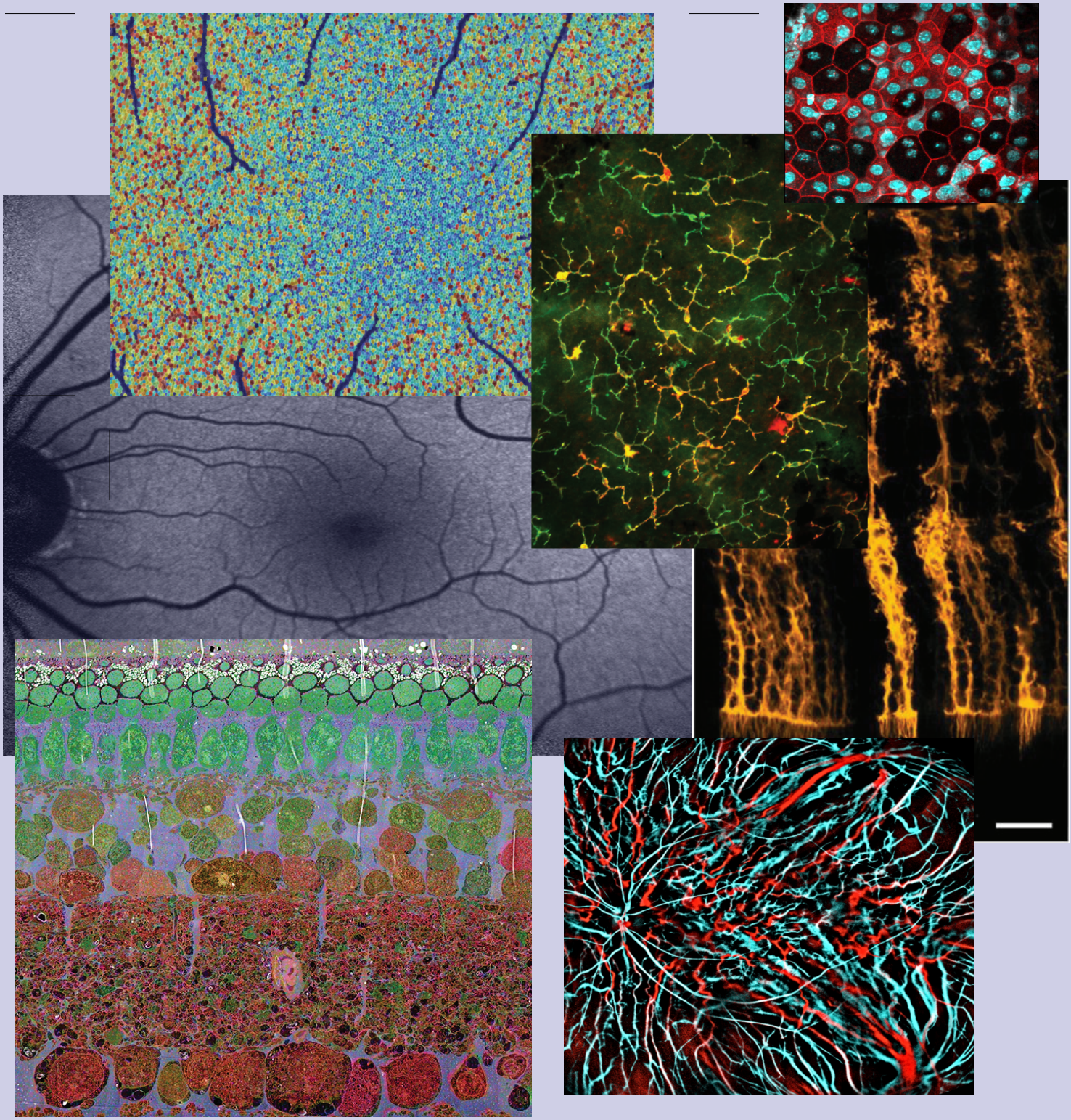
RD2025

XXI International Symposium on Retinal Degeneration

Prague, The Czech Republic

September 15-20, 2025



XXI INTERNATIONAL SYMPOSIUM ON RETINAL DEGENERATION

RD2025

Sept. 15-20, 2025
Online and in person at the Clarion Congress Hotel, Prague, Czech Republic

International Organizing Committee

Eric Pierce
John Ash
Florian Sennlaub
Sarah Doyle
Robert E. Anderson
Catherine Bowes Rickman
Joe G. Hollyfield
Jacque Duncan
Christian Grimm

A scientific conference planned and managed by:
RD Symposium LLC.
Gainesville, FL

Travel Awardees

The organizers of RD2025 want to congratulate the 58 recipients of RD2025 Early-Stage Investigator Travel Awards listed below, funded by the National Eye Institute, NIH, USA; the Foundation Fighting Blindness, USA; Pro Retina, Germany; and the Alan Lates Memorial Travel Fund. Eligibility was limited to graduate students, postdoctoral fellows, instructors, and assistant professors actively involved in retinal degeneration research. These awards were based on the quality of the abstract submitted by each applicant. The Travel Awards Committee was made up of the International Organizing Committee.

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Schedule & Platform Sessions

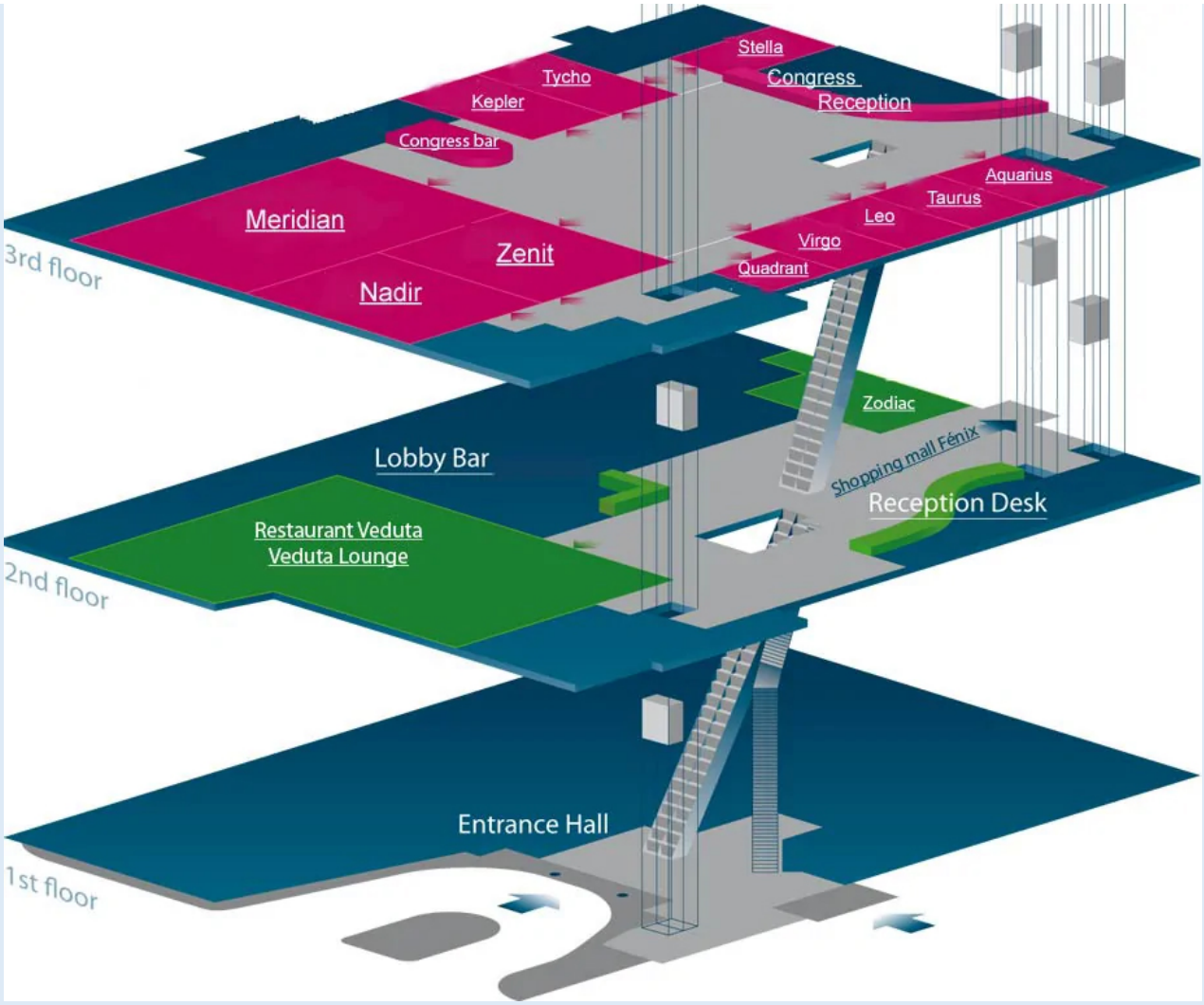
(Note: Presenting authors are underlined. Travel Awardees are in **bold**.)

Monday, September 15, 2025

13:00-19:00 **The meeting registration desk will be open, located on the third floor of the hotel.**

17:30-18:30 **Welcome Reception** 3rd floor foyer (Outside Meridian/Nadir/Zenit)

18:30-20:30 **Dinner** (Restaurant Veduta)



Meeting Venue – Clarion Congress Hotel, Prague

Meeting registration: Congress Reception, 3rd floor
Platform and poster presentations: Meridian/Nadir/Zenit
Coffee breaks: 3rd floor foyer
Meals: Restaurant Veduta

Schedule & Platform Sessions

(Note: Presenting authors are underlined. Travel Awardees are in **bold**.)

Tuesday, September 16, 2025

07:00-08:00 **Breakfast** (Restaurant Veduta, 2nd floor)

08:00-08:15 **Welcoming Remarks – Eric Pierce and John Ash**

08:20-09:00 **Keynote Lecture 1 - Rachel Huckfeldt**
Clinical trials for retinal degenerations: How do we define success?
Introduction by: Eric Pierce

Platform Session 1. Translational Studies
Moderators: Amy Laster, Billie Beckwith-Cohen

09:00-09:30 *Kieva Byrne, Natalie Hudson, Jeffrey O'Callaghan, Denis Nevrov, Kieran Byrne, Sarah Doyle, Mark Cahill, Matthew Campbell*
Integrity of the inner blood retinal barrier in retinitis pigmentosa

09:30-10:00 *Maureen McCall, Archana Jalligampala, Leah Neuhauser, Karsten Schmidt*
Oral dosing of a deuterated docosahexaenoic acid (D-DHA) protects cones from dysfunction and resurrects rod function in a pig model of human P23H adRP

10:00-10:30 *Mathias Seeliger, Regine Muehlfriedel, Alexander Günter, Hendrik Rosewich, Hans Konrad Biesalski, Hanno Bolz, Johannes von Lintig*
RBP4 – Elucidation of interwoven genetic and non-inherited disease components

10:30-11:00 Coffee break

Platform Session 2. Genetics
Moderators: Radha Ayyagari, Peter Quinn

11:00-11:30 *Owen Fernando, Jessica Gardner, Julio Cesar Corral Serrano, Michel Michaelides, Michael Cheetham, Alison Hardcastle*
Retinal organoid modelling and therapeutic approach for Blue Cone Monochromacy caused by OPN1LW and OPN1MW interchange haplotypes

11:30-12:00 *Vasiliki Kalatzis, Suly Villa Vasquez, Nejla Erkilic, Isabelle Meunier, Jerome Roger*
RNA-seq analysis of USH2A-mutant organoids reveals distinct gene expression signatures in retinitis pigmentosa and Usher syndrome

12:00-12:30 *Eric Pierce, Kirill Zaslavsky, Liyin Chen, Chloe Park, Emily Place, Daniel Navarro-Gomez, Christopher Barile, Kinga Bujakowska, Elizabeth Rossin*
Low population penetrance of variants associated with inherited retinal degenerations

12:30-13:45 Lunch in the Restaurant Veduta, 2nd floor

Schedule & Platform Sessions

(Note: Presenting authors are underlined. Travel Awardees are in **bold**.)

Platform Session 2. Genetics - continued

Moderators: Radha Ayyagari, Peter Quinn

13:45-14:05 ***Davide Piccolo***, *Paul Sladen, Rosellina Guarascio, Kalliopi Ziaka, Michael Cheetham*
Investigation of ABCA4 missense variants in retinal organoids and high-throughput screening to identify therapeutic compounds for ABCA4 misfolding

14:05-14:35 *Jason Comander*
A roadmap to rescue rhodopsin: Mapping and modulating misfolding mutations

14:40-15:20 Keynote lecture 2 - Leah Byrne
New approaches to vector engineering for retinal gene therapy
Introduction by Cathy Bowes Rickman

15:20-15:50 Coffee break

Platform Session 3. Gene Therapy

Moderators: W. Clay Smith, Lindsey Chew

15:50-16:20 *Elvir Becirovic, David Mittas, Dina Otify, Zoran Gavrilov, Olivier Mercey, Jan Wijnholds, Dominik Fischer, Paul Guichard, Virginie Hamel, Jan Motlik, Martin Biel*
A gene therapy for Usher Syndrome 1B using MYO7A supplementation or Myo7b activation

16:20-16:50 *Boris Rosin, Avigail Beryozkin, Chen Matsevich, Sean Ghiam, Alexey Obolensky, Eyal Banin, José-Alain Sahel*
Preservation of inner retinal integrity following photoreceptor- targeted AAV gene therapy in Fam161a KO mice

16:50-17:20 *Rob Collin, Rens Hoekstra, Sanne Broekman, Theo Peters, Muriel Messchaert, Hanka Venselaar, Erwin van Wijk*
A structure-based approach to develop exon skipping therapy for EYS-associated retinitis pigmentosa

17:20-17:40 ***Sonali Singh***, *John Flannery, Leah Byrne, Meike Visel, Zachary Engfer, Krzysztof Palczewski, Tyler Houston*
Discovering a novel AAV capsid for efficient RPE transduction with intravitreal injection for treatment of the LCA2 disease model

18:00-19:30 DINNER in the Restaurant Veduta, 2nd floor

19:30-22:00 Posters in Meridian/Nadir/Zenit (3rd floor)

(Note: Presenting authors are underlined. Travel Awardees are in **bold**.)

Wednesday, September 17, 2025

07:00-08:00 **Breakfast**
08:00-08:05 **Morning announcements**

08:10-08:50 **Keynote Lecture 3 - Vinit Mahajan**
A proteomic approach to decoding eye disease in living humans
Introduction by: Florian Sennlaub

Platform Session 4. Mechanisms of Degeneration
Moderators: Isabelle Audo, Kei Takahashi

8:50-9:20 *Danielle Little, Marybeth Lupo, Jackie Norrie, Justina McEvoy, Abbas Shirinifard, Krishnan Venkataraman, Jaison John, Ashley Vallery, Jennifer McCommon, Natalie Geiger, Mellisa Clemons, Nathalie Becerra Mora, Melody Allensworth, Everest Ouyang, Madison Parks, Surbhi Sona, Cam Robinson, Hongjian Jin, Airen Zaldivar Peraza, Peter Vogel, Paul Geeleher, Xin Zhou, Michael Dyer*
Comparing cell-type specific response across retinal diseases and degeneration

9:20-9:50 *Henri Leinonen, Katri Vainionpää, Anna Kalatanova, Umair Seemab, Ahmed Montaser*
Female sex is risk factor for accelerated retinal degeneration via lipid peroxidation in murine RP models

9:50-10:10 ***Holly Chen**, Xue Du, Hayden Haupt*
Müller glia autophagy dysfunction as a gene-agnostic therapeutic target for inherited retinal degeneration

10:10-10:40 Coffee break

Platform Session 4. Mechanisms of Degeneration - continued
Moderators: Isabelle Audo, Kei Takahashi

10:40-11:10 *Antolín Cantó, María Miranda Sanz, Inma Almansa, Javier Valero Ochando, Yoel Hernández González, Teresa Olivar*
Modulation of Nitric Oxide Synthesis as a Therapeutic Strategy in Retinitis Pigmentosa: Insights from the rd10 Mouse Model

11:10-11:30 ***Roly Megaw**, Fay Newton, Mihail Halachev, Linda Nguyen, Lisa McKie, Pleasantine Mill*
Autophagy disruption and mitochondrial stress precede photoreceptor necroptosis in multiple mouse models of inherited retinal disorders

11:30-12:00 *Jillian Pearring, Dacia Flores Navarro, Jason Willer, Jack Weiner*
Sequestration of active Arl3-GTP can rescue photoreceptor migration defect in a mouse model of RP2

12:00-13:15 Lunch

Schedule & Platform Sessions

(Note: Presenting authors are underlined. Travel Awardees are in **bold**.)

Platform Session 5. AMD/RPE

Moderators: Erik van Kuijk, Maria Pavlou

13:15-13:45 *Moussa Zouache*
Refinement of associations with age-related macular degeneration within the chromosome 1q32 locus

13:45-14:15 *Bela Anand-Apte, Quinn Caron, Allison Grenell, Elif Ertugral, Karen Hernandez, William Horrigan, Chandrasekhar Kothapalli*
Changes in RPE metabolism in macular degenerations may be driven by alterations in the biomechanical properties of the extracellular matrix

14:15-14:45 *Soile Nymark, Viivi Karema-Jokinen, Jenni Partinen, Anna Mäkitiura, Julia Fadjukov, Teemu Ihalainen*
Activity of voltage-gated sodium channels in the RPE is needed for the efficient uptake and trafficking of photoreceptor outer segment particles

14:45-15:15 *Dominik Reichert, Davide Ortolan, Sena Gul, Jair Montford, Jiwon Ryu, David McGaughey, Deepak Sahel, Antony Jozic, Laryssa Huryn, Wadih Zein, Stephen Tsang, Gaurav Sahay, Renee Ryals, Brian Brooks, Helen May-Simera, Ruchi Sharma, Kapil Bharti*
Common disease phenotypes in iPSC-derived RPE models point towards gene-agnostic therapy potential in ciliopathies

15:15-15:45 Coffee break

Platform Session 5. AMD/RPE - continued

Moderators: Erik van Kuijk, Maria Pavlou

15:45-16:15 *Emeline Nandrot, Abdallah Hamieh, Elora Vanoni, Quentin Rieu, Julie Enderlin*
Prpf splicing factors: how ubiquitous proteins lead to tissue-specific defects

16:15-16:35 ***Eleanor Noone,*** *Kieva Byrne, Kiva Brennan, Lucia Celkova, Katie Robb, Mark Cahill, Sarah Doyle*
Loss of Bmal1 in myeloid cells accelerates age-related migration of immune cells to the outer retina

Platform Session 6. Neuroprotection

Moderators: Francois Paquet-Durand, Catherine Hottin

16:35-17:05 *Adam Tuttle, Allison Curtis, Soren Gotschall, Yulia Eygeris, Renee Ryals, Gaurav Sahay*
SARM1 siRNA lipid nanoparticles provide protection against photoreceptor degeneration

17:05-17:25 ***Haitao Liu****, Maria Potilinski, Frank Dyka, John Ash*
Leukemia Inhibitory Factor-Mediated Gene Expression Promotes Retinal Neuroprotection

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(continued)

17:25-17:55 *Ryoji Amamoto, Sarah Farid, Victoria Honnell, Shabnam Majidi*
Development of a novel AAV-based Retinoic Acid signaling activator to promote cone survival

18:00-19:30 Dinner

19:30-22:00 Posters

Thursday, September 18, 2025

07:00-08:15 Breakfast

Excursion day in Prague.

NO formal meetings or presentations.

Meals arranged by participants.

(Note: Presenting authors are underlined. Travel Awardees are in **bold**.)

Friday, September 19, 2025

07:00-08:00 **Breakfast**
08:00-08:05 **Morning announcements**

08:10-08:50 **Keynote Lecture 4 - Donald Miller**
Revealing inherited retinal degeneration through high-resolution adaptive optics OCT
Introduction by: John Ash

Platform Session 7. Photoreceptors
Moderators: Kerstin Nagel-Wolfrum, Anupam Mondal

8:50-9:20 *Peter Calvert, Himanshu Malhotra, Alexey Tokarev, Beatrice Tam, Orson Moritz, Alenka Lovy*
Mechanism of opsin loading into cone photoreceptor lamellae examined with live cell super resolution single molecule dynamics

9:20-9:50 *Allyssa Bradley, Hyejung Min, Soyeon Park, William Temme, Soyoung Park, Eun Jin (Grace) Lee, Jonathan Lin*
A chemically-inducible and reversible retinal organoid model of inherited photoreceptor dystrophies

9:50-10:20 *Joseph Kreis, Jessica Wong, Ying Sun, Jenna Grieshop, Morgan Connaughton, Sergey Tarima, Jacque Duncan, Joseph Carroll*
Repeatability and reliability of cone mosaic metrics and image quality grading in patients with retinitis pigmentosa (RP) using adaptive optics scanning light ophthalmoscopy (AOSLO)

10:20-10:50 Coffee break

Platform Session 7. Photoreceptors - continued
Moderators: Kerstin Nagel-Wolfrum, Anupam Mondal

10:50-11:20 *Vadim Arshavsky, Oleg Alekseev, Tylor Lewis, Natalia Klementieva, Carson Castillo, Sebastien Phan, Keun-Young Kim, Mark Ellisman*
Unique ultrastructural features of human rod and cone photoreceptors

11:20-11:40 ***Alicia Brunet**, Paula Fuller-Carter, David Hunt, Alan Harvey, Livia Carvalho*
Drug-based modulation of the mTORC2 pathway attenuates photoreceptor death in inherited retinal diseases

11:40-12:10 *Alecia Gross, Sydney Lin, Jean Sun, Mary Anne Garner*
Uncovering the role of cytoskeletal proteins CFL1 and NUDC in regulating photoreceptor function and synaptic transmission

12:10-13:25 Lunch

(Note: Presenting authors are underlined. Travel Awardees are in **bold**.)

Platform Session 8. Stem Cell Therapy

Moderators: Iqbal Ahmad, Avril Watson

13:25-13:55 *Tomas Barta, Canan Celiker, Eva Hruba, Konstantina Kyriakou, Birthe Dorgau, Francisco Molina Gambin, Gerrit Hilgen, Evelyne Sernagor, Majlinda Lako*
Photostimulation improves *in vitro* maturation of human photoreceptors

13:55-14:25 *Michiko Mandai, Atsuta Ozaki, Ryutaro Akiba, Yingbin Fu, Yasuo Kurimoto*
Plasticity enables functional integration of human retinal organoids in macaque macular degeneration

14:25-14:45 ***Maria Pavlou**, Karen Tessmer, Berta Coll San Martin, Susanne Ferguson, Marius Ader*
Differential incorporation of transplanted human photoreceptors into mice with defined stages of retinal degeneration

14:45-15:15 *Trevor McGill, Lauren Renner, Jonathan Stoddard, Martha Neuringer*
Hypoimmune iPSC-derived RPE cells evade immune rejection following allogeneic transplantation in nonhuman primates

15:15-15:35 ***Laura Patak**, Soumaya Belhadj, Agustin Luz-Madrigal, Praveen Joseph Susaimanickam, Jacqueline Gayet, Hector Baez, Jennifer LaPorta, William Fischer, Rachel Hollar, Nathaniel Foley, Andrea Campbell, Ruosen Xie, Shaoqin Gong, Zhenqiang Ma, Arvydas Maminishkis, Kapil Bharti, Juan Amaral, Vamsi Gullapalli, David DiLoreto, David Gamm, Juliette McGregor, Teresa Puthussery*
Long-term survival and structural integration of stem cell-derived photoreceptors in the non-human primate

15:35-15:50 Welcome to RD2027

18:30-19:30 Reception

19:30 Gala Dinner

Saturday, September 20, 2025

07:00-08:00 Breakfast

09:00-11:00 Depart

Posters

(Note: Presenting authors are underlined. Travel Awardees are in **bold**.)

In-person posters.

Dimensions: Poster boards are portrait style with a width of 95 cm (37 inches) and a height of 180 cm (70 inches). It is recommended that posters be made using A0 format portrait dimensions, which are 84cm wide by 119cm tall (33inches wide by 46.8 inches tall).

Setup: Posters must be mounted on the respective board according to the number shown in the program. Poster boards are located in the conference hall (Meridian + Zenit + Nadir rooms). All posters should be set up on Monday, September 15, and must be on display before the first break on Tuesday, September 16.

Removal: Posters will be on display all week and must be removed before lunch break on Friday, September 19.

Schedule: Posters will be presented on Tuesday and Wednesday evenings between 19:30 and 22:00. On Tuesday evening, presenting authors of an ODD-numbered poster should be available in front of their poster between 19:30 and 20:45. Authors of an EVEN numbered poster should be at their poster between 20:45 and 22:00 pm. On Wednesday evening, everyone is free to roam all posters.

Virtual posters.

All posters (virtual and in person) will be recorded as short (10-minute) talks and will be available for viewing for 2 months, including the week of the meeting and the following weeks. Attendees will be able to asynchronously interact with speakers via a chat feature.

Retinal Degeneration – Animal Models

1. **Characterization of a new mouse model of enhanced S-cone sensitivity syndrome (ESCS)**
   Marta Fernández-Freire, Jelena Murar, Pascal Escher

2. **Alternative mammalian models compatible with rodent facilities to study IRDs not amenable to rodent systems**
   Akishi Onishi, Takaya Abe, Hiroshi Kiyonari, Masayo Takahashi

3. **Establishment and characterization of the Myo7aQ181* pig as a model for Usher syndrome type 1B to evaluate pathomechanisms and therapeutic options**
   Zdenka Ellederova, David Williams, Kerstin Nagel-Wolfrum, Ivona Valekova, David Sakac, Ruslan Nyshchuk, The Duong Nyguen, Michaela Vaskovicova, Stepanka Suchankova, Václav Venclovsky, Jana Juhasova, Stefan Juhas, Bozena Levinska, Saskia Drutovic, Rostislav Turecek, Michael Wendt, Doris Höltig, Jan Motlik, Uwe Wolfrum

4. **Longitudinal Characterization of Retinal Degeneration in a Non-Human Primate Model of CLN7 Batten Disease**
   Lauren Renner, Jonathan Stoddard, Hannah Woolard, Martha Neuringer, Trevor McGill

5. **Retinal degeneration in a new mouse model with D1078N knock-in mutation in IRBP**
   Minghao Jin, Kota Sato, Songhua Li

6. **Ocular Phenotype in mucopolysaccharidosis type VI patients and a rat model**
   Akiko Maeda, Junki Sho, Natsuko Nakamura, Mikiya Watanabe, Akishi Onishi, Yasuhiko Hirami, Michiko Mandai

7. **Retinal signaling failures predict Alzheimer's disease in mice. And Humans?**
   Timothy Kraft

8. **A canine model of ABCA4-associated maculopathy has early pathological features recapitulating the human phenotype of Stargardt disease type 1**
   ***Alexandra Azarkevich**, Paige Winkler, Alexis Daggy, **Billie Beckwith-Cohen**, Laura Ford, Suvi Mäkeläinen, Björn Ekesten, Janet Sparrow, Tomas Bergström, Simon Petersen-Jones*

9. **Modeling EYS-Associated Retinal Degeneration in Zebrafish and Human Retinal Organoids**
   Egle Galdikaite-Braziene, Anna Larson, Shisong Rong, Marcela Garita-Hernandez, Kinga Bujakowska

10. **Investigating the origins of the supernormal b-wave in KCNV2 retinopathy**
    Yashvi Bhatt, David Hunt, Livia Carvalho

11. **The rhodopsin P347L knock-in mouse recapitulates the phenotype of a common type of autosomal dominant retinitis pigmentosa**
    *Kalliopi Ziaka, Rosellina Guarascio, Rowan Asfahani, Thomas Burgoyne, Malena Daich Varela, **Davide Piccolo**, Yumei Li, Rui Chen, Michel Michaelides, Michael E Cheetham*

Retinal Degeneration – Cell and Organ Models

12. **Retinal gene editing therapy: Insights from mouse and organoid models**
    Hugo Malki, Juliette Pulman, Jean-Paul Concordet, Deniz Dalkara

13. **Lost in communications: How Müller glia cells fail to maintain retinal integrity in USH1C retinal organoids**
    Kerstin Nagel-Wolfrum, Mark Zorin, Christof Rickert, Maria Méndez-Lago, Sivarajan Karunanithi, Katarina Stingl, Susanne Kohl, Michael E Cheetham, Uwe Wolfrum, Nicole Wenck

14. **Modeling PRPF31 Retinitis Pigmentosa 11 in Patient-Derived Retinal Organoids: A Gene-Therapy Model**
    Jørn-Ove Schjølberg, Emil Wiik, Maria Camara Quilez, Niklas Andersen, Aleksandr Lanevski, Wei Wang, Ingrid Åmellem, Xiaolin Lin, Kathrine Eriksen, Ragnheidur Bragadottir, Josephine Holtan, Mirta Mittelstedt Leal de Sousa, Magnar Bjørås

15. **Modelling and treatment of IFT140-associated retinal dystrophy using retinal organoids and RPE**
    ***Julio Cesar Corral Serrano**, Yi Jiang, Nele Schwarz, Isabel Stehle, Karsten Boldt, Daniele Ottaviani, Katarina Jovanovic, Isabelle Perrault, Tina Beyer, Michael Cheetham*

16. **The role of light in retinal organoids: towards improving maturation and functionality**
    Alex Garanto, Edwin van Oosten, Anita Hoogendoorn, Julia Haerkens, Marieke van der Maden, Seba Almedawar, Anja Bufe, Devin Veerman, Ummi Ciptasari, Nael Nadif Kasri, Dirk Lefeber, Stefan Kauschke, Hans Wessels, Andries van der Meer, Rob Collin

17. **Generation of Isogenic iPSC Models for RP17 Structural Variants**
    Di Chen, Siobhan Guilfoyle, Rosellina Guarascio, Sara Eliza Nieuwenhuis, Mafalda De Sequeira Pires, Vasileios Toulis, Lara Holtes, Suzanne de Bruijn, Susanne Roosing, Alison Hardcastle, Michael Cheetham

18. **Patient-derived iPSC-RPE models to decipher the pathomechanism of a novel dominant late-onset RPE65-retinopathy due to Belgian founder variant E519K**
    *Eline Geens, **Eline Van Vooren**, Filip Van den Broek, Quinten Mahieu, Marieke De Bruyne, Stijn Van de Sompele, Mattias Van Heetvelde, Vasiliki Kalatzis, Julie De Zaeytijd, Bart Leroy, Miriam Bouwens, Elfride De Baere*

19. **Therapeutic strategy for autosomal dominant retinitis pigmentosa : Focusing on the G56R variant of NR2E3 in patient-derived retinal organoids**
    Mélissa Gilles, Nejla Erkilic, Hassan Boukhaddaoui, Isabelle Meunier, Vasiliki Kalatzis

20. **Investigating the RP2/ARL3 retinal disease pathway with gene edited cell lines**
    *Gabriela Bordeanu, **Julio Cesar Corral Serrano**, Owen Fernando, Rosellina Guarascio, Michael Cheetham, Alison Hardcastle*

21. **Induced Aging in Stem Cell Based Retinal Degeneration Models**
    Iqbal Ahmad

22. **Characterizing a retinal organoid model for RDH12-related Leber Congenital Amaurosis**
    Sophie Tran, Celine Nanteau, Deniz Dalkara, Olivier Goureau

23. **From iPSCs to RPE: Shedding Light on USP48 in Ciliopathies**
    Vasileios Toulis, Rocco Nardiello, Laura Sánchez-Bellver, Ioannis Axiotis-Zacharias, Arnau Lleixà i D'Ambrosio, Gemma Marfany

24. **Using iPSC-derived retinal organoids and RPE to study lipid-related retinal disorders**
Daniëlle Swinkels, Edwin van Oosten, Udo Engelke, Manon Bouckaert, Anita Hoogendoorn, Wietske Kieboom, Elfride De Baere, Rob Collin, Frauke Coppieters, Michèl Willemsen, Frédéric Vaz, Alex Garanto

25. **Generation and characterization of human USH2A retinal disease model**
Dunja Lukovic, Alba Palao Andrés, Gema García-García, Belén García-Bohórquez, M. Esther Gallardo, Carmen Ayuso, Jose María Millán Salvador, Slaven Erceg, Zdenka Ellederova, Jan Motlik

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26. **AAV surface peptide-conjugated lipid nanoparticles mediate photoreceptor delivery of mRNA**
Grace Su, Deepak Sahel, Gaurav Sahay, Renee Ryals

27. **Retinal degeneration in the macaque model of Bardet-Biedl syndrome: Developmental course and rescue by gene augmentation therapy at early stages of disease**
Martha Neuringer, Lauren Renner, Hannah Woolard, Jonathan Stoddard, Andreas Lauer, Junghyun Ryu, Jon Hennebold, Carol Hanna, Fernanda Burch, Emily Mishler, Sam Peterson, Sanford Boye, Shannon Boye, Trevor McGill

28. **Gene augmentation therapy recovers retinal function and vision in a large animal model of autosomal dominant CRX-Leber's congenital amaurosis type 7**
***Billie Beckwith-Cohen**, Paige Winkler, Kelian Sun, Sarah Klewicki, Dimitri Romanovsky, Qifan Zhao, Xhesika Dece, Chi Sun, Shiming Chen, Stylianos Michalakis, Simon Petersen-Jones*

29. **Molecular Mechanisms Limiting the Therapeutic Window of AAV Gene Therapy in Mouse Models of Blue Cone Monochromacy**
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30. **AAV gene therapy restores daytime vision in the R325Q mouse model of blue cone monochromacy**
***Brooke Brothers**, Madyson Ashcraft, Becky Chen, Wen-Tao Deng*

31. **Subretinal gene therapy laru-zova for X-linked retinitis pigmentosa (XLRP): Results from Early Phase Trials**
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32. **Developing cell-type specific adeno-assciated virus (AAV) promoter for retinal horizontal cells**
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33. **Gene awakening in Stargardt disease: A novel CRISPRa-based therapeutic strategy**
Zoran Gavrilov, Elvir Becirovic

34. **A Single-AAV Ablate-and-Replace (SAAR) CRISPR-Cas12j Strategy for Universal Treatment of Rhodopsin Autosomal Dominant Retinitis Pigmentosa**
***Anders Knudsen**, Wen-Hsuan Wu, Georgy Komissarov, Aykut Demirkol, Stephen Tsang*

35. **Prime Editing for the Investigation of Disease Modeling and Therapy development of Pathogenic PRPH2 Variants**
Bruna Lopes da Costa**, Kyle Helms, Keith Theodore, Yi-Ting Tsai, Salvatore Caruso, Siyuan Liu, Nicholas Nolan, Saleha Tahir, Christopher Makinson, Stephen Tsang, **Peter M.J. Quinn

36. **Towards Disease Modelling and Therapy Development for PRPF8-mediated autosomal dominant retinitis pigmentosa**
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37. **One-year results from a Phase I/II study of OPGx-LCA5 subretinal gene therapy for the treatment of inherited retinal degeneration due to biallelic mutations in the LCA5 gene**
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38. **Developing Top-Performing AAV Variants for Intravitreal Gene Therapy using the Machine Learning–Guided scAAVengr-HUnT Platform**
Laura Campello, Molly Johnson, Bilge Ozturk, Morgan Sedorovitz, Maryl Lambros, Emre Sevgen, Hannah Schriever, Brett Hogle, Megan Gillespie, Janis Koester, Inga Clausen, Megana Prasad, Nora Denk, Helene Haegel, Barbara Lenz, Florian Neff, Stefan Seeber, Keevon Flohr, Susana da Silva, Miguel Betegon, Paul Sieving, José-Alain Sahel, Sascha Fauser, Robert C Lin, Jacek Krol, Leah Byrne

39. **Exon Skipping Therapy Restores Ciliary Function in USH2A-Related Retinal Degeneration**
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40. **Combined Optogenetic and Growth Factor Gene Therapies for Photoreceptor Rescue**
Ecem Aydin, Deniz Dalkara, Emilia Araujo Zin

41. **Evaluation of novel ChRmine- and ChroME-based channelrhodopsin variants for optogenetic restoration of visual function**
Beatrice Le*, Victoria Fong, Madi McCloud, Meike Visel, Adithya Sivakumar, Evan Kwong, Stephen Brohawn, Rowland Taylor, John Flannery*

42. **Establishing AAV.PRPF31 gene augmentation in PRPF31-deficient RPE and photoreceptor cells and assessing its efficacy in restoring RPE and photoreceptor function**
Maria Elia*, Valda Paužuolytė, Maria Georgiou, Sina Jovin, Sushma Nagaraja-Grellscheid, Elton Rosas de Vasconcelos, Colin Johnson, Alexander Smith, Robin Ali, Majlinda Lako*

43. **Evaluation of a high-capacity viral vector for gene delivery into human iPSC- derived retinal cell models**
Luisina Cappellino, Hassan Boukhaddaoui, Marcela Garita-Hernandez, Bertrand Beucher, Carla Jiménez-Medina, Nejla Erkilic, Eric Kremer, Vasiliki Kalatzis

44. **Molecular mechanisms of engineered AAVs**
Miguel Betegon, Thomas Tugwell, Leah Byrne

45. **Development of Prime Editing Strategies to Model Several Variants in the Crumbs Homologue 1 (CRB1) Gene**
Jose Ronaldo Lima de Carvalho, Saleha Tahir, Alexander Sousa, Keith Theodore, Yi-Ting Tsai, David Liu, Stephen Tsang, ***Bruna Lopes da Costa****,* ***Peter M.J. Quinn***

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46. **Using an unbiased and high-throughput forward genetics approach to discover novel gene associations to retinal disease, and understanding disease-specific versus conserved responses to retinal degeneration**
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47. **Comprehensive targeted gene sequencing of 219 established and 168 candidate inherited retinal disease genes using the IRD2025 smMIPs platform**
Zelia Corradi, Rebekkah Hitti-Malin, Daan Panneman, Lara Holtes, Erica Boonen, Bernhard Weber, Ala'a AlTalbishi, Carmen Ayuso, Gwyneth Jane Farrar, Frans Cremers, Susanne Roosing

48. **Phenotype-genotype correlations in a large cohort of patients with mutations in PRPH2**
Beatrice Bocquet, Haude Bitault, Xavier Zanlonghi, Clarie-Marie Dhaenens, Gael MANES, Luke Mansard, Anne-Francoise Roux, Vasiliki Kalatzis, Isabelle Meunier

49. **Clinical Exome Sequencing: A Genetic Diagnostic Approach for Inherited Retinal Dystrophies**
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50. **Pathogenic Loss of Function Variant in MYRF ICA Domain Results in Isolated Nanophthalmos**
Gabrielle Rozumek, Rachel Lim, William Presley, Bridget Blevins, Bin Guan, Sayoko Moroi, Julia Richards, Robert Hufnagel, Lev Prasov

51. **RPE65 variant p.(E519K) causes a novel dominant adult-onset maculopathy in 85 affected individuals**
***Eline Van Vooren**, Filip Van den Broek, Quinten Mahieu, Eline Geens, Mattias Van Heetvelde, Marieke De Bruyne, Stijn Van de Sompele, Sheetal Uppal, Eugenia Poliakov, Clarie-Marie Dhaenens, Cheryl Gregory-Evans, Lies Hoefsloot, Adriana Gonzalez, Susanne Kohl, Theresia Zuleger, Tanguy Demaret, Sari Tuupanen, Joke Ruys, Luc Van Os, Elise Platteau, Julie Jacob, Sascha Vermeer, Laurence Postelmans, Karin Dahan, Isabelle Maystadt, Florence Rasquin, Alberta A.H.J. Thiadens, Kirk Stephenson, Narin Sheri, Vasily Smirnov, Ian Macdonald, Kevin Gregory-Evans, T. Michael Redmond, Julie De Zaeytijd, Bart Leroy, Miriam Bouwens, Elfride De Baere*

52. **High-Burden East Asian Retinitis Pigmentosa Variants as Prioritized Targets for Therapeutic Development**
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53. **Genotype-Phenotype Characterization of ATF6 Disease Variants**
William Temme, Eun Jin (Grace) Lee, Stephen Tsang, M. Elizabeth Hartnett, Chi-Hsien (Eric) Peng, Jonathan Lin

54. **Genotype-Phenotype Associations for Cone-Rod Homeobox (CRX)-linked Retinopathies**
Isabella Gomes, Chi Sun, Xiaodong Zhang, Rithwick Rajagopal, Shiming Chen

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55. **Mechanisms of rewiring in ON bipolar cells during retinitis pigmentosa**
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56. **Spontaneous hyperactivity of retinal ganglion cells in photoreceptor degeneration**
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57. **Study the morphology alteration of cone photoreceptor mitochondria affected by photoreceptor degeneration**
***Priyanka Boro**, Xianjie Yang*

58. **Genetic mutations of cone phototransduction gene pde6c cause cone degeneration through the elevation of cytoplasmic Ca2+ levels**
Yuko Nishiwaki, Ichiro Masai

59. **Protein Inhibitor of Retinal Guanylyl Cyclase (PIGCY) Suppresses Retinal Degeneration in a Mouse Model of Dominant Retinopathy**
Alexander Dizhoor, Elena Olshevskaya, Igor Peshenko

60. **Reduced expression of NEUROD4, leads to early-onset recessive retinal degeneration**
Pooja Biswas, *Jacque Duncan, Mandeep Singh, Santiago Villarreal, Hiroko Matsui, Naheed Khan, Matteo D'Antonio, Kelly Frazer, Radha Ayyagari*

61. **Multi-Omic Profiling of Mfrp-/- Mice Reveals Mechanisms of Early-Onset Retinal Degeneration**
Anil Chekuri, *DaNae Woodard, Kelsey Dang, Pooja Biswas, Dadi Gao, Allen Wang, Radha Ayyagari, Yating Liu*

62. **Knockout of KIAA1549 leads to progressive retinal degeneration**
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63. **Multi-Layered Computational Approaches to Improve Variant Interpretation in Retinal Degeneration Genes**
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64. **VariantVision: An Advanced Computational Framework for Rapid Characterization of ABCA4 Genetic Variants**
Jazzlyn Jones, Subhasis Biswas, Esther Biswas-Fiss

65. **Evidence for rod to cone lactate shuttling in the mammalian retina**
Lan Wang, Lucia Peiroten, Laimdota Zizmare, Yiyi Chen, Wadood Haq, Christoph Trautwein, Francois Paquet-Durand

66. **Metabolic dysfunction promoted by mitochondrial DNA mutation burden drives retinal degeneration.**
Johnathon Sturgis*, Ke Jiang, Stephanie Hagstrom, Maya Moorthy, Vera Bonilha*

67. **Sex Hormone Metabolism and Estrogen Signaling in the Human Retina: Transcriptomic and Functional Evidence of Their Role in Retinal Physiology**
Javier Valero Ochando, Antolín Cantó, María Miranda Sanz, Carla Espuis Fornas, Vicente Hernández Rabaza, Rosa Maria Lopez Pedrajas

68. **Age- and isoform-dependent changes in connexins in aged retina**
Nicolle Salazar, Eloy Bejarano Fernandez, Alicia Domenech, Jose García Muñoz, Antonella Locascio, Ana Perez, Alejandro Ponce, Lucía Gimeno Mallench

69. **Combined Functional Assessment of Photoreceptors and Retinal Ganglion Cells in rd10 Degeneration**
Xinyi He, Julio Cesar Costa Moura, Paul Gläser, Nadine Dyszkant, Zhijian Zhao, Christina Schwarz

70. **A population of rod nuclei are misplaced to the inner nuclear layer in a mouse model of Retinitis Pigmentosa 2**
Dacia Flores Navarro, Jack Weiner, Jason Willer, Jillian Pearring

71. **Network analyses of inherited retinal degenerative diseases reveal convergent molecular patterns and disease mechanisms**
Anupam Mondal, *Ke Jiang, Anand Swaroop*

72. **Female sex hormones exacerbate retinal neurodegeneration**
Ashley Rowe, Jacob Aumeier, Mauricio Velasquez, Jeffrey McDonald, Katherine Wert

73. **Uncovering the Spatial Complexity of Transcriptomics - Localised Photoreceptor Sress as Modulator of Retinal Vasculature**
Ulrike Schumann, Lixinyu Liu, Michele Madigan, Krisztina Valter, Riccardo Natoli, Jiayu Wen

74. **Avascularity of Peripheral Retina in Retinitis Pigmentosa**
Hossein Ameri, Alexander Hoong, Jason Chaw

75. **Development and characterisation of animal models for RP17 associated dominant retinitis pigmentosa**
Rosellina Guarascio, Sara Eliza Nieuwenhuis, Suzanne de Bruijn, Mafalda De Sequeira Pires, Di Chen, Vasileios Toulis, Siobhan Guilfoyle, Lara Holtes, Christy Greenwood, Lydia Teboul, Susanne Roosing, Michael E Cheetham, Alison Hardcastle

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Artjola Puja, Jianhai Du, Mark Eminhizer, Rong Xu

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78. **Recovering regenerative potential of mammalian retina by Anti-Prox1 therapy**
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79. **Generation of hypoimmunogenic pluripotent stem cell derived photoreceptor precursors for the establishment of a universal transplantation method and the treatment of Retinal Degenerative Disorders: a proof-of concept study for the USH2A and RP treatment**
Rafail Nikola, *Birthe Dorgau, Ioana Nicorescu, Rozaliya Tskikandelova, Eldo Galo, Lyle Armstrong, Majlinda Lako*

80. **Four-year follow up of stem-cell-derived retinal organoid for patients with retinitis pigmentosa.**
Yasuhiko Hirami, Michiko Mandai, Sunao Sugita, Akiko Maeda, Tadao Maeda, Hirofumi Uyama, Satoshi Yokota, Masayo Takahashi, Yasuo Kurimoto, Shin-ichiro Ito, Masashi Fujihara

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81. **Multi-omic integration indicates miR-17 family of miRNAs regulates gene expression in the aging retina via STAT3 signalling.**
Nicholas Bariesheff*, Natasha Vassileff, Adrian Cioanca, Daniel Blackmore, Jereme Spiers*

82. **The RPE65 inhibitor emixustat prevents retinal degeneration caused by T4K rhodopsin in rapidly cycling light**
Orson Moritz, Colette Chiu, Beatrice Tam, Philip Kiser, Marco Bassetto

83. **RdCVF, A TRUNCATED THIOREDOXIN EVOLVES TO LINKS REDOX HOMEOSTASIS TO GLUCOSE METABOLISM IN RETINA**
Najate AIT ALI, Frederic Blond, Francois DELALANDE, Alain VAN DORSSELAER, Thierry Leveillard, Jose-Alain Sahel

84. **Assessing the effect of pan- versus isoform-specific HDAC inhibition in three mouse models of achromatopsia**
Annie Miller, Paula Fuller-Carter, Alan Harvey, Livia Carvalho

85. **Enhancing the therapeutic efficacy of the neuroprotective drug GSK-J4**
Rebekah James, Patrick Lim, Corina Ionescu, Alan Harvey, Hani Al-Salami, Livia Carvalho

86. **Small molecules to prevent cone degeneration in retinal detachment**
Alexandre Dentel, Clémence Bradic, Valérie Forster Fradot, Serge Picaud

87. **Ophthalmic Administration of Adalimumab Encapsulated in Lipid Nanocarriers for Retinitis Pigmentosa**
Sheyla Velasco Gomariz, Idoia Gallego, José Luis Pedráz, Regina Rodrigo

88. **XIAP Gene Therapy: A Gene-agnostic Neuroprotection Approach Towards a Retinitis Pigmentosa Clinical Trial**
Pamela Lagali, Adam Baker, Stuart Coupland, William Beltran, Artur Cideciyan, Catherine Tsilfidis

89. **Transcriptomic Evidence for LIF-Mediated Protection in Inflammation-Associated Retinal Degeneration**
*Maria Potilinski, **Haitao Liu**, Frank Dyka, John Ash*

90. **Topical Administration of Preimplantation Factor (sPIF) as a Potential Therapy for Retinitis Pigmentosa**
***Belén Moreno Jiménez**, Catalina Hernández-Sánchez, Enrique de la Rosa, Laura Ramírez, Miriam Ropero*

91. **Survey of α- and β- blockers against retinal degeneration**
Anthi-Styliani Makiou, Anna Kalatanova, Eva del Amo Páez, Henri Leinonen

92. **GSK3 Inhibition Promotes Photoreceptor Neuroprotection in a Non-Cell Autonomous Manner via Microglial Osteopontin Expression**
*Jerome Roger, **Catherine Hottin**, Sophie Lourdel, Julien Ricard, Muriel Perron*

93. **MP-004: a new small molecule candidate for inherited retinal dystrophies.**
Javier Ruiz Ederra, Klaudia González-Imaz, Lara-López Araceli, Miren Sarasola-Gastesi, Garbiñe Elorza-López, Maialen Sagarzazu-Aizpurua, Jose Ignacio Miranda, Jesus María Aizpurua, Ana Espinosa, Amalia Capilla, Ainara Vallejo-Illarramendi

94. **H105A peptide eye drops promote photoreceptor survival in murine and human models of retinal degeneration**
S. Patricia Becerra, Andrea Bighinati, Shama Parween, Subrata Debnath, Natalia Vergara, Valeria Marigo, Alexandra Bernardo-Colón

95. **Oral 8-aminopurine against retinal degeneration in aged retina**
Yuanyuan Chen, Abhishek Vats, Lori Birder, Edwin Jackson, Jose-Alain Sahel

96. **Topical Delivery of Modified PEDF Peptides Enhances Photoreceptor Survival in a Mouse Model of Retinal Degeneration.**
Alexandra Bernardo-Colón, Subrata Debnath, Rolf Swenson, S. Patricia Becerra

97. **Sustained release of Sh3-RdCVF improves cone survival in an rd1 mouse and P23H rat model of retinitis pigmentosa**
***Lia Huo,** Daniela Isaacs, Ellie Monroe, Shira Albeck, Tamar Unger, Emmannuelle Clérin, Christina Zeitz, Valerie Wallace, Molly Shoichet*

98. **Downregulation of transducin delays photoreceptor degeneration in the mouse model of retinal degeneration caused by the P23H rhodopsin mutation**
Frans Vinberg, Lee Sturgis, Marianna Mathison, Deepa Mathew

99. **Knockout of Nr2e3 protects against photoreceptor degeneration in CNGB1-/- mouse model of retinitis pigmentosa**
Alexander Kolesnikov, Narcisa Ianopol, Daniel Murphy, Joseph Corbo, Vladimir Kefalov

100. **The slowing of retinal degeneration provided by modified Arrestin1 is not caused by changes in gene expression**
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101. **Boosting Rhodopsin proteostasis as RHO-associated retinitis pigmentosa treatment**
***Riley Arbuckle**, Yuanyuan Chen*

102. **Targeting cGMP signaling to treat Pde6a-related Retinitis Pigmentosa**
***Catherine Hottin**, Francois Paquet-Durand*

103. **EYS-associated retinal degeneration in Portugal: From Patient Characterization to Gene Editing and Protein Localization**
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104. **Modulation of Innate Immunity through Pre-Degeneration LPS Administration Protects Against Photoreceptor Loss in Retinitis**
Mateo Pazo González, Laura Ramírez, Enrique de la Rosa, Pedro de la Villa, Catalina Hernández-Sánchez

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105. **Molecular Mechanisms Controlling the Distinct Fatty Acid Composition of the Retina**
Ekaterina Lobanova

106. **Role of chondroitin sulfate in the assembly of the interphotoreceptor matrix**
Ezequiel Salido, Isaac Brenneman, Benjamin Mitchell

107. **Elucidating the molecular architecture and structural dynamics of photoreceptor ribbon synapses in retinal health and degeneration via ultrastructure expansion microscopy**
***Kei Takahashi**, Raghavi Sudharsan, William Beltran*

108. **Inositol polyphosphate multikinase regulates photoreceptor function and survival**
Raju Rajala, Larissa Trevino, Tyler Black, Ammaji Rajala

109. **The RPE preferentially uses fatty acids as a source of energy**
***Daniel Hass**, Kriti Pandey, Richard Lowery, Qitao Zhang, Rayne Lim, Jason Miller, Jennifer Chao, James Hurley*

110. **Loss of Rom1 Expression in X. laevis rod photoreceptors results in altered incisure morphology**
Beatrice Tam, Orson Moritz

111. **Disc Morphogenesis proteins are dysregulated when the CNG channel is absent from rod outer segments**
Molly Thorson, Stephanie Wei, Kriya Jaiganesh, Jason Willer, Jillian Pearring

112. **Evaluation of RPE organelles morphometry and interactions during cell polarization using volumetric image analysis**
Davide Ortolan, Dominik Reichert, Arvydas Maminishkis, Ruchi Sharma, Kapil Bharti

113. **RNA Cargo of Extracellular Vesicles from Retinal Pigment Epithelium Reflects Retinal Degeneration and Shows Promise as a Circulating Biomarker**
Marcela Garita-Hernandez, Heran Getachew, Sudeep Mehrotra, Tarandeep Kaur, ROSARIO FERNANDEZ GODINO, Eric Pierce

114. **ROS phagocytosis reduces expression of RPE65 in ARPE-19 cells**
T. Michael Redmond, Samuel William, Sheetal Uppal, Steven Bernstein, Eugenia Poliakov, Igor Rogozin, Olga Postnikova

115. **Biomimetic hydrogel platform reveals active force transduction from retinal pigment epithelium to photoreceptors**
Sanna Korpela, Maija Kauppila, Viivi Karema-Jokinen, Lassi Sukki, Pasi Kallio, Heli Skottman, Soile Nymark, Teemu Ihalainen

116. **Influence of voltage-gated sodium channels on actin reorganization in the RPE during photoreceptor outer segment particle internalization**
Jenni Partinen, Viivi Karema-Jokinen, Julia Fadjukov, Teemu Ihalainen, Soile Nymark

117. **CRX/OTX2 photoreceptor gene regulatory network coordinates deep retina vascular plexus development and integrity.**
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118. **MALDI IMS analysis of retinal lipids in PROM1 null X. laevis shows compositional differences congruent with deposits seen in human AMD retinas**
Isaac Cantine, David Anderson, Mitch Reyzer, Kevin Schey, Brittany Carr

119. **Turquoise killifish naturally develop hallmarks of age-related macular degeneration with advancing age**
Nicole Noel, Jakub Kubiak, Eva-Maria Breitenbach, Colin Chu, Ryan MacDonald

120. **Subretinal drusenoid-like deposits in prom1-null frogs mimic markers of human age-related macular degeneration and contain potential melanophages**
Mahnoor Shoukat, Linnea Kriese, Brittany Carr

121. **Longitudinal alterations in cone structure and function in subjects with Pentosan Polysulfate Sodium Toxicity.**
Kristen Bowles Johnson, Yan Liu, Quizhi Ji, Marcel Bernucci, Charles Wykoff, Tomas Aleman, Artur Cideciyan, Stephaine Corona, James Crowell, Donald Miller

122. **Zebrafish Models of Stargardt 3 Disease and Elovl4-ablation Reveal New Insights into Disease Mechanisms**
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124. **Müller Glial Response to a Signaling and Chemical Molecule-Induced Degeneration Model in Retinal Organoids**
Jelena Murar, Sara Dori, Marta Fernández-Freire, Galatée Lasne, Tsilla Sunier, Anelia Schweri-Olac, Volker Enzmann

125. **Modeling lysosomal dysfunction in RPE cells in chloroquine-induced retinopathy model in mice.**
Alexander Loktev

126. **Integration of a biological membrane into organ-on-chip platforms: towards the next generation of retina-on-chip models for AMD research**
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127. ***In vitro* AMD modeling using iPSC-RPE cells to investigate the role of risk alleles in cellular pathogenicity**
Ruchi Sharma, Huirong Li, Jair Montford, Jiwon Ryu, Kapil Bharti

128. **Understanding the role of pigmentation and genetics in AMD using iPSC derived RPE**
Jiwon Ryu, Fares Alrefai, Ali Otadi, Huirong Li, Davide Ortolan, Jair Montford, Kapil Bharti, ruchi sharma

129. **Culture-based modeling of RPE mineralization/calcification to identify new AMD treatment paradigms**
John Hulleman, Steffi Daniel, Julian Yang, Pravallika Kambhampati

130. **Induced pluripotent stem cell derived-Retinal Pigment Epithelium of AMD displays physiologically relevant voltage-gated sodium channel expression**
Gerrit Hilgen, Majlinda Lako, David Steel, Marzena Kurzawa-Akanbi, Emily Flood, Hannah Kendall, Molly Rowland

131. **A CRISPR-Engineered Isogenic 3D Bioprinted Outer Blood-Retinal Barrier Model to Investigate the Role of CFH in AMD**
Andrea Barabino*, Tea Soon Park, ruchi sharma, Kapil Bharti*

132. **Tissue mimics based on aged decellularized outer blood-retinal barrier for in vitro modelling of age-related macular degeneration**
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133. **The AMD-associated ARMS2 A69S polymorphism drives RPE dysfunction and neuroretinal degeneration in an iPSC-based model**
Merve Sen*, Tina Pflueger, Angela Armento, Ellen Kilger, Berta de la Cerda, Marius Ueffing*

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134. **Moss-derived human complement factor H modulates retinal immune response and attenuates retinal degeneration**
Anne Wolf

135. **EHD4 regulates retinal endothelial cell permeability and inflammation**
Basma Baccouche, Yosuke Hashimoto, Natalie Hudson, Matthew Campbell

136. **Deregulation of the inflammatory reflex exacerbates pathogenic subretinal inflammation in models of age-related macular degeneration**
Kaitryn Ronning*, Christophe Roubeix, Caroline Nous, Sebastien Augustin, Frederic Blond, Foteini Argyriou, Torben Sørensen, Xavier Guillonneau, Cecile Delarasse, Florian Sennlaub*

137. **Inducible Complement Activation via Light Damage and TNF-α in African Green Monkeys: In Vivo and Explant-Based Model for Preclinical Evaluation of Complement Inhibitors**
Cavit Agca, Bibiana Iglesias, Joel Imventarza, Jeraun Dolphin, Cassandra Benjamin, Adrianna Latuszek, Ying Hu, Brooke Danielsson, Amanda Murti, Allaric Penyfeather, Mervin Lynch, Matthew Lawrence

138. **Intraretinal RPE Migration in Murine Cytomegalovirus (MCMV) Latently Infected Mice following Mitochondrial Oxidative Stress in the RPE**
Ming Zhang, Jinxian Xu, Yi Liao, Brendan Marshall

139. **Orally administered P2X7 receptor antagonism is protective against RPE atrophy in a model of dry age-related macular degeneration**
Natalie Hudson, Jeffrey O'Callaghan, Avril Reddy, Nicole Hanley, Jeff Henderson, Peter Adamson, Matthew Campbell

140. **Single-cell Analysis Reveals Conserved Glial Cell States across Neurodegenerative Diseases of the Central Nervous System**
Brian Hafler, Marcello DiStasio, Manik Kuchroo

141. **Natural Killer Cells Resolve Neovascular Lesions in Macular Degeneration**
Kiva Brennan, *Ema Ozaki,* ***Eleanor Noone****, Fiona Roche, Matt McElheron, Luke Gibbons, Sarah Palko, Katie Robb, Kieran Byrne, Said Aktas, Emma Connolly, Natalie Hudson, Matthew O'Riordan, Dara O'Boyle, Rachel Dalton, Aline Zoller, Erin Fahey, Karsten Hokamp, Derrick Feenstra, Nollaig Bourke, Matthew Campbell, David Finlay, Kelly Mulfaul, Robert Mullins, Rose Anne Kenny, Mark Cahill, Sarah Doyle*

142. **Myeloid-Specific MyD88 Deficiency Limits TLR-Driven Immune Cell Migration and Reveals a Novel Transcriptional Regulator as a Therapeutic Target in Retinal Degeneration**
Rachel Dalton, Ema Ozaki, Natalie Hudson, Matthew Campbell, Sarah Doyle

143. **Cell-specific translatomic studies to profile retinal microglia with aging**
Ana Chucair-Elliott, Sarah Ocanas, Kevin Pham, Willard Freeman

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144. **Hydroxychloroquine Treatment as a Model of Lysosomal Malfunction and Sphingolipid Signaling in Retinal Pathologies**
Nawajes Mandal, Austin Spivey, Amanda Prislovsky

145. **Sialoglycans in Human Choroid, RPE, Retina, and Basal Laminar Deposit**
Emma Navratil*, Robert Mullins*

146. **Biomechanics – a hidden driver of photoreceptor degeneration?**
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147. **Novel insights into mechanisms of impaired ELOVL4 function and depletion of VLC-FA on retinal energy metabolism and dysfunction with age.**
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148. **Interdependent Effects of PKM2 Deletion in Photoreceptors and RPE: Implications for Retinal Degeneration**
Ammaji Rajala, Rahul Rajala, Larissa Trevino, Tyler Black, Raju Rajala

149. **RPE Adaptations to Impaired Intracellular Lipid Metabolism Characteristic of Dry AMD**
John Han, *Abigail Gillingham, Qitao Zhang,* ***Daniel Hass****, Gillian Autterson, Kecia Feathers, Nathalie Tsimhoni, Erin Trombly, Kaitlyn Digsby, James Hurley, Matthew Benson,* ***Jason Miller***

150. **Detection of sub-retinal epithelial cell layer deposits by zinc staining using in-vivo methods**
Erik van Kuijk, Heidi Roehrich, Scott McPherson

151. **Key changes in the subretinal space after photoreceptor degeneration in patients affect preclinical results for artificial vision restoration**
Mohajeet Bhuckory, *Keith Ly, Andrew Shin, Vladimir Mamchik, Quentin Devaud, Davis Pham-Howard, Nathan Jensen, Roopa Dalal, Daniel Palanker*

152. **Ratio of Photoreceptor to Retinal Pigment Epithelium Atrophy at Baseline Predicts Distinct Longitudinal Degeneration Trajectories in Geographic Atrophy**
Shlomit Jaskoll, *Adi Kramer, Liran Tiosano, Jaime Levy, Sandro De Zanet, Stefanos Apostolopoulos, Carlos Ciller, Itay Chowers*

153. **Factor H Related Protein 1 (FHR1), a promoter of parainflammation in Age Related Macular Degeneration**
Andjela Sekulic, *Sarah Herr, Kelly Mulfaul, Inga-Marie Pompös, Silvia Winkler, Carola Dietrich, Benedikt Obermayer, Robert Mullins, Thomas Conrad, Peter Zipfel, Florian Sennlaub, Christine Skerka, Olaf Strauss*

154. **Inner blood-retina barrier dysfunction primes the retina for retinal pigment epithelium atrophy**
Avril Reddy, *Natalie Hudson, Jeffrey O'Callaghan, Nicole Hanley, Conor Delaney, Kieva Byrne, Matthew O'Riordan, Mark Cahill, Matthew Campbell*

155. **VEGFR2 deletion increases susceptibility to photoreceptor degeneration through glial-neuronal interaction**
Barbara Braunger, Christina Bielmeier, Sabrina Schmitt, Verena Lehr, Anita Grundl, Andrea Dillinger, Cornelia Volz, Herbert Jägle, Christine von Toerne, Stefanie Hauck, Süleyman Ergün, Ernst Tamm, Andreas Neueder, Anja Schlecht

156. **Fueling the Epigenome: Lactate-Dependent Histone Lactylation in RPE Metabolic Adaptation**
Elena Daniele*, David McGaughey, Lisa Jenkins, Mohita Gaur, Milton A. English, Anand Swaroop, Ruchi Sharma, Kapil Bharti*

157. **Pathologic photoreceptor extrusion: Part of age-related macular degeneration (AMD)?**
Felix Wagner*, Jeffrey Messinger, Christine Curcio, Mike Karl*

158. **Consequences of fenestral diaphragm loss in the choriocapillaris for photoreceptors and the retinal pigment epithelium**
Michelle Geigenfeind, *Hans Robert Kalbitzer, Werner Kremer, Ernst Tamm, Andrea Dillinger*

159. **High-fat diet accelerates atrophic AMD progression through microbiome-metabolite-RPE signaling axis**
Sayan Ghosh, *Victoria Koontz, Pooja Gautam, Sridhar Bammidi, Vishnu Babu, Puja Dutta, Stacey Hose, Jagannath Das, Dulal Bhaumik, Dhivyaa Rajasundaram, Srinivasa Sripathi, Debasish Sinha*

AMD - Therapy development

160. **Truncated complement factor H gene therapy to treat age-related macular degeneration and C3 glomerulonephritis**
Lindsey Chew, *W. Kyle McPherson, Joshua Amason, Daniel Grigsby, C. Garren Hester, Edward Flynn, Meike Visel, John Flannery, Oleg Alekseev, Catherine Bowes Rickman*

161. **Branch-chain amino acids compete with fatty acids for mitochondrial attention in the RPE, triggering altered glucose consumption and secretion of drusen components.**
Jason Miller, *Gillian Gulette, Qitao Zhang, Daniel Hass,* ***John Han****, Nancy Philp, James Hurley*

162. **Mesenchymal Stem Cell-Derived Exosomes Mitigate Amyloid β-Induced Retinal Toxicity: A Novel Therapeutic Approach for Age-Related Macular Degeneration**
Shiri Soudry, ***Amanda Qarawani***

163. **The circadian modulation of melanin biosynthesis by targeting the ROR regulatory motif in the retinal pigment epithelium**
Nemanja Milicevic, Peppi Tolonen, Amandine Bery, Bobin Abraham, Marie-Paule Felder-Schmittbuhl, A Bergen, Teemu Ihalainen, Soile Nymark

164. **Therapeutic efficacy of PDGFR Inhibition in preventing nAMD-associated Fibrosis**
Lynn Ebner, *Thomas Hofstetter, David Furi, Joel Gerber, Marie-Therese Miss, Sebastien Archaimbault, Martin Ebeling, Peter Westenskow, Christophe Roubeix*

165. **YAP activation reverses aging-related visual dysfunction caused by impaired cell–matrix adhesion**
Hyewon Chung

166. **Dual Inhibition of VEGF/Ang2 reduces markers of subretinal fibrosis in the two-stage laser induced choroidal neovascularization model of wet AMD**
Sarah Palko, Ema Ozaki, Peter Westenskow, Sarah Doyle, Rachel Dalton

167. **AMD: turning a major target of retinal lipid peroxidation into a drug - from concept to clinic.**
Karsten Schmidt, Alaina Wojciechowski, YINGRUI LIU, Brent Bell, Ying Song, Brandon Anderson, Joseph Yano, Joshua Dunaief

168. **CR2-fH, a targeted alternative pathway of complement inhibitor, reduces dry-AMD-like phenotype in iPSC-derived RPE cells and rhesus monkeys on a high-fat low-carotenoid diet**
Bärbel (Barb) Rohrer, Soumya Navneet, Jonathan Stoddard, Masaaki Ishii, Lauren Renner, Hannah Woolard, Andreas Lauer, Trevor McGill, Martha Neuringer

169. **Cellular expression of the apolipoprotein A-I (ApoA-I) mimetic 5A enhances cholesterol efflux: a potential therapy for lipid dysregulation in AMD**
W. Kyle McPherson, *Joshua Amason,* ***Lindsey Chew****, Edward Flynn, Meike Visel, John Flannery, Catherine Bowes Rickman*

170. **Neuroprotective role of Endothelin signaling in the retina**
Andrea Dillinger, Sabrina Schmitt, Ernst Tamm, Anja Schlecht, Barbara Braunger

171. **Chaperone-Mediated Autophagy as a Protective Mechanism in Retinal Degeneration and AMD**
Patricia Boya

172. **Divergent Functions of Nurr1 and Nur77 in Aging and harnessing their therapeutic potential for age-related macular degeneration (AMD)**
Goldis Malek

173. **PEDF-derived peptide protects against Amyloid-β toxicity in vitro and prevents retinal dysfunction in rats**
Amanda Qarawani*, Shiri Soudry*

Posters

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1. **Clinical features and molecular mechanisms of RP1L1 variants causing occult macular dystrophy**
   Pan Yang, Takeshi Iwata

2. **Age- and isoform-dependent changes in connexins in aged retina**
   Nicolle Salazar, Eloy Bejarano Fernandez, Alicia Domenech, Jose García Muñoz, Antonella Locascio, Ana Perez, Alejandro Ponce, Lucía Gimeno Mallench

3. **C1q inhibition attenuates neuronal injury in non-ocular neurodegenerative disease: Implications for dry Age-Related Macular Degeneration (AMD) and Geographic Atrophy (GA)**
   Eleonora Lad

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Notes

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Alan M. Laties RD Memorial Fund

Alan M. Laties, MD (1931-2021)

A major activity of RD Meeting Inc. is to provide travel fellowships for early-career scientists to attend the bi-annual conference. We are excited to announce the creation of the **Alan M. Laties RD Memorial Fund,** created to support the Alan Laties Endowed Lectureship and travel fellowships for young investigators to attend the international symposium on retinal degeneration (aka RD Meeting).

Alan recognized that developing new therapies for retinal degeneration required a multigenerational approach. His greatest passion and perhaps his most significant impact was his ability to identify talented basic and clinician scientists and mentor them throughout their careers focused on inherited retinal disease research. His support of travel awards for young scientists to attend the RD meetings helped many recipients become leaders in the field. Alan was a strong advocate for giving early-stage investigators valuable exposure and collaboration opportunities at these meetings. To honor his dedication to mentoring and training, the memorial fund will provide ongoing support for travel awards, enabling promising young investigators to attend and present their work at the meeting.

We hope you share our love and admiration for Alan and will join us in supporting the Alan M. Laties RD Memorial Fund.

Use this QR code to donate now to the Alan M. Laties RD Memorial Fund. The sole purpose of the fund is to provide Travel Fellowships and support the Alan M. Laties Endowed Lectureship.