
<td></td>
<td>R01</td>
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<td></td>
<td>Corneal Development and Molecular Biology [CO]</td>
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<td>La Nouvelle C</td>
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<td></td>
<td>Diabetic Macular Edema [RE]</td>
<td></td>
<td>La Nouvelle AB</td>
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<tr>
<td>1:45–3:15pm</td>
<td>15th Annual WEAVR Luncheon</td>
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<td>Great Hall BC</td>
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<tr>
<td>3:30–5:15pm</td>
<td><strong>Seeing Diversity through the Human Eyes by Computer Vision [CL] — Minisymposia</strong></td>
<td></td>
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<tr>
<td></td>
<td>Myopia control and refractive error development [VI]</td>
<td>*</td>
<td>255-257</td>
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<tr>
<td></td>
<td>Keratitis [CO]</td>
<td>*</td>
<td>252-254</td>
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<tr>
<td></td>
<td>Dry eye (non clinical) [CO]</td>
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### Daily Program

#### Time

<table>
<thead>
<tr>
<th>Time</th>
<th>Title/Section</th>
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<tbody>
<tr>
<td>3:30–5:15pm (continued)</td>
<td>Diagnostic, prognostic, therapeutic implications for ocular tumors [AP]</td>
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<tr>
<td></td>
<td>Genomic dissection of the eye using ‘omics and single cell technology [GEN] *</td>
</tr>
<tr>
<td></td>
<td>New Ideas in Glaucoma [GL] *</td>
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<tr>
<td></td>
<td>Mechanisms of Retinal Vascular Remodeling and Barrier Function [RC] *</td>
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<td></td>
<td>Neuroprotection and blood flow [PH] *</td>
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<td></td>
<td>AMD Translational Studies [RE] *</td>
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<tr>
<td>6:30–7:30pm</td>
<td><strong>Champalimaud Vision Award Lecture</strong></td>
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#### CME Accredited

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<td>R09</td>
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<td>R06</td>
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<td>R04-R05</td>
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<td>R02-R03</td>
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<td>R01</td>
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<tr>
<td>La Nouvelle C</td>
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<td>La Nouvelle AB</td>
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<td>Great Hall AD</td>
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**How to successfully navigate the NEI grant application process from pre-submission to post-award**

**Wed., April 26, 9–11am**

**Exhibitor Education Lounge, Exhibit Hall**

Learn about NEI funding opportunities, what factors are considered when making funding decisions, and responsibilities after an award is made. Program Officers from NEI’s Division of Extramural Science Programs and Scientific Review Officers and Grant Specialists from NEI’s Division of Extramural Activities will present information about what you need to know during each stage of the application process. Understanding NEI priorities and the NIH grant process is critical for writing competitive grant applications.
### Daily Program

**Tues., April 25 • Posters**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Board #</th>
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<tbody>
<tr>
<td>8:45–10:30 am</td>
<td>Presbyopia and intraocular lenses [VI]</td>
<td>B0001-B0029</td>
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<td>Flow imaging [MOI]</td>
<td>B0086-B0130</td>
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<td></td>
<td>Neuroprotective Therapies [GL]</td>
<td>B0213-B0230</td>
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<tr>
<td></td>
<td>Retina/ RPE: New drugs, mechanisms of action and toxicity [PH]</td>
<td>B0304-B0319</td>
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<td>Drug delivery: Iris, ciliary body and posterior segment [PH]</td>
<td>B0320-B0342</td>
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<td></td>
<td>Diabetic Macular Edema Clinical Research [RE]</td>
<td>B0452-B0480</td>
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<td>Diabetic Retinopathy Medical [RE]</td>
<td>B0481-B0517</td>
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<td>Diabetic Macular Edema Anti-VEGF [RE]</td>
<td>B0518-B0535</td>
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<td>AMD translational studies [RE]</td>
<td>C0001-C0029</td>
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<td>AMD Clinical Intermediate AMD [RE]</td>
<td>C0030-C0062</td>
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<td>Ocular pathologies: From genes to genomes in diverse populations [GEN]</td>
<td>C0110-C0134</td>
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<td>Reading and information access [LV]</td>
<td>C0149-C0158</td>
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<tr>
<td>11:45 am–1:30 pm</td>
<td>Conjunctiva: cell biology, disease and surgery [CO]</td>
<td>B0367-B0383</td>
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<td>Mediating inflammation [RC]</td>
<td>B0427-B0451</td>
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<td>Retinal pigment epithelium [RC]</td>
<td>C0063-C0109</td>
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<td>Transcriptomics, proteomics, metabolomics and systems biology [BI]</td>
<td>C0135-C0148</td>
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<td>Public Health [CL]</td>
<td>C0159-C0180</td>
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<td>Healthcare Research [CL]</td>
<td>C0181-C0232</td>
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<td>Corneal epithelial wound repair and healing [CO]</td>
<td>C0253-C0289</td>
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<td>Corneal cell and molecular biology [CO]</td>
<td>C0290-C0318</td>
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<td></td>
<td>Stem Cells and Organoids [RC]</td>
<td>C0360-C0398</td>
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<td>Rod and cone physiology [RC]</td>
<td>C0399-C0422</td>
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<td>Retinal Function Testing and Evaluation [RE]</td>
<td>B0052-B0069</td>
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<td>Functional imaging [VI]</td>
<td>B0070-B0085</td>
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### Daily Program

#### Time | Session Title | Board #
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3:30–5:15pm (continued) | New development of OCT and OCTA [MOI] | B0131-B0162
Research in Clinical Imaging for the Anterior Segment, Glaucoma, and Retina [MOI] | B0163-B0212
Aqueous humor dynamics, trabecular meshwork and ciliary body 2 [GL] | B0231-B0280
Retina/RPE: Physiology/Pharmacology and Metabolism [PH] | B0281-B0303
Contact lens [CO] | B0343-B0366
Advances in Ocular Inflammatory Disease Therapy [IM] | B0384-B0416
The Role of Microbiome and Environmental Exposures in Ocular Inflammation [IM] | B0417-B0426
Corneal Epithelium [CO] | C0233-C0252
Ocular tumors (not melanoma and not RB) – pathogenesis, diagnostic, therapeutics [AP] | C0319-C0336
Retina Development [RC] | C0337-C0359
Macular diseases excluding AMD [RE] | C0423-C0460
Other Retinal Conditions [RE] | C0461-C0528

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### Future ARVO Annual Meetings

**May 5 – 9, 2024**
Seattle, Wash.
[VisitSeattle.org](http://visitsseattle.org)

**May 2 – 6, 2027**
San Diego, Calif.
[sandiego.org](http://sandiego.org)

**May 4 – 8, 2025**
Austin, Tex.
[austintexas.org](http://austintexas.org)

**April 30 – May 4, 2028**
Toronto, ON, Canada.
[DestinationToronto.com](http://destinationtoronto.com)

**May 3 – 7, 2026**
Denver, Colo.
[denver.org](http://denver.org)

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<tbody>
<tr>
<td>8:45–9:30am</td>
<td>Weisenfeld Award and Lecture</td>
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<td>9:30–10:15am</td>
<td>Cogan Award and Lecture</td>
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<tr>
<td>10:30am–12:15pm</td>
<td>Understanding Systemic Disease through Vascular Imaging [VI] — Minisymposia</td>
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<td>La Nouvelle C</td>
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<td>New diagnostic techniques and biomarkers [MOI]</td>
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<td>356-357</td>
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<td>Retinal prostheses, cell transplantation and gene therapy [RE]</td>
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<td>353-355</td>
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<td>Pediatric Epidemiology [CL]</td>
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<td>345</td>
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<td>Crystalline lens and accommodation [VI]</td>
<td>*</td>
<td>255-257</td>
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<tr>
<td></td>
<td>Corneal tissue engineering and regenerative medicine [CO]</td>
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<td>252-254</td>
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<td>Retinal Disease, regeneration, and repair [VN]</td>
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<td></td>
<td>Microbial Infection and Immunity [IM]</td>
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<tr>
<td></td>
<td>Advances in gene therapy and gene editing for ocular disorders 2 [BI]</td>
<td></td>
<td>R07-R08</td>
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<td></td>
<td>Ocular Flow and Biomechanics [GL]</td>
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<td>R04-R05</td>
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<td></td>
<td>Regulation of lipid metabolism in retinal health and disease [RC]</td>
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<td>R02-R03</td>
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<td></td>
<td>Physiology/Pharmacology: Trabecular meshwork and Retina/ RPE [PH]</td>
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<td>R01</td>
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<tr>
<td></td>
<td>Diabetic Retinopathy Medical [RE]</td>
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<td>La Nouvelle AB</td>
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<tr>
<td>12:30–2pm</td>
<td>NEI Director's Session – What's New at the National Eye Institute in 2023</td>
<td></td>
<td>Great Hall BC</td>
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<tr>
<td>2:15–4pm</td>
<td>OCT angiography clinical applications [MOI]</td>
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<td>356-357</td>
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<tr>
<td></td>
<td>Endophthalmitis Clinical [RE]</td>
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<td>353-355</td>
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<tr>
<td>2:15–4pm (continued)</td>
<td>Epidemiology of Anterior Segment and Trauma [CL]</td>
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<td>345</td>
</tr>
<tr>
<td></td>
<td>Pediatric Ophthalmology [EY]</td>
<td>*</td>
<td>344</td>
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<tr>
<td></td>
<td>Lens cell biology and biomechanics [LE]</td>
<td>*</td>
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<tr>
<td></td>
<td>Corneal Biomechanics [CO]</td>
<td></td>
<td>252-254</td>
</tr>
<tr>
<td></td>
<td>Retinal Ganglion Cells and Beyond [VN]</td>
<td>*</td>
<td>244</td>
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<tr>
<td></td>
<td>Antimicrobial and Immunomodulatory Therapeutics [IM]</td>
<td>*</td>
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<tr>
<td></td>
<td>Myopia: Structure-Function Relationship [AP]</td>
<td></td>
<td>R09</td>
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<tr>
<td></td>
<td>The optic nerve and lamina cribrosa in glaucoma [BI]</td>
<td>*</td>
<td>R07-R08</td>
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<tr>
<td></td>
<td>Molecular basis of heritable ocular phenotypes [GEN]</td>
<td>*</td>
<td>R06</td>
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<tr>
<td></td>
<td>Clinical Studies and Clinical Research [GL]</td>
<td></td>
<td>R04-R05</td>
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<tr>
<td></td>
<td>Glial contributions in the retina [RC]</td>
<td>*</td>
<td>R02-R03</td>
</tr>
<tr>
<td></td>
<td>Advanced imaging methods and clinical applications [VI]</td>
<td>*</td>
<td>La Nouvelle C</td>
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<tr>
<td></td>
<td>AMD Clinical Research [RE]</td>
<td></td>
<td>La Nouvelle AB</td>
</tr>
<tr>
<td>4-5:30pm</td>
<td>NEI Global Health Session</td>
<td></td>
<td>R09</td>
</tr>
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</table>

Wed., April 26 - Papers, Sessions, Lectures, etc.

Save the date

ARVO 2024

May 5 – 9 | Seattle

Complete meeting information is available at ARVO.org/AM
### Daily Program

#### Wed., April 26 - Posters

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Board #</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30am–12:15pm</td>
<td><strong>Gene and Cell Therapy [RC]</strong></td>
<td>B0121-B0151</td>
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<td><strong>Cellular pathways underlying retinal degeneration [RC]</strong></td>
<td>B0152-B0182</td>
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<td></td>
<td><strong>The Role of Infiltrating Immune Cells in Ocular Disease [IM]</strong></td>
<td>B0183-B0204</td>
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<td></td>
<td><strong>Endophthalmitis Clinical &amp; Intravitreal/periocular local therapies (excluding anti VEGF) [RE]</strong></td>
<td>B0242-B0254</td>
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<tr>
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<td><strong>Dry eye (Clinical) [CO]</strong></td>
<td>B0255-B0311</td>
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<td><strong>Dry Eye and MGD (Clinical) [CO]</strong></td>
<td>B0312-B0331</td>
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<td><strong>Corneal Imaging [CO]</strong></td>
<td>B0332-B0354</td>
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<td><strong>Thyroid eye disease and extraocular muscles [EY]</strong></td>
<td>B0355-B0372</td>
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<td><strong>Orbit and Oculoplastics [EY]</strong></td>
<td>B0373-B0395</td>
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<td><strong>Neuro-Ophthalmology [EY]</strong></td>
<td>B0396-B0447</td>
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<td></td>
<td><strong>Lens cell biology and stress [LE]</strong></td>
<td>C0001-C0014</td>
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<td></td>
<td><strong>Myopia: Clinical Interventions and Diagnostics [AP]</strong></td>
<td>C0015-C0048</td>
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<tr>
<td></td>
<td><strong>Retinal diseases Epidemiology and Treatment [CL]</strong></td>
<td>C0133-C0160</td>
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<tr>
<td></td>
<td><strong>Visual impairment and visual quality of life [CL]</strong></td>
<td>C0161-C0198</td>
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<tr>
<td></td>
<td><strong>Glaucosa Surgery and Wound Healing [GL]</strong></td>
<td>C0267-C0316</td>
</tr>
<tr>
<td></td>
<td><strong>Clinical Studies and Clinical Research [GL]</strong></td>
<td>C0317-C0345</td>
</tr>
<tr>
<td>2:15–4pm</td>
<td><strong>Biochemistry and Molecular Biology of the Retina/RPE [BI]</strong></td>
<td>B0001-B0069</td>
</tr>
<tr>
<td></td>
<td><strong>Genetic variants in human ocular disease [BI]</strong></td>
<td>B0070-B0120</td>
</tr>
<tr>
<td></td>
<td><strong>Retinal detachment, proliferative vitreoretinopathy and trauma [RE]</strong></td>
<td>B0205-B0241</td>
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<tr>
<td></td>
<td><strong>Corneal stroma: Keratocytes, wound repair and healing [CO]</strong></td>
<td>C0049-C0071</td>
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<td></td>
<td><strong>Retinal prostheses, cell transplantation and gene therapy [RE]</strong></td>
<td>C0072-C0096</td>
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<td></td>
<td><strong>Retinitis pigmentosa [RE]</strong></td>
<td>C0097-C0132</td>
</tr>
</tbody>
</table>

Poster board numbers correspond to poster location in the Exhibit Hall.  
B = Poster Area B, C = Poster Area C.

Complete meeting information is available at ARVO.org/AM
Wed., April 26 ■ Posters

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Board #</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:15–4pm (continued)</td>
<td>New biomarkers and preclinical [MOI]</td>
<td>C0199-C0224</td>
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<tr>
<td></td>
<td>Animal Models [GL]</td>
<td>C0225-C0246</td>
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<tr>
<td></td>
<td>Ocular Flow and Biomechanics [GL]</td>
<td>C0247-C0266</td>
</tr>
<tr>
<td></td>
<td>Physiology/Pharmacology: Trabecular meshwork and Retina/RPE [PH]</td>
<td>C0346-C0357</td>
</tr>
</tbody>
</table>

MIT Poster Award Session & Judging

Wed., April 26 | 5:30–7pm | Mosaic Lounge

MIT First Authors of the top five scored poster abstracts from each Scientific Section and Cross-sectional Group will participate in the MIT Outstanding Poster Award Competition. One award recipient from each Scientific Section and Cross-sectional Group will be selected by judges from each scientific section. Award recipients will be selected based on how well a poster displays the abstract’s research and on how effectively the MIT First Author discusses the research with the judges and with meeting participants.

All meeting participants are invited to view the competing posters and presentations. Winners will be announced on Thursday at the Closing Keynote Session.

Light refreshments will be served.

Poster board numbers correspond to poster location in the Exhibit Hall. B = Poster Area B, C = Poster Area C.
### Daily Program

**Thurs., April 27 - Papers, Sessions, Lectures, etc.**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title/Section</th>
<th>Location</th>
<th>CME Accredited</th>
</tr>
</thead>
<tbody>
<tr>
<td>8–10am</td>
<td><strong>Aging and sex as risk factors across multiple eye diseases</strong>&lt;br&gt;<strong>– Understanding the biological roles they play [LE] — Symposia</strong></td>
<td>Great Hall BC</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td><strong>Advanced molecular and bioinformatics methods define a new horizon for eye disease [IM] — Symposia</strong></td>
<td>La Nouvelle C</td>
<td></td>
</tr>
<tr>
<td>10:30am–12:15pm</td>
<td><strong>Retinopathy of prematurity [RE]</strong></td>
<td>353-355</td>
<td></td>
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<tr>
<td></td>
<td><strong>Lens fibrosis and stress [LE]</strong></td>
<td>343</td>
<td>*</td>
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<tr>
<td></td>
<td><strong>Visual Fields and Psychophysics [GL]</strong></td>
<td>255-257</td>
<td></td>
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<tr>
<td></td>
<td><strong>Corneal development and cell differentiation [CO]</strong></td>
<td>252-254</td>
<td>*</td>
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<tr>
<td></td>
<td><strong>Uveitis Therapeutics: Current State of the Art and Future Directions [IM]</strong></td>
<td>243</td>
<td>*</td>
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<tr>
<td></td>
<td><strong>Myopia: Emerging Clinical Interventions and Outcomes [AP]</strong></td>
<td>R09</td>
<td></td>
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<tr>
<td></td>
<td><strong>New frontiers in retina/RPE biology [BI]</strong></td>
<td>R07-R08</td>
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<tr>
<td></td>
<td><strong>Aqueous humor dynamics, trabecular meshwork and ciliary body 2 [GL]</strong></td>
<td>R04-R05</td>
<td>*</td>
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<tr>
<td></td>
<td><strong>Modeling inherited retinal disease [RC]</strong></td>
<td>R02-R03</td>
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<tr>
<td></td>
<td><strong>Retina/RPE: Physiology, Pharmacology and Metabolism [PH]</strong></td>
<td>R01</td>
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<tr>
<td></td>
<td><strong>AMD Clinical Trials [RE]</strong></td>
<td>Great Hall BC</td>
<td>*</td>
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<tr>
<td>12:45–2:30pm</td>
<td><strong>New machine learning methods for image analysis [MOI]</strong></td>
<td>356-357</td>
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<tr>
<td></td>
<td><strong>Retinitis pigmentosa [RE]</strong></td>
<td>353-355</td>
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<td></td>
<td><strong>Health Care Delivery [CL]</strong></td>
<td>345</td>
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<td></td>
<td><strong>Eye Movement Disorders [EY]</strong></td>
<td>344</td>
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<td></td>
<td><strong>Cataract and intraocular lenses [VI]</strong></td>
<td>255-257</td>
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<tr>
<td></td>
<td><strong>ERG: Basic Mechanisms and Disease [VN]</strong></td>
<td>244</td>
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</tbody>
</table>

Complete meeting information is available at [ARVO.org/AM](https://www.arvo.org/AM)
### Daily Program

<table>
<thead>
<tr>
<th>Time</th>
<th>Title/Section</th>
<th>CME Accredited</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:45–2:30pm</td>
<td>Macular diseases excluding AMD [RE]</td>
<td>*</td>
<td>R07-R08</td>
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<tr>
<td>(continued)</td>
<td>Cornea: other [CO]</td>
<td></td>
<td>R06</td>
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<td></td>
<td>Glaucoma Surgery and Lasers [GL]</td>
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<td>R04-R05</td>
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<tr>
<td></td>
<td>Age and cellular senescence [RC]</td>
<td>*</td>
<td>R02-R03</td>
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<tr>
<td>4–5:15pm</td>
<td><strong>The beauty of sensory diversity</strong> — Closing Keynote</td>
<td></td>
<td>Great Hall AD</td>
</tr>
</tbody>
</table>

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**Visit NAEVR Central in the Exhibit Hall**

**Hours:** Sun. – Wed., 8:30am–5pm

- Hosted by NAEVR's Dan Ignaszewski and David Epstein
- **Contact Congress to support vision research funding increases**
- **Learn about research funding resources, such as multiple Department of Defense (DoD) funding opportunities to meet critical vision research gaps**

**NAEVR’s Defense-Related Vision Research Opportunities Session**

**Mon., April 24, 7–8:30am, Rivergate Room**

NAEVR has invited DoD representatives to speak about FY2023 funding opportunities and past DoD awardees to offer insights into how researchers can be most responsive to the funding Program Announcement.

[eyeresearch.org](https://eyeresearch.org)
### Thurs., April 27 ■ Posters

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Board #</th>
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</thead>
<tbody>
<tr>
<td>8–9:45am</td>
<td>Insights into anterior segment disorders, periadnexal and orbital disorders, and development [AP]</td>
<td>B0001-B0024</td>
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<td></td>
<td>Corneal surgery: non refractive [CO]</td>
<td>B0079-B0101</td>
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<td>Corneal Surgery Refractive [CO]</td>
<td>B0102-B0120</td>
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<td></td>
<td>Ocular Inflammatory Disease Measurements and Impact [IM]</td>
<td>B0121-B0155</td>
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<td></td>
<td>Animal Models of retinal injury and disease [RC]</td>
<td>B0251-B0283</td>
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<td></td>
<td>Glaucoma Lasers [GL]</td>
<td>C0001-C0016</td>
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<td>Retinopathy of prematurity [RE]</td>
<td>C0064-C0087</td>
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<td>Myopia and refractive error development [VI]</td>
<td>C0121-C0151</td>
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<td>Ocular biometry and modelling [VI]</td>
<td>C0152-C0171</td>
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<td>Numerical techniques in visual optics [VI]</td>
<td>C0196-C0212</td>
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<td></td>
<td>Other technologies and developments [MOI]</td>
<td>C0244-C0270</td>
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<td>Non-optical imaging [MOI]</td>
<td>C0271-C0280</td>
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<td>Cornea: Other 1 [CO]</td>
<td>B0026-B0052</td>
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<td>Cornea: Other 2 [CO]</td>
<td>B0053-B0078</td>
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<td>Anti-inflammatory agents, antibiotics, and ocular toxicology [PH]</td>
<td>B0156-B0168a</td>
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<td>Retinoids and carotenoids [BI]</td>
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<td>Retinal disease, regeneration, and repair [VN]</td>
<td>B0210-B0250</td>
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<td>Vitreoretinal surgery [RE]</td>
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<td>Strabismus [EY]</td>
<td>C0088-C0102</td>
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<td>Eye Movements and Nystagmus [EY]</td>
<td>C0103-C0120</td>
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<td>Clinical assessment of vision [VI]</td>
<td>C0172-C0195</td>
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<td></td>
<td>Teaching, Research Publication [CL]</td>
<td>C0307-C0339</td>
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<td></td>
<td>Retina Cell Biology [RC]</td>
<td>B0179-B0209</td>
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<td></td>
<td>Visual Fields and Psychophysics [GL]</td>
<td>C0213-C0243</td>
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<tr>
<td></td>
<td>Brain stimulation, cortical technology and virtual reality [LV]</td>
<td>C0281-C0292</td>
</tr>
</tbody>
</table>

Poster board numbers correspond to poster location in the Exhibit Hall. B = Poster Area B, C = Poster Area C.
ARVO Social Events

Sunday Social at Fillmore New Orleans*
Sun., April 23, 7:30–10:30pm
6 Canal St.
Always a popular event, this year’s Sunday Social features a live band, NOLA-style activities and entertainment. Ticket includes admission and two drinks.

Student/Trainee Social
Mon., April 24, 6:30–8pm
Ernest N. Morial Convention Center | Mosaic Lounge
Members-in-Training are invited to join us in honoring the 2023 Travel Grant Recipients. Come and mingle with your colleagues and make new acquaintances.

ARVO Karaoke at Republic NOLA*
Wed., April 26, 9pm–12midnight
828 South Peters St.
Located in the French Quarter, this venue is ideal for showing your vocal talents or cheering on your favorite performer. Admission includes one drink. Light snacks will be provided. You must be 18 years or older to attend this event.

ARVO 2024 Seattle Kick-Off Reception
Thurs., April 27, 2:45–3:45pm
Ernest N. Morial Convention Center | Exhibit Hall
Join ARVO as we look forward to the ARVO 2024 Annual Meeting, May 5 – 9.

* Admission ticket required. Tickets available Saturday in Lobby B registration and Sunday – Wednesday at ARVO Central.

Need Flair?
Collect seven Eye Venture buttons for a chance to win free registration to ARVO 2024

Complete meeting information is available at ARVO.org/AM
Special Interest Group sessions

Join us online for 44 Special Interest Group (SIG) sessions.

SIG sessions are open to all 2023 Annual Meeting attendees and ARVO members.

SIG Dates
- May 11
- June 13
- June 29
- Sept. 12
- Sept. 28

Sessions will take place at 8am, 12pm and 6pm U.S. ET each day.

Learn more about the SIG sessions.

ARVO.org/SIG

Conferences and Workshops

Online Conferences
- Biomarkers in Ophthalmology
  Nov. 8 – 9
  Call for proposals: May 15 – June 26
- Advance – Research Career Development Conference
  Jan. 31 – Feb. 1, 2024

Committee workshops
- May 25 — How artificial intelligence can help bring ophthalmic care to underserved communities
- June 21 — Utilizing social media to further vision research
- July 19 — Non-invasive assessment of visual system structure and function in animal models
- Sept. 6 — Funding mechanisms for eye research
- Sept. 20 — Vision health disparities in minority populations across the globe
- Oct. 4 — A practical guide to scientific branding: Establishing and maintaining a social media presence
The Association for Research in Vision and Ophthalmology gratefully acknowledges the support of exhibiting companies and Annual Meeting supporters.
<table>
<thead>
<tr>
<th>Exhibits</th>
<th>A – Z</th>
</tr>
</thead>
</table>
| **20/20 Onsite** ................................................................. 1348  
29 Garden St.  
Everett, Mass.  02149  
2020 onsite.com  
Contact: Jessica Mays; 617-812-9453; jmays@2020 onsite.com |
| **Aero Pump GmbH** ............................................................... 825  
Dr.-Ruben-Rausing-Str. 5  
Hochheim am Main,  65239  
Germany  
aeropump.de  
Contact: Rouven Kraus; +49 6146603-115; rouven.kraus@aeropump.de |
| **Aier Eye Hospital Group** ................................................... 854  
No. 83 Wuzhong Rd.  
Shanghai, Shanghai  200235  
China  
aierchina.com  
Contact: Chong Shen; +86 18795991569; shenchong@aierchina.com |
| **Alcon Vision, LLC** ............................................................ 1101  
6201 South Freeway  
TC-425-3  
Fort Worth, Texas  76134  
alcon.com  
Contact: Sarah Bittle: 817-363-1017; sarah.bittle@alcon.com |
| **Alimera Sciences** ............................................................... 1011  
6310 Town Sq., Suite 400  
Alpharetta, Ga.  30005  
alimerasciences.com  
Contact: Bonnie Perkins; 678-527-1758; bonnie.perkins@alimerasciences.com |
| **Allergan, an Abbvie Company** ............................................ 1419  
2525 Dupont Dr.  
Irvine, Calif.  92612  
abbvie.com  
Contact: Mary Mikels; 714-246-4500; mary.mikels@abbvie.com |
| **Allergan, an AbbVie Company Medical Affairs** .................. 903  
2525 Dupont Dr.  
Irvine, Calif.  92612  
abbvie.com  
Contact: Meredith Johnson; 714-246-4500; meredith.johnson@abbvie.com |
| **Altasciences** ................................................................. 1010  
575 Armand-Frappier Blvd.  
Laval, QC  H7V 4B3  
Canada  
altasciences.com  
Contact: Sophie Dubois; 450-973-6077; sdubois@altasciences.com |

Exhibits current as of March 15, 2023

Complete meeting information is available at ARVO.org/AM
Apellis Pharmaceuticals .............................................. 1326
100 5th Ave.
Waltham, Mass. 02451
Apellis Pharmaceuticals
617-977-5700; info@apellis.com

Apellis Pharmaceuticals .............................................. 1340
100 5th Ave.
Waltham, Mass. 02451
Apellis Medical Affairs
617-977-5700; medinfo@apellis.com

Aptar Pharma .............................................................. 1223
250 North Route 303
Congers, N.Y. 10920
aptar.com/pharmaceutical/delivery-routes/eye-care
Contact: Bo Thompson; 845-639-3700; bo.thompson@aptar.com

Association Ocular Pharmacology and Therapeutics .............. 1148
4819 Emperor Blvd., Suite 400
Durham, N.C. 27703
aopt.org
Contact: Cheryl L. Rowe-Rendleman; 925-872-0691;
crrendleman@omarconsultants.com

Atelerix Ltd. ................................................................. 1445
Atelerix Ltd., The Biosphere, Draymans Way, Newcastle Helix
Newcastle Upon Tyne NE4 5BX
U.K.
atelerix.co.uk
Contact: Lindsay Smith; +44 (0) 7572 313 876; lindsay.smith@atelerix.co.uk

Atheln, Inc. .................................................................... 1157
6051 Scripps St.
San Diego, Calif. 92122
athelnbiomed.com
Contact: Adriana Manzi; 858-405-4584; adriana@athelnbiomed.com

Aurora Surgical, LLC .................................................... 718
780 94TH Ave. N, Suite 108
St Petersburg, Fla. 33702
aurorasurgical.com
Contact: Lena Jonsson; 727-821-3303; lj Jonsson@aurorasurgical.com

AYOXXA Biosystems, Inc. ............................................. 923
c/o Platinum CFO
2600 Tower Oaks Blvd., Suite 220
Rockville, Md. 20852
ayoxxa.com
Contact: Alex Kiraly; 704-491-8746; alex.kiraly@ayoxxa.com
Bitfount
128 City Rd.
London, EC1V 2NX
U.K.
bitfount.com
Contact: Naaman Tammuz; +44020 7183 4479; invoices@bitfount.com

Bloomage Biotechnology USA, Inc
181 New Rd., Suite 308
Parsippany, N.J. 07054
bloomagebioactive.com/index-e.html
Contact: Gavin Lee; 973-396-7691; lixq@bloomagebioactive.com

BrightFocus Foundation
22512 Gateway Center Dr.
Clarksburg, Md. 20871
brightfocus.org
Contact: Kara Summers; 301-948-3244; ksummers@brightfocus.org

C. Light Technologies, Inc.
84 High St., Suite 303
Medford, Mass. 02155
clighttechnologies.com
Contact: Christy Sheehy; 518-339-2895; christy@clighttechnologies.com

Cambridge Research Systems
80 Riverside Estate
Sir Thomas Longley Rd.
Rochester, Kent ME2 4BH
U.K.
crsld.com
Contact: Caterina (Katia) Ripamonti; 8804; c.ripamonti@crsld.com

Celanese
222 W. Las Colinas Blvd., Ste 900N
Irving, Texas 75039
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criver.com
Contact: Kerri Keane; 774-329-1679; kerri.keane@crl.com
<table>
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<tr>
<th>Company Name</th>
<th>Location</th>
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<tr>
<td>Chona Surgical Co.</td>
<td>E-209A GTB Enclave, Delhi, 110093 India</td>
<td>chonasurgical.com; +91 9899787779; <a href="mailto:chonasurg@yahoo.co.in">chonasurg@yahoo.co.in</a></td>
</tr>
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<td>Choroideremia Research Foundation</td>
<td>23 E. Brundreth St., Springfield, Mass. 01109</td>
<td>curechm.org; Kathi Wagner; 800-210-0233; <a href="mailto:kathiwagner@curechm.org">kathiwagner@curechm.org</a></td>
</tr>
<tr>
<td>Clinical Trials Resource Group</td>
<td>25568 Genesee Trail Rd, Golden, Colo. 80401</td>
<td>ctrgresearch.com; Kristoffer Mirkin; 805-618-8785; <a href="mailto:kmirkin@ctrgresearch.com">kmirkin@ctrgresearch.com</a></td>
</tr>
<tr>
<td>Cognition Therapeutics</td>
<td>2500 Westchester Ave, Purchase, N.Y. 10577</td>
<td>cogrx.com; Aline Sherwood; 201-294-9560; <a href="mailto:info@cogrx.com">info@cogrx.com</a></td>
</tr>
<tr>
<td>Coherus Biosciences</td>
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<td>coherus.com; Diane DeVoe; 650-395-0190; <a href="mailto:rfinuliar@coherus.com">rfinuliar@coherus.com</a></td>
</tr>
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</tr>
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</tr>
<tr>
<td>Corza/Katena</td>
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<td>corzeye.com; Gowtham Atluri; 973-989-1600; <a href="mailto:gowtham.atluri@corza.com">gowtham.atluri@corza.com</a></td>
</tr>
<tr>
<td>Cylite</td>
<td>7 / 45 Normanby Road, Notting Hill, VIC 3168 Australia</td>
<td>cyliteoptics.com; Kylee Hall; 61423575505; <a href="mailto:kylee.hall@cyliteoptics.com">kylee.hall@cyliteoptics.com</a></td>
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Exhibits current as of March 15, 2023

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<tr>
<td>Epsilon USA</td>
<td>13851 Roswell Ave. Suite I, Chino, Calif. 91710</td>
<td>Mohammed Ibrahim; 909-984-4614; <a href="mailto:epsilonusa1@gmail.com">epsilonusa1@gmail.com</a></td>
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<td>Roland Mattern; 905-515-1599; <a href="mailto:roland@esightcorp.com">roland@esightcorp.com</a></td>
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<td>Espansione Group</td>
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<tr>
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<td>Onkar Sawant, PhD; 979-204-0987; <a href="mailto:osawant@eversightvision.org">osawant@eversightvision.org</a></td>
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<td>Experimentica, Ltd</td>
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<th>Company</th>
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<tr>
<td>Geuder AG</td>
<td>Hertzstr. 4, Heidelberg, Baden-Wurttemberg 69126 Germany geuder.de/en</td>
<td>Michaela Weis; 49-6221-306-6; <a href="mailto:mweis@geuder.de">mweis@geuder.de</a></td>
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<td>Glaconix Biosciences, Inc.</td>
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<td>James Harris; 678-573-6280; <a href="mailto:jharris@globalvisiontech.com">jharris@globalvisiontech.com</a></td>
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<td>Joshua Park; 951-312-1800; <a href="mailto:admin@globebiomedical.com">admin@globebiomedical.com</a></td>
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<td>Ichor Life Sciences, Inc.</td>
<td>2561 US Route 11 LaFayette, N.Y. 13084</td>
<td>Christopher Schillo; 315-677-8400; <a href="mailto:marketing@ichorlifesciences.com">marketing@ichorlifesciences.com</a></td>
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<td>Imagine Eyes</td>
<td>18 rue Charles de Gaulle Orsay, 91400 France</td>
<td>Laurent Vabre; 33-164-861-566; <a href="mailto:lvabre@imagine-eyes.com">lvabre@imagine-eyes.com</a></td>
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<td>InFocus Clinical Research</td>
<td>1338 105 Continental Pl. Nashville, Tenn. 37027 infocusclinical.com/ Contact: Alexa Erazo; 615-312-8295; <a href="mailto:info@infocusclinical.com">info@infocusclinical.com</a></td>
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<td>Intalight</td>
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<td>Integral BioSystems, LLC</td>
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<td>International Society for Eye Research</td>
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<td>Iris Pharma</td>
<td>1301 Allee Hector Pintus La Gaude 06610 France Contact: iris-pharma.com; 33-493-594-959; <a href="mailto:marketing@iris-pharma.com">marketing@iris-pharma.com</a></td>
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<td>Iveric Bio</td>
<td>749 8 Sylvan Way Parsippany, N.J. 07054 Contact: Trisha Purcell; 973-224-7360; <a href="mailto:trisha.purcell@ivericbio.com">trisha.purcell@ivericbio.com</a></td>
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<td>JAMA Network</td>
<td>1012 330 N. Wabash Ave. Suite 39300 Chicago, Ill. 60611 jamanetwork.com Contact: Millette Jackson-Bates; 312-464-4868; <a href="mailto:millette.jackson-bates@ama-assn.org">millette.jackson-bates@ama-assn.org</a></td>
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<td>Janssen Pharmaceuticals</td>
<td>709 790 Township Line Rd. Suite 200 Raritan, N.J. 08869 retina.janssenmedicalaffairs.com Contact: Jenna Zeringo; 215-504-5082; <a href="mailto:jenna.zeringo@lumanity.com">jenna.zeringo@lumanity.com</a></td>
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<td>MS3 790 Township Line Rd., Suite 200 Raritan, N.J. 08869 retina.janssenmedicalaffairs.com/#/ Contact: Jenna Zeringo; 215-504-5082; <a href="mailto:jenna.zeringo@lumanity.com">jenna.zeringo@lumanity.com</a></td>
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</table>
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<td>Nitra</td>
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<td>285 Fulton St., 1 World Trade Center</td>
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<tr>
<td>OcuScience</td>
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<td>2764 North Green Valley Pkwy, Suite 262</td>
<td>Contact: Daniel Lindgren; 866-250-3937; <a href="mailto:dl@Ocu-Science.com">dl@Ocu-Science.com</a></td>
</tr>
</tbody>
</table>

Exhibits current as of March 15, 2023

Complete meeting information is available at ARVO.org/AM
OHSU Casey Eye Institute ................................................................. 841
515 SW Campus Dr.
Portland, Ore. 97239
ohsu.edu/casey
Contact: Leslie Lesner; 503-494-7917; lesner@ohsu.edu

Olleyes.......................................................................................... 1048
350 Springfield Ave., Suite 200
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olleyes.com
Contact: Melissa Satta; 855-655-3937; info@olleyes.com

Ophthalytics, LLC............................................................................. 1248
2830 Arabian Tr.
Marietta, Ga. 30062
ophthalytics.com
Contact: Awais Bajwa; 862-222-6680; contact@ophthalytics.com

Optoprobe Science, Ltd. ................................................................. 1620
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Fengtai District, Beijing
China
optoprobe-medical.com
Contact: Junqiang Liang; 861-771-8471-267; liangjunqiang@iopto.cn

Optos, Inc....................................................................................... 1400
500 Nickerson Rd., Suite 201
Marlborough, Mass. 01752
optos.com
Contact: Emily Vieira; 508-787-1585

OptymEdge.................................................................................... 955
401 N. Washington St.
Suite 700
Rockville, Md. 20850
optymedge.com
Contact: Saqib Parkar; 301-251-1161; sparkar@optymedge.com

Ora, Inc............................................................................................ 1401
300 Brickstone Square
Andover, Mass. 01810
oraclinical.com
Contact: Alec Jones; 978-685-8900; ajones@oraclinical.com

OSOD, LLC.................................................................................... 1007
6527 Normandy Ln., Suite 100
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ocularservices.com
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PharmaLegacy.................................................................................. 1449
10526 Sanshey Ln., Unit 108
San Diego, Calif. 92127
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Exhibits current as of March 15, 2023
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<table>
<thead>
<tr>
<th>Exhibits A – Z</th>
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<tr>
<td><strong>Pharmaron</strong></td>
<td>1229</td>
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<tr>
<td>436 Creamery Way, Suite 400</td>
<td></td>
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<tr>
<td>Exton, Pa. 19341</td>
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<td>pharmaron.com</td>
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<tr>
<td>Contact: Kelly Merroth; 267-962-6655; <a href="mailto:kelly.merroth@pharmaron.com">kelly.merroth@pharmaron.com</a></td>
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<tr>
<td><strong>Phelcom Technologies, LLC</strong></td>
<td>1354</td>
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<td>The Village Works – 769, Centre</td>
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<tr>
<td>Boston, Mass. 02130</td>
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<td>phelcom.com</td>
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<tr>
<td>Contact: Amanda Arthur; 857-265-6200; <a href="mailto:international@phelcom.com">international@phelcom.com</a></td>
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<tr>
<td><strong>Phelcom, Inc.</strong></td>
<td>1439</td>
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<tr>
<td>#407, 172, Dolma-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Seongnam-si 13605</td>
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<td>The Republic of Korea</td>
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<tr>
<td>philophos.com</td>
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<tr>
<td>Contact: +82.70.4652.3494; <a href="mailto:sales@philophos.com">sales@philophos.com</a></td>
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<tr>
<td><strong>Phoenix MICRON</strong></td>
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<tr>
<td>543 NW York Ave, Suite 100</td>
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<td>Bend, Ore. 97703</td>
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<td>phoenixmicron.com</td>
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<tr>
<td>Contact: Chris Sivile; 541-668-7539; <a href="mailto:sales@phoenixmicron.com">sales@phoenixmicron.com</a></td>
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<tr>
<td><strong>Powered Research</strong></td>
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<td>PO BOX 14650</td>
<td></td>
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<td>Durham, N.C. 27709</td>
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<td>poweredresearch.com</td>
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<tr>
<td>Contact: Ali Rosenberg; 984-884-4941; <a href="mailto:Arosenberg@poweredresearch.com">Arosenberg@poweredresearch.com</a></td>
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<tr>
<td><strong>Precision Vision, Inc.</strong></td>
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<tr>
<td>1725 Kilkenn, Ill. 60098</td>
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<tr>
<td>precision-vision.com</td>
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<tr>
<td>Contact: Jessica Kopidlansky; 815-223-2022; <a href="mailto:info@precision-vision.com">info@precision-vision.com</a></td>
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<tr>
<td><strong>PriMed Non-human Primate Research Center of Sichuan PriMed Shines Bio-tech Co., Ltd.</strong></td>
<td>948</td>
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<tr>
<td>B4-501, Tianfu Science Technology Park</td>
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<td>No.88, Keyuan South Rd., Hi-tech Zone</td>
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<td>Chengdu, Sichuan Province 610041</td>
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<td>China</td>
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<td>prmed.com.cn</td>
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<tr>
<td>Contact: Mingling Wu; 86-28-85921823; <a href="mailto:wuml@scprimed.com">wuml@scprimed.com</a></td>
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<tr>
<td><strong>ProMed Pharma, LLC</strong></td>
<td>907</td>
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<tr>
<td>15600 Medina Rd.</td>
<td></td>
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<tr>
<td>Plymouth, Minn. 55447</td>
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<td>promedpharmallc.com</td>
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<tr>
<td>Contact: James Arps; 763-331-3800; <a href="mailto:jim.arps@promedpharmallc.com">jim.arps@promedpharmallc.com</a></td>
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<tr>
<td><strong>Promedica International</strong></td>
<td>1305</td>
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<tr>
<td>3100 Bristol St., Suite 250</td>
<td></td>
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<tr>
<td>Costa Mesa, Calif. 92626</td>
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<tr>
<td>promedica-intl.com</td>
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<tr>
<td>Contact: Terrie Hopton; 714-460-7363; <a href="mailto:thopton@promedica-intl.com">thopton@promedica-intl.com</a></td>
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</tbody>
</table>
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Contact: Neil Thomas; 4.9170542236e+11; nmt@pupil-labs.com

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Save Sight Registries---------------------------------. 1151
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**Exhibits A –Z**

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**Spherix Global Insights**  .................................................................................................. 1454
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spherixglobalinsights.com
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**StageBio**  .................................................................................................................. 1047
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stagebio.com/
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**StreetLab**  .................................................................................................................. 1349
17 Rue Moreau
Paris 12 75012
France
streetlab-vision.com
Contact: gutman emmanuel; 067-389-3305; emmanuel.gutman@streetlab-vision.com

**Striatech**  .................................................................................................................. 1046
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stria.tech
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**The Sturge-Weber Foundation**  .................................................................................. 1638
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Aurora, Colo. 80016
sturge-weber.org
Contact: Karen L. Ball; 73-895-4445; kball@sturge-weber.org

**Thea Pharma, Inc.**  ........................................................................................................ 1241
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Lexington, Mass. 02420
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**Theia Imaging, LLC**  .................................................................................................. 1511
201 W Main St., Ste 200
Durham, N.C. 27701
theiaimaging.com
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Exhibits A – Z

Topcon Healthcare........................................................................................................ 1219
111 Bauer Dr.
Oakland, N.J. 07436
topconhealthcare.com
Contact: Kati Spencer; 201-599-5100; kspencer@topcon.com

Translational Imaging Innovations.............................................................................. 1246
PO 6356
Hickory, N.C. 28603
tiinnovations.com
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Trefoil Therapeutics, Inc. ............................................................................................ 1156
6330 Nancy Ridge Dr., Suite 103
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Dickinson, N.D. 58601
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TriApex Laboratories Co., Ltd. .................................................................................... 1518
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University of Nebraska Medical Center .................................................. 1513
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unmc.edu/eye/research/index.html
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usophthalmic.com
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Vasoptic Medical, Inc. ......................................................................... 927
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vasopticmedical.com
Contact: Hrishikesh Gadagkar; 410-245-0501; hrishikesh.gadagkar@vasoptic.com

Vial ................................................................................................. 1051
1050 Battery St., Suite 150
San Francisco, Calif.  94111
vial.com/sites/ophthalmology
Contact: Owen Allen; 630-310-1535; owen@vial.com

Viewpoint Behavior technology & Phenosys + ................................... 855
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Montreal, QC  H3S 1A7
Canada
vplsi.com
Contact: Eric BATUT; 514-343-5003; ebatut@vplsi.com

Virscio, Inc. ....................................................................................... 911
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virscio.com
Contact: Christopher Stanley: 203-498-9706; cstanley@virscio.com

Vision Share ...................................................................................... 1455
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Contact: PhilFasone; 872-808-0780; pfasone@visionshare.org

VisionGift .......................................................................................... 1437
2201 SE 11th Ave.
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visiongift.org
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<tr>
<th>Company</th>
<th>Location</th>
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<tbody>
<tr>
<td>Visionix, Inc.</td>
<td>160 Eisenhower Lane North, Lombard, Ill. 60148</td>
<td><a href="mailto:j.sola@visionix.com">j.sola@visionix.com</a></td>
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<td>VO-CRO</td>
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<td>443-617-8678; <a href="mailto:taylor.e.smith.1@vumc.org">taylor.e.smith.1@vumc.org</a></td>
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<td>Voxeleron, LLC</td>
<td>13809 Research Blvd., Suite 500, Austin, Texas 78750</td>
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<tr>
<td>WaveFront Dynamics</td>
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<td>Zilia</td>
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Exhibitor Presentations

The Exhibitor Education Lounge is located in the front of the Exhibit Hall. All presentations are 30 minutes, unless otherwise noted.

Sun., April 23
- 2pm – SightGlass Vision
  Manage contrast to manage myopia

Mon., April 24
- 10am – Emmes
  Expert’s perspectives on ophthalmic cell and gene therapies
- 11am – Eyerising International
  Repeated low-level red-light therapy: A new treatment for myopia control
- 12pm – Tarsus Pharmaceuticals
  The latest science on Demodex Blepharitis: A disease hiding in plain sight
- 1pm – Charles River
  Developing a preclinical plan to support an IND submission for ocular cell and gene therapy
- 2pm – Ocugen
  Modifier gene therapy for treatment of inherited retinal diseases: Retinitis Pigmentosa & Leber’s Congenital Amaurosis
- 3pm – Ocular CRC
  Career transitioning eye doctors to high-paying biopharma jobs

Tues., April 25
- 10am – Forge Biologics
  Accelerating gene therapy manufacturing for ocular diseases
- 11am – Altasciences
  Early development of ophthalmic drugs: Integration from lead selection to clinical proof of concept
- 2pm – Ocugen
  Nuclear receptor gene RORA as a potential therapeutic for Dry-AMD

Wed., April 26
- 9–11am – National Eye Institute
  How to successfully navigate the NEI grant application process from pre-submission to post-award
- 1pm – Pharmaron
  Studying retinal degeneration in preclinical models for inherited retinal disorders
- 2pm – Ocugen
  OCU200- a novel biologics for the treatment of DME, DR, and Wet-AMD
ARVO Fellows 2023

ARVO will induct the Fellows Class of 2023 at the opening ARVO/Alcon Keynote Session, to recognize and honor these members for their leadership, dedication and contributions to the Association.

**Gold Fellows**
Ron Adelman  
Abbot Clark  
Gislin Dagnelie  
Richard Dix  
Paul FitzGerald  
Juan Gallo  
Vishal Jhanji  
Hemant Khanna  
Ashok Kumar  
Allison McKendrick  
Lyne Racette  
Frances Rucker  
Hendrik Scholl  
Sangly Srinivas  
Suresh Viswanathan  
Barbara Wirostko  
Michael Wormstone  
Sarah Zhang

**Silver Fellows**
Steven Abcouwer  
Isabelle Audo  
Vladimir Bantseev  
Elizabeth Berger  
Peter Bex  
Eric Beyer  
Sandra Block  
Alex Bowers  
Shukti Chakravarti  
Kevin Chan  
Yan Chen  
Paul Donaldson  
Mitchell Dul  
Azza El-Remessy  
Benedetto Falsini  
Rafal Farjo  
Sina Farsiu  
Wolfgang Fink  
Gerhard Garhofer  
Stuart Graham  
Sandep Jain  
Hari Jayaram  
Lisa Keay  
Felipe Medeiros  
Jodhbir Mehta  
Donna Peters  
Vasantha Rao  
William Ridder  
Danielle Robertson  
Daniel Saban  
Rebecca Sappington  
Arthur Sit  
Andrew F. Smith  
Enrica Strettoi  
Shivalingappa Swamynathan  
Jaime Tejedor  
Walter Wittich  
Satoru Yamagami  
Gui-Shuang Ying

Complete meeting information is available at [ARVO.org/AM](http://ARVO.org/AM)
Dowling Society

The ARVO Foundation for Eye Research would like to recognize the members of the Dowling Society. Established to honor the innovative vision researcher and first chairman of the ARVO Foundation Board of Governors, John E. Dowling, PhD, FARVO, the society carries forth his spirit of innovative research by recognizing individuals for their significant support of eye and vision research.

Thank you to the generous members of the Dowling Society who have made a pledge or donation of $10,000 or more.

Gary W. Abrams, MD, FARVO and Jane C. Werner, MD
Anthony P. Adamis, MD, FARVO
Jayakrishna Ambati, MD, FARVO
Robert E. Anderson, MD, PhD, FARVO
Joanne Angle*, MLS, MPA
Sally S. Atherton, PhD, FARVO and Robert Atherton
Robert B. Barlow*, PhD, FARVO and Patricia Barlow
Haydee E. P. Bazan, PhD, FARVO and Nicolas G. Bazan, MD, PhD, FARVO
Bernard Becker*, MD, FARVO
David C. Beebe*, PhD, FARVO and Mrs. Betsy Beebe, PA-C
Paul S. Bernstein, MD, PhD, FARVO and Ann Bernstein
Eliot L. Berson*, MD, FARVO and Kyra Kaplan-Berson
Roger W. Beuerman*, PhD, FARVO
Laszlo Z. Bito, PhD
Janet C. Blanks, PhD, FARVO
Jeffrey H. Boatright, PhD, FARVO
William J. Brunken, PhD, FARVO and Dale D. Hunter, PhD, JD
Claude F. Burgoyne, MD, FARVO and Vicki Smith
Patrick Burke, MD, PhD
R. V. Paul Chan, MD and Ann-Marie Lobo-Chan, MD
Stanley Chang, MD, FARVO
Steve T. Charles, MD, FACS, FICS
Emily Y. Chew, MD, FARVO and Robert P. Murphy, MD
Michael F. Chiang, MD
Thomas A. Ciulla, MD, MBA
Bruce E. Cohan, MD
Lancey B. Cowan, JD, CAE
Cheryl M. Craft, PhD, FARVO
Patricia A. D’Amore, MBA, PhD, FARVO
Reza Dana, MD, MPH, MSc, FARVO
Paulus T. V. M. de Jong, MD, PhD, FARVO, FEBOphth, FRCOphth and Marij de Jong
John E. Dowling, PhD, FARVO and Judith F. Dowling
Joseph L. Dowling, MD
Melinda K. Duncan, PhD, FARVO
David L. Epstein*, MD, FARVO and Susan M. Epstein, RN, JD
Rafal Farjo, PhD and Krysten M. Farjo, PhD
Paul T. Finger, MD
Malinda E. C. Fitzgerald, PhD, FARVO
Steven J. Fliesler, PhD, FARVO
Robert N. Frank, MD, FARVO
Ronald E. P. Frenkel, MD
Juan E. Gallo, MD, PhD, FARVO
Ronnie Glaser and Bert M. Glaser*, MD, FARVO
Israel A. Goldberg, PhD and Diane Goldberg
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Hans E. Grossniklaus, MD, FARVO and Daurice A. Grossniklaus, PhD
Julia A. Haller, MD, FARVO and John D. Gottsch, MD, FARVO
Mary Elizabeth Hartnett, MD, FARVO

2022 Dowling Society inductee
* Deceased
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Emily Y. Chew, MD, FARVO and Robert P. Murphy, MD
Cheryl Mae Craft, PhD, FARVO
David L. Epstein*, MD, FARVO and
Susan M. Epstein, RN, JD
Jennifer J. Kang-Mieler, PhD, FARVO and
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ARVO is providing complimentary shuttle service that will be making continuous loops from each dedicated hotel route to the convention center.

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- **Sat., April 22** 6:30am–6:30pm
- **Sun., April 23** 6:30am–7:30pm
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*Consult the NextBus app via the ARVO mobile app for real-time shuttle information.*
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Hotel reservations for ARVO 2024 in Seattle open on Mon., April 24.

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