

**Macula 2022**

**Saturday, January 8, 2022**

*Wills Eye Auditorium*

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**At the conclusion of the course, participants should be able to:**

1 Discuss new imaging technologies that allow for greater understanding for more accurate diagnosis and management of retinal diseases.

2 Evaluate the latest developments in treatments for the major retinal diseases, including AMD, DME and RVO.

3 Discuss new approaches to management of other retinal disorders including inherited retinal diseases, ocular oncology, uveitis etc.

4 Describe the latest advances in retinal surgery.

5 Assess the latest updates on artificial intelligence.

**Accreditation Statement:**

The Wills Eye Hospital is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. Wills Eye Hospital designates this live educational activity for a maximum of 6.50 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**MOC Statement**

Successful completion of this CME activity, which includes participation in the evaluation component, enables the learner to satisfy the Lifelong Learning, Self-Assessment, Improvement in Medical Practice and/or Patient Safety requirements for the American Board of Ophthalmology’s Continuing Certification program. It is the CME activity provider's responsibility to submit learner completion information to ACCME for the purpose of granting credit.

**Disclosure Statement:**

It is the policy of Wills Eye Hospital that the information presented at Wills Eye Hospital's CME activities will be commercially unbiased and based on scientific and clinical evidence. To help participants make judgments about the presence of commercial bias, Wills Eye Hospital provides information that planners and speakers have disclosed about financial relationships they have with commercial entities that produce, market, re-sell, or distribute health care goods or services consumed by, or used on, patients. All relevant financial relationships have been mitigated.

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| --- | --- | --- |
| **Name of individual** | **Individual's role in activity** | **Name of commercial interest/Nature of relationship** |
| Arno A. Albini, MD | Faculty | Membership on Advisory Committees or Review Panels, Board Membership, etc.-Aderum Biotechnologies, Inc.|Consulting Fee-Allergan (Relationship has ended)|Consulting Fee-Clearside Biomedical|Consulting Fee-EyePoint Pharmaceuticals|Consulting Fee-Genentech|Consulting Fee-Novartis|Consulting Fee-REGENXBIO, Inc.|Consulting Fee-Valeant|Consulting Fee-Applied Genetic Technologies Corporation |Consulting Fee-Beaver Visitec - 01/03/2022 |
| J. Fernando Arevalo, MD, PhD | Faculty | Consultant / Independent Contractor-Allergan|Consultant / Independent Contractor-Bayer|Consultant / Independent Contractor-Genentech|Grant / Research Support-TOPCON - 08/13/2021 |
| Audina M. Berrocal, MD | Faculty | Nothing to disclose - 08/23/2021 |
| Susan B. Bressler, MD | Faculty | Grant / Research Support-Bayer|Grant / Research Support-Boehringer Ingelheim|Grant / Research Support-Biocon|Grant / Research Support-Genentech|Grant / Research Support-mylan|Grant / Research Support-EyePoint Pharmaceuticals|Grant / Research Support-Regeneron|chair Data monitoring Committee-Amgen|Grant / Research Support-Biogen - 08/09/2021 |
| Alexander J. Brucker, MD | Faculty | Nothing to disclose - 04/28/2021 |
| Cindy X. Cai, MD | Faculty | Nothing to disclose - 11/16/2021 |
| Peter A. Campochiaro, MD | Faculty | Advisor / Board Member-Aerpio Therapeutics|Advisor / Board Member-Bausch + Lomb|Advisor / Board Member-Allegro|Stock Shareholder-Allegro|Advisor / Board Member-Asclepix Therapeutics|Advisor / Board Member-Ashvattha Therapeutics|Grant / Research Support-Ashvattha Therapeutics|Consultant / Independent Contractor-Clearside Biomedical|Advisor / Board Member-Exonate Ltd|Advisor / Board Member-Roche|Grant / Research Support-Roche|Consultant / Independent Contractor-Regeneron|Grant / Research Support-Sanofi|Consultant / Independent Contractor-Merck|Advisor / Board Member-Perfuse|Grant / Research Support-REGENXBIO, Inc.|Consultant / Independent Contractor-Wave Life Sciences - 08/13/2021 |
| R.V. Paul Chan, MD | Faculty | Consultant / Independent Contractor-Alcon - 08/24/2021 |
| Emily Y. Chew, MD | Faculty | Nothing to disclose - 09/03/2021 |
| Jay Chhablani, MD | Faculty | Speaker’s Bureau-Novartis|Consultant / Independent Contractor-Biogen|Speaker’s Bureau-Allergan|Consultant / Independent Contractor-Salutaris - 08/27/2021 |
| Allen Chiang, MD | Faculty | Grant / Research Support-Apellis Pharmaceuticals|Grant / Research Support-Genentech|Consultant / Independent Contractor-Apellis Pharmaceuticals|Grant / Research Support-Regeneron|Consultant / Independent Contractor-Orbit Biomedical - 03/19/2021 |
| Michael N. Cohen, MD | Faculty | Consultant / Independent Contractor-Allergan|Consultant / Independent Contractor-Keeler, Inc. - 05/04/2021 |
| Donald J. D'Amico, MD | Faculty | Consulting Fee-Alcon|Stocks or stock options, excluding diversified mutual funds-IVERIC Bio, Inc.|Royalties or Patent Beneficiary-Aufbau Holdings, LTD - 12/30/2021 |
| James P. Dunn, MD | Faculty | Nothing to disclose - 10/12/2021 |
| Ralph C. Eagle Jr., MD | Faculty | Stock Shareholder-Merck - 08/16/2021 |
| Dean Eliott, MD | Faculty | Honoraria-Alcon|Honoraria-Genentech|Grant / Research Support-Neurotech|Consultant / Independent Contractor-Asclepix|Consultant / Independent Contractor-Pykus Therapeutics|Stock Shareholder-Aldeyra Therapeutics|Consultant / Independent Contractor-Aldeyra Therapeutics - 09/03/2021 |
| Philip J. Ferrone, MD | Faculty | Consulting Fee-Genentech|Grant or research support-Genentech|Consulting Fee-Allergan (Relationship has ended)|Grant or research support-Apellis Pharmaceuticals|Grant or research support-Regeneron - 12/24/2021 |
| Harry W. Flynn Jr., MD | Faculty | Nothing to disclose - 08/18/2021 |
| Jasmine H. Francis, MD | Faculty | Nothing to disclose - 08/21/2021 |
| K. Bailey Freund, MD | Faculty | Consultant / Independent Contractor-Genentech|Consultant / Independent Contractor-Zeiss|Consultant / Independent Contractor-Novartis|Grant / Research Support-Genentech|Consultant / Independent Contractor-Regeneron - 08/14/2021 |
| Sunir J. Garg, MD | Faculty | Consulting Fee-Bausch + Lomb|Consulting Fee-Johnson & Johnson|Consulting Fee-Allergan|Consulting Fee-Kanaph|Consulting Fee-Boehringer Ingelheim|Consulting Fee-Apellis Pharmaceuticals|Consulting Fee-Merck|Grant or research support-Allergan|Grant or research support-Boehringer Ingelheim|Grant or research support-Genentech|Grant or research support-Regeneron|Grant or research support-Apellis Pharmaceuticals - 11/23/2021 |
| Omesh P. Gupta, MD, MBA | Faculty | Nothing to disclose - 03/21/2021 |
| Julia A. Haller, MD | Faculty | Advisor / Board Member-Bristol Myers Squibb|Stock Shareholder-Bristol Myers Squibb|Advisor / Board Member-Celgene|Stock Shareholder-Celgene|Consultant / Independent Contractor-Regeneron|Consultant / Independent Contractor-Kalvista |DSMB-Aura Bioscience|Consultant / Independent Contractor-DSMB-Lowy Medical Research Institute|Consultant / Independent Contractor-Novartis|Consultant / Independent Contractor-Bionic Sight LLC|DSMB-Bionic Sight LLC|Advisor / Board Member-Eyenovia - 03/22/2021 |
| Jeffrey S. Heier, MD | Faculty | Advisor-2020 Onsite|Advisor-4D Molecular Technologies|Advisor-Abpro|Advisor-Aderum Biotechnologies, Inc.|Advisor-Aerie Pharmaceuticals|Advisor-Allegro|Advisor-Allergan|Advisor-Allgenesis|Advisor-Annexon|Advisor-Apellis Pharmaceuticals|Advisor-Aprea|Advisor-Asclepix|Advisor-Aviceda|Advisor-Biovisics|Advisor-Bionic Vision Technologies|Advisor-DTx|Advisor-Gemini|Advisor-Genentech|Advisor-Graybug|Advisor-Gyroscope|Advisor-iRenix|Advisor-Iveric|Advisor-Johnson & Johnson|Advisor-Chengdu Kanghong Pharmaceutical|Advisor-NGM|Advisor-Notal Vision|Advisor-Novartis|Executive-Ocular Therapeutix|Advisor-Ocuphire|Advisor-OcuTerra|Advisor-Oriole|Advisor-Oxurion|Advisor-Palatin|Advisor-Regeneron|Advisor-REGENXBIO, Inc.|Advisor-RetinAI|Advisor-Retrotope|Advisor-Stealth Biotherapeutics|Advisor-Surrozen|Advisor-Thea|Advisor-Unity Bio|Advisor-Verseon|Stocks or stock options, excluding diversified mutual funds-jCyte|Grant or research support-Aldeyra|Grant or research support-Apellis Pharmaceuticals|Grant or research support-Asclepix|Grant or research support-Bayer|Grant or research support-Genentech|Grant or research support-Graybug|Grant or research support-Gyroscope|Grant or research support-Iveric|Grant or research support-Johnson & Johnson|Grant or research support-Chengdu Kanghong Pharmaceutical|Grant or research support-Kodiak Sciences|Grant or research support-NGM|Grant or research support-Novartis|Grant or research support-Regeneron|Grant or research support-REGENXBIO, Inc.|Grant or research support-Stealth Biotherapeutics - 10/25/2021 |
| Allen Ho, MD | Faculty | Membership on Advisory Committees or Review Panels, Board Membership, etc.-Alcon|Membership on Advisory Committees or Review Panels, Board Membership, etc.-Allergan|Membership on Advisory Committees or Review Panels, Board Membership, etc.-Apellis Pharmaceuticals|Membership on Advisory Committees or Review Panels, Board Membership, etc.-Genentech|Independent Contractor (included contracted research)-Kodiak Sciences|Membership on Advisory Committees or Review Panels, Board Membership, etc.-Notal Vision|Membership on Advisory Committees or Review Panels, Board Membership, etc.-Orbit Biomedical|Membership on Advisory Committees or Review Panels, Board Membership, etc.-Regeneron|Membership on Advisory Committees or Review Panels, Board Membership, etc.-REGENXBIO, Inc. - 12/05/2021 |
| Jason Hsu, MD | Faculty | Advisor / Board Member-IVERIC Bio|Grant / Research Support-IVERIC Bio|Consultant / Independent Contractor-Gyroscope Therapeutics|Consultant / Independent Contractor-OccuRx|Grant / Research Support-Genentech|Grant / Research Support-Aldeyra Therapeutics - 08/13/2021 |
| Deeba Husain, MD | Faculty | Nothing to disclose - 08/29/2021 |
| Douglas A. Jabs, MD | Faculty | Nothing to disclose - 08/16/2021 |
| Richard S. Kaiser, MD | Faculty | Nothing to disclose - 08/16/2021 |
| Benjamin J. Kim, MD | Faculty | Paid consultant-Asclepix Therapeutics|Paid consultant-Synergy Research (Relationship has ended) - 01/03/2022 |
| Ivana K. Kim, MD | Faculty | Consultant / Independent Contractor-Novartis|Consultant / Independent Contractor-Castle Biosciences|Consultant / Independent Contractor-Kodiak Sciences|Consultant / Independent Contractor-Biophytis|Grant / Research Support-Allergan - 09/20/2021 |
| Leo A. Kim, MD | Faculty | Grant / Research Support-Unity Biotechnology - 09/03/2021 |
| Szilard Kiss, MD | Faculty | Consultant / Independent Contractor-Aderum Biotechnologies, Inc.|Consultant / Independent Contractor-REGENXBIO, Inc.|Consultant / Independent Contractor-Genentech|Consultant / Independent Contractor-Optos, Inc.|Advisor / Board Member-Regeneron - 08/16/2021 |
| Michael A. Klufas, MD | Faculty | Consulting Fee-Allergan|Speakers Bureau-Regeneron|Consulting Fee-Genentech|Consulting Fee-REGENXBIO, Inc. - 12/06/2021 |
| Ajay E. Kuriyan, MD | Faculty | Stocks or stock options, excluding diversified mutual funds-Recens medical - 11/06/2021 |
| T.Y. Alvin Liu, MD | Faculty | Nothing to disclose - 08/13/2021 |
| Albert M. Maguire, MD | Faculty | Grant / Research Support-REGENXBIO, Inc.|Grant / Research Support-Spark Therapeutics - 08/15/2021 |
| Joan W. Miller, MD | Faculty | Consulting Fee-Alcon|Consulting Fee-Allergan|Consulting Fee-Sunovion (Relationship has ended)|Consulting Fee-Radius (Relationship has ended)|Honoraria-Carl Zeiss (Relationship has ended) - 12/30/2021 |
| John B Miller  , MD | Faculty | Other: Patents/Intellectual Property/Royalties-Valeant Pharmaceuticals/Mass Eye and Ear|Other: Consultant Fees; Advisory Board; Patents/Intellectual-ONL Therapeutics|Consulting Fee-KalVista Pharmaceuticals|Consulting Fee-Sunovion|Consulting Fee-Heidelberg Engineering|Consulting Fee-LifeBiosciences, Inc|Other: Board of Directors; Salary; Stock Options-LifeBiosciences, Inc|Other: Clinical advisor; Patents/Intellectual Property-Drusolv Therapeutics|Consulting Fee-Roche - 12/30/2021 |
| Yasha S. Modi, MD | Faculty | Consultant / Independent Contractor-Allergan|Consultant / Independent Contractor-Alimera Sciences|Consultant / Independent Contractor-Thea|Advisor / Board Member-Genentech|Consultant / Independent Contractor-Zeiss - 08/09/2021 |
| Carl   Park  , MD | Faculty | Nothing to disclose - 12/30/2021 |
| Jose Pulido, MD | Faculty | Advisor / Board Member-Lagen Laboratories - 04/30/2021 |
| Carl D. Regillo, MD | Faculty | Consulting Fee-Allergan|Consulting Fee-Apellis Pharmaceuticals|Consulting Fee-EyePoint Pharmaceuticals|Consulting Fee-Genentech|Consulting Fee-Novartis|Consulting Fee-Ocugen|Consulting Fee-REGENXBIO, Inc.|Grant or research support-Regeneron - 11/10/2021 |
| Richard B. Rosen, MD | Faculty | Consultant / Independent Contractor-Optovue - 08/25/2021 |
| Adrienne W. Scott, MD | Faculty | Consulting Fee-Allergan|Consulting Fee-Novartis (Relationship has ended)|Consulting Fee-Bausch + Lomb (Relationship has ended)|Advisor-Genentech|Advisor-Regeneron|Consulting Fee-Alimera Sciences - 12/07/2021 |
| Carol L. Shields, MD | Faculty | Nothing to disclose - 11/08/2021 |
| Arunan Sivalingam, MD | Faculty | Nothing to disclose - 04/15/2021 |
| Lucia Sobrin, MD, MPH | Faculty | Nothing to disclose - 08/13/2021 |
| Richard F. Spaide, MD | Faculty | Nothing to disclose - 11/10/2021 |
| Marc J. Spirn, MD | Faculty | Nothing to disclose - 08/13/2021 |
| Jayanth Sridhar, MD | Faculty | Consulting Fee-Alcon|Consulting Fee-Dutch Ophthalmic USA|Consulting Fee-Genentech|Consulting Fee-Allergan (Relationship has ended)|Consulting Fee-Regeneron - 01/06/2022 |
| John T. Thompson, MD | Faculty | Grant / Research Support-Genentech|Stock Shareholder-Ocutrx |Stock Shareholder-EHR Command Center, LLC - 08/28/2021 |
| Stephen H. Tsang, MD | Faculty | Nothing to disclose - 09/30/2021 |
| James F. Vander, MD | Faculty | Nothing to disclose - 08/16/2021 |
| Demitrios Vavvas, MD, PhD | Faculty | Nothing to disclose - 09/01/2021 |
| Nadia K. Waheed, MD | Faculty | Grant or research support-Carl Zeiss|Grant or research support-Heidelberg Engineering|Consulting Fee-Nidek|Stocks or stock options, excluding diversified mutual funds-Ocudyne|Executive-Gyroscope Therapeutics - 09/24/2021 |
| Andre J. Witkin, MD | Faculty | Nothing to disclose - 08/16/2021 |
| Charles Wykoff, MD, PhD | Faculty | Consulting Fee-Genentech|Grant or research support-Genentech|Consulting Fee-Bayer|Grant or research support-Bayer|Consulting Fee-Regeneron|Grant or research support-Regeneron|Consulting Fee-Roche|Grant or research support-Roche - 01/05/2022 |
| David Xu, MD | Faculty | Consultant / Independent Contractor-Alimera Sciences|Consultant / Independent Contractor-Gyroscope Therapeutics - 03/22/2021 |
| Lawrence A. Yannuzzi, MD | Faculty | Nothing to disclose - 08/13/2021 |
| Nicholas Yannuzzi, MD | Faculty | Advisor / Board Member - 09/14/2021 |
| Yoshihiro Yonekawa, MD | Faculty | Consultant / Independent Contractor-Alcon|Consultant / Independent Contractor-Allergan|Consultant / Independent Contractor-Alimera Sciences|Consultant / Independent Contractor-Genentech - 05/23/2021 |

