**Program Overview**

<table>
<thead>
<tr>
<th>Sun., May 5</th>
<th>Room</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration/Badge Pickup</td>
<td>Atrium Lobby</td>
<td>7am–6pm</td>
</tr>
<tr>
<td>ARVO Central</td>
<td>Skybridge</td>
<td>7:30am–6:15pm</td>
</tr>
<tr>
<td>Posters</td>
<td>See Mobile App/Meeting Planner</td>
<td>8–8:45am</td>
</tr>
<tr>
<td>Symposia</td>
<td>See Mobile App/Meeting Planner</td>
<td>8–10am</td>
</tr>
<tr>
<td>Exhibits</td>
<td>Exhibit Hall</td>
<td>9am–6pm</td>
</tr>
<tr>
<td>Opening Keynote Session</td>
<td>6ABC</td>
<td>10:15–11:45am</td>
</tr>
<tr>
<td>Keynote Author Book Signing</td>
<td>6BC Lobby</td>
<td>11:45am–12:15pm</td>
</tr>
<tr>
<td>Papers/Posters/Minisymposia</td>
<td>See Mobile App/Meeting Planner</td>
<td>1–2:45pm</td>
</tr>
<tr>
<td>Papers/Posters/Minisymposia</td>
<td>See Mobile App/Meeting Planner</td>
<td>3:15–5pm</td>
</tr>
<tr>
<td>All Posters</td>
<td>Poster Halls</td>
<td>5:15–6:15pm</td>
</tr>
<tr>
<td>ARVO Social*</td>
<td>The Museum of Flight</td>
<td>7:30–10:30pm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mon., May 6</th>
<th>Room</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration/Badge Pickup</td>
<td>Atrium Lobby</td>
<td>7am–6pm</td>
</tr>
<tr>
<td>ARVO Central</td>
<td>Skybridge</td>
<td>7:30am–6pm</td>
</tr>
<tr>
<td>NAEVR Briefing</td>
<td>2AB</td>
<td>7–8:30am</td>
</tr>
<tr>
<td>Papers/Posters/Minisymposia</td>
<td>See Mobile App/Meeting Planner</td>
<td>8:30–10:15am</td>
</tr>
<tr>
<td>Exhibits</td>
<td>Exhibit Hall</td>
<td>9am–6pm</td>
</tr>
<tr>
<td>Section Business Meetings</td>
<td>See Mobile App/Meeting Planner</td>
<td>10:30–11:15am</td>
</tr>
<tr>
<td>Proctor Award Lecture</td>
<td>6BC</td>
<td>11:30am–12:15pm</td>
</tr>
<tr>
<td>Friedenwald Award Lecture</td>
<td>6BC</td>
<td>12:15–1pm</td>
</tr>
<tr>
<td>Papers/Posters/Minisymposia</td>
<td>See Mobile App/Meeting Planner</td>
<td>3–4:45pm</td>
</tr>
<tr>
<td>All Posters</td>
<td>Poster Halls</td>
<td>5–6pm</td>
</tr>
<tr>
<td>Student-Trainee Social</td>
<td>Skybridge Lobby</td>
<td>6:30–8pm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tues., May 7</th>
<th>Room</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakfast with the Experts*</td>
<td>6BC</td>
<td>7–8:30am</td>
</tr>
<tr>
<td>Registration/Badge Pickup</td>
<td>Atrium Lobby</td>
<td>7am–6pm</td>
</tr>
<tr>
<td>ARVO Central</td>
<td>Skybridge</td>
<td>7:30am–6:30pm</td>
</tr>
<tr>
<td>Low Vision Cross-sectional Group</td>
<td>Chelan 2</td>
<td>8:30–10:15am</td>
</tr>
<tr>
<td>Exhibits</td>
<td>Exhibit Hall</td>
<td>9am–6pm</td>
</tr>
<tr>
<td>General Business Meeting</td>
<td>2AB</td>
<td>10:30–11:15am</td>
</tr>
<tr>
<td>WEAVR Luncheon*</td>
<td>Summitt Building</td>
<td>11:30am–1pm</td>
</tr>
<tr>
<td>U.S.–China Networking Forum</td>
<td>2AB</td>
<td>11:30am–1pm</td>
</tr>
<tr>
<td>Papers/Posters/Minisymposia</td>
<td>See Mobile App/Meeting Planner</td>
<td>1–2:30pm</td>
</tr>
<tr>
<td>Papers/Posters/Minisymposia</td>
<td>See Mobile App/Meeting Planner</td>
<td>3:30–5:15pm</td>
</tr>
<tr>
<td>All Posters</td>
<td>Poster Halls</td>
<td>5:30–6:30pm</td>
</tr>
<tr>
<td>ARVO/Champalimaud Lecture</td>
<td>6BC</td>
<td>6:30–7:30pm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wed., May 8</th>
<th>Room</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration/Badge Pickup</td>
<td>Atrium Lobby</td>
<td>7am–6pm</td>
</tr>
<tr>
<td>ARVO Central</td>
<td>Skybridge</td>
<td>7:30am–5:15pm</td>
</tr>
<tr>
<td>Weisenfeld Award Lecture</td>
<td>6BC</td>
<td>8:45–9:30am</td>
</tr>
<tr>
<td>Exhibits</td>
<td>Exhibit Hall</td>
<td>9am–5:15pm</td>
</tr>
<tr>
<td>Cogan Award Lecture</td>
<td>6BC</td>
<td>9:30–10:15am</td>
</tr>
<tr>
<td>Papers/Posters/Minisymposia</td>
<td>See Mobile App/Meeting Planner</td>
<td>10:30am–12:15pm</td>
</tr>
<tr>
<td>Genetics Cross-sectional Group</td>
<td>Tahoma 3</td>
<td>10:30am–12:15pm</td>
</tr>
<tr>
<td>Papers/Posters/Minisymposia</td>
<td>See Mobile App/Meeting Planner</td>
<td>2:15–4pm</td>
</tr>
<tr>
<td>All Posters</td>
<td>Poster Halls</td>
<td>4:15–5:15pm</td>
</tr>
<tr>
<td>MIT Poster Competition</td>
<td>2AB/2AB Lobby</td>
<td>5:30–7pm</td>
</tr>
<tr>
<td>ARVO Karaoke*</td>
<td>MoPop</td>
<td>9pm–Midnight</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Thurs., May 9</th>
<th>Room</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration/Badge Pickup</td>
<td>Atrium Lobby</td>
<td>7am–2:30pm</td>
</tr>
<tr>
<td>ARVO Central</td>
<td>Skybridge</td>
<td>7:30am–5pm</td>
</tr>
<tr>
<td>Posters</td>
<td>See Mobile App/Meeting Planner</td>
<td>8–8:45am</td>
</tr>
<tr>
<td>Symposia</td>
<td>See Mobile App/Meeting Planner</td>
<td>8–10am</td>
</tr>
<tr>
<td>Closing Keynote Session</td>
<td>6BC</td>
<td>10:15–11:30am</td>
</tr>
<tr>
<td>Papers/Posters/Minisymposia</td>
<td>See Mobile App/Meeting Planner</td>
<td>11:45am–1:30pm</td>
</tr>
<tr>
<td>Papers/Posters/Minisymposia</td>
<td>See Mobile App/Meeting Planner</td>
<td>2–3:45pm</td>
</tr>
<tr>
<td>All Posters/Salt Lake City 2025 Kickoff</td>
<td>Poster Halls/Skybridge Lobby</td>
<td>4–5pm</td>
</tr>
</tbody>
</table>

* Ticket Required
<table>
<thead>
<tr>
<th>Convention Center Maps</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARVO Policies</td>
<td>9</td>
</tr>
<tr>
<td>Presenter Guidelines</td>
<td>10</td>
</tr>
<tr>
<td>How to Connect</td>
<td>10</td>
</tr>
<tr>
<td>Safety/Security Tips</td>
<td>11</td>
</tr>
</tbody>
</table>

### Services
- Cash at the Meeting: 12
- Seattle Information, Tours and Restaurants: 12
- Disabilities or Special Needs: 12
- First Aid: 12
- Lost and Found: 12
- Mother’s Lounge: 12
- Coat and Bag Check: 12
- Prayer and Meditation Room: 13
- Quiet Room: 13
- Recycling: 13
- Security Services: 13
- Water Bottles/Fountains: 13
- Concessions: 14
- Restaurants: 15

### Meeting Information
- Meeting Management Office: 16
- Badge Printing: 16
- Badge Printing Hours: 16
- Speaker Ready Room: 17
- Press Activities: 17
- ARVO Fellows: 17
- Travel Grant Recipients: 17

### Awards and Awards Lectures
- ARVO/Alcon Keynote Series: 18
- Proctor Award and Lecture: 19
- Friedenwald Award and Lecture: 19
- Weisenfeld Award and Lecture: 19
- Cogan Award and Lecture: 19
- Distinguished Service Awards: 20
- Achievement and Advocacy Awards: 21
- Joanne G. Angle Award: 22
- Champalimaud Award Lecture: 22

### Daily Program Schedules
- Sunday: 23
- Monday: 27
- Tuesday: 31
- Wednesday: 36
- Thursday: 40
- Special Interest Groups: 41
- EyeVenture: 43
- ARVO Social Events: 44

### Exhibits
- Exhibit Hall Hours: 45

Complete meeting information is available at ARVO.org/AM
Complete meeting information is available at ARVO.org/AM

Table of Contents

Exhibit Hall Floor Plan ................................................................. 46
Exhibits A-Z .................................................................. 50
Exhibitor Presentations .......................................................... 73
Fellows Class of 2024 .......................................................... 74
Dowling Society Members .................................................. 76
Legacy Society Members ...................................................... 78
ARVO 2025 Salt Lake City Hotels .......................................... 79
Travel Grant Supporters ......................................................... 80

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 2024 Annual Meeting, held in Seattle, Wash., May 5 – 9, 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 23.25 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
Seattle Convention Center

Complete meeting information is available at ARVO.org/AM
Seattle Convention Center
800 Pike St. (rooms have names)

Skagit Lower Level
Yakima Level One
Chelan Level Two

The Conference Center

To/From Lower Level Entrance

1-2

Wild Rye Café Bakery

To/From Level 2 Pike Street

1-2

Open Fireplace

To/From Level 1

1-2

Open 5

To/From Level 3

To/From Level 2

To/From Level 4

Tahoma Level Three

Falls Suite

Open

Quiet Room

ARVO Imaging in the Eye Conference

Complete meeting information is available at ARVO.org/AM
Seattle Convention Center
705 Pike St. — Level 4 (rooms have numbers)
Seattle Convention Center
705 Pike St. — Level 6 (rooms have numbers)

ARVO/Alcon Opening Keynote
6ABC

ARVO/Alcon Closing Keynote
Champalimaud Award Lecture
Achievement Award Lectures
Breakfast with the Experts
6BC

Speaker-Ready Room
603

Download the ARVO Annual Meeting mobile app
Visit your app store and search for ARVO 2024

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 maps
- Find an exhibitor

Sponsored by:

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, nonmember 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 310. ARVO staff will follow 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.

Complete meeting information is available at ARVO.org/AM

9
Presenters
All speakers are required to check into the Speaker Ready Room, Room 603, 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 — 603
- Fri., May 3 6–9pm
- Sat., May 4 7am–6pm
- Sun., May 5 7am–6pm
- Mon., May 6 7am–6pm
- Tues., May 7 7am–6pm
- Wed., May 8 7am–6pm
- Thurs., May 9 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.
Poster Presenters
- Exhibit Hall will be open starting at 7:30am for poster presenters to hang their poster on the day of their presentation.
- All posters must be placed by 30 minutes prior to the first poster session 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.

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 Seattle.
- 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 on Level 1 of the convention center.
Cash at the Meeting
ARVO 2024 is a cashless meeting; however, there are cash-to-card machines if needed.

Seattle Information, Tours and Restaurants
There is a concierge desk staffed by Visit Seattle on Level 1 of the convention center. They will provide information about local attractions, shopping, local transportation, tours and restaurants.

Disabilities or Special Needs
The Seattle Convention Center is accessible to the disabled. For assistance, including scooter needs, go to the Meeting Management Office, Room 310.

First Aid
The First Aid office is located in Atrium Lobby on Level 4 of the convention center and will be available during Meeting hours. You may also stop by the Meeting Management Office, Room 310.

Lost and Found
All lost items are taken to the Meeting Management Office, Room 310. Please stop by this office to see if your item has been found.

Mother’s Lounge
Please see staff in Meeting Management, Room 310, for access to the Mother’s Lounge, Room 202.

Coat and Bag Check
Complimentary coat and bag check will be available in Level 1 of the convention center (behind the escalators)

Hours:
- Sat., May 4 7am–6pm
- Sun., May 5 7am–7pm
- Mon., May 6 7am–8:30pm
- Tues., May 7 6am–8pm
- Wed., May 8 7am–7:30pm
- Thurs., May 9 7am–5:30pm

ARVO is not responsible for items left at the end of the meeting.
Prayer and Meditation Room
The Prayer and Meditation Room is 203. Contact the Meeting Management Office, Room 310, if you have questions.

Quiet Room
The Falls Suite/Tahoma Level is set up as a room where attendees can get a sensory break from the bustle of the meeting.

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 staff in ARVO Central, Level 4 Skybridge, or Meeting Management, Room 310.

Water Bottles/Fountains
Water fountains and bottle-filling stations are located throughout the Seattle Convention Center.
The Seattle Convention Center offers several food service options. All concessions take Mastercard, VISA, and American Express.

**Concessions**

**Tahoma Lobby**
*DayStar*
A selection of hot and cold Starbucks coffee drinks and assorted of baked goods
- Sun., May 5: 12–4pm
- Mon., May 6: 8am–3pm
- Tues., May 7: 8am–3pm
- Wed., May 8: 10am–2pm

**Skybridge Lobby**
*(4th Level)*
*DayStar*
A selection of hot and cold Starbucks coffee drinks and assorted of baked goods
- Sun., May 5: 7am–3pm
- Mon., May 6: 8am–3pm
- Tues., May 7: 8am–3pm
- Wed., May 8: 8am–2pm
- Thurs., May 9: 7:30am–2pm

**Poster Area A**
*(Exhibit Hall)*
*DayStar*
A selection of hot and cold Starbucks coffee drinks and assorted of baked goods
- Sun., May 5: 7am–5pm
- Mon., May 6: 8am–5pm
- Tues., May 7: 8am–5pm
- Wed., May 8: 8:30am–4pm

Connect with ARVO on your favorite social media site to stay up-to-date on the latest news and information on eye and vision research.

- [twitter.com/ARVOinfo](http://twitter.com/ARVOinfo) or include #ARVO2024
- [facebook.com/ARVOinfo](http://facebook.com/ARVOinfo)
- [linkedin.com/company/arvoinfo](http://linkedin.com/company/arvoinfo)
- [threads.net/@arvoinfo](http://threads.net/@arvoinfo)
- [arvoconnect.arvo.org](http://arvoconnect.arvo.org)
## Convention Center Buildings
Several restaurants and cafes are located within the Seattle Convention Center Buildings
[seattleconventioncenter.com/visitors/retail](http://seattleconventioncenter.com/visitors/retail)

### Arch Building – 705 Pike St.
- **Audacity Wine Bar**
  - Tues. – Sat.: 2pm–9pm
- **Espresso Caffe Dior**
  - Mon. – Sun.: 7am–6pm
- **Ethioblu C Store**
  - Sun. – Tue.: 7am–10pm
  - Wed. – Sat.: 7am–2am
- **Juicy Café**
  - Mon. – Thurs.: 8am–3pm
  - Fri.: 8am–2pm
- **Taco Del Mar**
  - Mon. – Fri.: 10am–7pm

### Summit Building – 900 Pine Street
- **Bombo Italian Kitchen**
  - Daily: 2pm–1am
- **Monorail Espresso**
  - Mon. – Fri.: 7am–6pm
  - Sat. – Sun.: 8am–6pm
- **Pike Brewing Company**
  - Daily: 11am–7pm
- **Piroshky Piroshky**
  - Mon. – Fri.: 6am–6pm
  - Sat. – Sun.: 7am–6pm
- **Daawat Indian Grill & Bar**
  - (820 Pike Street)
  - Mon.-Sat.: 11am – 9:45 pm
  - Sun.: 12–9:45pm

### Union Square
One Union Square restaurants are accessible via walkway on Level 2 of convention center.
[unionsquareseattle.com](http://unionsquareseattle.com)

- **Cortina**
  - Mon. – Fri.: 11am–9pm
- **Cortina Café**
  - Mon. – Fri.: 7am–3pm
- **Dimples Gifts & Sundries**
  - Mon. – Fri.: 9am–2pm
- **Evergreens**
  - Mon. – Fri.: 10am–3pm
- **MOD Super Fast Pizza**
  - Sun. – Sun: 10:30am–10pm
- **Starbucks**
  - Mon. – Fri.: 5:30am – 5:30pm
- **Walla Walla Farms Cafe**
  - Mon. – Fri.: 8am–2pm
- **World Fresh Asian Eatery**
  - Mon. – Fri.: 11–2:30pm

Complete meeting information is available at [ARVO.org/AM](http://ARVO.org/AM)
Meeting Management Office
Staff will be available in Room 310 throughout the week to assist with Meeting services.

Hours:
- Sat., May 4 7am–6pm
- Sun., May 5 7am–6:30pm
- Mon. May 6 7am–7pm
- Tues., May 7 7am–6:30pm
- Wed., May 8 7am–6:30pm
- Thurs., May 9 7am–5pm

Badge Printing
ARVO 2024 badge printing will be in Atrium Lobby, Level 4, of the Seattle Convention Center. Atrium Lobby includes:
- Badge printing – Registered attendees can simply key in their name and print their badges at a badge printing kiosk.
- Press Badge Pickup – Pre-registered press can 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.
- Sat., May 4 7am–6pm
- Sun., May 5 7am–6pm
- Mon., May 6 7am–6pm
- Tues., May 7 7am–6pm
- Wed., May 8 7am–6pm
- Thurs., May 9 7am–2:30pm
**Speaker Ready Room — Room 603**

All speakers are required to check into the Speaker Ready Room at least four hours in advance of their presentation.

- Fri., May 3  6–9pm
- Sat., May 4  7am–6pm
- Sun., May 5  7am–6pm
- Mon., May 6  7am–6pm
- Tues., May 7  7am–6pm
- Wed., May 8  7am–6pm
- Thurs., May 9  7am–2:30pm

For details, see [ARVO.org/Presenters](http://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 303, with some space available for interviews. Please inquire in the Press Room.

**ARVO Fellows**

ARVO Fellows in the Class of 2024 may pick up their materials at the Executive/Fellows Lounge, Room 307–308 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 certificate at the Information Desk in the Atrium Lobby, Level 4, of the convention center on Saturday. Packets will be available at ARVO Central during the rest of the meeting.
Opening Keynote
Sun., May 5
10:15–11:45am
6ABC

Exploring the realm of animal perception

Ed Yong
Pulitzer Prize winner and bestselling author

Following the keynote, Yong will be available to sign copies of his book *An Immense World*. Copies will be available to purchase.

Closing Keynote
Thurs., May 9
10:15–11:30am
6BC

Communicating science

Sheril Kirshenbaum
Emmy Award-winning scientist and author

The ARVO/Alcon Keynote Series is sponsored by the ARVO Foundation through a generous grant from Alcon Laboratories.
ARVO Awards and Awards Lectures

Proctor Award and Lecture
Mon., May 6, 11:30am–12:15pm
6BC
The epidemic of age-related macular degeneration: Therapeutic strategies towards prevention
Emily Y. Chew, MD, FARVO

Friedenwald Award and Lecture
Mon., May 6, 12:15–1pm
6BC
Genes, networks and karma in retinal development and disease
Anand Swaroop, PhD, FARVO

Weisenfeld Award and Lecture
Wed., May 8, 8:45–9:30am
6BC
Macrophages: Two-sided coins in eye diseases
Martine J. Jager, MD, PhD, FARVO

Cogan Award and Lecture
Wed., May 8, 9:30–10:15am
6BC
Immune cells: The unseen guardians of ocular health and disease resilience
Daniel R. Saban, PhD, FARVO

Complete meeting information is available at ARVO.org/AM
ARVO Distinguished Service Awards

Distinguished Service Award recipients will be recognized at the General Business Meeting, Tues., May 7, 10:45–11:30am, 2AB.

Hans E. Grossniklaus, MD, MBA, FARVO
Emory University School of Medicine—Emory Eye Center
Immediate Past President 2023 – 2024
President, 2022 – 2023
AP Section Trustee, 2019 – 2022

Andrew Taylor, PhD, FARVO
Boston University School of Medicine
Vice President, 2023 – 2024
IM Section Trustee, 2019 – 2023

Stephen Burns, PhD, FARVO
Indiana University School of Optometry
Vice President, 2023 – 2024
VI Section Trustee, 2019 – 2023

Joel S. Schuman, MD, FARVO
Wills Eye Institute
Chair, ARVO Foundation Board of Governors, 2021 – 2024
ARVO Achievement and Advocacy Awards

Recipients will be recognized at the General Business Meeting, Tues., May 7, 10:45–11:30am, 2AB.

**Kupfer Award**
Hendrik P.N. Scholl, MD, FARVO
Co-Founder and Director
Institute of Molecular and Clinical Ophthalmology
Basel, Switzerland

**Special Recognition Award**
Israel Goldberg, PhD
Former Director of Extramural Programs
National Eye Institute
Bethesda, Md.

**Achievement in Eye and Vision Advocacy Award**
Roxanne Crosby-Nwaobi, RN, PhD
NIHR ICA
Moorfields NIHR Biomedical Research Centre
London, U.K.

**Emerging Advocate Award**
Rohan Bir Singh, MD
Schepens Eye Research Institute, Mass Eye and Ear
Harvard Medical School
Boston, Mass.
ARVO Awards and Awards Lectures

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 Justine R. Smith, FRANZCO, PhD, FARVO.

A member for over 20 years, Smith has served on the Annual Meeting Program Committee [representing the IM Section and serving as chair], the ARVO Foundation Awards Committee, the ARVO-EBAA Eye Bank Working Group, the Global Mentorship Working Group and the Women’s Leadership Development Working Group, which she chaired. In addition, she has been a member of the editorial board for IOVS, a Section Trustee on the ARVO Board, ARVO President (2013 – 2014) and Executive Vice President (2017 – 2022).

Smith will be recognized at the General Business Meeting Tues., May 7, 10:30–11:15am, 2AB.

The Champalimaud Award Lecture

Tues., May 7 | 6:30–7:30pm | 6BC

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 2023 award recognizes St. John of Jerusalem Eye Hospital for their fight against blindness in the West Bank and Gaza. The lecture will be presented by Ahmad Ma’ali, PhD, MPH, BSN, Chief Executive Officer.
### Daily Program

<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>Advancing therapeutic strategies for neurodegenerative blindness — Symposia</td>
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<td></td>
<td>Imaging cellular dynamics: Current trends in ophthalmic research— Symposia</td>
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<td>612</td>
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<td></td>
<td>Vision for the future: Exploring the transformative potential of Artificial Intelligence in Ophthalmology — Symposia</td>
<td>*</td>
<td>6E</td>
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</tbody>
</table>
| 10:15–11:45am | ARVO/Alcon Opening Keynote  
Ed Yong              |                 | 6ABC      |
| 1–2:45pm    | Retinal pigmented epithelium: Function and dysfunction (RC)                   | *              | 3AB      |
|             | Development of computational modeling, machine learning and artificial intelligence approaches in glaucoma (GL) |                 | 6A       |
|             | AMD: Clinical research I (RE)                                                 | *              | 6E       |
|             | Retinal development (RC)                                                      | *              | 606      |
|             | Ocular blood flow and biomechanics (GL)                                       | *              | 608      |
|             | Corneal epithelial wound repair and healing (CO)                             | *              | 609      |
|             | Retina miscellaneous: Translational (RE)                                      | *              | 612      |
|             | Dry eye: Clinical aspects (CO)                                                | *              | 615      |
|             | Neuro-ophthalmology and genetics (EY)                                         |               | 620      |
|             | Myopia - Epidemiology and intervention (CL)                                   |               | Skagit 4 |
|             | Metabolic pathways and dynamics in retina/RPE (PH)                            | *              | Yakima 1 |
|             | Activities of daily living with low vision (LV)                              | *              | Chelan 2 |
|             | New biomarkers and image interpretation (MOI)                                 |               | Tahoma 2 |
|             | Improving the understanding of genetic variants in ocular disorders (BI)      | *              | Tahoma 3 |

Sun., May 5 * Paper Sessions, Lectures, etc.
<table>
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<th>Time</th>
<th>Title/ Section</th>
<th>CME Accredited</th>
<th>Location</th>
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<tbody>
<tr>
<td>1–2:45pm (continued)</td>
<td><strong>Vice President Session:</strong> Understanding the initial stages of diabetic eye disease (VI) — Minisymposium</td>
<td>*</td>
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<tr>
<td>3:15–5pm</td>
<td><strong>ImmunoQuest:</strong> Journey into the intricacies of immune responses in ocular diseases (IM)</td>
<td>*</td>
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<td>Neurotherapeutic targeting and neurorestoration (GL)</td>
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<td></td>
<td>Advances in stem cell and organoid models of retinal development and disease (RC)</td>
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<td>Diabetic retinopathy (RE)</td>
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<td><strong>Vision to future: The translational scientist (AP) — Minisymposium</strong></td>
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<td>Cataractogenesis mechanisms and treatments (LE)</td>
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<td>AMD imaging I (RE)</td>
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<td>Corneal immunology and neovascularization (CO)</td>
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<td>Corneal imaging and biomechanics (CO)</td>
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<td>Glaucoma - Risk factors and omics (CL)</td>
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<td>Visual function, color vision and visual psychophysics (VI)</td>
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<td>Yakima 1</td>
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<td>Whole genome approaches to complex disease genetics (GEN)</td>
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<td>Chelan 2</td>
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<td>OCT clinical application (MOI)</td>
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<td>Current clinical trials and novel approaches for treatment of genetic disorders (BI)</td>
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<td><strong>Beyond the bottleneck:</strong> Nonaxonal signaling mechanisms in glaucoma and new approaches to neuroprotection (VN) — Minisymposium</td>
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</table>
Sun., May 5  ■ Posters

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Board #</th>
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<tr>
<td>8–9:45am</td>
<td>Corneal epithelial wound repair and healing (CO)</td>
<td>A0020-A0068</td>
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<td>Neuro-ophthalmology (EY)</td>
<td>A0296-A0350</td>
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<td>Myopia - Epidemiology and treatment (CL)</td>
<td>A0424-A0482</td>
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<td></td>
<td>Advances in retina/RPE therapeutics: New drugs, mechanisms of action, toxicity, and metabolic insights (PH)</td>
<td>B0180-B0206</td>
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<td>AMD-1 (anti-VEGF) (RE)</td>
<td>B0273-B0327</td>
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<td>Retinal vasculature and neovascularization (RC)</td>
<td>B0416-B0466</td>
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<td>Diabetic retinopathy: Mechanisms and pre-clinical studies (RC)</td>
<td>B0522-B0542</td>
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<td>Large language models in ophthalmology (CL)</td>
<td>B0668-B0693</td>
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<tr>
<td>1–2:45pm</td>
<td>Retinoblastoma (AP)</td>
<td>A0001-A0019</td>
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<td>Corneal stroma: Keratocytes, wound repair and healing (CO)</td>
<td>A0069-A0113</td>
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<td>Cataract surgery: Outcomes and epidemiology (LE)</td>
<td>A0166-A0195</td>
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<td>Inflammatory factors contributing to ocular diseases (IM)</td>
<td>A0220-A0241</td>
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<td>Teleophthalmology and screening (CL)</td>
<td>A0242-A0284</td>
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<td>Neurotherapeutic targeting and neurorestoration (GL)</td>
<td>B0071-B0109</td>
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<td>AMD therapeutic strategies (RC)</td>
<td>B0207-B0222</td>
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<td>AMD: Mechanisms and preclinical studies (RC)</td>
<td>B0223-B0272</td>
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<td>Retina miscellaneous I (RE)</td>
<td>B0361-B0415</td>
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<td>New developments in diabetic retinopathy (BI)</td>
<td>B0467-B0521</td>
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<td>Vitreoretinal surgery and retinal detachment I (RE)</td>
<td>B0544-B0594</td>
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<td>3:15–5pm</td>
<td>Corneal surgery (CO)</td>
<td>A0114-A0165</td>
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<td></td>
<td>Novel ideas in microbiology and immunology (IM)</td>
<td>A0196-A0219</td>
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<td>Eye movements and reading (LV)</td>
<td>A0285-A0295</td>
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</table>

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

**Sun., May 5**

### Posters (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Board #</th>
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<tr>
<td>3:15–5pm (continued)</td>
<td>Strabismus (EY)</td>
<td>A0351-A0385</td>
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<td></td>
<td>Mechanisms of Refractive Error and Eye Development (AP)</td>
<td>A0386-A0423</td>
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<td></td>
<td>Ocular flow and biomechanics (GL)</td>
<td>B0001-B0042</td>
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<td></td>
<td>Neuroprotection, blood flow, ischemia-reperfusion and aqueous humor dynamics (PH)</td>
<td>B0043-B0070</td>
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<td>Retinoids and retinal diseases (BI)</td>
<td>B0110-B0179</td>
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<td></td>
<td>AMD - Epidemiology (CL)</td>
<td>B0328-B0360</td>
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<td>New imaging biomarkers (MOI)</td>
<td>B0595-B0637</td>
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<td></td>
<td>Applications of adaptive optics and advanced imaging (VI)</td>
<td>B0638-B0667</td>
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<tr>
<td>5:15–6:15pm</td>
<td>All Posters</td>
<td></td>
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</tbody>
</table>

### 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 2024.

Meet with a mentor at ARVO Central on the Skybridge, Sun., May 5 – Wed., May 8, 12–3pm each day.

No appointment necessary.

Poster board numbers correspond to poster location in the Exhibit Hall.
A = Poster Area A, B = Poster Area B.
### Mon., May 6  
- Paper Sessions, Lectures, etc.

<table>
<thead>
<tr>
<th>Time</th>
<th>Title/Section</th>
<th>CME Accredited</th>
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<tr>
<td>7–8:30am</td>
<td>NAEVR Defense Briefing</td>
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<tr>
<td>8:30–10:15am</td>
<td>Retinal Barriers: Formation, function and disruption (RC) — Minisymposium</td>
<td>*</td>
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<td></td>
<td>Modelling vision at multiple scales: In search of a virtual visual system (VI) — Minisymposium</td>
<td>*</td>
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<td></td>
<td>Liquid biopsy for ocular tumors (AP)</td>
<td>*</td>
<td>608</td>
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<td></td>
<td>Novel findings in inherited retinal disorders (BI)</td>
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<td></td>
<td>Digital health and AI (CL)</td>
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<td>Skagit 4</td>
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<tr>
<td></td>
<td>Corneal surgery (CO)</td>
<td>*</td>
<td>615</td>
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<td></td>
<td>Eye movements and extraocular muscles (EY)</td>
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<tr>
<td></td>
<td>Structure and function of the optic nerve and posterior segment (GL)</td>
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<td>Novel cellular and molecular targets for ocular inflammatory disease (IM)</td>
<td>*</td>
<td>3AB</td>
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<td></td>
<td>Lens fiber cells and biomechanics (LE)</td>
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<td>Functional retinal imaging (MOI)</td>
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<td>Emerging therapies in ocular neuroprotection: From peptide treatments to molecular interventions in glaucoma, traumatic brain injury, and retinal disorders (PH)</td>
<td>*</td>
<td>606</td>
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<tr>
<td>10:30–11:15am</td>
<td>Section Business Meetings</td>
<td></td>
<td>See mobile app</td>
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</tbody>
</table>
| 11:30am–12:15pm | **Proctor Award and Lecture**  
Emily Y. Chew, MD, FARVO |                | 6BC      |
| 12:15–1pm     | **Friedenwald Award and Lecture**  
Anand Swaroop, PhD, FARVO                                                      |                | 6BC      |
### Daily Program

**Mon., May 6**  ■  Paper Sessions, Lectures, etc.

<table>
<thead>
<tr>
<th>Time</th>
<th>Title/Section</th>
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<th>Location</th>
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<tbody>
<tr>
<td>1:15–2:45pm</td>
<td>RUSH2A natural history study: 4 year progression data and implications for future trial design</td>
<td></td>
<td>6E</td>
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<tr>
<td>3–4:45pm</td>
<td>Biomechanical properties of normal, aging, and pathological eye tissues (LE) — Minisymposium</td>
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<td></td>
<td>A roadmap for developing vision-restoring therapies for patients suffering from optic neuropathy (GL) — Minisymposium</td>
<td>*</td>
<td>6BC</td>
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<td>RPE degeneration and aging (BI)</td>
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<td>Health care delivery and economy (CL)</td>
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<td>Skagit 4</td>
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<td></td>
<td>Corneal endothelium (CO)</td>
<td>615</td>
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<td>Pediatric ophthalmology (EY)</td>
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<td>Zooming in on genes and their influence on disease (GEN)</td>
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<td>Chelan 2</td>
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<tr>
<td></td>
<td>Tools and advancements in glaucoma diagnosis, monitoring and management (GL)</td>
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<td>Microbial symphony: Understanding the harmony of pathogens and immunology (IM)</td>
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<td>Progress on adaptive optics imaging (MOI)</td>
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<td>Advancements in age-related macular degeneration: Novel drugs, delivery systems, and mechanistic insights (PH)</td>
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<td>Yakima 1</td>
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<td>Retinitis pigmentosa (RE)</td>
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<td>AMD anti VEGF I (RE)</td>
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<td>Advances in age-related macular degeneration (RC)</td>
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<td>Photoreceptors and outer retina (VN)</td>
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<td>Time</td>
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<tr>
<td>8:30–10:15am</td>
<td>Stem cells and therapeutic development (RC)</td>
<td>A0001-A0046</td>
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<td>Machine learning for classification (MOI)</td>
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<td>Development of computational modeling, machine learning and artificial</td>
<td>A0337-A0368</td>
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<td>intelligence approaches in glaucoma (GL)</td>
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<td>Glial cell biology and neuron/glia interactions (RC)</td>
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<td>Metabolic and immune pathways in the retina (RC)</td>
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<td>Retinal vascular diseases and ROP I (RE)</td>
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<td>Diabetic retinopathy I (RE)</td>
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<td>Diabetic retinopathy - Epidemiology (CL)</td>
<td>B0121-B0164</td>
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<td>Visual impairment and visual quality of life (CL)</td>
<td>B0165-B0199</td>
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<td>Tools and advancements in glaucoma diagnosis, monitoring, medications, and</td>
<td>B0220-B0290</td>
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<td>lasers (GL)</td>
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<td>AMD new drugs, delivery systems and mechanisms of action I (PH)</td>
<td>B0291-B0317</td>
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<td>The nature of ocular surface homeostasis and disease (IM)</td>
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<td>Corneal epithelium (CO)</td>
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<td>Corneal imaging and biomechanics (CO)</td>
<td>B0451-B0499</td>
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<td>Cataract surgery: Treatments and techniques (LE)</td>
<td>B0591-B0618</td>
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<tr>
<td>3–4:45pm</td>
<td>Treatment strategies for inherited retinal disease (RC)</td>
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<td>Melanoma (AP)</td>
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<td>AMD-2 (imaging) (RE)</td>
<td>A0120-A0174</td>
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<td>Al in the retina I (RE)</td>
<td>A0175-A0214</td>
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<td>Machine learning: Progress on segmentation and other developments (MOI)</td>
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<td>Big data and EHR analysis (CL)</td>
<td>A0309-A0336</td>
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<td>RGC function, dysfunction and central processing (VN)</td>
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<td></td>
<td>Glaucoma and biomechanics (BI)</td>
<td>A0411-A0430</td>
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Poster board numbers correspond to poster location in the Exhibit Hall. A = Poster Area A, B = Poster Area B.
Mon., May 6  ▪ Posters (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Board #</th>
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<tbody>
<tr>
<td>3–4:45pm</td>
<td>Structure and function of the optic nerve and posterior segment (GL)</td>
<td>A0431-A0472</td>
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<td>(continued)</td>
<td>Mitochondrial metabolism in retinal health and disease (RC)</td>
<td>B0024-B0047</td>
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<tr>
<td></td>
<td>Walking and driving with low vision (LV)</td>
<td>B0200-B0219</td>
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<td></td>
<td>Advances in uveitis treatment (IM)</td>
<td>B0318-B0354</td>
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<td>Corneal neuropathy and ocular pain (CO)</td>
<td>B0393-B0426</td>
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<td>Contact lens (CO)</td>
<td>B0500-B0539</td>
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<tr>
<td></td>
<td>Myopia and refractive error development and mechanisms (VI)</td>
<td>B0540-B0590</td>
</tr>
<tr>
<td>5–6pm</td>
<td>All Posters</td>
<td></td>
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</tbody>
</table>

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., May 6  2:30–4pm  
Tues., May 7  12–1:30pm

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.  
A = Poster Area A, B = Poster Area B.
<table>
<thead>
<tr>
<th>Time</th>
<th>Title/ Section</th>
<th>CME Accredited</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30–10:15am</td>
<td><strong>Novel approaches and models to gain insight in albinism (EY) — Minisymposium</strong></td>
<td>*</td>
<td>620</td>
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<tr>
<td></td>
<td>Low Vision Group: Virtual and augmented reality for low vision (LV)</td>
<td></td>
<td>Chelan 2</td>
</tr>
<tr>
<td></td>
<td>Global health and health disparities (CL)</td>
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<td>Skagit 4</td>
</tr>
<tr>
<td></td>
<td>Corneal cell biology, molecular biology, tissue engineering and regenerative medicine (CO)</td>
<td></td>
<td>615</td>
</tr>
<tr>
<td></td>
<td>Conjunctiva, ocular surface in health and disease (CO)</td>
<td>*</td>
<td>608</td>
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<tr>
<td></td>
<td>Glaucoma risk and pathogenics: From data science to translational mechanisms (GL)</td>
<td>*</td>
<td>6A</td>
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<tr>
<td></td>
<td>Keeping the peace: Factors that regulate inflammation and disease (IM)</td>
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<td>3AB</td>
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<tr>
<td></td>
<td>Anterior segment imaging plus AI in Alzheimer's, glaucoma, and retina (MOI)</td>
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<tr>
<td></td>
<td>Understanding and modulating ocular physiology: Insights into aqueous humor dynamics, intraocular pressure, and blood flow (PH)</td>
<td></td>
<td>Yakima 1</td>
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<td></td>
<td>AI in the retina (RE)</td>
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<td>6E</td>
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<td></td>
<td>AMD: Clinical research II (RE)</td>
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<tr>
<td></td>
<td>Glial contributions to retinal health and disease (RC)</td>
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<tr>
<td></td>
<td>Myopia management treatments and mechanisms (VI)</td>
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<tr>
<td>10:30–11:15am</td>
<td>General Business Meeting</td>
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<td>2AB</td>
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<tr>
<td>11:30am–1pm</td>
<td>USA-China Networking Forum</td>
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<td></td>
<td>WEAVR Luncheon (tickets required)</td>
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<td>Summit Ballroom</td>
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<tr>
<td>1:15–3pm</td>
<td><strong>Vice President Session: Next-gen researchers in ocular immunology and microbiology (IM) — Minisymposium</strong></td>
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<td>3AB</td>
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<tr>
<td>Time</td>
<td>Title/ Section</td>
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<tr>
<td>1:15–3pm (continued)</td>
<td>New ideas in glaucoma (GL)</td>
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<td></td>
<td>AMD imaging II (RE)</td>
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<td></td>
<td>Retinal angiogenesis (RC)</td>
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<tr>
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<td>Retinoblastoma (AP)</td>
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<tr>
<td></td>
<td>Lens cell development, morphogenesis, and physiology (LE)</td>
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<tr>
<td></td>
<td>Stem cell and gene therapy (RE)</td>
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<tr>
<td></td>
<td>Contact lens (CO)</td>
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<td></td>
<td><strong>Functional consequences of amblyopia (EY) – Minisymposium</strong></td>
<td>*</td>
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<tr>
<td></td>
<td>Retina/RPE treatment: New drugs, delivery methods, and mechanisms of action (PH)</td>
<td>*</td>
<td>Yakima 1</td>
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<td></td>
<td>Large-scale omics analysis in ocular disease (GEN)</td>
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<td>Chelan 2</td>
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<td></td>
<td>Biomarker breakthroughs in ocular fluids (BI)</td>
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<tr>
<td></td>
<td>Retinal disease and neuronal repair (VN)</td>
<td>*</td>
<td>Tahoma 5</td>
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<tr>
<td>3:30–5:15pm</td>
<td><strong>Envision the future of ophthalmology through generative AI in images and language (CL) — Minisymposium</strong></td>
<td>*</td>
<td>Skagit 4</td>
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<tr>
<td></td>
<td><strong>Non-coding variation in human eye disease: From discovery to functional exploration (BI) — Minisymposium</strong></td>
<td>*</td>
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<tr>
<td></td>
<td>Myopia: Structural changes from cornea to sclera (AP)</td>
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<td></td>
<td>Keratoconus and collagen crosslinking (CO)</td>
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<tr>
<td></td>
<td>Dry eye regulators: Lacrimal gland and meibomian gland, basic mechanisms (CO)</td>
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<td>620</td>
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<tr>
<td></td>
<td>Neuroinflammation and neurodegeneration I (GL)</td>
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<tr>
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<td>On your last nerve: The nature of neuroimmune interactions at the ocular surface (IM)</td>
<td>*</td>
<td>Yakima 1</td>
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### Daily Program

<table>
<thead>
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<th>Title/ Section</th>
<th>CME Accredited</th>
<th>Location</th>
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<tbody>
<tr>
<td>3:30–5:15pm</td>
<td>Advances in cataract surgery (LE)</td>
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<td>OCT angiography clinical application (MOI)</td>
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<tr>
<td></td>
<td>Retina miscellaneous: Clinical (RE)</td>
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<td></td>
<td>Vitreoretinal surgery (RE)</td>
<td>*</td>
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<tr>
<td></td>
<td>Using patient derived stem cells to model and treat inherited retinal disease (RC)</td>
<td>*</td>
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<tr>
<td></td>
<td>Advances in diabetic retinopathy (RC)</td>
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<td>606</td>
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<td></td>
<td>Inner retinal processing (VN)</td>
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<tr>
<td></td>
<td>Functional imaging and optoretinography (VI)</td>
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<td>Tahoma 4</td>
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<tr>
<td>6:30–7:30pm</td>
<td>Champalimaud Vision Award Lecture</td>
<td></td>
<td>6BC</td>
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</table>

**Tues., May 7**

- Paper Sessions, Lectures, etc.

- Visit NAEVR, Booth #5003, Exhibit Hall
  - Hosted by NAEVR’s Dan Ignaszewski and Judy Hill
  - 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., May 6, 7–8:30am, 2AB
  - Vision Research Program (VRP) Manager Tian Wang, PhD, will present DoD-identified vision trauma research gaps and funding opportunities. The VRP is an important funding stream for researchers of deployment-related eye injuries and visual dysfunction. In addition, past DoD VRP grantees will provide insights on optimizing researchers’ responsiveness to funding requests.

[eyereresearch.org](http://eyereresearch.org)
## Daily Program

### Tues., May 7 • Posters

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Board #</th>
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<tbody>
<tr>
<td>8:30–10:15am</td>
<td><strong>Daily Program</strong></td>
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<tr>
<td></td>
<td>Anterior segment, ocular trauma and surgery - Epidemiology (CL)</td>
<td>A0001-A0054</td>
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<tr>
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<td>Corneal immunology and neovascularization (CO)</td>
<td>A0055-A0081</td>
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<td>Dry eye: Clinical aspects (CO)</td>
<td>A0082-A0146</td>
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<td>Clinical and experimental advances in the analysis of ocular inflammation (IM)</td>
<td>A0147-A0191</td>
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<td>Thyroid eye disease and extra ocular muscle (EY)</td>
<td>A0192-A0215</td>
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<td>Assessing the visual system I - Binocular vision, eye movements, motion, and color (VI)</td>
<td>A0233-A0262</td>
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<td>Retinitis pigmentosa and macular diseases (RE)</td>
<td>A0351-A0394</td>
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<td></td>
<td>Retina: Physiology and pharmacology (PH)</td>
<td>A0418-A0453</td>
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<td>Next-gen sequencing and omics studies (BI)</td>
<td>A0504-A0524</td>
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<td>Diabetic retinopathy II (RE)</td>
<td>B0476-B0508</td>
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<td>Lens aging, biomechanics, and cataractogenesis (LE)</td>
<td>B0509-B0534</td>
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<tr>
<td>1:15–3pm</td>
<td>Low vision performance assessment (LV)</td>
<td>A0216-A0232</td>
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<td>Optics, imaging, and retinal function (VI)</td>
<td>A0263-A0306</td>
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<td>AO, functional imaging, and new OCTA developments (MOI)</td>
<td>A0307-A0350</td>
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<td>Retinal regeneration and reprogramming (RC)</td>
<td>A0476-A0503</td>
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<td>Tools and advancements in glaucoma surgery (GL)</td>
<td>B0039-B0113</td>
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<td>Glaucoma: Mechanistic insights and emerging treatments (BI)</td>
<td>B0184-B0231</td>
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<td>Intraocular pressure, corneal disease, and ocular toxicology (PH)</td>
<td>B0250-B0273</td>
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<td>Conjunctiva, ocular surface in health and disease (CO)</td>
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<td>Cornea: Other (CO)</td>
<td>B0310-B0369</td>
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<td>AI in epidemiology and clinical research (CL)</td>
<td>B0370-B0399</td>
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Tues., May 7 ■ Posters

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<th>Time</th>
<th>Session Title</th>
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<tr>
<td>1:15–3pm (continued)</td>
<td>AI in the retina II (RE)</td>
<td>B0400-B0441</td>
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<td>AMD: Translational studies (RE)</td>
<td>B0442-B0475</td>
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<tr>
<td>3:30–5:15pm</td>
<td>Photoreceptors and outer retinal processing (VN)</td>
<td>A0395-A0417</td>
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<td>Neuroprotection in the retina (RC)</td>
<td>A0454-A0475</td>
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<td>Drug delivery: Iris ciliary body, intraocular fluids and posterior segment (PH)</td>
<td>B0001-B0038</td>
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<td>Vitreoretinal surgery and retinal detachment II (RE)</td>
<td>B0114-B0159</td>
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<td>Glaucoma risk and pathogenics: From data science to translational mechanisms (GL)</td>
<td>B0160-B0183</td>
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<td>Experimental models of glaucoma: In vitro, ex-vivo and in vivo (GL)</td>
<td>B0232-B0249</td>
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<td>Other ophthalmic tumors (AP)</td>
<td>B0535-B0562</td>
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<td>Keratitis (CO)</td>
<td>B0563-B0590</td>
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<td>Corneal endothelial biology (CO)</td>
<td>B0591-B0629</td>
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<td>Teaching, training and education (CL)</td>
<td>B0630-B0678</td>
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<td>Genetic variation underlying disease (GEN)</td>
<td>B0679-B0705</td>
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<tr>
<td>5:30–6:30pm</td>
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**Future ARVO Annual Meetings**

- **Salt Lake City, Utah**
  - May 4 – 8, 2025
  - visitsaltlake.com

- **Denver, Colo.**
  - May 3 – 7, 2026
  - denver.org

- **Toronto, ON, Canada**
  - April 30 – May 4, 2028
  - destinationtoronto.com

- **San Diego, Calif.**
  - May 2 – 6, 2027
  - sandiego.org

- **Seattle, Wash.**
  - May 6 – 10, 2029
  - visitseattle.org

Complete meeting information is available at ARVO.org/AM

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<table>
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<th>Location</th>
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<tbody>
<tr>
<td>8:45–9:30am</td>
<td><strong>Weisenfeld Award and Lecture</strong> Martine J. Jager, MD, PhD, FARVO</td>
<td></td>
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<tr>
<td>9:30–10:15am</td>
<td><strong>Cogan Award and Lecture</strong> Daniel R. Saban, PhD, FARVO</td>
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<td>6BC</td>
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<tr>
<td>10:30am–12:15pm</td>
<td><strong>The future of imaging ocular inflammation is now (IM) — Minisymposium</strong></td>
<td></td>
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<td>Outflow pathway and aqueous humor dynamics I (GL)</td>
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<tr>
<td></td>
<td>Therapeutic approaches for inherited retinal disease (RC)</td>
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<tr>
<td></td>
<td>Melanoma (AP)</td>
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<td>Lens fibrosis and stress (LE)</td>
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<td>Retinal vascular diseases and ROP (RE)</td>
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<td></td>
<td>Cornea: Other (CO)</td>
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<tr>
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<td>Amblyopia (EY)</td>
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<tr>
<td></td>
<td>Retinal diseases - Epidemiology (CL)</td>
<td>*</td>
<td>Skagit 4</td>
</tr>
<tr>
<td></td>
<td>Novel drugs, delivery systems, anti-inflammatory agents, antibiotics, antivirals, oxidative stress and aqueous humor dynamics (PH)</td>
<td>*</td>
<td>Yakima 1</td>
</tr>
<tr>
<td></td>
<td>Vision restoration and assistive technology (LV)</td>
<td>*</td>
<td>Chelan 2</td>
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<td>Advances in imaging technologies and applications (MOI)</td>
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<td>Tahoma 2</td>
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<td>Genetics Group: How statistical genetics can lead to improved therapeutics and patient care (GEN)</td>
<td>*</td>
<td>Tahoma 3</td>
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<tr>
<td>12:30–2pm</td>
<td><strong>NEI Director’s Session</strong></td>
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<td>6BC</td>
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<tr>
<td>2:15–4pm</td>
<td><strong>Neuroinflammation and neurodegeneration II (GL)</strong></td>
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<td>Diabetic macular edema (RE)</td>
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</table>
## Daily Program

<table>
<thead>
<tr>
<th>Time</th>
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<th>Location</th>
</tr>
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<tbody>
<tr>
<td>2:15–4pm</td>
<td>Photoreceptor development and degeneration (RC)</td>
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<tr>
<td>(continued)</td>
<td><strong>Illuminating myopia: Newer insights into the mechanism and effects of light on myopia (AP) — Minisymposium</strong></td>
<td>*</td>
<td>608</td>
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<tr>
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<td><strong>AMD anti VEGF II (RE)</strong></td>
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<td>612</td>
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<td><strong>Contact lens is not a piece of plastic: Back to the future (CO) — Minisymposium</strong></td>
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<td>Keratitis (CO)</td>
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<tr>
<td></td>
<td>AI in clinical research and real world (CL)</td>
<td></td>
<td>Skagit 4</td>
</tr>
<tr>
<td></td>
<td><strong>Targeting diabetic retinopathy: Pharmacological agents and their mechanisms of action (PH)</strong></td>
<td>*</td>
<td>Yakima 1</td>
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<tr>
<td></td>
<td><strong>Solving the missing heritability problem: Successes and novel approaches (BI)</strong></td>
<td>*</td>
<td>Tahoma 3</td>
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<tr>
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<td><strong>Adaptive optics imaging and clinical applications (VI)</strong></td>
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<td>Tahoma 4</td>
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<tr>
<td>4–5:30pm</td>
<td><strong>NEI Global Health Session</strong></td>
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<td>3AB</td>
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### 2024 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.
**Daily Program**

**Wed., May 8**  ■  **Posters**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Board #</th>
</tr>
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<tbody>
<tr>
<td>10:30am–12:15pm</td>
<td>AMD-3 (clinical research) (RE)</td>
<td>A0071-A0120</td>
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<tr>
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<td>Retina miscellaneous II (RE)</td>
<td>A0121-A0175</td>
</tr>
<tr>
<td></td>
<td>Corneal biology, tissue engineering, and regenerative medicine (CO)</td>
<td>A0176-A0223</td>
</tr>
<tr>
<td></td>
<td>Stem cell models of retinal development and disease (RC)</td>
<td>B0194-B0238</td>
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<td>Keratoconus and collagen crosslinking (CO)</td>
<td>A0224-A0248</td>
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<td>Diabetic retinopathy, anti-inflammatory agents, antibiotics and antivirals (PH)</td>
<td>A0304-A0330</td>
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<td>Glaucoma - Epidemiology (CL)</td>
<td>A0385-A0427</td>
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<td>Genetic factors in ocular phenotypes (BI)</td>
<td>B0103-B0166</td>
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<td>Photoreceptor development and degeneration (RC)</td>
<td>B0295-B0358</td>
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<td>OCT and OCT angiography I (MOI)</td>
<td>B0547-B0596</td>
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<td>2:15–4pm</td>
<td>Functional testing and visual fields (GL)</td>
<td>B0436-B0487</td>
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<td>Choroidal vasculature and neovascularization (RC)</td>
<td>A0001-A0029</td>
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<td>AMD and retina anatomy (AP)</td>
<td>A0030-A0070</td>
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<td>Lens physiology and stress (LE)</td>
<td>A0249-A0276</td>
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<td>Immunological landscape in ocular health and diseases (IM)</td>
<td>A0277-A0303</td>
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<td>Retina/RPE: New drugs, mechanisms of action, and toxicity (PH)</td>
<td>A0331-A0360</td>
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<td>Retinal diseases - Epidemiology (CL)</td>
<td>A0361-A0384</td>
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<td>Outflow pathway and aqueous humor dynamics I (GL)</td>
<td>A0428-A0449</td>
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<td>Outflow pathway and aqueous humor dynamics II (GL)</td>
<td>A0450-A0472</td>
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<td>Amblyopia and eye movements (EY)</td>
<td>B0001-B0042</td>
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<td>Pediatric ophthalmology (EY)</td>
<td>B0043-B0065</td>
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<td>Pediatric ophthalmology and inherited eye diseases (CL)</td>
<td>B0066-B0102</td>
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<td>Rare mutations and their consequence in the eye (GEN)</td>
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<td>Gene and cell therapies and other novel therapeutics I (BI)</td>
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Poster board numbers correspond to poster location in the Exhibit Hall. 
A = Poster Area A, B = Poster Area B.
### Wed., May 8  • Posters

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<th>Time</th>
<th>Session Title</th>
<th>Board #</th>
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<tr>
<td>2:15–4pm (continued)</td>
<td>Inner retinal circuits and function (VN)</td>
<td>B0359-B0377</td>
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<td>Retinal function testing and advanced therapies (RE)</td>
<td>B0378-B0420</td>
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<td>Technology for vision improvement and restoration (LV)</td>
<td>B0421-B0435</td>
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<td>Optics, photoreceptors, and visual acuity (VI)</td>
<td>B0488-B0522</td>
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<td>Extended reality and machine learning in vision science (VI)</td>
<td>B0523-B0546</td>
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<td>OCT and OCT angiography II (MOI)</td>
<td>B0597-B0643</td>
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<td>4:15–5:15pm</td>
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#### MIT Poster Award Session and Judging

**Wed., May 8 | 5:30–7pm | 2AB**

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. A = Poster Area A, B = Poster Area B.
## Daily Program

**Thurs., May 9**  ▪  Paper 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>8–10am</td>
<td>Innovative approaches for harnessing novel small and biomolecules for the treatment of eye diseases — Symposium</td>
<td>*</td>
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<td></td>
<td>Developing gene therapy for glaucoma neuroprotection: Opportunities and challenges — Symposium</td>
<td></td>
<td>6E</td>
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<tr>
<td>10:15–11:30am</td>
<td>ARVO/Alcon Closing Keynote</td>
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<td>6BC</td>
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<tr>
<td></td>
<td>Sheril Kirshenbaum</td>
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<tr>
<td>11:45am–1:30pm</td>
<td>Eye as a window to systemic inflammatory diseases (IM) — Minisymposium</td>
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<td></td>
<td>Experimental models of glaucoma: In vitro, ex-vivo and in vivo (GL)</td>
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<td>Regeneration and reprogramming in the retina and RPE (RC)</td>
<td>*</td>
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<tr>
<td></td>
<td>Myopia: Mechanisms of emmetropization and eye growth (AP)</td>
<td>*</td>
<td>608</td>
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<tr>
<td></td>
<td>Genetic factors in lens development and pathology (LE)</td>
<td>*</td>
<td>609</td>
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<tr>
<td></td>
<td>AMD: Translational studies (RE)</td>
<td></td>
<td>612</td>
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<td></td>
<td>Corneal epithelium (CO)</td>
<td>*</td>
<td>615</td>
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<td></td>
<td>Optic neuropathies (EY)</td>
<td>*</td>
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<td></td>
<td>Low vision services and mental health (LV)</td>
<td>*</td>
<td>Chelan 2</td>
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<td>Machine learning for image segmentation (MOI)</td>
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<td>Tahoma 2</td>
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<td>Tear fluid biomarkers: Fundamentals, hurdles and clinical applications (BI) — Minisymposium</td>
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<tr>
<td>2–3:45pm</td>
<td>Retina: Mechanisms of disease (VN)</td>
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<td>Advances in diagnosis and treatment of uveitis (IM)</td>
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<td>3AB</td>
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<td>Outflow pathway and aqueous humor dynamics II (GL)</td>
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<td></td>
<td>Mitochondrial function in healthy and diseased retina (RC) — Minisymposium</td>
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### Daily Program

<table>
<thead>
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<th>Time</th>
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<th>Location</th>
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<tr>
<td>2–3:45pm</td>
<td>Functional testing and visual fields (GL)</td>
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<td></td>
<td>Retinal detachment (RE)</td>
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<tr>
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<td>AMD: Clinical research III (RE)</td>
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<td>Corneal stroma: Keratocytes, wound repair and healing (CO)</td>
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<td></td>
<td>Corneal neuropathy and ocular pain (CO)</td>
<td>*</td>
<td>620</td>
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<td>Big data in ophthalmology (CL)</td>
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<td>Skagit 4</td>
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<td>Advancing treatment strategies in AMD: Emerging drugs, delivery systems, and mechanisms of action (PH)</td>
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<td>Yakima 1</td>
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<td>Binocular vision, accommodation and VR/AR systems (VI)</td>
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<td>Tahoma 4</td>
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</tbody>
</table>

**Thurs., May 9**  Paper Sessions, Lectures, etc.

**What’s coming up after ARVO 2024**

**Special Interest Group sessions**

Join us online for 23 Special Interest Group (SIG) sessions which will take place virtually in June and July.

SIG sessions are open to all 2024 Annual Meeting attendees and ARVO members at no charge.

**SIG Dates**

- June 11
- June 20
- June 25
- July 11
- July 23

Learn more about the SIG schedule and sessions.

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

**Thurs., May 9 | Posters**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Board #</th>
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<tbody>
<tr>
<td>8–9:45am</td>
<td>Pathobiology of microbial infections (IM)</td>
<td>B0001-B0029</td>
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<td>AI in the retina III (RE)</td>
<td>B0036-B0077</td>
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<td>AMD-4 (clinical research) (RE)</td>
<td>B0078-B0121</td>
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<td>Dry eye; non clinical (CO)</td>
<td>B0280-B0341</td>
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<td>Corneal endothelium: Dystrophies (CO)</td>
<td>B0342-B0380</td>
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<td>Anatomy pathology general (AP)</td>
<td>B0381-B0411</td>
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<td></td>
<td>Electroretinography: Basic mechanisms and disease (VN)</td>
<td>B0449-B0476</td>
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<td>Advancements in ophthalmic imaging (MOI)</td>
<td>B0477-B0521</td>
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<td>Novel approaches in imaging, processing and analysis (MOI)</td>
<td>B0522-B0566</td>
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<td>Low vision services, mental health and quality of life (LV)</td>
<td>B0629-B0650</td>
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<td>Public health (CL)</td>
<td>B0651-B0688</td>
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<td>Retinal degeneration (RC)</td>
<td>B0872-B0898</td>
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<td>Gene and cell therapies and other novel therapeutics II (BI)</td>
<td>B0899-B0947</td>
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<td>AMD New drugs, delivery systems and mechanisms of action II (PH)</td>
<td>B1001-B1028</td>
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<td>Ocular infection and inflammation (BI)</td>
<td>B0030-B0035</td>
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<td>11:45am–1:30pm</td>
<td>Diabetic macular edema (RE)</td>
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<td>Retinal vascular diseases and ROP II (RE)</td>
<td>B0177-B0214</td>
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<td>Presbyopia, accommodation and intraocular lenses (VI)</td>
<td>B0567-B0604</td>
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<td>Assessing the visual system II - Contrast sensitivity, visual fields, vision processing (VI)</td>
<td>B0605-B0628</td>
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<td>Ophthalmology health and healthcare research (CL)</td>
<td>B0689-B0752</td>
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<tr>
<td>2–3:45pm</td>
<td>Retinal cell biology (RC)</td>
<td>B0980-B1000a</td>
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<td>Tear film, meibomian gland, lacrimal gland (CO)</td>
<td>B0215-B0279</td>
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<tr>
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<td>Myopia: Diagnostics, interventions, and complications (AP)</td>
<td>B0412-B0448</td>
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<td>Posterior segment imaging and vitreoretinal interface disease (RE)</td>
<td>B0753-B0802</td>
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**Daily Program**

**Thurs., May 9  ▪ Posters**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Board #</th>
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<tr>
<td>2–3:45pm (continued)</td>
<td>Retinal development (RC)</td>
<td>B0803-B0836</td>
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<td>RPE development and disease (RC)</td>
<td>B0837-B0871</td>
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<td>Neuroinflammation and neurodegeneration I (GL)</td>
<td>B0948-B0961</td>
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<td>Neuroinflammation and neurodegeneration II (GL)</td>
<td>B0962-B0979</td>
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<td>4–5pm</td>
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**Join the ARVO 2024 Eye-Venture**

**How to play**

- There are 13 pin designs available for pickup at different locations during ARVO 2024. Some pins are available at a specific location, while others are available on a specific date and time.

- Pin quantities are limited and will be available on a first-come, first-served basis.

**Play to win!**

Collect 7 different pins and bring them to ARVO Central to enter to win prizes, including free registration to ARVO 2025 in Salt Lake City, Utah.

All entries must be submitted by 2pm on Thurs., May 9. Winners will be announced at the ARVO 2025 Kick-off Reception in ARVO Central, 4–5pm on May 9, and notified by email.

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

ARVO Social Events

ARVO Social at The Museum of Flight*
Sun., May 5, 7:30–10:30pm
9404 E. Marginal Way South | Seattle

Always a popular event, this year’s Social will be held at one of the largest air and space museums in the world. Connect with colleagues over 175 aircraft and spacecraft, countless artifacts, historical photographs, and fun interactive exhibits. Shuttles will be available from the Sheraton Grand, Hyatt Regency, Westin Seattle and Seattle Convention Center to the Museum of Flight. Ticket includes admission, two drinks and appetizers.

Student/Trainee Social
Mon., May 6, 6:30–8pm
Arch at 800 Pike | Seattle Convention Center | Skybridge Lobby

Members-in-Training are invited to join us in honoring the 2024 Travel Grant Recipients. Come and mingle with your colleagues and make new acquaintances.

ARVO Karaoke at MoPop (Museum of Pop Culture)*
Wed., May 8, 9pm–12midnight
325 5th Avenue N. | Seattle

New this year, Rockaroke Live-Band Karaoke! Rock the stage and sing your favorite song. Ticket gives you access also to MoPop’s museum galleries, including Nirvana: Taking Punk to the Masses, Hendrix: Wild Blue Angel, Guitar Gallery, Indie Game Revolution, Sound Lab, and Hidden Worlds: The Films of Laika. Admission includes one drink. Light snacks will be provided.

ARVO 2025 Salt Lake City Kick-Off Reception
Thurs., May 9, 4–5pm | Seattle Convention Center | Skybridge

Join ARVO as we look forward to the ARVO 2025 Annual Meeting, May 4 – 8.

*Admission ticket required. Tickets available Saturday in Atrium Lobby registration and Sunday – Wednesday at ARVO Central on the Skybridge while supplies last. Quantities limited.
Exhibit Hours

Sun., May 5 9am–6pm
Mon., May 6 9am–6pm
Tues., May 7 9am–6pm
Wed., May 8 9am–5:15pm

The Association for Research in Vision and Ophthalmology gratefully acknowledges the support of exhibiting companies and Annual Meeting supporters.
Complete meeting information is available at ARVO.org/AM
Exhibits A – Z

20/20 Onsite .......................................................... 5221
29 Garden St.
Everett, Mass. 02149
2020onsite.com
Jessica Mays; 617.812.9453; jmays@2020onsite.com

AbbVie .......................................................... 4609
2525 Dupont Dr.
Irvine, Calif. 92612
Meredith Johnson; 714.246.4500; meredith.johnson@abbvie.com

Aero Pump GmbH .................................................. 1238
Dr. Ruben-Rausing-Str. 5
Hochheim am Main 65239
Germany
aeropump.de
Rouven Kraus; +49 6146603.115; rouven.kraus@aeropump.de

AGTC .......................................................... 5002
One Kendall Square
1400W, Suite14102
Cambridge, Mass. 02139
agtc.com
Antoinette Scibelli; 617.843.5737; ascibelli@beacontc.com

Aier Eye Hospital Group ........................................... 1623
188 Furong South Rd. Yuelu
Changsha, Hunan
China
aierchina.com
Quan Zhang; + 86 0731.85179288; zhangquan@aierchina.com

Alcon Vision, LLC .................................................. 1731
6201 South Freeway, Fort Worth, Texas 76134-2099
Fort Worth, Texas 76134
alcon.com
Erin Moore; 940.393.2761; erin.moore@alcon.com

Alimera Sciences ................................................... 1617
6310 Town Sq., Suite 400
Alpharetta, Ga. 30005
alimerasciences.com
Bonnie Perkins; 678.527.1758; bonnie.perkins@alimerasciences.com

Alkeus .......................................................... 4911
44 Brattle St, 2nd Floor
Cambridge, Mass. 02138
alkeuspharma.com
Leah Eardley; 800.287.2755; leah@alkeus.com

Exhibits current as of March 15, 2024
MS Meeting Suite location

Complete meeting information is available at ARVO.org/AM
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Address</th>
<th>City, State, Zip</th>
<th>Phone</th>
<th>Email</th>
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<tbody>
<tr>
<td>ALPAO</td>
<td>727 Rue Aristide Berges</td>
<td>Montbonnot 38330, France</td>
<td>alpao.com</td>
<td>Kévin Masciave; +33 476890965; <a href="mailto:kevin.masciave@alpao.fr">kevin.masciave@alpao.fr</a></td>
</tr>
<tr>
<td>Altasciences</td>
<td>575 Armand-Frappier Blvd.</td>
<td>Laval, QC H7V 4B3, Canada</td>
<td>calvertlabs.com</td>
<td>Sophie Dubois; 450.973.6077; <a href="mailto:sdubois@altasciences.com">sdubois@altasciences.com</a></td>
</tr>
<tr>
<td>American Macular Degeneration Foundation</td>
<td>P.O. Box 515</td>
<td>Northampton, Mass. 01061</td>
<td>macular.org</td>
<td>Matthew Levine; 203.952.9588; <a href="mailto:mlevine@macular.org">mlevine@macular.org</a></td>
</tr>
<tr>
<td>Apellis Pharmaceuticals</td>
<td>100 5th Ave.</td>
<td>Waltham, Mass. 02451</td>
<td><a href="mailto:info@apellis.com">info@apellis.com</a></td>
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<tr>
<td>Aptar Pharma</td>
<td>250 North Route 303</td>
<td>Congers, N.Y. 10920</td>
<td>aptar.com</td>
<td>Katie Moran; 845.639.3700; <a href="mailto:katie.moran@aptar.com">katie.moran@aptar.com</a></td>
</tr>
<tr>
<td>Asia-Pacific Academy of Ophthalmology</td>
<td>The Chinese University of Hong Kong</td>
<td>Dept. of Ophthalmology &amp; Visual Sciences</td>
<td>apaophth.org</td>
<td>Cynthia Wong; +852.3943.5826; <a href="mailto:cynthiawong@apaophth.org">cynthiawong@apaophth.org</a></td>
</tr>
<tr>
<td>Association Ocular Pharmacology and Therapeutics</td>
<td>Department of Ophthalmology</td>
<td>Room number 402, 1160 West Michigan St</td>
<td><a href="mailto:ppattabi@iu.edu">ppattabi@iu.edu</a></td>
<td></td>
</tr>
<tr>
<td>Astellas</td>
<td>8 Campus Dr.</td>
<td>Northbrook, Ill. 07054</td>
<td>Trisha Purcell; 973.224.7360; <a href="mailto:trisha.purcell@ivericbio.com">trisha.purcell@ivericbio.com</a></td>
<td></td>
</tr>
<tr>
<td>Aurora Surgical LLC</td>
<td>780 94th Ave. N, Suite 108</td>
<td>St Petersburg, Fla. 33702</td>
<td>aurorasurgical.com</td>
<td>Lena Jonsson; 727.821.3303; <a href="mailto:ljJonsson@aurorasurgical.com">ljJonsson@aurorasurgical.com</a></td>
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</table>

Complete meeting information is available at ARVO.org/AM
Avirmax Inc. ................................................................. 1604
25503 Whitesell St.
Hayward, Calif.  94545
avirmax.com
June Song; 510.641.0201; business@avirmax.com

Bitfount ................................................................. 1416
1 Phipp St.
London EC2A 4PS
U.K.
bitfount.com
Muhammad Baqir; 749.512.2902; baqir@bitfount.com

Bloomage Biotechnology USA, Inc. ............................................. 4514
181 New Rd., Suite 308
Parsippany, N.J.  07054
bloomagebioactive.com/index-e.html
Gavin Lee; 973.396.7691; lixq@bloomagebioactive.com

BlueRock Therapeutics ............................................................ MS4
238 Main St., 3rd Floor
Cambridge, Mass.  02142
bluerocktx.com
Denise Thompson; 415.272.1843; dthompson@bluerocktx.com

Boehringer Ingelheim International GmbH ........................................ 4721
Binger Str. 173
Ingelheim,  55216
Germany
boehringer-ingelheim.com
Dunja Wiese; +49 6132.77.0; dunja.wiese@boehringer-ingelheim.com

BrightFocus Foundation .............................................................. 1812
22512 Gateway Center Dr.
Clarksburg, Md.  20871
brightfocus.org
Adrian Macaraeg; 301.948.3244; amacaraeg@brightfocus.org

C. Light Technologies, ....................................................... 1335
84 High St. Suite 202
Medford, Mass.  02155
clighttechnologies.com
Christy Sheehy; 518.339.2895; christy@clighttechnologies.com

Cambridge Research Systems ..................................................... 1816
80 Riverside Estate
Sir Thomas Longley Rd.
Rochester, Kent ME2 4BH
U.K.
crsld.com
Dr Caterina (Katia) Ripamonti; c.ripamonti@crsld.com
Exhibits A – Z
Exhibits current as of March 15, 2024

MS Meeting Suite location

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James Arps; 763.331.3800; jim.arps@promedpharmallc.com

Promedica International .................................................. 1709
3070 Bristol St., Suite 530
Costa Mesa, Calif. 92626
promedica-intl.com
Shannon Stoddard; 714.460.7363; stoddard.s@promedica-intl.com

Regeneron ................................................................. 1431, MS1
777 Old Saw Mill River Rd.
Tarrytown, N.Y. 10591
regeneron.com
Annina; 914.847.7000; annina.caruso@regeneron.com

Reichert / AMETEK ......................................................... 1409
3362 Walden Ave.
Depew, N.Y. 14043
reichert.com
Philip Hastings; 716.329.1944; philip.hastings@ametek.com

Exhibits current as of March 15, 2024

Complete meeting information is available at ARVO.org/AM
<table>
<thead>
<tr>
<th>Company</th>
<th>Address</th>
<th>Phone</th>
<th>Email</th>
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<tbody>
<tr>
<td>RetinAI US, Inc.</td>
<td>Freiburgstrasse 3, Bern 3010, Switzerland</td>
<td>+41 764643141; <a href="mailto:carlos@retinai.com">carlos@retinai.com</a></td>
<td></td>
</tr>
<tr>
<td>RetinSight GmbH</td>
<td>Elisabethstrasse 13/1/13, 1010 Vienna, Austria</td>
<td>+43 1.5813.881; <a href="mailto:klausia.schuh@retinsight.com">klausia.schuh@retinsight.com</a></td>
<td></td>
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<tr>
<td>Review of Ophthalmology</td>
<td>19 Campus Blvd., Suite 101, Newtown Square, PA. 19073</td>
<td>610.492.1028; <a href="mailto:mhoster@jobson.com">mhoster@jobson.com</a></td>
<td></td>
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<tr>
<td>Robotrak Technologies Co., Ltd.</td>
<td>6th Floor, Building No.8, 119 Ruanjian Ave, Yuhuatai District, Nanjing, Jiangsu 21000, China</td>
<td><a href="mailto:admin@robotrak.cn">admin@robotrak.cn</a></td>
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<tr>
<td>Roland Consult Stasche &amp; Finger GmbH</td>
<td>Heidelberger Strasse 7, Brandenburg/ Havel, 14772, Germany</td>
<td><a href="mailto:j.finger@roland-consult.de">j.finger@roland-consult.de</a></td>
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<tr>
<td>Sever Pharma Solutions</td>
<td>36 Ridge Rd., Putnam, Conn. 06260</td>
<td>860.630.4524; <a href="mailto:rsterling@severpharmasolutions.com">rsterling@severpharmasolutions.com</a></td>
<td></td>
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<tr>
<td>Shenyang Xingqi Pharmaceutical Co., Ltd.</td>
<td>No.25, Xin Yunhe Rd. (Liaoning) Pilot Free Trade Zone, Shenyang, China</td>
<td>18510128848; <a href="mailto:huiying@sinqi.com">huiying@sinqi.com</a></td>
<td></td>
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<tr>
<td>Silgan Dispensing Systems</td>
<td>1001 Haxall Point, Suite 701, Richmond, VA. 23219</td>
<td>804.774.9376; <a href="mailto:taylor.campbell@silgandispensing.com">taylor.campbell@silgandispensing.com</a></td>
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<tr>
<td>Company Name</td>
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<td>City, State Zip</td>
<td>Country</td>
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<td>Softcare Co., Ltd.</td>
<td>Yatsunami 243-5</td>
<td>Fukutsu, Fukuoka 811-3201 Japan</td>
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<tr>
<td>Spective LLC</td>
<td>3103 Glenwood Dr.</td>
<td>Durham, N.C. 27705</td>
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<tr>
<td>Speedway Delhi</td>
<td>308 N Winfree St.</td>
<td>Dayton, Texas 77535</td>
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<tr>
<td>Spherix Global Insights</td>
<td>760 Constitution Dr., Suite 204</td>
<td>Exton, Pa. 19341</td>
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<tr>
<td>StageBio</td>
<td>5930 Main St.</td>
<td>Mount Jackson, Va. 22842</td>
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<tr>
<td>Stoke Therapeutics</td>
<td>45 Wiggins Ave</td>
<td>Bedford, Mass. 01730</td>
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<tr>
<td>STREETLAB</td>
<td>17 rue Moreau</td>
<td>Paris 12 75012</td>
<td>France</td>
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</tbody>
</table>
Striatech .................................................................................................... 1147
Vor dem Kreuzberg 17
Tuebingen, Baden-Württemberg 72070
Germany
striata-tech.com
Thomas Muench; +49 7071.539130; t.muench@stria.tech

Syneos Health ........................................................................................... 1413
1030 Sync St.
Morrisville, N.C. 27560
syneoshealth.com
Kristie Goodman; 919.876.9300; conferences@syneoshealth.com

Telios Pharma ................................................................. 1838
275 Shoreline Dr., Suite 325
Redwood City, Calif. 94065
Nish Saini; 573.873.6474; nsaini@teliospharma.com

TFS HealthScience ................................................................................... 5112
Rudolf Diesel Strasse 3
Winterthur, Switzerland 8404
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appletree-cig.com
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The Eye Cancer Foundation .................................................................... 1425
115 E 61st St., Suite 5B,
New York, N.Y. 10065
eyecancercure.com
DeAndre Bellows; 212.832.8170; deandre@eyecancercure.com

The Sturge-Weber Foundation ............................................................... 1622
6105 S Main St., Ste 200
Aurora, Colo. 80016
sturge-weber.org
Karen L. Ball; 973.895.4445; kball@sturge-weber.org

Thea Pharma Inc. ...................................................................................... 4708
303 Wyman St., Suite 205
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theapharmainc.com
Jennifer Pulsifer; 339.223.5593; jennifer.pulsifer@theapharma.com

Theia Imaging, LLC ............................................................................. 1507
404 Hunt St., Suite 430
Durham, N.C. 27701
theiaimaging.com
Hafeez Dhalla; 919.794.8504; Hafeez@Theiaimaging.com

ThinkCyte Inc. ....................................................................................... 1240
1100 Island Dr., Suite 203
Redwood City, Calif. 94065
thinkcyte.com
Sheila Burns; 512.589.3872; info@thinkcyte.com

Exhibits current as of March 15, 2024

Exhibits A – Z
Exhibits current as of March 15, 2024

Complete meeting information is available at ARVO.org/AM
Thorlabs ....................................................................................................1235
43 Sparta Ave.
Newton, N.J. 07860
thorlabs.com
Haley Gallandt; 973.670.0495; tradeshows@thorlabs.com

Topcon Healthcare ................................................................. 1804
111 Bauer Dr.
Oakland, N.J. 07436
topcon.com
Kati Spencer; 201.599.5100; kspencer@topcon.com

Tourmaline Bio ..................................................................................1145
27 W 24th St., Suite 702
New York, N.Y. 10010
tourmalinebio.com
John Walsh; 508.736.0449; jwalsh@tourmalinebio.com

Translational Imaging Innovations ............................................. 1427
P.O. 6356
Hickory, N.C. 28603
tinnervations.com
Eric Buckland; 919.827.1200; eric@tiinnervations.com

Trefoil Therapeutics, Inc. ............................................................ 4811
6330 Nancy Ridge Dr., Suite 103
San Diego, Calif. 92121
trefoiltherapeutics.com
Schalon Newton; 949.678.9572; snewton@trefoiltherapeutics.com

Trial Runners LLC .............................................................................1605
116 W Villard St
Dickinson, N.D. 58601
trialrunners.com
Melissa Pavlicek; 701.690.9857; melissapavlicek@trialrunners.com

TriApex Laboratories Co., Ltd. .................................................. 5010
No.9 Xinglong Rd., Jiangbei New Area
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Tsubota Laboratory, Inc. ............................................................ 1331
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Shinjuku-ku Tokyo
Japan
tsubota-lab.com
Ryo Konno; +81 363842866; konno@tsubota-lab.com

Exhibits A –Z
Exhibits current as of March 15, 2024  MS Meeting Suite location

Complete meeting information is available at ARVO.org/AM
<table>
<thead>
<tr>
<th>Company</th>
<th>Address/Location</th>
<th>Contact Information</th>
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<tbody>
<tr>
<td>Twenty Twenty Therapeutics</td>
<td>259 E. Grand Ave. South San Francisco, Calif. 94080</td>
<td>Jordan Krueger; 661.644.6054; <a href="mailto:jordan.krueger@twentytwenty.com">jordan.krueger@twentytwenty.com</a></td>
</tr>
<tr>
<td>Unither Pharmaceuticals</td>
<td>3-5 rue Saint Georges Paris 75009 France</td>
<td>Elisabeth Alidou; <a href="mailto:elisabeth.alidou@unither-pharma.com">elisabeth.alidou@unither-pharma.com</a></td>
</tr>
<tr>
<td>University Hospitals Eye Image</td>
<td>6700 Euclid Ave, Suite 103 Cleveland, Ohio 44119</td>
<td>Beth Ann Benetz; 216.844.3615; <a href="mailto:beth.benetz@uhhospitals.org">beth.benetz@uhhospitals.org</a></td>
</tr>
<tr>
<td>Analysis Reading Center</td>
<td>University of Nebraska Medical Center 985540 Nebraska</td>
<td>Kim Kanellis; 402.559.5379; <a href="mailto:kim.kanellis@unmc.edu">kim.kanellis@unmc.edu</a></td>
</tr>
<tr>
<td>Medical Center</td>
<td>University of Nebraska Medical Center 985540 Nebraska</td>
<td>Kim Kanellis; 402.559.5379; <a href="mailto:kim.kanellis@unmc.edu">kim.kanellis@unmc.edu</a></td>
</tr>
<tr>
<td>Vasoptic Medical, Inc.</td>
<td>6751 Columbia Gateway Dr., Suite 300 Columbia, Md. 21046</td>
<td>Hrishikesh Gadagkar; 410.245.0501; <a href="mailto:hrishikesh.gadagkar@vasoptic.com">hrishikesh.gadagkar@vasoptic.com</a></td>
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<tr>
<td>Virscio, Inc.</td>
<td>4 Science Park, 4th Floor New Haven, Conn. 06511</td>
<td>Christopher Stanley; 203.498.9706; <a href="mailto:cstanley@virsco.com">cstanley@virsco.com</a></td>
</tr>
<tr>
<td>Vision Share</td>
<td>3023 Clark St., Suite 118 Chicago, Ill. 60657</td>
<td>Brian Keenan; 312.961.7951; <a href="mailto:bkeenan@visionshare.org">bkeenan@visionshare.org</a></td>
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<tr>
<td>VisionGift</td>
<td>2201 SE 11th Ave. Portland, Ore 97214-5303</td>
<td>Corrina Patzer; 503.808.7004; <a href="mailto:corrina@visiongift.org">corrina@visiongift.org</a></td>
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<tr>
<td>Visionix, Inc.</td>
<td>160 Eisenhower Lane North Lombard, Ill. 60148</td>
<td>John Sola; 630.274.6137; <a href="mailto:j.sola@visionix.com">j.sola@visionix.com</a></td>
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<td>Exhibits A – Z</td>
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<td><strong>VO-CRO</strong></td>
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<tr>
<td>1161 21st Ave. S, B3321 MCN</td>
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<td>Nashville, Tenn. 37232-2569</td>
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<td>vumc.org/vo-cro</td>
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<tr>
<td>Taylor Smith; 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><strong>Voxeleron LLC</strong></td>
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<tr>
<td>13809 Research Blvd., Suite 500</td>
<td></td>
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<td>Austin, Texas 78750</td>
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<td>voxeleron.com</td>
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<tr>
<td>Jonathan Oakley; 512.399.3058; <a href="mailto:jonathan@voxeleron.com">jonathan@voxeleron.com</a></td>
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<td><strong>Worldcare Clinical</strong></td>
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<td>135 Beaver St.</td>
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<td>Waltham, Mass. 02452</td>
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<tr>
<td>voiantclinical.com</td>
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<tr>
<td>Steven Jones; 610.506.8872; <a href="mailto:sjones@voiantclinical.com">sjones@voiantclinical.com</a></td>
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<tr>
<td><strong>WuXi AppTec - Laboratory Testing Division</strong></td>
<td>4705</td>
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<td>101 Morgan Lane</td>
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<tr>
<td>Plainsboro, N.J. 08536</td>
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<td>wuxiapptec.com</td>
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<tr>
<td>Lindsey Schwenk; 609.917.0047; <a href="mailto:lindsey_schwenk@wuxiapptec.com">lindsey_schwenk@wuxiapptec.com</a></td>
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<td><strong>ZeClinics</strong></td>
<td>1243</td>
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<td>C de Laureà Miró, 408, 410</td>
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<td>Sant Feliu de Llobregat</td>
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<td>Barcelona 08980</td>
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<td>Spain</td>
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<tr>
<td>zeclinics.com</td>
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<tr>
<td>Elisabet Mateu; +34 930.240.373; <a href="mailto:commercial@zeclinics.com">commercial@zeclinics.com</a></td>
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<tr>
<td><strong>ZEISS</strong></td>
<td>1931</td>
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<tr>
<td>5300 Central Pkwy.</td>
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<td>Dublin, Calif. 94568</td>
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<td>zeiss.com/med</td>
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<tr>
<td>Patty Seiden; 925.858.4086; <a href="mailto:patty.seiden@zeiss.com">patty.seiden@zeiss.com</a></td>
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<tr>
<td><strong>Zhongshan Ophthalmic Center, Sun Yat-sen University</strong></td>
<td>5013</td>
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<tr>
<td>No7JinSui Rd., TianHe district</td>
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<td>Guangzhou, China</td>
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<td>gzzoc.com</td>
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<tr>
<td>Jiawei Wang; 206.660.7580; <a href="mailto:wangjw@mail.sysu.edu.cn">wangjw@mail.sysu.edu.cn</a></td>
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<tr>
<td><strong>Zilia</strong></td>
<td>1724</td>
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<td>125 Charest Blvd. East, Suite 400</td>
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<td>Quebec City, QC G1K 3G5</td>
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<td>Canada</td>
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<td>ziliahealth.com</td>
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<tr>
<td>Dario Zujo; 418.681.1782; <a href="mailto:dario.zujo@ziliahealth.com">dario.zujo@ziliahealth.com</a></td>
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Exhibits current as of March 15, 2024

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Exhibitor Presentations

The exhibitor Education lounge is located in Exhibit Hall B. Content presented has not undergone peer review or any formal programming review. Sessions are intended to be informational presentations of a product, service, or summaries of an organization’s science.

Sun., May 5
- 10–10:30am | Diagnosys LLC
  Electrophysiology for spaceflight associated neuro-ocular Syndrome (SANS)
- 11–11:30am | EssilorLuxottica
  Emmetropic eye growth as benchmark for myopia management using spectacle lenses with highly aspherical lenslets
- 3–3:30pm | Voxeleron LLC
  Advanced ophthalmic imaging analysis and management: Tales from three projects

Mon., May 6
- 10–10:30am | EssilorLuxottica
  Novel approaches and models in myopia management: Spectacle lenses with highly aspherical lenslets
- 11–11:30am | Altasciences
  Early development of ophthalmic drugs: Better insights from lead selection through clinical proof-of-concept
- 12–12:30pm | Forge Biologics
  Efficient gene therapy manufacturing for ocular diseases
- 1–1:30pm | Ocugen
  OCU400: A gene agnostic modifier gene therapy for the treatment of retinitis pigmentosa (phase 1/2 clinical study results)
- 2–2:30pm | PharmaLegacy
  Gearing up for the future: Animal models for wet AMD and subretinal fibrosis
- 3–4:30pm | National Eye Institute
  Grants management

Tues., May 7
- 10:30–11:30am | National Eye Institute
  Training opportunities in NEI research labs
- 12–12:30pm | American Macular Degeneration Foundation
  Breakthroughs in AMD research
- 1–1:30pm | Pharmaron
  New ophthalmic drug development: From discovery to clinical studies
- 2pm–2:30pm | Ocugen
  OCU410 gene therapy-multifactorial therapeutic intervention for dry age-related macular degeneration

Wed., May 8
- 10–10:30am | Charles River
  Let's talk about the use of immunosuppression in non-clinical studies
- 2pm–2:30pm | Ocugen
  Nuclear hormone receptor RORA as a novel modifier approach for treatment of Stargardt disease
ARVO Fellows

ARVO Fellows 2024

ARVO will induct the Fellows Class of 2024 at the opening ARVO/Alcon Keynote Session, to recognize and honor these members for their leadership, dedication and contributions to the Association.

**Gold Fellows**

Muhammad Abdulrazik
Larry Abel
Penny Asbell
Ava Bittner
Daniel Carr
Kevin Chan
Stuart Gardiner
J. William Harbour
David Huang
Ashwath Jayagopal
Kate Keller
Ecosse Lamoureux
Yutao Liu
Anat Loewenstein
Neal Peachey
Arieh Solomon
Alan Stitt
Olaf Strauss
Geeta Vemuganti
Stephanie Watson
Robert Zawadzki

Anthony Kuo
Christopher Leung
Aparna Lakkaraju
Lyndell Lim
Paloma Liton
Ted Maddess
Darlene Miller
Juliet Moncaster
Jessica Morgan
Tomoaki Murakami
Derek Nankivil
Gary Novack
John O’Brien
Bikash Patnaik
Magali Saint-Geniez
Ivan Schwab
Mitra Sehi
Ian Sigal
Hiroko Terasaki
Ellen Townes-Anderson
Eedoardo Villani
Brian Vohnsen
Matthew Wilson
Lihteh Wu
Yoshiaki Yasuno
Xiangtian Zhou
Rebecca Zoltoski

**Silver Fellows**

Rigmor Baraas
Alexandra Benavente-Perez
Ashay Bhatwadekar
Colleen Cebulla
Carol Cheung
Michael Chiang
Margaret DeAngelis
Dawn DeCarlo
Cécile Delcourt
Sophie Deng
Joshua Dunajef
Rajashekar Gangaraju
Marina Gorbatyuk
Meredith Gregory-Ksander
Ludwig Heindl
Jennifer Hunter
Connect with us at booth #4815

Exhibitor Education Lounge

Olga Prenat
Head of Medical and Professional Affairs, EssilorLuxottica

Host

Emmetropic eye growth as benchmark for myopia management

Prof. Mark Bullimore
Yee Ling Wong

Sunday, May 5, 11:00 - 11:30am

Novel approaches and models in myopia management

Prof. Mark Bullimore
Björn Drobe

Monday, May 6, 10:00 - 10:30am

Poster Presentations

<table>
<thead>
<tr>
<th>Date &amp; time</th>
<th>Abstract</th>
<th>Speaker</th>
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<tr>
<td>Myopia - Epidemiology and treatment</td>
<td>Two-year changes in cylinder power in myopic children wearing spectacle lenses with highly aspherical lenslets and single-vision spectacle lenses</td>
<td>Jinhua Bao</td>
</tr>
<tr>
<td>Sunday, May 5, 8:00 - 9:45am</td>
<td>Myopia control efficacy of spectacle lenses with highly aspherical lenslets: results of a 5-year follow-up study</td>
<td>Xue Li</td>
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<td>Influence of first-time correction on myopia progression and axial elongation in myopic children wearing spectacle lenses with and without aspherical lenslets</td>
<td>Yee Ling Wong</td>
</tr>
<tr>
<td>Myopia and refractive error development and mechanisms</td>
<td>Peripheral eye length change in myopic children before and after wearing spectacle lenses with highly aspherical lenslets</td>
<td>Yingying Huang</td>
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<tr>
<td>Monday, May 6, 3:00 - 4:45pm</td>
<td>Comparison between optical and simulated defocus blurs</td>
<td>Raphael Rousselle</td>
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<td>Optics, photoreceptors, and visual acuity</td>
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<tr>
<td>Wednesday, May 8, 2:15 - 4:00pm</td>
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<td>Assessing the visual system II - Contrast sensitivity, visual fields, visual processing</td>
<td>A new photochromic lens improves contrast sensitivity during fade-back</td>
<td>Coralie Barrau</td>
</tr>
<tr>
<td>Thursday, May 9, 11:45 - 1:30pm</td>
<td>Method to assess accurately light exposure with dynamic ophthalmic filters using real life light and usage data</td>
<td>Eleonore Pic</td>
</tr>
</tbody>
</table>
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. Adams, 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
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