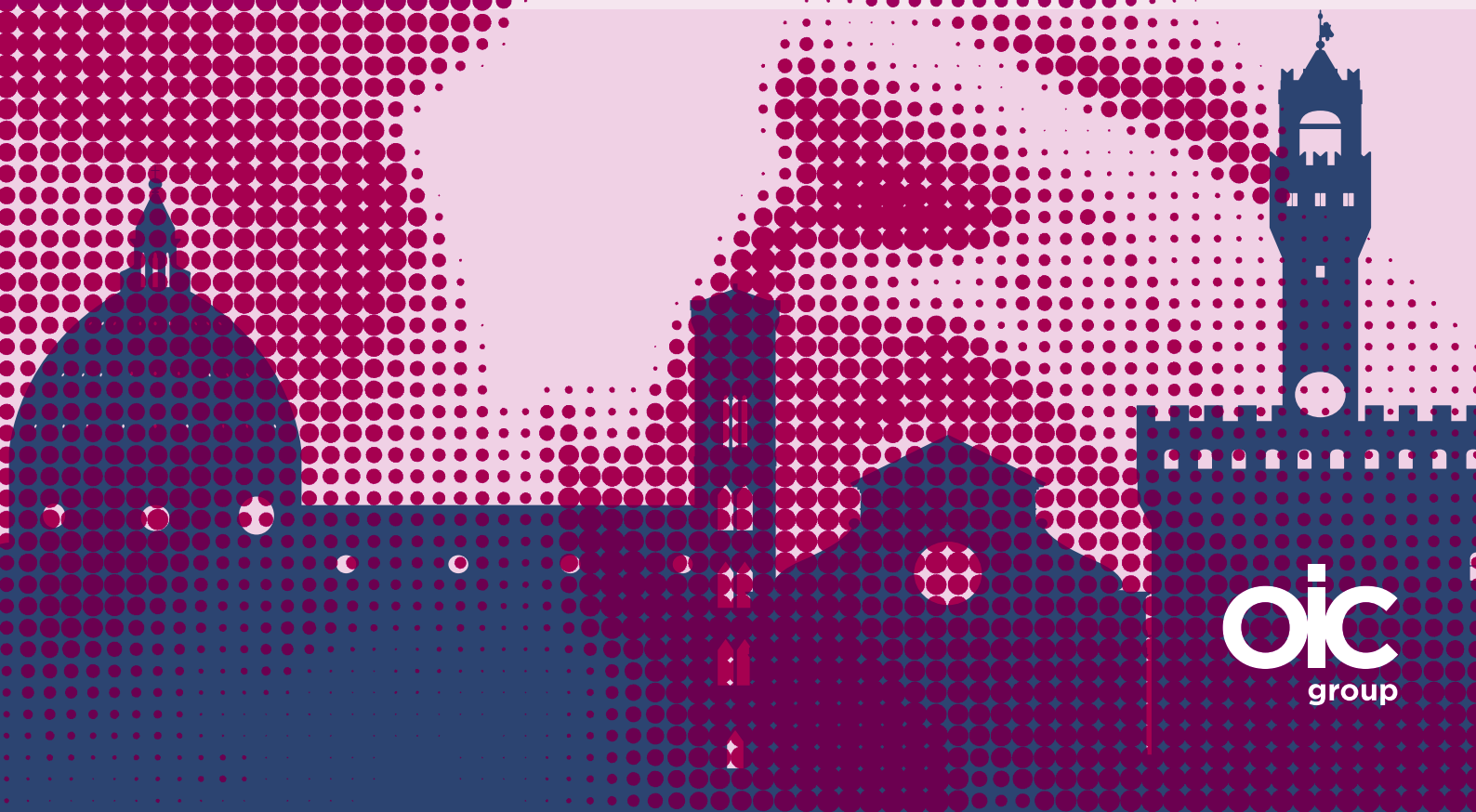
EVER

European Association for Vision and Eye Research

29th EVER CONGRESS

15-17 October 2026
Florence

PRELIMINARY PROGRAMME



oic group

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About the programme book

Sessions

- BM — Business Meeting
- CIS — Company Interested Symposium
- C — Course
- JS — Joint Session
- KN — Keynote Lecture
- YI — Young Investigators Session
- POS — Poster Session
- PS — Plenary Session
- RF — Rapid Fire Session
- SIS — Special Interest Symposium
- FR — Free Paper Session

Symbol

rf = Rapid Fire presentation

Scientific sections

ACB	=	Anatomy / Cell Biology
COS	=	Cornea / Ocular Surface
EOVS	=	Electrophysiology, Physiological Optics, Vision Sciences
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PO	=	Pathology / Oncology
RV	=	Retina / Vitreous

WITH THE PATRONAGE OF

UNIVERSITÀ DEGLI STUDI FIRENZE | Dipartimento di Fisica e Astronomia

08:30-08:45 | Room 2

PS Opening Ceremony

08:45-09:30 | Room 2

KN European Ophtalmic Heritage Lecture

Visual acuity (VA) is the most frequently obtained psychophysical threshold and included as endpoint in clinical studies. Initially, I will review the signal-detection principles, which underpin all sensory testing, supplying a rationale for VA test design.
While acuity charts deservedly remain the most common tool, semi-automatic computer-based testing presents advantages: It allows more objective testing, eliminates laborious manual scoring, automates data transfer to management systems, allows deep customization, novel stimuli, minimized learning, optimized patient motivation, and confidence ranges.
Such advantages offers the free "Freiburg Acuity (and Contrast) Test" (FrACT, https://michaelbach.de/fract/). Limitations will be discussed at the high-VA end (caused by pixel size), and in the (ultra) low-VA region, which is "off chart" for ETDRS charts even at 1-meter observation distance.
We found in two separate studies that FrACT can reproducibly assess VA in the range heretofore categorized as Counting Fingers (CF) and Hand Movement (HM). The results suggest values of 1.9 LogMAR for FC and 2.3 LogMAR for HM. Test-retest reproducibility will be discussed as a compromise between testing time and precision.

08:45 Introduction
Sven Heinrich *(Germany)*

08:50 Vision Testing: from normal over low vision to "off chart"
Michael Bach *(Germany)*

09:30-10:45 | Room 2

C ACB 35 - Vessel tortuosity computation revisited: what is appropriate – and what is not?

Vessel tortuosity has been studied for over 50 years and remains a key descriptor of vascular architecture and structural organization. Alterations in vascular geometry occur across ocular and systemic diseases, underscoring the need for consistent morphometric definitions. However, multiple competing definitions remain in use, often yielding different results when vessel length, scale, or sampling resolution differ, thereby limiting structural comparability.
This course provides an overview of tortuosity computation, from classical geometric concepts to modern scale-independent approaches. Through theoretical insight and practical examples, participants will learn when comparisons are meaningful and how to avoid methodological pitfalls in quantitative vascular morphology.

Organizer: **Andres Bribiesca-Sanchez** *(Mexico)*
Co-organizer: **Franziska G. Rauscher** *(Germany)*

09:30 Slope chain code-based vessel tortuosity – Introduction and advantages
Ulf-Dietrich Braumann *(Germany)*

09:51 From clinical images to discrete curves: methodological pitfalls in tortuosity computation
Zian Fanti-Gutierrez *(Mexico)*

10:12 A scale-independent measure of tortuosity that is robust against variation of vessel-length
Johannes Dietter *(Germany)*

10:33 Discussion

09:30-10:45 | Room B.1

C MBGE 44 - Genetic testing in inherited eye diseases

This course provides a practical overview of genetic testing in inherited eye diseases, from sequencing to variant interpretation and functional validation. It introduces modern sequencing methods and strategies for prioritizing disease-causing variants, followed by methods for variant classification and annotation, including application of ACMG guidelines. The course also addresses strategies for resolving difficult-to-interpret variants using multi-omics data and disease models to establish pathogenicity. Together, these topics highlight current tools and workflows that support accurate molecular diagnosis, improve variant interpretation, and advance precision care for patients with inherited eye diseases.

Organizer: **Joni Turunen** *(Finland)*
Co-organizer: **Elfride De Baere** *(Belgium)*

09:30 Modern sequencing methods and variant prioritization in inherited eye diseases
Mathieu Quinodoz (Switzerland)

09:51 Variant classification and annotation in inherited eye diseases
Pauliina Repo (Finland)

10:12 Decoding difficult-to-interpret variants in rare eye diseases using multi-omics and disease models
Elfride De Baere (Belgium)

10:33 Discussion

09:30-10:45 | Room B.2

C COS 52 - Standardizing tear fluid research: from consensus to clinical translation

The growing interest in tear fluid biomarkers has highlighted the urgent need for international harmonization in terminology, methodology and reporting standards. Variability in pre-analytical procedures, analytical platforms and data interpretation currently limits reproducibility and clinical translation. This course will present coordinated efforts to standardize the field, including consensus recommendations on tear fluid terminology, Delphi-based international reporting guidelines, practical frameworks for tear biobanking, and methodological approaches to biomarker analysis. Initiatives led by the Tear Research Network will be discussed as a model for collaborative science. By promoting shared standards and multicenter alignment, this course aims to strengthen research quality and accelerate the integration of tear biomarkers into clinical practice.

Organizer: **Marlies Gijs** *(The Netherlands)*
Co-organizer: **Piera Versura** *(Italy)*

09:30 Consensus recommendations on tear fluid terminology
Clemence Bonnet *(United States)*

09:43 International reporting guidelines for tear fluid research: a Delphi consensus
Jente Schmeetz *(The Netherlands)*

09:56 COST action TEAR-precision and a practical guide to tear fluid biobanking
Suzanne Hagan *(United Kingdom)*

10:09 Methodological approaches of tear fluid biomarkers
Nienke Van De Sande *(The Netherlands)*

10:22 Standardizing and harmonizing tear fluid research: efforts from the Tear Research Network
Marlies Gijs *(The Netherlands)*

10:35 Discussion

09:30-10:45 | Hall 3.A

RF Rapid Fire 1 – ACB – IM – PO

176 T003 Donor sex influences the neuroprotective effects of Mesenchymal Stromal Cell Transplantation in a sepsis model
Jhoana Abigail Guarnizo-Campoverde[1], Kristy Tatiana Rodríguez Ramírez[2], María Norte Muñoz[1], María José Ruiz-Pastor[1], Jesus Isais Gil Chinchilla[1], David García Bernal[1], Marta Agudo-Barriuso[1] *([1]Spain, [2]Germany)*

250 T004 The proteasome inhibitor Bortezomib and retinal endothelial cells: Friend or foe?
Mhd Eyad Alyoussef Almarzouki, Isabell Fuezy, Lyubomyr Lytvynchuk, Heidrun Deißler *(Germany)*

263 T005 Long-term outcomes of delayed BM-MSC therapy after optic nerve axotomy: RGC survival and glial activation
María Norte Muñoz[1], Fernando Lucas-Ruiz[1], Kristy Tatiana Rodríguez Ramírez[2], Jhoana Abigail Guarnizo-Campoverde[1], María José Ruiz-Pastor[1], David García Bernal1, Marta Agudo-Barriuso[1] *([1]Spain, [2]Germany)*

399 T006 Exploring the application of fundus autofluorescence in inherited retinal diseases two case reports with completely reversed patterns
Shuangjun Lv *(China)*

251 T081 Anterior segment OCT for monitoring disease activity in non-infectious anterior scleritis
Süheyl Uyar, Josianne ten Berge, Mirjam van Velthoven *(The Netherlands)*

469 T085 Dendritic cell plasticity: how the cytokine environment shapes phenotype and tolerogenic responsiveness
Adarsh Raveendran, Ponarulselvam Sekar, Femke Testroet, Friedemann Kiefer, Claus Cursiefen, Simona Schlereth *(Germany)*

224 T122 Endoscopic surgical corridors to the orbital apex: A systematic review
Sachleen Soor, Kezia Peter, Barbara Pierscionek *(United Kingdom)*

230 T123 Osteopontin drives tumor progression and dendritic cell dysfunction in conjunctival melanoma
Ponarulselvam Sekar, Christian Vossen, Leonie K. M. Schroers, Claus Cursiefen, Thomas Wunderlich, Simona Schlereth *(Germany)*

431 T127 Preseptal cellulitis turning into necrotizing fasciitis: a pediatric emergency
Walid Benlmostapha, Rayann Chamas, Edward Boutremans, Aurelie Le *(Belgium)*

442 T128 Mapping intratumoural evolution in uveal melanoma through spatial transcriptomics and genomic integration
Vojtech Hanicinec, Xavier Tekpli, Øystein Garred, Nils Eide, Thomas Bærland, Jürgen Geisler, Morten Carstens Moe, Henrik Jespersen, Agate Noer *(Norway)*

550 T131 Uveal melanoma model by CRISPR-Cas9 editing of normal choroidal melanocytes
Hannah Åkerberg, Vojtech Hanicinec, Eirunn Søyland, Thomas Bærland, Nils Eide, Morten Carstens Moe, Kulbhushan Sharma, Henrik Jespersen, Agate Noer *(Norway)*

555 T132 Targeting SPARC -mediated Müller glial-mesenchymal transition attenuates early retinal damage in diabetic retinopathy
Shubhrajit Barman, Senthil Kumar Ganesan *(India)*

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09:30-10:45 | Hall 3.1

RF Rapid Fire 2 – COS

164 S005 Reproducibility of tear ferning test classification by human examiners and Artificial Intelligence models: a comparative study
Guilherme Bernardes, Felipe Casseb dos Santos, Niro Kasahara, Lucas Paolera, Paulo Dantas, Élcio Sato, Bernardo Moscovici, Sérgio Felberg *(Brazil)*

244 S018 An automated slit lamp for rapid, standardized high resolution anterior segment imaging for screening, telemedicine and large-scale AI dataset generation
Marvin Bende, Immanuel Seitz, Felix Reichel, Kai Rückheim, Theo Oltrup, Torsten Strasser, Karl Bartz-Schmidt *(Germany)*

248 S019 Evaluation of near-infrared light effects on human corneal cells
Sadia Perveen, Philippe Fonteyne, Silvia Palombella, Giulio Ferrari *(Italy)*

259 S021 Immunomodulatory and regenerative effect of mesenchymal stem cells and their extracellular vesicles on corneal epithelium
Ana Kolenc, Elvira Maličev, Zala Lužnik Marzidovšek *(Slovenia)*

293 S025 Intracameral penetration and ocular safety of high-concentration topical ganciclovir
Seeun Park[1], Jin A Choi[1,2], Ji Young Lee[1] *([1]Republic of Korea, [2]United States)*

311 S027 Vitamin D supplementation stabilizes keratoconus progression by modulating systemic inflammation
Giuseppe Suanno, Leonardo Latino, Nicolò Bartolomeo, Matteo Pederzolli, Silvia Palombella, Philippe Fonteyne, Gianluca Tilaro, Stefano de Pretis, Francesca Borgo, Federico Bertuzzi, Carlotta Senni, De Micheli Massimo, Francesco Bandello, Giulio Ferrari *(Italy)*

317 S029 Antisense oligonucleotide eye drops against IRS-1 to optimize pretransplant lymphangioregression prior to high-risk keratoplasty – Previous evidence and the design of the olisens-precon study
Mert Mestanogl, Johanna Wiedemann, Felix Bock, Claus Cursiefen *(Germany)*

364 S036 Fibrosis during Fuchs Endothelial Corneal Dystrophy is promoted by a positive feedback loop via Collagen I / Integrin a11 axis
Marion Fros, Nihan Demiralay, Sara Malekmohammadikakhki, Xinlei Zhao, Mert Mestanoglu, Hardik Makwana, Thomas Clahsen, Arif Ekici, André Reis, Mario Matthaei, Claus Cursiefen, Björn Bachmann, Margarete Odenthal *(Germany)*

476 S046 The impact of gender and age on corneal neovascularization: a 20-year retrospective study
Maite López-López, Nicolò Bartolomeo, Cecilia Acuti Martellucci, Philippe Fonteyne, Giulio Ferrari *(Italy)*

511 S054 Corneal epithelial thickness changes after Sjögren syndrome-associated dry eye disease treatment
João Vaz, Mariana Vaz, Inês Mendo, Nelvia Donaire, Nuno Campos, Tomas Loureiro *(Portugal)*

547 S057 ABCB5+ limbal mesenchymal stem cell population in pterygium pathogenesis
Johanna Mann[1], Thomas Volatier[1], Berbang Meshko[1], Markus H. Frank[2,3], Natasha Y Frank[2], Christoph Ganss[1], Mark A Kluth[1], Bruce R Ksander[2], Stefano Ugliano[1], Katarzyna Bozek[1], Claus Cursiefen[1], Maria Notara[1] *([1]Germany, [2]United States, [3]Australia)*

402 S040 Measuring NfL, GFAP and Total-Tau in tear fluid, a pilot study in Huntington's Disease
Jente Schmeetz, Jasmijn van der Vleuten, Elke Pirlet, Ward van Deurse, Nienke van de Sande, David E.J. Linden, Inez H.G.B. Ramakers, Mayke Oosterloo, Marlies Gijs *(The Netherlands)*

09:30-10:45 | Hall 3.2

C EOVS 28 - Clinical indications for visual electrophysiology

The course will describe common clinical indications for electrophysiological investigations, to illustrate the choice and value of complementary tests and how they can contribute to diagnosis in patients who present with symptoms and signs such as night blindness, visual acuity loss, photophobia and nystagmus. The session will highlight how electrophysiology can localise dysfunction with the retina and visual pathways and help differeniate between disorders that may have similar or overlapping symptoms and signs. The session will also describe the value of objective testing in children, using modified protocols suitable for a paediatric population.

Organizer: **Anthony Robson** *(United Kingdom)*
Co-organizer: **Omar Mahroo** *(United Kingdom)*

09:30 Night blindness 1. Congenital stationary night blindness
Isabelle Audo *(France)*

09:43 Night blindness 2. Progressive retinal disorders
Omar Mahroo *(United Kingdom)*

09:56 Photophobia
Magella Neveu *(United Kingdom)*

10:09 Visual acuity loss
Anthony Robson *(United Kingdom)*

10:22 Special considerations for children
Dorothy Thompson *(United Kingdom)*

10:35 Discussion

09:30-10:45 | Room 4.1

C NSPH 20 - Hot topics in neuro-ophthalmology

The course will describe common clinical indications for electrophysiological investigations, to illustrate the choice and value of complementary tests and how they can contribute to diagnosis in patients who present with symptoms and signs such as night blindness, visual acuity loss, photophobia and nystagmus. The session will highlight how electrophysiology can localise dysfunction with the retina and visual pathways and help differeniate between disorders that may have similar or overlapping symptoms and signs. The session will also describe the value of objective testing in children, using modified protocols suitable for a paediatric population.

Organizer: **Raoul Khanna** *(France)*
Co-organizer: **Patrick Yu-Wai-Man** *(United Kingdom)*

09:30 Optic neuritis: the expandum spectrum
Raoul Khanna *(France)*

09:46 Idiopathic intracranial hypertension in 2026: evolving management strategies
Maelle Coutel-Darrieu *(Belgium)*

10:02 IGF-1R inhibition in thyroid eye disease: hype, hope, or here to stay?
Arnaud Martel *(France)*

10:18 Pseudopapilledema: the good, the bad, and the ugly
Vasily Smirnov *(France)*

10:34 Discussion

10:45-11:15 | Coffee break

11:20-12:05 | Room 2

KN **EVER Acta Lecture**

Endothelial keratoplasty has dramatically revolutionized corneal transplantation in the last 2 decades. Posterior lamellar techniques show less immune reactions as well as a faster and better visual recovery. Recent and continuing improvements relate to (a) novel options for artificial endothelial keratoplasty in higher-risk eyes, (b) better prevention of complications such as immune reactions and CME, (c) optimized use of donor tissue e.g. in DSO and personalized DMEK as well as (d) optimized insertion devices. These novel developments will be discussed together with ideas for future experimental and clinical developments.

11:20 Introduction
Kai Kaarniranta *(Finland)*

11:25 Endothelial keratoplasty: an ongoing (r)evolution
Claus Cursiefen *(Germany)*

12:05-13:05 | Room 2 - Room 4.1

POS **Poster Session 1**
(see page 51)

13:10-14:10 | Room 2 - Room 4.1

CIS **Industry Sponsored Lunch Symposium**

14:20-15:35 | Room 2

YI Young Investigators Session 1

326 T134 Impairment of mitophagy induces senescence-associated secretory phenotype in paracrine trabecular meshwork fibrogenesis
Qin He, Wangshu Yu *(China)*

332 T135 Preparation and decellularisation of peripapillary sclera: A reproducible protocol for extracellular matrix assessment
Maryam Mohammadzadeh, Daniela Oehring *(United Kingdom)*

596 S135 Fluorophore discrimination using fluorescence microscopy coupled with spectrophotometry, toward an in situ imaging application for Dry Eye Disease: Proof of concept
Sofiane Fraine, Baptiste Moine, Josiane Kassis, Laura Fradale, Alexandra Sutter, Marie-Caroline Trone, Nathan Dalle, Alain Roussel, Gilles Ulrich, Antoinette De Nicola, Zhiguo He, Philippe Gain, Gilles Thuret, Corantin Maurin *(France)*

597 S136 Comparative protein analysis of the ocular surface in healthy subjects versus Dry Eye Disease patients
Sofiane Fraine, Corantin Maurin, Marie-Caroline Trone, Stéphanie Some, Tarik Ali Pacha, Nathan Dalle, Philippe Gain, Sylvain Poinard, Oliver Dorado Cortez, Gilles Thuret *(France)*

232 S137 Visual acuity measurement beyond ETDRS: influence of temporal constraints and optotype crowding in glaucoma and healthy vision
Aiman Hafeez, Alison Binns, John L. Barbur *(United Kingdom)*

563 S138 Repeatability of two implementations of sweep VEP-based visual acuity estimation and their agreement with psychophysical measures
Kojo Essel-Amoah[1], Enyam Morny[1], Dillys Amega[1], Emmanuel Adator[1], Sven Heinrich[2]
([1]Ghana, [2]Germany)

531 T136 Predicting quantitative optic disc parameters from fundus images using a foundation model
Simon Christoph König[1], Stephan Moritz König[1], Anna Welzel[1], Antonia Buescher[1], Albert Kwadjo Amoah Andoh[2], Julia Stingl[1], Alicja Strzalkowska[1], Emil Nasyrov[1], Bogomil Voykov[1], Anna-Karina Maier-Wenzel[1], Khaldoon Al-Nosairy[1], Cluadia Schuart[1], Esther Hoffmann[1], Alexander Schuster[1] *([1]Germany, [2]United Kingdom)*

541 T137 The interplay of different cell death mechanisms triggers retinal ganglion cell loss in an autoimmune glaucoma model
Wanyun Qin, Burkhard Dick, Stephanie Joachim *(Germany)*

14:20-15:35 | Room B.1

SIS

MBGE 19 - From genes to treatment in inherited retinal disorders

Inherited retinal disorders (IRDs) represent a genetically and clinically heterogeneous group of diseases leading to progressive visual impairment and blindness. Caused by pathogenic variants in numerous genes, IRDs show wide variability in age of onset, disease progression, and retinal phenotype, making diagnosis and prognosis challenging. This Special Interest Session (SIS) will address the importance of genotype–phenotype correlations in IRDs and their role in accurate disease classification, patient counseling, and preparation for therapeutic interventions. The session will highlight how genetic testing combined with detailed clinical phenotyping can guide patient stratification and therapeutic decision-making. In addition, current and emerging treatment strategies will be discussed, and first clinical outcomes from ongoing and completed trials will be presented.

Organizer: **Christina Zeitz** *(France)*
Co-organizer: **Baptiste Wilmet** *(France)*

14:20 Importance of genotype-phenotype correlations in IRDs
Lorenzo Bianco *(Italy)*

14:33 RPGR-associated retinal degenerations and approaches to treat
John Neidhardt *(Germany)*

14:46 Antisense oligonucleotides for inherited retinal diseases
Rob Collin *(The Netherlands)*

14:59 Current treatment strategies for human pluripotent stem cells for inherited retinal diseases
Christelle Monville *(France)*

15:12 Update of treatment of patients with IRDs in France
Isabelle Audo *(France)*

15:25 Discussion

14:20-15:35 | Room B.2

Women in EVER

Women in EVER is made possible by EVER's overall Programme Secretary Dr. Marta Agudo Barriuso (Instituto Murciano de Investigación Biosanitaria Pascual Parrilla, and University of Murcia, Spain). Organized by Dr. Franziska Rauscher (Leipzig University, Germany) and Dr. Rebekka Heitmar (Huddersfield University, UK), the session centers around meeting up, networking and forming new connections. Distinguished and accomplished women scientists and leading clinician experts will facilitate a round table discussion during an exciting informal get-together with EVER delegates to inspire, foster ideas, aid career decisions, connect with peers and mentors, nurture and share experience.

Come and meet **Prof. Dr. Huban Atilla, Prof. Dr. Usha Chakravarthy, Prof. Dr. Janey L. Wiggs, Prof. Dr. Barbara Cvenkel,** and **Prof. Dr. Jarmila Heissigerova** to hear and discuss about their career paths, their challenges and choices and the obstacles overcome.

Please join us for this exciting session!
Topics of this round table discussion and informal get-together will focus on matters close to your heart and questions raised by your interest. Please find some stimulating and thought-provoking questions under the five headings below. Multifaceted discussion may include all of the following and more!

Abstract 1: Building an International Community of Women Scientists and Clinicians at EVER
Franziska G. Rauscher (Germany), **Rebekka Heitmar** (United Kingdom)
The European Association for Vision and Eye Research (EVER) is committed to fostering an international community of women scientists and clinicians in Ophthalmology and Vision Science. By promoting open dialogue and inspiring the next generation of female leaders, EVER encourages women to pursue their professional goals. Key strategies for support include being an active listener, maintaining an open mind, setting realistic goals, and taking concrete actions to empower women. Emphasizing positive life skills such as perseverance, optimism, and responsibility, while being mindful of challenges, is essential to helping women achieve success in their careers.

Abstract 2: Fostering an Inclusive and Diverse Scientific Community for Women at EVER
Huban Atilla *(Turkey)*
At EVER, creating an equal and interconnected world for women in science is a shared responsibility. Our round table discussions aim to celebrate diversity and foster open exchanges of experiences. This session will focus on sharing clinical and research insights, discussing personal and professional ambitions, and facilitating informal interactions with the broader EVER community. By encouraging collaboration and dialogue, EVER promotes a supportive environment where women in Ophthalmology and Vision Science can grow and succeed, ensuring that diversity is celebrated and represented at every level of science.

Abstract 3: Recognizing the Contributions and Overcoming Challenges for Women in Ophthalmology
Usha Chakravarthy *(United Kigdom)*
EVER recognizes the creativity, energy, and invaluable contributions of women in Ophthalmology and Vision Science. Despite their impact, women continue to face significant challenges such as a lack of representation in leadership, patriarchal systems, and issues of sexism, racism, and economic inequality. Women also navigate the complexities of balancing career aspirations with motherhood and caregiving roles. By addressing these challenges and advocating for greater access to leadership roles and decision-making positions, EVER supports women in overcoming these barriers and advancing their careers in science and healthcare.

Abstract 4: Advancing Women's Leadership in Science through EVER
Janey L. Wiggs *(United States)*
WOMEN in EVER is dedicated to supporting the advancement of women researchers, clinicians, and academics with a focus on leadership development. Despite representing half of the global population, women make up only 33% of researchers worldwide. Gender equality is both a fundamental human right and essential for realizing human potential and achieving sustainable development. EVER is committed to creating a more equitable and connected world for women scientists. By providing the tools, opportunities, and support needed, EVER aims to prepare women for leadership roles and influence in the scientific community.

Abstract 5: Empowering Women in Science at the WOMEN in EVER Session
Barbara Cvenkel *(Slovenia)*
The WOMEN in EVER session connects early-career and established women scientists across Europe, addressing the underrepresentation of women in science by increasing visibility and support. Distinguished female scientists and clinicians will share their experiences and inspire the next generation of women in Ophthalmology and Vision Science. Empowerment strategies include fostering critical thinking, promoting collective decision-making, ensuring equal participation, and enhancing self-confidence. With only 20% of top-tier professorships held by women, gender equality is crucial not only for fairness but also for improving research quality through diverse perspectives.

Abstract 6: "Sit at the table" – empower women to claim their rightful place in professional settings
Jarmila Heissigerova *(Czech Republic)*
The WOMEN in EVER session will examine and discuss personal narratives that illustrate the impact of internalized self-doubt on women's participation in professional environments, preventing women from claiming their rightful place in professional settings. The discussion will investigate how subtle forms of social conditioning, alongside imposter syndrome, discourage women from occupying positions of visibility and influence, contributing to the underrepresentation of women in seats of power - even in contexts where formal structural barriers have been eliminated. Increasing awareness of these internalized constraints is posited as a critical step toward empowering women to assert their presence in leadership roles and fostering the transformation of institutional cultures and claim their place at the table.

THURSDAY
15 OCTOBER 2026

14:20-15:35 | Hall 3.A

RF Rapid Fire 3 – G

253 T023 fMRI assessment of cortical plasticity in patients with glaucoma
Rohit Misra[1], Gokulraj Prabhakaran[1], Mahima Rebello[1], Khaldoon Al-Nosairy[1], Federica Cardillo[2], Rosalie Beyer[1], Constantin Freitag[1], Cynthia Djuloun[1], Francie Stolle[1], Martin Behrens[1], Tom Behrendt[1], Hagen Thieme[1], Lutz Schega[1], Michael Hoffmann[1] *([1]Germany, [2]The Netherlands)*

419 T045 Steroid-induced glaucoma in children: A 16-year retrospective analysis of clinical profiles and outcomes
Sara Ettouri, Inass Kninech, Es-samery Oumama *(Morocco)*

429 T048 Retinal and peripapillary vascular density changes after filtering glaucoma surgery assessed by OCT angiography
Pablo Tejada González, Juan Ibañez, Edurne De La Cámara Sahuquillo, Jorge Núñez Bueno, Inmaculada Herrero Sánchez, Carla Iglesia Lázaro, Javier Ramos Duarte, Adrián Arranz Álvarez, Ana María Abad Pascual, Cristina Calvo Simon, Carla Sánchez Remacha, Luca Manuel Bueno Borghi, Elena Pardina Claver, Francisco Javier Ascaso, Diana Perez Garcia *(Spain)*

444 T051 Evaluating the impact of multimodal fusion of wide-field OCT and color fundus images for glaucoma screening
Kasper Jørgensen, Marcel Reimann, Josefine Vilsbøll Sundgaard, Anders Bjorholm Dahl, Miriam Kolko *(Denmark)*

465 T055 Additive Benefits of Semaglutide for open-AngLe glaucoma – an Opportunity for Neuroprotection (ABSALON): Study protocol for a randomized, double-blind, placebo-controlled trial
Zaynab Ahmad Mouhammad[1], Anna-Sophie Thein[1], Rubin Hadad[1], Jens Rovelt[1], Barbara Cvenkel[2], Theis Lange[1], Claus Nielsen[1], Katharina Maria Scharf[1], Maja Sustar Habjan3, Andrej Meglic[2], Pete A Williams[3,4], Miriam Kolko[1] *([1]Denmark, [2]Slovenia, [3]Sweden, [4]Australia)*

487 T058 Static full-field perimetry overcomes SAP's floor effect in end-stage glaucoma
Nasim Shafiabadi[1], Konstantinos Papppelis[1,2], Nomdo Jansonius[1] *([1]The Netherlands, [2]Greece)*

488 T059 Deep sclerectomy in normal-tension glaucoma – a 15-year follow-up study
Aleksi Kallio, Nina Lindbohm, Mika Harju *(Finland)*

491 T060 Bridging the "black box" gap: an explainable AI (XAI) framework for multi-stage glaucoma classification using YOLOv9
Ivan Shcherbinin *(Portugal)*

515 T064 Central corneal thickness in treatment-naive primary open-angle glaucoma does not differ from healthy eyes: A prospective observational study
Matías Ríos, Guillermo Oñate, Antonella Andrade, Sergio Alarcon, Francisca Leal, Pablo Romero, Jose Guajardo *(Chile)*

524 T066 Immune markers and atypical phenotypes in pseudoexfoliative glaucoma association with uveitis and endothelial cell loss
Minjeong Koo *(Republic of Korea)*

535 T067 Pre-surgical use of antiglaucomatous medications: A nationwide registry study
Jeppe Samuelsen, Christina Eckmann-Hansen, Kim Holmgaard, Hadi Kjærbo, Christian Torp-Pedersen, Miriam Kolko *(Denmark)*

640 T074 Faster, but reliable? Web-based versus Standard Automated Perimetry for glaucoma assessment and monitoring
Danijel Mikulić, Tena Križ, Mia Zoric Geber, Katia Novak Lauš, Marta Šrajbek, Ivanka Petric Vicković, Zoran Vatavuk *(Croatia)*

14:20-15:35 | Hall 3.1

FP Free Paper Session1

379 Rethinking scleral toricity: does the scleral axis remain constant across the ocular surface?
Alejandra Consejo *(Spain)*

390 Repeatability of conjunctival microvessels measurements
Clara Llorens-Quintana[1], Alberto Dominguez-Vicent[2], Mirza Karamovic[2], Emre Can Kuran[3], Umut Kuran[3], David Madrid Costa[1] *([1]Spain, [2]Sweden, [3]Türkiye)*

446 Tear fluid cortisol as a marker of acute stress reactivity
Dimitra Arsenia Barmpari, Ward van Deurse, Conny Quaedflieg, Thérèse van Amelsvoort, Marlies Gijs, Dennis Hernaus *(The Netherlands)*

289 Lenadogene Nolparvovec gene therapy for leber hereditary optic neuropathy in the real-life setting
Chiara La Morgia[1], Catherine Vignal-Clermont[2], Valerio Carelli[1], Mark Moster[3], Robert Sergott[3], Sarah Thornton[3], Sean Donahue[3], Michelle Carbonelli[1], Patrick Yu-Wai-Man[4], Jean-François Girmens[2], Hélène Dollfus[2], Thomas Klopstock[5], Claudia Priglinger[5], Magali Taiel[2], José-Alain Sahel[2]
([1]Italy, [2]France, [3]United States, [4]United Kingdom, [5]Germany)

380 Defocus Incorporated Multiple Segment Spectacle Lenses versus Orthokeratology lenses for myopia control. A non-inferiority randomised clinical trial
Lou-Ann Andersen, Anna Mejldal, Saranga Sivakumar, Trine Jakobsen, Flemming Møller *(Denmark)*

14:20-15:35 | Hall 3.2

C EOVS 57 - Basic principles of state-of-the-art ophthalmic instrumentation

This course is aimed at providing an overview of the basic optical principles and machine learning applications of state-of-the-art retinal-imaging systems, with a special emphasis on optical coherence tomography (OCT). The course will include a discussion of additional contrast mechanisms, future trends and cutting-edge developments, along with how such imaging can even serve as a window into brain mechanisms. The goal is to illuminate for the clinician and scientist the underlying optical concepts of various devices and technological variations, even when not familiar with the particular technology employed within the instrument, and to demonstrate its potential with applications beyond those of retinal disease diagnosis and follow-up.

Organizer: **Kristina Irsch** *(France)*
Co-organizer: **Miguel Castelo-Branco** *(Portugal)*

14:20 Optical coherence tomography - Basic optical principles
Kristina Irsch *(France)*

14:36 Optical coherence tomography - Additional contrast mechanisms, future trends, and cutting-edge technological developments
Kristina Irsch *(France)*

14:52 Optical coherence tomography - Machine learning
Rui Bernardes *(Portugal)*

15:08 Retinal imaging - A window into brain mechanisms
Miguel Castelo-Branco *(Portugal)*

15:24 Discussion

14:20-15:35 | Room 4.1

JS **PBP 22 - Glial-Mediated Inflammatory Responses in Retinal Neurodegeneration**

Retinal neurodegenerative diseases, including glaucoma and optic neuropathies, involve complex mechanisms beyond primary neuronal loss. Interactions between retinal ganglion cells and glial cells—particularly Müller glia and microglia—shape neuroinflammation, metabolic imbalance and tissue remodeling. This symposium integrates experimental and translational perspectives to examine how glial activation, immune signaling and metabolic stress drive retinal vulnerability and optic nerve damage. It will explore the dual neuroprotective and neurotoxic roles of glia, their crosstalk with neurons, chronic inflammation, and the impact of biomechanical stress along the retina–optic nerve axis to identify biomarkers and therapeutic targets.

Organizer: **María Norte Muñoz** *(Spain)*
Co-organizer: **Xandra Pereiro** *(Spain)*

14:20 Müller Glia–Retinal ganglion cell communication via extracellular vesicles in glaucoma
Xandra Pereiro *(Spain)*

14:36 When mechanics matter: how müller glia sense and respond to their environment
Laura Prieto López

14:52 Lipid signalling in inflammation
María José Ruiz Pastor *(Spain)*

15:08 New frontiers in cellular therapy for retinal regeneration
María Norte Muñoz *(Spain)*

15:24 Discussion

15:40-16:25 | Room 2

KN **De Laey Ever Keynote Lecture**

Glaucoma is a leading cause of irreversible blindness, with even more people experiencing visual impairment and consequently reduced quality of life. Late detection, due to its insidious and asymptomatic course, non-adherence to treatment, variable rates of progression among patients, and progression despite apparently controlled intraocular pressure, all contribute to visual impairment. Improving glaucoma management requires timely detection and treatment, with a shift from eye drop-based care to a personalised approach stratified by risk of progression. This includes integrating selective laser trabeculoplasty as first-line therapy, utilising minimally invasive glaucoma surgery for earlier intervention, and introducing sustained-release drug delivery systems, all of which enhance adherence. In the future, unravelling pathogenetic mechanisms using glaucomics could enable the identification of novel biomarkers and drug targets for glaucoma.

15:40 Introduction
Miriam Kolko *(Denmark)*

15:45 How to improve glaucoma management? Challenges and opportunities
Barbara Cvenkel *(Slovenia)*

16:25-16:55 | Coffee break

16:55-18:10 | Room 2

YI Young Investigators Session 2

395 T138 AAV-mediated ocular gene therapy overcomes retinal immune tolerance, to enable transgene-specific cytotoxic T cell-mediated retinal cell loss
Rose Avient, Lorna Fowler, Bruno Charbit, Jason Hopley, Elizabeth Rosser, Andrew Dick, Colin Chu *(United Kingdom)*

543 T139 Escherichia coli Nissle 1917 enhances the anti-inflammatory effect of methotrexate but counteracts the efficacy of baricitinib in experimental autoimmune uveitis
Sylvia Fargašová, Klára Dusová, Petra Prochazkova, Aneta Klímová, Michal Kraus, Janet Jezkova, Monika Steigerova, Miloslav Kverka, Nikolina Canova, Jarmila Heissigerova, Petra Svozilkova *(Czech Republic)*

141 S139 Primary posterior capsulorhexis as a novel technique for prevention of posterior capsule opacification after cataract surgery: a comparative clinical study
Grigor Kamushadze, David Shengelia, Gigi Gorgadze, Saiali Ibragimova *(Georgia)*

582 S140 Intraocular recording of ciliary muscle biopotential signals associated with accommodation in a nonhuman primate
Bishesh Sigdel, Sven Schumayer, Sebastian Kaltenstadler, Volker Bucher, Albrecht Rothermel, Birgit Korbmacher, Eberhart Zrenner, Torsten Strasser *(Germany)*

246 T140 Can a genetic score for variance of refractive error identify children at enhanced risk of myopia due to lifestyle risk factors?
Xi He, Louise Terry, Jeremy Guggenheim *(United Kingdom)*

611 T141 Refractive errors in patients with retinopathy associated with variants in CACNA1F or CABP4
Joana Silva[1], Siying Lin[1], Gavin Arno[1,2], Mariya Moosajee[1], Andrew R Webster[1], Michel Michaelides[1], Omar Mahroo[1] *([1]United Kingdom, [2]United States)*

214 F136 Cell-type-resolved blood transcriptomics reveals systemic immune dysregulation associated with penetrance in Leber Hereditary Optic Neuropathy
David Wong, Patrick Yu-Wai-Man, NIHR BioResource Rare Diseases RNA Consortium *(United Kingdom)*

334 F137 Temporal proteomic mapping of NMOSD optic neuritis identifies inflammatory peak, endogenous remyelination, and chronic axonal degeneration
Shiqi Yao, Shaoying Tan *(Hong Kong)*

16:55-18:10 | Room B.1

SIS MBGE 22 - MSCA Doctoral Network MyoTreat: Myopia - from genes and environment to cellular responses and treatment

Vision is regulated by biochemical pathways that control eye growth: an inhibitory pathway activated when images focus in front of the retina, and a stimulatory pathway when images focus behind it. Myopia causes distant objects to appear blurry, and current treatments offer limited benefits. Funded by the Marie Skłodowska-Curie Actions programme, the MyoTreat project brings together experts from six European countries to train 12 doctoral candidates. The consortium investigates how genetic variants interact with lifestyle factors influencing myopia, with a strong focus on the role of the choroid in eye-growth regulation. Using human and animal models, the project aims to identify new drug targets, develop early biomarkers, and advance innovative therapies to regulate eye growth.

Organizer: **Christina Zeitz** *(France)*
Co-organizer: **Marita Feldkaemper** *(Germany)*

16:55 The role of primary metabolic processes and energy demand during myopia and hyperopia development
Marita Feldkaemper *(Germany)*

17:08 Short time lens wear in mature chicken: choroidal response and molecular analysis
Falk Schrödl *(Austria)*

17:21 Inherited retinal disorders as a tool to better understand myopia
Christina Zeitz *(France)*

17:34 Polymorphisms in cone function genes: a step toward understanding common refractive errors?
Rigmor C. Baraas *(Norway)*

17:47 Insights from studying polygenic scores for refractive error
Jeremy Guggenheim *(United Kingdom)*

18:00 Discussion

16:55-18:10 | Room B.2

SIS COS 31 - Corneal infections

This SIS will cover aspects of corneal infection pathologies, diagnosis and treatment:
Five renowned corneal specialists from five European countries with share their expertise with a broad spectum of infectious keratitis setting:
Contact-lens associated keratitis, AI-based tools of diagnosis finding, infections related to keratoplasties, an update on acanthamoeba keratitis as well as therapeutic approaches like antibacterial crosslinking.

Organizer: **Thomas Fuchsluger** *(Germany)*
Co-organizer: **Rimvydas Asoklis** *(Lithuania)*

16:55 Corneal infections
Rimvydas Asoklis *(Lithuania)*

17:08 Hot, warm and cold keratoplasty in infectious keratitis
Harminder S. Dua *(United Kingdom)*

17:21 Antibacterial crosslinking
Claus Cursiefen *(Germany)*

17:34 AI assisted diagnosis of acanthamoeba keratitis
Giulio Ferrari *(Italy)*

17:47 Current studies on Acanthamoeba keratitis and treatment
Thomas Fuchsluger *(Germany)*

18:00 Discussion

16:55-18:10 | Hall 3.A

RF Rapid Fire 4 – EOVS – IM

119 S072 Targeted item reduction of a low vision visual functioning questionnaire
Zi Jin[1], Abeer Shuja[2], Priyanka Roy[2], Chris Bradley[2], Gislin Dagnelie[2] *([1]United Kingdom, [2]United States)*

266 S078 Mitochondrial TSPO modulation preserves retinal function and structure in diabetic retinopathy by attenuating oxidative stress
Francesca Corsi, Alessia Galante, Rosario Amato, Sabrina Taliani, Federico Da Settimo, Maurizio Cammalleri, Ilaria Piano, Massimo Dal Monte, Claudia Gargini *(Italy)*

300 S080 Can adaptation to homonyomous visual field defects be measured with SONDA eye movement perimetry?
Minke de Boer, Anne Vrijling, Gera de Haan, R.J. Renken, J.B.C. Marsman, Nomdo Jansonius, Frans Cornelissen *(The Netherlands)*

320 S081 Association of axial length, age and sex with refractive status in a population-based cohort
Kristy T. Rodríguez-Ramírez, Ralph Michael, Kerstin Wirkner, Christoph Engel, Markus Loeffler, Toralf Kirsten, Franziska G. Rauscher *(Germany)*

393 S087 The effects of stimulus luminance on the ISCEV-Standard multifocal electroretinogram and on observer comfort
Husnain Karim, Andrew Carter, Magella Neveu, Anthony Robson *(United Kingdom)*

455 S089 Can pupillary responses reveal intrinsically photosensitive retinal ganglion cell (ipRGC) functional impairment in treatment-resistant depression?
Inês Pais, Ana Cláudia Rocha, Rúben Magalhães, João Borges, Nuno Rocha, Catarina Mateus *(Portugal)*

480 S091 Investigating the relationship between size and coherence in a novel motion perception paradigm
Richard Connors[1,2], Frans Cornelissen[2], Bjorn Helland-Hansen[1], Minke de Boer[2], Frank Lindseth[1] *([1]Norway, [2]The Netherlands)*

482 S092 Diagnostic value of electrophysiology in pediatric ophthalmology patients in Greece
Anna Nikolaidou[1], Stavrenia Koukoula[2], Theodora Gianni[1], Lampros Lamprogiannis[1], Athanasia Sandali[1] *([1]Germany, [2]Greece)*

486 S093 Chromatic Pupillometry in ABCA4-related maculopathy: a possible additional biomarker of visual disfunction?
Rocco Mastromartino, Benedetto Falsini, Andrea Coppè, Alessia Amato, Alessandro Cappelli, Giancarlo Iarossi *(Italy)*

566 S097 Axial length responses to ON and OFF stimulation using a vr headset in myopes and emmetropes
Anna Nikolaidou, Frank Schaeffel, Torsten Strasser *(Germany)*

584 S098 Early-phase metrics for cone-mediated dark adaptation measured in aging and AMD
Beatriz Sánchez Gavilán[1], MC Puell[1], Shrinivas Pundlik[2] *([1]Spain, [2]United States)*

594 T088 Efficacy of DMARDs in non-infectious scleritis
Süheyl Uyar, Mirjam van Velthoven, Josianne ten Berge *(The Netherlands)*

16:55-18:10 | Hall 3.1

RF Rapid Fire 5 – NSPH

134	F006	Understanding the extent of visual snow and associated symptoms in inherited retinal disease **Ameerah Ilyas, Leonie Kiedel, Michel Michaelides, Andrew Webster, Matteo Rizzi, Omar Mahroo, Sui Wong** *(United Kingdom)*
191	F011	Outcomes of medial rectus recession on a semi-adjustable suture in Thyroid Eye Disease related esotropia **Aikaterini Chatzara, Anastasia Margariti, Michail Aggelidis, Dimitrios Vassiliou, Anthi Nikolopoulou, Ilias Georgalas, Anastasia Tsiogka, Klio Chatzistefanou** *(Greece)*
257	F013	Design and preliminary clinical evaluation of a "Goggle-Type" lacrimal canal compressor **Shuang Li, Jing Wang, Lijuan Zhang** *(China)*
282	F014	Retrospective analysis of anamnesis-based risk factors associated with myopia severity in children Aged 6–18 years **Aleyna Nur Yetim Ilkis, Seren Kaplan Güngördü, Burcin Cakir, Büşra Güner Sönmezoğlu** *(Türkiye)*
347	F017	What determines visual outcome in Pediatric open globe injuries? Insights from a five-year retrospective cohort study **Inass Kninech, Sara Ettouri, Daghouj Ghizlane, Bouchra Allali, Asmaa El Kettani** *(Morocco)*
407	F023	Optic disc drusen in idiopathic intracranial hypertension: Prevalence and clinical and neuroradiological correlates **Matteo Baldi, Paola Ciasca, Gabriella Cammarata, Lisa Melzi, Irene Schiavetti, Aldo Vagge, Stefania Bianchi Marzoli** *(Morocco)*
414	F024	Performance of an ai-based screening tool in compressive optic neuropathy **Madalena Gonçalves[1], Tomás Reis da Costa[1], Inês Mendo[1], Luis Abegão Pinto[1], Ingeborg Stalmans[2], Quirina Ferreira[1], Joana Ferreira[1]** *([1]Portugal, [2]Belgium)*
435	F025	Peripapillary Vessel Densities Measured with OCTA in MOGAD **Sevde Nur Akyuz Altun, Seren Kaplan Güngördü, Burcin Cakir, Nilgun Ozkan Aksoy** *(Türkiye)*
459	F029	Bruch's membrane opening minimum rim width differentiates non-arteritic anterior ischemic optic neuropathy from neurovascular conflict of the anterior visual pathways **Ludovica Gargiulo, Francesco Cutrupi, Stefania Bianchi Marzoli** *(Italy)*
523	F041	Astrocytes as drivers of pathogenicity in Leber's Hereditary Optic Neuropathy (LHON) **Wyn Firth, Marcela Votruba** *(United Kingdom)*
534	F042	Neurovascular compression between the supraclinoid internal carotid artery and anterior optic pathway: establishing clinical and MRI diagnostic criteria **Francesco Cutrupi, Ludovica Gargiulo, Paola Ciasca, Alessandra Criscuoli, Claudia Cinnante, Stefania Bianchi Marzoli** *(Italy)*
560	F048	Ocular axial length as a modifier of visual outcomes in dominant optic atrophy: A longitudinal cohort study **Sebastiano Del Fabbro, Lorenzo Bianco, Federico Formenti, Anna Maria De Negri, Arturo Carta, Leonardo Caporali, Chiara La Morgia, Valerio Carelli, Piero Barboni, Francesco Bandello, Maria Lucia Cascavilla** *(Italy)*

16:55-18:10 | Hall 3.2

JS EOVS 11 - ISCEV methods, extended protocols and future techniques

This ISCEV/EVER course will describe the electrophysiological and psychophysical methods endorsed by the International Society for Clinical Electrophysiological of Vision (ISCEV) with the focus on the most recently developed tests, including typical clinical and research applications. The course will additionally highlight new methods of recording and analyses that are likely to gain more widespread acceptance, either for screening, diagnostic or deep phenotyping purposes

Organizer: **Anthony Robson** *(United Kingdom)*
Co-organizer: **Omar Mahroo** *(United Kingdom)*

16:55 Introduction to ISCEV electrophisiological methods
Ruth Hamilton *(United Kingdom)*

17:11 A new extended ERG protocol: photoreceptor-directed ERGs
Jan Kremers *(Germany)*

17:27 Objective VEP estimation of visual acuity
Dorothy Thompson *(United Kingdom)*

17:43 Potential of the potentials: new and future methods
Omar Mahroo *(United Kingdom)*

17:59 Discussion

16:55-18:10 | Room 4.1

SIS EOVS 24 - Myopia innovations: 2026

This session will present the latest innovations and evidence-based strategies in myopia management as of 2026, with a strong focus on clinical applicability. International experts will review ongoing clinical trials in myopia control and provide an update on emerging pharmacological approaches, including the role of 7-methylxanthine. Novel optical interventions, such as defocus-based spectacle designs for myopia control, will be discussed alongside current data on their effectiveness. Special attention will be given to the safety of repeated low-level red light (RLRL) therapy, addressing both benefits and potential risks. The session will conclude with a practical overview of implementing structured, evidence-based clinical pathways for myopic children, highlighting real-world experience from the Moorfields Dubai myopia pathway.

Organizer: **Andrzej Grzybowski** *(Poland)*
Co-organizer: **Carla Rita Dos Santos Costa Lança** *(United Arab Emirates)*

16:55 Ongoing clinical studies on myopia control
Carla Rita Dos Santos Costa Lança *(United Arab Emirates)*

17:08 7-methylxanthine in myopia control: Update 2026
Klaus Trier *(Denmark)*

17:21 Myofix defocus spectacles for myopia control
Rafael Iribarren *(Argentina)*

17:34 Safety of low-intensity red light therapy
Andrzej Grzybowski *(Poland)*

17:47 Innovative lens designs for myopia management: early outcomes and future directions
Cristina Alvarez Peregrina *(Spain)*

18:00 Discussion

08:30-09:15 | Room 2

KN Soubrane EVER Keynote Lecture

Genetic studies have led to the identification of 12 genes primarily responsible for early-onset glaucoma and hundreds of genomic loci influencing adult-onset disease risk. Childhood glaucoma genes encode for proteins involved in ocular development and extracellular matrix, while genetic factors influencing adult-onset disease implicate multiple biological pathways and processes including lipid metabolism and vascular development, providing insights into disease mechanisms and potentially revealing novel therapeutic targets. Genes responsible for glaucoma and genetic factors influencing disease risk can be used for genetic testing, allowing for informed genetic counseling for early-onset glaucoma cases and families and risk stratification using polygenic risk scores (PRS) for adult-onset disease. Genetic testing for glaucoma can identify people with high disease risk and allow for surveillance and timely treatment that can prevent permanent loss of vision.

08:30 Introduction
Joni Turunen *(Finland)*

08:35 Glaucoma genetics: genetic testing, disease mechanisms and opportunities for novel therapies
Janey Wiggs *(United States)*

09:20-10:35 | Room 2

YI Young Investigators Session 3

264 S141 Mapping the shared and distinct proteomes of plasma, tear fluid and aqueous humor
Nienke van de Sande[1], Yutong Wang[1], Jasmijn van der Vleuten[1], Jente Schmeetz[1], Li Liang[1], Mayke Oosterloo[1], David E.J. Linden[1], Sébastien Foulquier[1], Rudy Nuijts[1], Inez H.G.B. Ramakers[1], Carroll Webers[1], Ashok Sharma[2], Marlies Gijs[1] *([1]The Netherlands, [2]United States)*

521 S142 A novel non-invasive photoswitchable molecule restores light sensitivity and visual acuity in blind animal models
Santiago Milla-Navarro[1], Joaquín Martínez Tambella[1], Rosalba Sortino[1], Davia Prischich[1], Adina Dumitru[1], Jordi Hernando[1], Núria Camarero[1], Carlo Matera[2], Pedro de la Villa2[1], Pau Gorostiza[1] *([1]Spain, [2]Italy)*

138 T142 Tumor and retinal detachment volumes on MRI as predictors of enucleation after proton beam therapy for uveal melanoma
Iris Mulder, Lennart Pors, Corné Haasjes, Khanh Vu, Marina Marinkovic, Lisa Klaassen, Coen Rasch, Jan-Willem Beenakker *(The Netherlands)*

595 T143 Diagnostic accuracy of computed tomography for detection of post-laminar optic nerve invasion in patients with retinoblastoma: A systematic review and meta-analysis
João Pedro Lima, Éliton Ferreira, Enilton Machado *(Brazil)*

177 F138 Polyphenolic hydrazinyl-thiazole and quinazolin-4(3H)-one derivatives show enhanced antioxidant activity in treating age-related macular degeneration
Răzvan-Geo Antemie, Ovidiu Ciprian Samoilă, Ximena Mureșan, Gabriel Marc, Raluca Pele, Simona Valeria Clichici *(Romania)*

218 F139 An AND versus OR study of retinopathy of prematurity screening criteria in a Mexican secondary-level hospital: a Latin American counterpart study
Diego Aguilar-García *(Mexico)*

09:20-10:35 | Room B.1

SIS MBGE 41 - Toward precision glaucoma screening: the role of genetics and AI

The session explores how genomics and artificial intelligence (AI) can shift glaucoma screening from reactive detection toward precision prevention. Tusa presents Finnish biobank data showing that polygenic risk scores (PRS) stratify lifetime glaucoma risk and predict treatment needs. Wiggs demonstrates that recall by PRS reveals higher disease prevalence and many previously undiagnosed cases. Reimann addresses the "reality gap" between strong AI benchmark performance and real-world clinical utility, emphasizing calibration, uncertainty estimation, robust OCT representations, and longitudinal modeling. Hemelings introduces AI-derived endophenotypes that convert retinal imaging into estimates of progression for genetic discovery and precision prognosis. Together, these approaches aim to enable earlier detection, improved risk stratification, and personalized glaucoma care.

Organizer: **Joni Turunen** *(Finland)*
Co-organizer: **Marcel Reimann** *(Denmark)*

09:20 Polygenic scores for risk stratification and prognosis of glaucoma in the Finnish population
Eemeli Tusa *(Finland)*

09:36 Recall by polygenic risk score in two biobanks supports a genomic approach for glaucoma detection
Janey L. Wiggs *(United States)*

09:52 The reality gap in AI: how to ensure AI tools deliver actual clinical utility in glaucoma screening
Marcel Reimann *(Denmark)*

10:08 AI-Derived endophenotypes for glaucoma progression: bridging the gap between retinal imaging and genetics
Ruben Hemelings *(Singapore)*

10:24 Discussion

09:20-10:35 | Room B.2

C COS 39 - Ocular pain: an emerging disease in ophthalmology?

Ocular pain is increasingly recognized as a distinct and clinically important entity. Once considered secondary to other eye diseases, it is now clear that it can persist independently and significantly impair quality of life. This course will review the pathophysiology, classification, diagnostic approaches, and therapeutic strategies for ocular pain. Designed for ophthalmologists and basic scientists, it provides essential knowledge to understand, diagnose, and manage this emerging and impactful condition.

Organizer: **Giulio Ferrari** *(Italy)*
Co-organizer: **Piera Versura** *(Italy)*

09:20 Basic mechanisms of ocular pain
Giuseppe Suanno *(Italy)*

09:33 Modalities for quantification of ocular pain
Giulio Ferrari *(Italy)*

09:46 Blood derived products as a treatment of ocular pain
Piera Versura *(Italy)*

09:59 Ocular pain in rare corneal and ocular diseases
Matteo Pederzolli *(Italy)*

10:12 Dry eye disease and ocular pain
Emanuela Aragona *(Italy)*

10:25 Discussion

09:20-10:35 | Hall 3.A

RF Rapid Fire 6 – MBGE

542 T115 Clinical and genetic heterogeneity in NPHP1-related retinopathy: A case series
Christina Karakosta, Toshit Varshney, Michel Michaelides, Omar Mahroo, Andrew Webster *(United Kingdom)*

130 T092 Design and in vitro expression of miniaturized USH2A constructs for mutation-independent non-viral gene therapy
Lucija Malinar, Marko Hawlina, Urška Kamenšek *(Slovenia)*

156 T094 Clinical features associated with the c.1092+5G>A variant in the FLVCR1 gene
Isaac Tang Jing Wen[1], Genevieve Wright[1], Sakina Rajabali[1], Siying Lin[1,2], Gavin Arno[1], Michel Michaelides[1], Anna Lentzsch[1], Andrew Webster[1], Omar Mahroo[1] *([1]United Kingdom, [2]United States)*

199 T096 Optimizing dual-isoform delivery for the gene therapy of FAM161A deficiency: a preclinical study
Elora Vanoni[1], Mélissa Gilles[2], Kabirou Adamou[1], Eyal Banin[3], Dror Sharon[3], Yaël Alves[1], Sylvain Crippa[1], Vasiliki Kalatzis[2], Fabio Duarte[1], Corinne Kostic[1], Yvan Arsenijevic[1]
([1]Switzerland, [2]France, [3]Israel)

298 T103 Ocular trauma in low- and middle-income countries: A systematic review and meta-analysis
Aisha Mansur, Abeer Mansur *(Libya)*

396 T106 Proteomic profiling of age-related macular degeneration reveals molecular signatures of disease progression
Joëlle Vergroesen, Mahfam Shahabi, Sheila de Koning-Backus, Ben Muller, Meri Oliva, Bridget Riley-Gillis, Gerry Rodrigues, Jonas Kuiper, Anneke den Hollander, Karin van Garderen, Magda Smoor, Caroline Klaver, Yara Lechanteur *(The Netherlands)*

426 T109 Analysis of ophthalmic malpractice cases: a retrospective study based on judicial decisions in Turkey
Ezgi Karataş, Ceren Durmaz Engin, Yavuz Oruç, Süleyman Kaynak *(Türkiye)*

470 T113 Sequential low-volume metabolomic and lipidomic profiling of human tears using non targeted microLC-HRMS
Pilar Sáenz de Santa María, Nicolas Sanchez Maluf, Alvaro Fernández-Vega González, Maria Isabel Lopez Galvez, Hector Gonzalez-Iglesias *(Spain)*

587 T118 Exploring Müller cell glial-to-mesenchymal transition in the pathogenesis of proliferative vitreoretinopathy: An in vitro pilot study
Zuzanna Granek, Grzegorz Galita, Tomasz Dybek, Ireneusz Majsterek *(Poland)*

605 T119 Thyroid eye disease confers independent risk of venous thromboembolism in a multi-institutional cohort study
Aaron Zhao, William Katowitz *(United States)*

623 T120 A variant in BEST1 associated with peripheral retinopathy and myopia
Zain Girach[1], Mohammed Sabir Acharat Parakkat[1], Toshit Varshney[1], Gavin Arno[1,2], Michel Michaelides[1], Moin Mohamed[1], Andrew R Webster[1], Andrew Browning[1], Siying Lin[1], Omar Mahroo[1] *([1]United Kingdom, [2]United States)*

627 T121 The CFH gene may affect protein signatures associated with age-related macular degeneration
Joëlle Vergroesen, Mahfam Shahabi, Sheila de Koning-Backus, Ben Muller, Meri Oliva, Bridget Riley-Gillis, Gerry Rodrigues, Jonas Kuiper, Anneke den Hollander, Karin van Garderen, Magda Smoor, Caroline Klaver, Yara Lechanteur *(The Netherlands)*

09:20-10:35 | Hall 3.1

RF Rapid Fire 7 – LC – PBP

110 S102 Association between irrigation–aspiration cannula design and post-cataract endophthalmitis: a retrospective observational study of 12,299 consecutive surgeries
Kaushal Pillai Syam, Padmanabha Pillai Syam, Stephen Hannan *(United Kingdom)*

268 S105 Reduced peripheral contrast sensitivity in pseudophakic eyes is associated with increased refractive errors
Dilce Tanriverdi, Lucille Prendergast, Antonio Del Águila-Carrasco, Sara El Aissati, Carmen Canovas Vidal, Frans Cornelissen *(The Netherlands)*

117 S118 Urolithin a reverses TGF-β2-induced trabecular meshwork fibrosis by promoting parkin-independent mitophagy
Wangshu Yu, Qin He *(China)*

140 S119 Link between choroidal thickness and HIF-1α signalling in myopic and hyperopic chicks, and a glimpse into the human choroid
Anna Sofia Castells Nieto[1], Falk Schrödl[2], Ute Mathis[1], Alexandra Kaser[2], Sandra Bernhard-kurz[1], Christian Platzl[2], Marita Feldkaemper[1] *([1]Germany, [2]Austria)*

194 S121 Role of 5'AMP activated kinase (AMPK) during myopia and hyperopia development in the chick choroid
Mayank Mishra, Marita Feldkaemper *(Germany)*

219 S122 Roles of fatty acids in inflammatory pathways of sepsis-associated retinal damage human
María José Ruiz-Pastor, Jhoana Abigail Guarnizo-Campoverde, María Norte Muñoz, Jesus Isais Gil Chinchilla, David García Bernal, Marta Agudo-Barriuso *(Spain)*

383 S128 Topical photoswitchable small molecules restore visual acuity and light sensitivity in preclinical models of retinal degeneration
Joaquín Martínez Tambella, Rosalba Sortino, Aleix González-Díez, Santiago Milla-Navarro, Fabio Riefolo, Carlo Matera, Jordi Hernando, Núria Camarero, Carme Serra, Xavier Gómez-Santacana, Amadeu Llebaria, Xavier Rovira, Pedro De La Villa, Pau Gorostiza *(Spain)*

405 S129 Timolol repurposing for ROP: preclinical evidence from the OIR mouse model
Alberto Melecchi, Gaia Barsotti, Luca Filippi, Massimo Dal Monte *(Italy)*

548 S132 Modeling retinal-glial inflammation in iPSC-derived models
Yashvi Bhat[1,2], Lauriane Przegralek[1], Chloé Dupuis[1], Polina Malahov[1,2], Eugénie Genestant[1], C.E. Cañadas[2], Amalia Dolga[2], Xavier Guillonneau[1] *([1]France, [2]The Netherlands)*

616 S133 Combined effects of Taurine- and bFGF- based treatment in hereditary retinal degenerations
Luis Mario López-Jaén, Johnny Di Pierdomenico, Maria Paz Villegas Perez, Diego García-Ayuso *(Spain)*

634 S134 Commercial bias in Large Language Model recommendations for ophthalmic drugs in the United States
Andrea Taloni[1], Filippo Lixi[1], Mario Troisi[1], Giulia Coco[1], Danson Muttuvelu[2], Yousif Subhi[2], Giuseppe Giannaccare[1] *([1]Italy, [2]Denmark)*

278 S125 DIA-based proteomics confirms phaco cassette samples as a surrogate for native human lens tissue
Christina Karakosta[1], Martina Samiotaki[1], Kyriakidou Nantieznta[1], Konstantinos Moschou[1], Anastasios Bisoukis[2], George Parayotou[1], Marilita Moschos[1] *([1]Greece, [2]United States)*

09:20-10:35 | Hall 3.2

SIS LC 30 - Pharmacological approaches to cataracts

This session will focus on emerging pharmacological strategies aimed at preventing, delaying, or modifying cataract formation, addressing a major unmet need beyond surgical treatment. International experts will present investigative anti-cataract therapies, highlighting novel molecular targets and translational research approaches. The potential role of caffeine in cataract prevention will be reviewed alongside mechanistic insights into lens protection. Speakers will explore the function of alpha-crystallins in suppressing inflammation-induced cataract and discuss small-molecule chaperones designed to inhibit gamma-crystallin aggregation in age-related cataracts. The session will also examine calcium signalling in the human lens epithelium and its relevance to lens homeostasis and cataractogenesis.

Organizer: **Andrzej Grzybowski** *(Poland)*
Co-organizer: **Barbara Pierscionek** *(United Kingdom)*

09:20 Novel anti-cataract therapies: investigative approaches
Barbara Pierscionek *(United Kingdom)*

09:36 Prevention of cataract with caffeine
Per Soderberg *(Sweden)*

09:52 The role of alpha-crystallin in suppressing inflammation-induced cataract
David Li *(China)*

10:08 Calcium signalling in the human lens epithelium
Sofija Andjelic *(Slovenia)*

10:24 Discussion

FRIDAY
16 OCTOBER 2026

09:20-10:35 | Room 4.1

JS RV 25 - Innovations in retinal vascular disorders: clinical practice and future therapies

This special interest session explores mechanistic and translational advances in retinal vascular disorders, integrating pathophysiology, imaging biomarkers, and innovative therapeutic strategies. Presentations will address targeted drug delivery concepts, including combined suprachoroidal corticosteroid administration with intravitreal anti-VEGF therapy for retinal vein occlusions, and minimally invasive vitrectomy-sparing subretinal r-TPA approaches for AMD-associated submacular hemorrhage. Structural and OCT angiography–derived biomarkers will be discussed as predictors of visual outcome and treatment response. Furthermore, molecular insights into VEGF-A165–mediated endothelial barrier disruption and the restorative role of faricimab will be examined. The session aims to connect endothelial biology, pharmacology, and precision imaging to advance individualized treatment paradigms.

Organizer: **Lyubomyr Lytvynchuk** *(Germany)*
Co-organizer: **Sriharanathan Poopalaratnam** *(Sri Lanka)*

09:20 Combined simultaneous Supra choroidal TA with intravitreal bevacizumab for RVOs Affiliation-Consultant Vitreo Retinal Surgeon, National Hospital, Kandy, Sri Lanka President- Association of Vitreo Retinal Society Srilanka (AVRSSL)
Sriharanathan Poopalaratnam *(Sri Lanka)*

09:33 Vitrectomy-sparing subretinal r-TPA injection for the treatment of AMD-associated submacular hemorrhage
Lyubomyr Lytvynchuk *(Germany)*

09:46 OCT biomarkers in subretinal macular hemorrhage: Prognostic implications
Goran Petrovski *(Norway)*

09:59 The role of faricimab in reversing VEGF-A165–induced retinal endothelial barrier dysfunction
Heidrun Deißler *(Germany)*

10:12 Update on OCT angiography for retinal vascular disease
Stephen Schwartz *(United States)*

10:25 Discussion

10:35-11:05 | Coffee break

11:10-11:55 | Room 2

KN **Special Recognition Lecture**

The treatment of corneal disease is undergoing a true seismic shift. Treatments which were focused on whole tissue replacement (full-thickness penetrating keratoplasty) are being replaced with cell-based therapies of the epithelium, endothelium, and expanded stem cells. Similarly, topical therapies that provide general tissue protection through lubrication and non-specific suppression of inflammation (e.g. corticosteroids) are being replaced by biologics and single growth factors. And more than ever before, the field is understanding the central role of corneal nerves in regulating epithelial, immune, vascular, and endothelial responses in the cornea. This talk will provide an overview of some of these important trends, and focus on translational investigations on managing chronic surface disorders, corneal angiogenesis, pain and inflammation and endothelial dysfunction.

11:10 Introduction
Thomas Fuchsluger *(Germany)*

11:15 Where is Treatment of Corneal Diseases Heading?
Reza Dana *(United States)*

11:55-12:55 | Room 2 - Room 4.1

POS **Poster Session 2**
(see page 62)

13:05-14:05 | Room 2 - Room 4.1

CIS **Industry Sponsored Lunch Symposium**

14:15-15:30 | Room B.1

C G 38 - Different aspects and approaches to non-adherence

Non-adherence is a major problem in the treatment of chronic, often asymptomatic diseases such as glaucoma. If not detected, it can lead to frequent changes in medication and more rapid progression of visual field loss. There are several reasons for this. In this special interest symposium, we will discuss how to detect and identify reasons for non-adherence in glaucoma, as well as offer options to address them to improve intraocular pressure control and the quality of life of our patientsr with the particular technology employed within the instrument, and to demonstrate its potential with applications beyond those of retinal disease diagnosis and follow-up.

Organizer: **Barbara Cvenkel** *(Slovenia)*
Co-organizer: **Karin Öyo-Szerenyi** *(Switzerland)*

14:15 iAdherence – the main challenge in glaucoma management
Karin Öyo-Szerenyi *(Switzerland)*

14:36 Adverse effects of preserved topical glaucoma medication on the ocular surface
Miriam Kolko *(Denmark)*

14:57 How can we help patients to reduce the burden of adherence
Barbara Cvenkel *(Slovenia)*

15:18 Discussion

14:15-15:30 | Room B.2

SIS COS 51 - Stage-based management of keratoconus beyond contact lenses – an update

This special interest symposium aims to provide a comprehensive overview of modern approaches to the management of keratoconus. Covering a wide range of therapeutic options, expert speakers will share their insights, offering practical tips and strategies for various treatment modalities. Additionally, the symposium will present a summary of the latest guidelines, ensuring participants are updated on the most current standards of care for keratoconus management.

Organizer: **Zisis Gkatzioufas** *(Switzerland)*
Co-organizer: **Mayank Nanavaty** *(United Kingdom)*

14:15 Modern CXL protocols for progressive keratoconus
Eszter Szalai *(Hungary)*

14:31 Surface ablation procedures with or without CXL for visual improvement in keratoconus
Miguel Rechichi *(Italy)*

14:47 Femtosecond laser-assisted CAIRS for visual rehabilitation in keratoconus
Zisis Gkatzioufas *(Switzerland)*

15:03 Modern corneal transplantation in keratoconus
Nora Szentmary *(Germany)*

15:19 Discussion

14:15-15:30 | Hall 3.A

RF Rapid Fire 8 – RV

137 F061 Treatment durability and visual outcomes of Aflibercept 8 mg in treatment-naïve neovascular AMD: 12-month real-world outcomes
Wei Han Ong, Sidra Hasan, Umaima Mulla, Meena Virdi *(United Kingdom)*

207 F070 An overview of surgical results using silicone oil in retinal detachment operations in South-East Scotland
Niharika Nalagatla, Colin Goudie *(United Kingdom)*

235 F073 Divergent Retinal vascular phenotypes across Alzheimer's disease risk: Insights from fundus photography and ultra-widefield imaging
Melody Sequeira[1], Borja Marin[1], Logan Will[1], Lajos Csincsik[2], Tom MacGillivray[1]
([1]United Kingdom, [2]Ireland)

238 F074 Inhibition of microglial activation induces retinal neuroprotection in X-linked retinoschisis
Sumin An, Ye Ji Kim, Eunjae Yoo, Jung Woo Han, Hyo Song Park, Jin Ha Kim, Hayan Park, Bomi Kim, Jun-Sub Choi, Tae Kwann Park *(Republic of Korea)*

267 F079 Identifying protein targets of posterior ocular tissue-targeting RNA aptamers by Proteome Integral Solubility Alteration (PISA) assay
Katariina Maekiniemi[1], Otto Kauko[1], Prasanthi Medarametla[1], Atul Kumar[1,2], Piia Bartos[1], Astrid Subrizi[1] *([1]Finland, [2]Sweden)*

319 F083 Association between microvascular changes and neurodegeneration in the progression of diabetic retinopathy: A 10-year longitudinal study
Tiago Fonseca, Inês Marques, Inês Pinto, Ana Almeida, Marta Lopes, Marta Pais *(Portugal)*

330 F085 Preserved autofluorescence area as a candidate structural endpoint in gyrate atrophy
Alessio Antropoli[1,2], Lorenzo Bianco[1,2], Amine Benadji[1], Thilissa Dib[1], Aline Antonio[1], Christel Condroyer[1], Camille Andrieu[1], Sahel José-Alain[3], Christina Zeitz[1], Isabelle Audo[1] *([1]France, [2]Italy, [3]United States)*

345 F089 Galectin-1 as a pathological inducer of microvascular leakage in diabetic retinopathy
Yiqing Xia, Amel Amara, Bruna Caridi, Nianhan Shang, Patric Turowski *(United Kingdom)*

418 F103 Retinal and corneal microstructural alterations in asthma: disentangling the effects of inhaled corticosteroids using OCT angiography and specular microscopy
Muhammed Emre Atli *(Türkiye)*

570 F122 Advancing retinal detachment diagnostics through Artificial Intelligence: a systematic review and meta-analysis
Dimitra Mitsopoulou[1,2], Andreas Katsimpris[2], Petroula Mitri[1], Ioannis Apostolopoulos[1], Michail Chatzianastasis[3], Petros Petrou[1], Ilias Georgalas[1], Eirini Maliagkani[1] *([1]Greece, [2]United Kingdom, [3]France)*

574 F123 Vials vs pre-filled syringes: incidence of faricimab-associated intraocular inflammation after 64,014 faricimab injections from a single centre in the United Kingdom
Annelore Figari[1], Toshit Varshney[1], Sukanya Mondal[1], Ella Preston[1], Ling Heng[1], Narciss Okhravi[1], Avinash Gurbaxani[1], Mark Westcott[1], Angela Rees[1], William Tucker[1], Niaz Islam[1], Robin Hamilton[1], Luke Nicholson[1], Ian Yeung[1], Andrea Montesel[1,2] *([1]United Kingdom, [2]Switzerland)*

576 F124 Structural OCT biomarkers associated with macular edema in retinal vein occlusion: A cross-sectional study
Aymen Mabrouk, Sarra El Mansouri, Hajer Ben Amor, Ksiaa Imen, Khochtali Sana, Jelliti Bechir, Moncef Khairallah *(Tunisia)*

14:15-15:30 | Hall 3.1

RF Rapid Fire 9 – Clinical case – G – ACB – COS – EOVS

620 T072 Episcleral venous congestion as an early pre-glaucomatous sign in suspected Sturge–Weber syndrome: A pediatric case report
Aymen Mabrouk, Sarra El Mansouri, Molka Ferchichi, Aouni Jaafer, Rym Maamouri *(Tunisia)*

142 T002 When albinism affects the synapse: Deformed synaptic ribbons in the retina of a patient with oculocutaneous albinism type 1
Anna Franziska Köller, Barbara Käsmann-Kellner, Fritz Benseler, Thomas Tschernig, Ursula Löw, Stephan Maxeiner, Karin Schwarz, Nils Brose, Gerd Geerling, Berthold Seitz, Frank Schmitz *(Germany)*

213 S014 Bilateral pseudopterygium and postoperative corneal perforation revealing ocular-limited granulomatosis with polyangiitis
Takayuki Fukusaka[1,2], Yuya Saito[1], Daisuke Shimizu[1] *([1]Japan, [2]United States)*

423 S043 Bilateral vortex keratopathy associated with ribociclib in metastatic breast cancer
Shen Li, Ines Lanzl *(Germany)*

492 S049 Monotherapy with PHMB 0.08% as 'Switch Treatment' in complex cases of acanthamoeba keratitis. Report of two cases
Eleftherios Chatzimichail, Isabel Stasik, Ceren Ece Semiz, Zisis Gkatzioufas *(Switzerland)*

503 S053 Hyperopic residual refraction and presbyopia correction with lenticule transplantation following LASIK
Fetih Furkan Arslan, Njomza Hima-Musa, Gökçe İdil Semiz, Faruk Semiz *(Kosovo)*

586 S060 Altered tear ceramide profile in vernal keratoconjunctivitis
Shobhit Gupta, Shweta Agarwal, Angayarkanni Narayanasamy, Nabanita Halder, Madhu Nath, Thirumurthy Velpandian *(India)*

636 S066 Detection of Acanthamoeba coinfections in refractory infectious keratitis revealed by scanning electron microscopy
Mario Troisi, Salvatore Troisi, Salvatore Del Prete *(Italy)*

652 S070 Orthokeratology in adults: our clinical experience
Olena Kaminska, Yuliia Boieva, Natalia Bachuk *(Ukraine)*

350 S085 Navigating visual communication: saccades as the primary determinants of vision use in social interaction among older adults
Andrea Paulik, Sonja Alimović, Matea Kasun Luburić *(Croatia)*

450 T052 Assessing OCT derived peripapillary retinal structures with 3D deep learning and explainable AI to differentiate between early and advanced glaucoma
Maryam Dinpajhouh, Peter van Ooijen, Nomdo Jansonius *(The Netherlands)*

556 T069 Shallow anterior chamber with normal intraocular pressure after microshunt implantation: role of device tutoring
Alejandra Artiles, Silvia Iglesias Cerrato, Blanca Fatela Cantillo, Guadalupe Garrido Ceca *(Spain)*

14:15-15:30 | Hall 3.2

FP Free Paper Session 2

367 Ocular surface disease, vision-related quality of life, and psychological status in glaucoma patients
Geeta Behera, Kumaradharshini V M, Subashini Kaliaperumal, Gnansegaran Kumarapandiyan *(India)*

525 Fluvoxamine-mediated Sigma-1 Receptor activation as innovative therapy for hypertensive glaucoma
Judit Hodrea[1], Timea Medveczki[1], Tamas Lakat[1], Minh Tran[1], Akos Toth[1], Anna Takacsi-Nagy[1], Gyorgy Torok[1], Szabo Attila[1], Illes Kovacs[1,2], Dr. Fekete Andrea[1] *([1]Hungary, [2]United States)*

615 Recognizing patients' obstacles is the first step in innovation. Designing eye drop assistance tool that answers all difficulties
Leyla Ali Aljasim *(Saudi Arabia)*

613 Therapeutic drug monitoring of adalimumab in paediatric non-infectious uveitis: a retrospective analysis
Elke O. Kreps, Colin Park, Lissa De Coninck, Céline Sys, Thomas Renson, Carolien Bonroy, Joke Dehoorne *(Belgium)*

632 Stage-dependent HIF1α/HIF2α signaling coordinates neutrophil host defense and inflammatory injury in bacterial keratitis
Jing Zhang *(China)*

226 Splice-enhanced dual AAV Improves ABCA4 expression in ABCA4 knockout models of Stargardt disease
Veluchamy Amutha Barathi[1], Yeo Sia Wey[1], Chitra Gopinath[2], Arkasubhra Ghosh[2] *([1]Singapore, [2]India)*

14:15-15:30 | Room 4.1

JS EOVS 13 - Challenges in artificial intelligence in 2026

This session will explore the key scientific, clinical, and ethical challenges facing artificial intelligence in ophthalmology. Experts will discuss how AI is transforming data-driven eye care, while highlighting current limitations and future directions. Topics include the role of large clinical registries and AI applications in uveitis and ocular trauma, the use of AutoML models to accelerate and democratize ophthalmic research, and the emergence of foundation models as a new paradigm in ophthalmology. Particular attention will be given to bias in agentic clinical AI, examining its impact on data quality, clinical decision-making, and patient outcomes. The session will conclude with an overview of AI approaches in neuro-ophthalmology, focusing on emerging trends, practical challenges, and common pitfalls.

Organizer: **Andrzej Grzybowski** *(Poland)*
Co-organizer: **Miguel Castelo-Branco** *(Portugal)*

14:15 Utility of registries and Application of AI in uveitis and ocular trauma
Rupesh Agrawal *(Singapore)*

14:28 Auto ML models in ophthalmology
Ceren Durmaz *(Türkiye)*

14:41 Foundation models in ophthalmology
Andrzej Grzybowski *(Poland)*

14:54 Bias in agentic clinical AI: data, clinician, and patient impact
Bin Sheng *(China)*

15:07 AI approaches in neuroophthalmology: trends and pitfalls
Miguel Castelo-Branco *(Portugal)*

15:20 Discussion

15:35-16:15 | Room 2

KN Missoten EVER Keynote Lecture

In this lecture, we will explore the reality of engaging with clinical AI, and how we can ensure that it is ready for routine use. Bringing his experience of leading the recently completed UK's National Commission into the Regulation of AI in Healthcare, Alastair will share insights gleaned from public surveys and engagement events, national workshops, and cross-sector collaboration to tackle the fundamental question of AI in healthcare: how do we ensure that AI is safe, equitable, useful, and human-centred?

15:35 Introduction
Ester Carreno Salas *(Spain)*

15:40 Unlocking medical AI in the real world?
Allistair Denniston *(United Kingdom)*

16:15-16:45 | Coffee break - Exhibition Area

16:45-18:00 | Room 2

SIS ACB 21 - Advances in retinal neovascularization and fibrosis: mechanisms, biomarkers, and emerging therapeutic strategies

Session brings together advances in the understanding/prevention of retinal neovascularization and fibrosis, two central drivers of vision loss in several blinding vitreoretinal eye diseases. Presentations will address the cellular and molecular mechanisms underlying fibrovascular heterogeneity and immune reprogramming in PDR, offering new insights into disease progression. Proteomics-based approaches will be discussed, with a focus on identifying clinically relevant biomarkers that may guide earlier diagnosis/targeted intervention. Key regulators of retinal fibrosis will be examined to highlight emerging therapeutic targets and pathways with translational potential. Session will conclude with an outlook on future directions in fibrosis prevention, including the development of long-acting anti-fibrotic drug delivery systems aimed at improving treatment durability and patient outcomes.

Organizer: **Sirpa Loukovaara** *(Finland)*
Co-organizer: **Anu Kauppinen** *(Finland)*

16:45 Mechanisms of fibrovascular heterogeneity and immune reprogramming in proliferative diabetic retinopathy
Kaisa Lehti *(Norway)*

17:01 Proteomics and fibrotic posterior eye diseases – are biomarkers on the horizon
Markku Varjosalo *(Finland)*

17:17 Key regulators of retinal fibrosis
Goran Petrovski *(Norway)*

17:33 Future Directions in fibrosis prevention: long-acting anti-fibrotic drug delivery systems
Eva Maria Del Amo *(Finland)*

17:49 Discussion

16:45-18:00 | Room B.1

C G 43 - MIGs and MIBs (a complete guide to minimally invasive glaucoma surgery)

Learning Objectives:
1. Understand the principles, indications, and patient selection criteria for minimally invasive glaucoma surgery (MIGs) and minimally invasive bleb surgery (MIBs).
2. Develop familiarity with current surgical techniques, instrumentation, and intraoperative decision-making.
3. Evaluate outcomes, manage complications, and integrate MIGs/MIBs into clinical practice.
A focused course for ophthalmologists on minimally invasive glaucoma (MIGs) and bleb-related (MIBs) surgery. Learn patient selection, surgical techniques, complication management, and practical tips to optimize outcomes and safely integrate these procedures into practice.
r with the particular technology employed within the instrument, and to demonstrate its potential with applications beyond those of retinal disease diagnosis and follow-up.

Organizer: **Nish Srikantha** *(United Kingdom)*
Co-organizer: **David Lunt** *(United Kingdom)*

16:45 The anatomy and science behind the anterior segment drainage angle
Yih-Horng Tham *(United Kingdom)*

17:01 Developing clefts, intentionally and unintentionally
Wai Siene Ng *(United Kingdom)*

17:17 Shunts and their role in bleb related surgery
Giacinto Triolo *(Italy)*

17:33 Stents and bypassing the TM
Karim El-Assal *(United Kingdom)*

17:49 Discussion

16:45-18:00 | Room B.2

SIS COS 47 - Next-Generation Biomaterials in Ophthalmic Therapy

This symposium highlights recent advances in biomaterials and translational therapeutic strategies for anterior and posterior segment diseases. Innovative developments in regenerative medicine, implant technologies, and drug delivery systems will be presented, emphasizing their potential to address significant unmet clinical needs. The session will outline the pathway from experimental research through preclinical validation to clinical translation, with particular focus on scalability, safety, and functional outcomes. By integrating material science, bioengineering, and pharmacology, the symposium aims to showcase emerging concepts that may help shape the future of ophthalmic care.

Organizer: **André Schulz** *(Germany)*
Co-organizer: **Thomas Fuchsluger** *(Germany)*

16:45 Translational research in cornea
Thomas Fuchsluger *(Germany)*

16:58 Toward scalable, transplant-free treatment of advanced keratoconus: development and pre-clinical validation of a bioengineered hydrogel stromal implant
Shuo Li *(Switzerland)*

17:11 Polymer-based wide-field and high-resolution retinal implant
Diego Ghezzi *(Switzerland)*

17:24 Vitreous replacement with hydrogels: from bench to bedside
André Schulz *(Germany)*

17:37 Ocular pharmacokinetics of nanomedicines
Tatu Lajunen *(Finland)*

17:50 Discussion

16:45-18:00 | Room 3.A

SIS LC 42 - Cataract Surgery in Eyes with Compromised Corneas

Cataract surgery in compromised corneas required additional attention as conventional calculation methods shall not be used after corneal surgery. We will provide an overview on the methods and the potential pitfalls and outcomes. Cataract surgery is often planned as combined surgery with corneal transplantation, either penetrating or lamellar, often referred to as Triple or New Triple procedure. We will discuss indications and outcomes of both methods.
When cataract evolves in the late follow-up after corneal diseases such as keratoconus or corneal surgery, especially transplantation, one often must deal with high amounts of astigmatism. In such cases, conventional calculation methods as well as conventional toric intraocular implants only provide limited correction and visual outcome. Customized lenses are available to correct for corneal astigmatism.

Organizer: **Timo Eppig** *(Germany)*
Co-organizer: **Zisis Gkatzioufas** *(Switzerland)*

16:45 Calculation of intraocular lenses with compromised corneas
Timo Eppig *(Germany)*

17:01 Cataract surgery in eyes with previous corneal transplant: decision making, pearls and pitfalls
Rafael Barraquer *(Spain)*

17:17 Cataract surgery in eyes with Fuchs' endothelial dystrophy
Zisis Gkatzioufas *(Switzerland)*

17:33 Greene's Lasso technique to correct progressive hyperopia following radial keratotomy before or after cataract surgery
Andrea Pastor *(Spain)*

17:49 Discussion

16:45-18:00 | Hall 3.1

JS NSPH 59 - EVER- EBO - Navigating complexity in the European Board of Ophthalmology Diploma (EBOD) examination

The European Board of Ophthalmology Diploma (EBOD) exam is a comprehensive assessment designed to ensure a high, harmonized standard of ophthalmic knowledge across Europe. The exam covers general ophthalmology in the written part and subspecialties in the viva voce part. The candidates require more than rote memorisation, and clinical integration and multi-step reasoning are needed. Success in the EBOD exam hinges on a transition from textbook knowledge to clinical application. Challenging questions are designed not merely to test facts but to evaluate the candidate's ability to integrate information and draw conclusions.

Organizer: **Huban Atilla** *(Türkiye)*
Co-organizer: **Marcin Stopa** *(Poland)*

16:45 What everyone gets wrong: analysis of the hardest questions
Marcin Stopa *(Poland)*

16:58 Smarter not harder: timeless methods and cutting edge strategies for exam success
Anna Maino *(United Kingdom)*

17:11 Glaucoma differential diagnosis
Barbara Cvenkel *(Slovenia)*

17:24 Problems that can be misdiagnosed as amblyopia
Huban Atilla *(Türkiye)*

17:37 Pitfalls in cornea and anterior segment diseases
Helena Prior Filipe *(Portugal)*

17:50 Discussion

16:45-18:00 | Hall 3.2

SIS IM 26 - Common diagnostic errors and misdiagnosis in uveitis: how to avoid clinical pitfalls

Misdiagnosis and diagnostic delay remain major causes of visual loss in uveitis. This case-based educational course focuses on the most common diagnostic errors encountered in clinical practice, including infectious retinitis treated as non-infectious uveitis, vitreoretinal lymphoma misdiagnosed as autoimmune inflammation, inflammatory conditions mimicking macular diseases or inherited retinal dystrophies, and frequent pitfalls in pediatric uveitis. Through real-world cases and multimodal imaging, speakers will highlight key red flags, diagnostic clues, and structured approaches to avoid inappropriate treatment and delayed diagnosis. Practical take-home messages will be provided to improve diagnostic accuracy and patient outcomes.

Organizer: **Francesco Pichi** *(Canada)*
Co-organizer: **Careen Lowder** *(United States)*

16:45 Infectious retinitis misdiagnosed as non-infectious uveitis
Careen Lowder *(United States)*

16:58 Vitreoretinal lymphoma Misdiagnosed as autoimmune uveitis
Elisabetta Miserocchi *(Italy)*

17:11 Posterior uveitis mimicking exudative maculopathy
Francesco Pichi *(Canada)*

17:24 Inflammatory uveitis mimicking inherited retinal dystrophies
Ester Carreño Salas *(Spain)*

17:37 Pediatric uveitis: common diagnostic and management errors
Debra Goldstein *(United States)*

17:50 Discussion

16:45-18:00 | Room 4.1

SIS YOVR SESSION - Beyond the Bench: Career Skills and Opportunities for Young Ophthalmologists and Vision Researchers

Scientific excellence remains the foundation of a successful career in ophthalmology and vision research, but today it must be complemented by a broader range of professional skills. Early-career ophthalmologists and vision scientists increasingly need expertise in scientific communication, networking, advocacy, leadership, surgical training, and the responsible use of emerging technologies such as artificial intelligence.
This symposium is designed to help young professionals develop these essential competencies beyond the laboratory and clinic. Participants will gain practical insights into career development, surgical training, science communication, AI-assisted medical writing, and opportunities within and beyond academia. The symposium will also highlight the relevance of pediatric ophthalmology across subspecialties and provide guidance on maximizing professional growth, scientific impact, and engagement within the ophthalmic community.

Organizer: **Mario Troisi** *(Italy)*

16:45 Scientific Career: From Biotechnologist to Vision Researcher
María José Ruiz-Pastor *(Spain)*

16:58 Building surgical confidence
Eleftherios Chatzimichail *(Greece)*

17:11 Artificial Intelligence in medical writing
Aikaterini Chatzara *(Greece)*

17:24 Beyond publication: Science Communication in Ophthalmology
Mario Troisi *(Italy)*

17:37 Why Pediatric Eye Disease matters to every Ophthalmologist
Sara Ettouri *(Morocco)*

17:50 Discussion

18:00-18:45 | Room 2

GA General Assembly

08:30-09:15 | Room 2

KN EVER Lecture delivered by the Past President

The first steps in vision occur when photoreceptors transform light into a signal, which then gets processed through the inner retina via the bipolar cells. The initial steps described by the phototransduction cascade are well understood, while the downstream transmission from photoreceptors to bipolar cells remains to be dissected in more details. Rods synapse with rod ON-bipolar cells and cones synapse with cone ON- and OFF-bipolar cells. Knowledge about the phototransduction cascade was gained by genetic studies on progressive retinal diseases, in which molecules of this cascade are mutated. Knowledge about the downstream signaling from photoreceptors to bipolar cells was gained by genetic studies on congenital stationary night blindness (CSNB), in which molecules of this cascade are mutated. Mutations in *CACNA1F, CABP4* and *CACNA2D4* lead to incomplete CSNB, which represents ON- and OFF-bipolar cell dysfunction. This can be confirmed by rod and cone photoreceptor synapse immunolocalization of the respective proteins. Mutations in *NYX, GRM6, TRPM1, GPR179, LRIT3* and *EGFLAM* lead to complete CSNB, which represents ON-bipolar cell dysfunction. This can be confirmed by rod and cone ON-bipolar cell immunolocalization of the respective proteins or proteins located at the synapse of the photoreceptors but interacting specifically with ON-bipolar cells. Mutations in other more recently identified genes such as *GNB3, RIMS2* and *VSX2* lead to novel CSNB phenotypes also in accordance with the localization of the respective proteins. Different formy of CSNB asre associated with high myopia. Here we will present ongoing studies on CSNB gene defect identification, investigation of the pathogenic mechanism by in vitro and in vivo studies, therapeutic approaches and attempts to explain CSNB-associated high myopia.

08:30 Introduction
Patrick Yu Wai Man *(United Kingdom)*

08:35 State-of-the-art of Congenital Stationary Night Blindness
Christina Zeitz *(France)*

09:15-10:30 | Room 2

SIS ACB 48 - From biology to therapeutic potential of extracellular vesicles in eye diseases

Nanoscale extracellular vesicles (EVs) are important biological messengers mediating communication among sister cells and different cell types, playing crucial functions in both ocular homeostasis and pathologies. This SIS focuses on the biology of EVs, their role in eye disorders, including age-related macular degeneration, glaucoma, diabetic retinopathy, cataract, and inflammatory ocular diseases, as well as their possible use as biomarkers for disease diagnosis/prognosis or even as novel therapeutic tools. Evidence from in vitro, in vivo, ex vivo and human studies on EVs are fundamental to better define the biologic significance of EVs in physiological and pathological contexts, especially in eye diseases with limited treatment options, and to delineate the state-of-art and possible therapeutic perspectives of this promising and intriguing field of research.

Organizer: **Marialaura Amadio** *(Italy)*
Co-organizer: **Kirsi Rilla** *(Finland)*

09:15 Extracellular Vesicles: correspondence of loving feelings or threats?
Marialaura Amadio *(Italy)*

09:28 Inflammation-derived RPE extracellular vesicles drive outer blood–retinal barrier breakdown and pro-angiogenic remodeling in AMD
Rosa Fernandes *(Portugal)*

09:41 Diagnostic and prognostic role of extracellular vesicles
Paola Lanuti *(Italy)*

09:54 Extracellular vesicles as ocular therapeutics
Kirsi Rilla *(Finland)*

10:07 Potential applications of the anti-fibrotic properties of extracellular vesicles in ocular disorder
Stefania Bruno *(Italy)*

10:20 Discussion

09:15-10:30 | Room B.1

SIS NSPH 33 - Mitochondrial dysfunction in the eye

While mitochondrial dysfunction is well known to ophthalmologists in inherited optic neuropathies, the role of these important organelles is becoming increasingly recognized in the pathogenesis of many other common ocular diseases. This knowledge offers exciting new opportunities both to enhance our understanding of disease processes, but also to develop novel therapeutic approaches. In this special interest session, we aim to introduce the listener to four areas in vision research where mitochondria are central, but often less recognized.

Organizer: **Michael Gilhooley** *(United States)*
Co-organizer: **Chiara La Morgia** *(Italy)*

09:15 Retinopathies and optic neuropathies in in mitochondrial disorders
Giulia Amore *(Italy)*

09:31 Chronic Progressive External Ophthalmoplegia (CPEO)
Rustum Karanjia *(Canada)*

09:47 The role of mitochondria in age related macular degeneration
Alfredo Sadun *(United States)*

10:03 The mitochondria in glaucoma
Bledi Petriti *(United States)*

10:19 Discussion

09:15-10:30 | Room B.2

SIS IM 36 - Uveitis: Everything is infectious!

Uveitis are classicaly divided in infectious and non infectious causes. Non infectious uveitis, which include so-called idiopathic uveitis, are supposed to be mediated through autoinflammatory and/or autoimmune mechanisms. However both classical and modern molecular biology techniques have revealed that many idiopathic uveitis were in fact infectious uveitis. Anterior CMV uveitis is now a classical example and next generation sequencing provides more and more new cases. In addition, experimental evidence demonstrating the role of microbes in the « auto » activation of the immune system continues to accumulate. Hence this symposium makes this provocative statement: « everything is infectious ! » and invite you to discuss these concepts.

Organizer: **François Willermain** *(Belgium)*
Co-organizer: **Ester Carreño Salas** *(Spain)*

09:15 Demasking idiopathic uveitis : the story of CMV and rubella anterior uveitis
François Willermain *(Belgium)*

09:31 Looking deeper into the possible infectious causes of idiopathic uveitis through next generation sequencing
Colin Chu *(United Kingdom)*

09:47 Are immunosuppressive agents acting through anti-infectious properties ?
Nicholas Jones *(United Kingdom)*

10:03 Experimental autoimmune uveitis requires microbial signals : news from the microbiome
Jarmila Heissigerova *(Czech Republic)*

10:19 Discussion

09:15-10:30 | Hall 3.A

C PBP 14 - Can anterior segment OCT replace traditional gonioscopy in clinical practice and research?

Gonioscopy remains one of the most important examinations for structure analysis in glaucoma diagnostics. The differentiation between angle closure, angle closure suspect and open angle is essential not only for the correct diagnosis, but also to draw the best therapeutic consequences out of these findings. In addition to grading systems for the classification of the glaucoma type, pathological changes like abnormal vessels, inflammatory induced changes, pigmentations, clefts can be observered. Nowadays, AS-OCT is a big help and makes it a lot easier, but there are still essential deficits, that do not allow to replace gonioscopy completely by this new examination. In this course, we will show what we can see in normal and pathological eyes and which findings can be observed in AS-OCT and which cannot. We will also explain how a state of the art gonioscopy examination is performed.

Organizer: **Anton Hommer** *(Austria)*
Co-organizer: **Doreen Schmidl** *(Austria)*

09:15 How to perform traditional gonioscopy
Nikolaus Hommer *(Austria)*

09:36 Recognizing pathological findings in gonioscopy
Anton Hommer *(Austria)*

09:57 Advantages and limitations of anterior segment OCT compared with gonioscopy
Doreen Schmidl *(Austria)*

10:18 Discussion

09:15-10:30 | Hall 3.1

FP Free Paper Session 3

186 An objective measure of low luminance visual function
Dorothy Thompson, Sian Handley, Benjamin Evans, Ellena Carter, Callum Johnston, Alec Dilan, Corinna Tiele, Lisa Tucker, Oliver Marmoy, Robert Henderson *(United Kingdom)*

630 Dynamic population receptive field changes as revealed by longitudinal retinotopic mapping guided by MRI after ischemic stroke in the visual cortex
Miguel Castelo-Branco, Mariana Ferreira, Ricardo Martins, Hugo Quental, João Lemos, André Jorge, Daniela Pereira, Antero Abrunhosa *(Portugal)*

304 Quantum molecular resonance and patient blood-derived secretome reprogram the retinal pigment epithelium: a multi-layered transcriptomic atlas from non-coding rnas to genomic variant landscape
Simona Alibrandi, Domenico Mordà, Concetta Scimone, Angela D'Ascola, Federica Aliquò, Giorgia Abate, Gianantonio Pozzato, Sergio Scalinci, Rosalia D'Angelo, Antonina Sidoti, Luigi Donato *(Italy)*

321 A multi-frequency biophysical modality and patient-derived secretome simultaneously engage six amd pathogenic axes: a transcriptome-wide expressed variant landscape in oxidatively stressed retinal pigment epithelial cells
Simona Alibrandi, Domenico Mordà, Concetta Scimone, Angela D'Ascola, Federica Aliquò, Giorgia Abate, Gianantonio Pozzato, Sergio Scalinci, Rosalia D'Angelo, Antonina Sidoti, Luigi Donato *(Italy)*

368 Natural history, disease modeling, and gene editing therapies for eys-associated retinal diseases
Inês Santos Sousa[1], Daniela Patrício[1], Pedro Perdigão[1], Vladyslava Tolstolis[1], Peter Quinn[2], António Francisco Ambrósio[1], João Pedro Marques[1], C. Henrique Alves[1] *([1]Portugal, [2]United States)*

508 Results from whole genome sequencing for inherited retinal disease from an adult retina clinic via a nationally funded genomic medicine service
Isabelle Chow, Charmaine Sim, Dost Jabarkhyl, Mrunmayi Jeste, Moin Mohamed, Omar Mahroo *(United Kingdom)*

09:15-10:30 | Hall 3.2

JS EOVS 19 - Novel Clinical Applications of Pupillometry

The ability to stimulate different classes of light sensitive photopigments within the retina and to isolate selectively different attributes of a visual stimulus make pupil-based studies and clinical tests more attractive. The discovery of multiple components of the PLR response and the involvement of ipRGCs have enhanced our basic understanding of pupil mechanisms and also promoted the development of chromatic pupillometry and new challenges. The need to separate pupil colour and light reflex responses when using coloured stimuli remains a challenge, particularly when the coloured stimuli cause large changes in retinal illuminance. Despite these reservations, significant advances have also been made in understanding the contribution different photoreceptors and melanopsin make through ipRGCs to the overall pupil constriction and recovery following extended exposure to coloured lights.

Organizer: **John Barbur** *(United Kingdom)*
Co-organizer: **Aki Kawasaki** *(Switzerland)*

09:15 Pupil curiosities – patients with unusual pupil responses 'Bizarre pupils I have known'
Gordon Plant *(United Kingdom)*

09:28 Objective pupillometry as a marker for brain stem health in neuro-critical care
Shrikant Bharadwaj *(India)*

09:41 Illuminating retinal function through the pupil light response
Elisa Salamin *(Switzerland)*

09:54 Chromatic pupil campimetry in disorders of the retina and optic pathway
Carina Kelbsh (Germany)

10:07 Can pupil constrictions in response to central processing of colour signals be used to diagnose colour deficiencies
John Barbur *(United Kingdom)*

10:20 Discussion

09:15-10:30 | Room 4.1

SIS RV 60 - Post-vitrectomy complications: how to deal?

Vitrectomy has become a relative safe procedure, although serious complications may occur. Ocular hypertension has an incedence 11,6-50%. Ocular hypertony is expected in the 1st week with gas tamponade, later when silicone is used. Ocular hypotony is common after sutureless vitrectomy with an incidence 10-16% on the 1st day. Cystoid macular oedema (CMO) after vitrectomy is a significant complication with incidence 5,5-36%. Endophthalmitis following vitrectomy is ranging from 0,02-0,05%, occurs within 5 days post-operation. Proliferative vitreoretinopathy (PVR) develops within 4-12 weeks after the initial retinal re-attachment surgery and develops in 5-10% of cases.
The purpose of the SIS is to highlight the importance of prevention and early recognition of serious complications such as ocular hypertension, ocular hypotony, endophthalmitis, CMO, PVR as well as management tips

Organizer: **Tina Xirou** *(Greece)*
Co-organizer: **Evgenia Kontou** *(Greece)*

09:15 Post-vitrectomy endophthalmitis
Tina Xirou *(Greece)*

09:28 Ocular hypertension following vitrectomy.
Evgenia Kontou *(Greece)*

09:41 Ocular hypotony in vitrectomized eyes.
Ilias Gkizis *(Greece)*

09:54 Cystoid macular oedema after vitrectomy
Christina Garnavou-Xirou *(Greece)*

10:07 Proliferative vitreoretinopathy (PVR) following vitrectomy
Stavros Velissaris *(Greece)*

10:20 Discussion

16:15-16:45 | Coffee break - Exhibition Area

11:05-11:50 | Room 2

KN Ophthalmic Research Keynote Lecture

Fibrosis and atrophy continue to dominate the picture of treated neovascular age-related macular degeneration. Fibrosis causes distortion and disruption of the outer retinal architecture as well as cell layer losses and in addition interposes a thick layer of abnormal tissue between the choroid and the outer retina thus potentially depriving the RPE and photoreceptors of vital oxygen and nutritional support. By contrast pure atrophy results in loss of the outer retinal layers and choriocapillaris without the development of additional abnormal tissue replacing the outer retina. My talk will address (a) the discrepancies in the literature on prevalence and incidence of fibrosis and atrophy (b) Barriers to detection of these pathological features by invivo imaging (c) their temporal and spatial relationships and (d) their individual and combined effects on central macular function, (e) shared and distinct ocular risk factors for each and (f) current attempts to mitigate or prevent their development.

11:05 Introduction
Rui Bernandes *(Portugal)*

11:10 Dissecting pathways to fibrosis and atrophy in treated neovascular AMD
Usha Chakravarty *(United Kingdom)*

11:50-12:55 | Room 2 - Room 4.1

POS **Poster Session 3**
(see page 73)

12:55-13:55 | Room 2 - Room 4.1

CIS **Industry Sponsored Lunch Symposium**

14:00-15:15 | Room 2

JS **G 14 - Bridging between ocular surface disease and glaucoma – Integrating care for vision preservation**

Ocular surface disease (OSD) and glaucoma frequently coexist, yet they are often managed in isolation. Increasing evidence demonstrates that chronic glaucoma therapy, particularly with preserved topical medications, can significantly alter ocular surface homeostasis, leading to discomfort, reduced adherence, and impaired visual function. The symposium will provide clinicians and researchers with an integrated framework for understanding and managing these interconnected conditions.

Organizer: **Miriam Kolko** *(Denmark)*
Co-organizer: **Juana Gallar** *(Spain)*

14:00 Why is it essential to consider the ocular surface in glaucoma care
Miriam Kolko *(Denmark)*

14:16 Basic science insights into how chronic exposure to preservatives and other inactive incredients in eye drops can alter ocular surface cells and the immune microenvironment
Juana Gallar *(Spain)*

14:32 Clinical relevance of artificial tears when treating ocular surface disease in glaucoma patients
Jesús Pujol Martí *(Germany)*

14:48 Dry eye and fibrosis in glaucoma patients, Is limited to the ocular surface? The role of regenerative medicine
Jesus Merayo-Lloves (Spain)

15:04 Discussion

14:00-15:15 | Room B.1

SIS NSPH 61 - Inherited optic neuropathies: genotype-phenotype association and atypical phenotypes

This course explores the evolving landscape of inherited optic neuropathies (IONs), focusing on the critical link between genetic mutations and clinical expression. While classic LHON and DOA are well-characterized, next-generation sequencing (NGS) has revealed a spectrum of "atypical" phenotypes that challenge traditional diagnostic boundaries.
Key discussion topics:

- Genotype-phenotype mapping: analyzing how variants in OPA1, WFS1, and mtDNA impact disease onset and severity;
- Decoding atypicality: identifying syndromes with systemic features and recognizing cases mimicking inflammatory or toxic neuropathies;
- Diagnostic precision: leveraging multimodal imaging to differentiate subtle phenotypic variations;
- Future directions: how deep phenotyping facilitates personalized gene therapy and neuroprotection.

Organizer: **Marco Battista** *(Italy)*
Co-organizer: **Guy Lenaers** *(France)*

14:00 Phenotypic heterogeneity in Optic Atrophy
Michele Carbonelli *(Italy)*

14:13 Genotype–phenotype correlations in hereditary optic neuropathies: new lessons from cohort studies
Aymane Bouzidi *(France)*

14:26 Novel imaging modalities in Inherited Optic Neuropathy
Maximilian-Joachim Gerhardt *(Germany)*

14:39 Macular involvement in Inherited Optic Neuropathies
Marco Battista *(Italy)*

14:52 The Wolfram spectrum: the good, the rare and the atypical
Raoul Kanav Khanna *(United Kingdom)*

15:05 Discussion

14:00-15:15 | Room B.2

SIS PBP 50 - Therapeutic Neuroprotection of the Retina: New Frontiers Beyond Neurodegeneration Control

Retinal neurodegeneration is a shared feature of multiple ocular diseases leading to irreversible vision loss. This symposium will address recent advances in retinal neuroprotection, integrating insights from molecular mechanisms to translational therapeutic strategies. Topics will include neuroinflammation, oxidative stress, mitochondrial dysfunction, and innovative interventions such as cell-based therapies, extracellular vesicles, gene therapy, and pharmacological approaches. Speakers will discuss experimental evidence, emerging biomarkers, and challenges in clinical translation. The session aims to connect basic and clinical research perspectives, promoting interdisciplinary collaboration and identifying future strategies to preserve retinal function and delay neurodegeneration.

Organizer: **Johnny Di Pierdomenico** *(Spain)*
Co-organizer: **Marcelino Avilés-Trigueros** *(Spain)*

14:00 Comparison of nutraceutical vs. synthetic treatments in delaying retinal degeneration: evidence from retinitis pigmentosa and diabetic retinopathy animal models
Ilaria Piano *(Italy)*

14:16 Optopharmacology as a strategy for vision restoration: functional evidence in a model of absolute blindness
Santiago Milla Navarro *(Spain)*

14:32 The superpower of hibernation: harnessing nature to safeguard vision
Francisco Nadal-Nicolas *(United States)*

14:48 Advances in retinal neuroprotection: the promise of cell-based therapies
Jhoana Abigail Guarnizo-Campoverde *(Spain)*

15:04 Discussion

14:00-15:15 | Hall 3.A

FP Free Paper Session 4

124 Proliferative vitreoretinopathy as an emergent systems disease: an integrative frameworkof vitreoretinal fibrosis
Koen van Overdam *(The Netherlands)*

204 AMD Drusenoid Deposits Lipid Type, "L" : structure and evolution analysis with OCT and morphology-structural software
Corinne Gonzalez *(France)*

206 AMD Drusenoid Deposits Protein- Cellular Type "P": structure and evolution analysis with OCT and morphology-structural software
Corinne Gonzalez *(France)*

275 The bilateral effect of LHON gene therapy: what have we learned so far?
Patrick Yu-Wai-Man[1], Valerio Carelli[2], Nancy Newman[3], Valérie Biousse[3], Catherine Vignal-Clermont[4], Thomas Klopstock[5], Magali Taiel[4], José-Alain Sahel[4] *([1]United Kingdom, [2]Italy, [3]United States, [4]France, [5]Germany)*

533 Photoswitchable allosteric mGlu6 ligands enable vision restoration through upstream photopharmacological control of retinal circuits
Rosalba Sortino, Aleix González-Díez, Santiago Milla-Navarro, Joaquín Martínez Tambella, Fabio Riefolo, Carlo Matera, Jordi Hernando, Núria Camarero, Carme Serra, Xavier Gómez-Santacana, Amadeu Llebaria, Xavier Rovira, Pedro De La Villa, Pau Gorostiza *(Spain)*

612 Adaptive optics–based cone imaging in birdshot chorioretinitis and its association with disease specific parameters
Elke O. Kreps[1], Charles Deschuttere[1], Alejandra Consejo[2], Danilo Andrade de Jesus[3], Rocio Perez Baca[1], Julie Van Puyvelde[1] *([1]Belgium, [2]Spain, [3]The Netherlands)*

14:00-15:15 | Hall 3.1

SIS RV 12 - Posterior segment manifestations of systemic disorders and medications

The intersection of systemic health and ocular pathology requires a robust interdisciplinary approach, merging insights from diverse medical fields with advanced diagnostics. Identifying these associations often demands clinical intuition honed by experience with rare cases that fall outside routine practice.
In this session, medical retina specialists will explore the complex relationship between systemic disorders and the eye. Key topics include:
- Uveitis: Analyzing posterior segment symptoms of systemic inflammation.
- Optic Nerve Diseases: Identifying neurological and vascular signals.
- Rare Pathologies: Managing malignancies and metabolic disorders.
- Drug Toxicity: Reviewing retinal complications from systemic medications.

Every discussion is anchored by real-world case presentations to bridge the gap between theory and clinical practice.

Organizer: **Stephen Schwartz** *(United States)*
Co-organizer: **Maciej Gawęcki** *(Poland)*

14:00 Retinal complications of infectious/inflammatory diseases
Maurizio Battaglia Parodi *(Italy)*

14:13 Retinal complications of other systemic diseases (malignancies, genetic/metabolic disorders, others)
Stephen Schwartz *(United States)*

14:26 Retinal complications of systemic medications
Maciej Gawęcki *(Poland)*

14:39 Optic nerve complications of systemic diseases
Carlos Mendosa *(United States)*

14:52 Endogenous endophthalmitis in systemic disorders
Perfecto Cagampagn III *(Philippines)*

15:05 Discussion

14:00-15:15 | Hall 3.2

SIS EOVS 18 - Vision beyond just visual acuity

Visual acuity has been considered the gold standard endpoint for clinical trials, but recently it became evident that additional endpoints are required for many indications including geographic atrophy and inherited retinal diseases. Here, we provide an overview of promising clinical endpoints, with a focus on retinal diseases. We explore functional and structural biomarkers, quality of life measures, and critically assess their potential as endpoints in pivotal trials. This highly interdisciplinary symposium brings together leading experts from ophthalmology (Scholl), ophthalmic technology (Ghezzi & Schmetterer) and neuroscience (Herzog). It features clinical findings from large-scale studies in age-related macular degeneration and inherited retinal diseases, state-of-the-art retinal imaging and structure-function correlation, technological innovations and extensive visual testing.

Organizer: **Michael Herzog** *(Switzerland)*
Co-organizer: **Hendrik Scholl** *(Austria)*

14:00 How is visual performance improved after cataract surgery?
Michael Herzog *(Switzerland)*

14:16 Projecting visual benefit when slowing down macular degeneration
Hendrik Scholl *(Austria)*

14:32 Optoretinography as a potential future outcome for retinal studies
Leopold Schmetterer *(Austria)*

14:48 Evaluating and measuring visual improvements in blind patients implanted with visual implantst
Diego Ghezzi *(Switzerland)*

15:04 Discussion

14:00-15:15 | Room 4.1

C PO 53 - Correcting for magnification on fundus photographs

Fundus imaging plays a central role in ophthalmology for identifying and tracking retinal disorders. Yet, anatomical and optical differences between individuals cause scaling variations, which hinder distance measurements on fundus photographs. This course will explore the optical mechanisms that give rise to these discrepancies and outline, both from a theoretical and practical point, available strategies for correcting them. We will then highlight why these corrections matter in clinical practice and research, illustrating their impact in applications such as quantifying areas of chorioretinal atrophy in patients with high myopia. In addition, we will address how to manage scaling changes in longitudinal datasets and when monitoring patients over time, including situations where ocular growth or emmetropization plays a role.

Organizer: **Jan-Willem Beenakker** *(The Netherlands)*
Co-organizer: **Rebekka Heitmar** *(United Kingdom)*

14:00 Understanding and correcting for scaling of fundus photographs
Jan-Willem Beenakker *(The Netherlands)*

14:16 Impact of emmetropization and refractive errors on fundus images
Rebekka Heitmar *(United Kingdom)*

14:32 Calibrating your fundus camera, a practical course
Iris Mulder *(The Netherlands)*

14:48 Correcting for changes in refractive error in longitudinal studies
Kristy T. Rodríguez-Ramírez *(Germany)*

15:04 Discussion

15:15-15:45 | Coffee break - Exhibition Area

15:50-16:35 | Room 2

KN **European Academy of Ophtalmology Keynote Lecture**

11:05 Introduction
Andrzej Grzybowski *(Poland)*

11:10 Femtolasers in corneal, lenticular and glaucoma surgery
Zoltan Nagy *(Hungary)*

16:40-17:55 | Room 2

SIS **G 46 - Towards regenerative medicine in advanced glaucoma: molecular biology, genetics, retinal structure and function, and translational neuroscience perspectives**

In this symposium, we will present key outcomes from three years of collaborative, interdisciplinary research conducted within the EU-funded doctoral network EGRET-AAA. This network has trained 15 doctoral candidates across Europe on projects aimed at developing novel diagnostic and therapeutic solutions for advanced glaucoma. Our symposium program will span improved diagnostic approaches, quantitative assessment of structure and function along the visual pathway (i.e., from retina to visual cortex) and innovative genetic and regenerative approaches, including stem cell-based therapies. By integrating clinical expertise, advanced imaging, genetic and molecular research, and translational neuroscience, this symposium highlights how coordinated European collaboration is advancing precision diagnostics and paving the way toward disease-modifying treatments for advanced glaucoma.

Organizer: **Nomdo Jansonius** *(The Netherlands)*
Co-organizer: **Hinke Halbertsma** *(The Netherlands)*

16:40 Introduction to EGRET-AAA
Nomdo Jansonius *(The Netherlands)*

16:53 Quantifying retinal structure and function in glaucoma: current progress in perimetry and retinal imaging
Khaldoon Al-Nosairy *(Germany)*

17:06 Quantifying visual pathway structure and function in advanced glaucoma
Hinke Halbertsma *(The Netherlands)*

17:19 Identifying molecular targets for optic nerve repair in advanced glaucoma
Xavier Nicol *(France)*

17:32 From GWAS to neuroprotective pathways: The role of genes and cilia in POAG
Harold Snieder *(The Netherlands)*

17:45 Discussion

16:40-17:55 | Room B.1

JS NSPH 24 - Recent advances in the diagnosis and management of childhood glaucoma

Childhood glaucoma can be a significant cause of blindness. In recent years, there have been advances in diagnosis, treatment, and follow-up, as well as in the refinement of minimally invasive surgical techniques and the integration of artificial intelligence (AI) into diagnostics. Genetic and molecular research has expanded the known genetic landscape of primary congenital glaucoma. The management of congenital glaucoma is evolving from a reactive surgical model towards a proactive, personalised approach. The integration of genetic screening, advanced imaging, and micro-invasive surgery is significantly improving visual outcomes and reducing the surgical burden on paediatric patients.

Organizer: **Huban Atilla** *(Türkiye)*
Co-organizer: **Esther Hoffmann** *(Germany)*

16:40 Primary congenital glaucoma
Barbara Cvenkel *(Slovenia)*

16:56 Other childhood glaucomas
Kivanc Gungor *(Türkiye)*

17:12 Genetics in congenital and juvenile glaucoma
Dominique Bremond-Gignac *(France)*

17:28 The prospective randomized controlled "Pirate" trial: is 360° trabeculotomy the new future in congenital glaucoma treatment?
Esther Hoffmann *(Germany)*

17:44 Discussion

16:40-17:55 | Room B.2

SIS PBP 37 - Retinal Artery–Vein classification with deep learning: state-of-the-art, challenges, biomarkers and clinical impact

Retinal circulation exhibits inherent asymmetry, making accurate artery–vein (A/V) differentiation essential for meaningful biomarker extraction in diseases such as hypertension and diabetes. Rapid advances in artificial intelligence have expanded the capabilities of automated artery-vein segmentation, yet the pace of development makes it challenging for clinicians and researchers to determine which methods are reliable and appropriate for specific applications. This course provides an overview of current deep learning approaches for artery-vein analysis in fundus photography and OCT angiography. Through practical examples, we explain existing tools, their advantages and limitations, and offer guidance on when AI-based methods are ready for large-scale clinical and research use.

Organizer: **Ulf-Dietrich Braumann** *(Germany)*
Co-organizer: **Rebekka Heitmar** *(United Kingdom)*

16:40 Clinical imaging Variability and Real-World Obstacles in Artery-Vein Differentiation
Rebekka Heitmar *(United Kingdom)*

16:56 Artery-vein Segmentation in Retinal Image Analysis: Brief Overview and Applications in VAMPIRE Biomarker Research
Emanuele Trucco *(United Kingdom)*

17:12 Differential Artery–Vein analysis in OCT angiography: from segmentation to functional biomarkers
Xincheng Yao *(United States)*

17:33 From Pixel-Based Segmentation to Vascular Network Representation: Future Directions for Artificial Inteligence in Retinal Artery-Vein Analysis
Andres Bribiesca-Sanchez *(Mexico)*

17:54 Discussion

16:40-17:55 | Hall 3.A

SIS COS 40 - Omics in corneal health and disease: from molecular insights to clinical impact

The healthy cornea is the non-vascular, transparent "windshield" of the eye. Pathologic influences, such as infections, hereditary diseases, transplant rejection, or trauma can lead to corneal blindness due to neovascularization, scarring, or disturbed wound healing. To address these challenges, the highly dynamic field of transcriptomic and proteomic analysis has reached the anterior part of the eye. This symposium will explore how (multi-) omics transform our understanding of corneal biology in health and disease. Experts will present cutting edge insights into distinct corneal cell types, disease and wound healing mechanisms in mice and men including spatial proteomics, single cell transcriptomics as well multiple disease-comparing analysis. The presenters will highlight how different omic-approaches will advance diagnostics, prognostics, and therapies for corneal diseases.

Organizer: **Karina Hadrian** *(Germany)*
Co-organizer: **Felix Bock** *(Germany)*

16:40 Local immune and lymph-vascular profiling of different diseases leading to high-risk corneal transplantation condition
Suman Mallanna *(Germany)*

16:56 The Aey80 mutation in the Pax 6 gene causes an age-dependent aniridia phenotype
Karina Hadrian *(Germany)*

17:12 Layer-specific proteomic profiling of the human cornea reveals insights into structure and biological function
Hauke Schadwinkel *(Germany)*

17:28 Omics-guided therapeutic perspectives in corneal repair and rare ocular surface diseases
Frederic Michon *(France)*

17:44 Discussion

16:40-17:55 | Hall 3.2

SIS RV 13 - Ultra-wide-field diagnostics of retinal disorders

Ultra-wide -field diagnostics has been used in ophthalmological practice for more than ten years. That refers mainly to UWF- angiographic examinations , such as UWF-fluorescein angiography or UWF-indocyanine green angiography. Recent years faced the onset of UWF -OCT and UWF-angio-OCT examinations, that are nowadays introduced to clinical practice. As UWF_FA or UWF-ICGA have established and reliable position in modern diagnostics, UWF OCT scanning still requires precise recommendations and validation in everyday practice. The programme of the course challenges this task with presentation of clinical examples as well as practical issues associated with three UWF examinations: angiography, OCT and angio-OCT. The faculty are authors of many publications on the subject as well as practical users of UWF equipment.

Organizer: **Maciej Gawęcki** *(Poland)*
Co-organizer: **Andrzej Grzybowski** *(Poland)*

16:40 UWF – fluorescein angiography. Guide to diagnostics
Paolo Silva *(United States)*

17:01 UWF - OCT – guide to diagnostics and novel findings
Maciej Gawęcki *(Poland)*

17:22 UWF-OCTA – practical utility
Ali Erginay *(France)*

17:43 Discussion

16:40-17:55 | Room 4.1

JS

IM 21 - EUSOI – EVER Joint Session: international collaborations for research in ocular inflammation

Ocular inflammation represents a major cause of visual morbidity worldwide and encompasses a heterogeneous group of diseases requiring multidisciplinary expertise and coordinated research efforts. In recent years, international collaborative networks have emerged as powerful platforms to advance understanding, harmonize methodologies, develop consensus guidelines, and accelerate innovation in both clinical and translational research.
The symposium will explore practical strategies for coordinating multinational registries and data-sharing platforms, generating global scientific consensus, and designing robust multicenter clinical trials. In addition, it will address the transformative potential of artificial intelligence and global digital health infrastructures in reshaping research and patient care.

Organizer: **Ester Carreño Salas** *(Spain)*
Co-organizer: **Claudia Fabiani** *(Italy)*

16:40 Coordinating a big network: the AIDA network
Claudia Fabiani *(Italy)*

16:53 The experience of the Tear Research Network (TRN)
Marlies Gijs *(The Netherlands)*

17:06 The role of the immune system in dry eye disease pathophysiology: a TFOS DEWS III perspective
Piera Versura *(Italy)*

17:19 Special considerations to design multicentric clinicaltrials in ocular inflammation
Laura Steeples *(United Kingdom)*

17:32 Thinking globally about AI transformation of healthcare
Alastair Denniston *(United Kingdom)*

17:45 Discussion

18:00-18:35 | Room 2

PS

Award Ceremony

Poster Session 1

12:05-13:05

POS Poster Session ACB

115 T001 Protective effects of fucoxanthin against UV-induced ocular surface disorders
Kuang-Wen Tseng *(Taiwan)*

142 T002 *rf* When albinism affects the synapse: Deformed synaptic ribbons in the retina of a patient with oculocutaneous albinism type 1
Anna Franziska Köller, Barbara Käsmann-Kellner, Fritz Benseler, Thomas Tschernig, Ursula Löw, Stephan Maxeiner, Karin Schwarz, Nils Brose, Gerd Geerling, Berthold Seitz, Frank Schmitz *(Germany)*

176 T003 *rf* Donor sex influences the neuroprotective effects of Mesenchymal Stromal Cell Transplantation in a sepsis model
Jhoana Abigail Guarnizo-Campoverde[1], Kristy Tatiana Rodríguez Ramírez[2], María Norte Muñoz[1], María José Ruiz-Pastor[1], Jesus Isais Gil Chinchilla[1], David García Bernal[1], Marta Agudo-Barriuso[1] *([1]Spain, [2]Germany)*

250 T004 *rf* The proteasome inhibitor Bortezomib and retinal endothelial cells: Friend or foe?
Mhd Eyad Alyoussef Almarzouki, Isabell Fuezy, Lyubomyr Lytvynchuk, Heidrun Deißler *(Germany)*

263 T005 *rf* Long-term outcomes of delayed BM-MSC therapy after optic nerve axotomy: RGC survival and glial activation
María Norte Muñoz[1], Fernando Lucas-Ruiz[1], Kristy Tatiana Rodríguez Ramírez[2], Jhoana Abigail Guarnizo-Campoverde[1], María José Ruiz-Pastor[1], David García Bernal1, Marta Agudo-Barriuso[1] *([1]Spain, [2]Germany)*

399 T006 *rf* Exploring the application of fundus autofluorescence in inherited retinal diseases two case reports with completely reversed patterns
Shuangjun Lv *(China)*

POS Poster Session G

121 T009 Single-cell transcriptomic analysis of human iridectomy specimens in pseudoexfoliation glaucoma vs primary open-angle glaucoma
Sai Pulasani, Renato Liguori, Matthias Zenkel, Robert Lämmer, Arif Ekici, Fulvia Ferrazzi, Friedrich E. Kruse, Francesca Pasutto, Ursula Schlötzer-Schrehardt *(Germany)*

122 T010 Neovascular glaucoma at Helsinki University Hospital, 2008–2024: aetiologies, treatments, and outcomes
Gilbert Simons, Mikael von Fersen, Paula Summanen, Mika Harju *(Finland)*

144 T011 Risk of depression in persistent blue light deprivation after cataract surgery
Jihei Sara Lee *(Republic of Korea)*

145 T012 Preservative-free prostaglandin analogue use is associated with increased ocular surface symptoms and mild surface signs
Julia Vaahtoranta, Kai Kaarniranta, Hanna Lönnrot, Jukka Moilanen, Niko Setälä, Mika Harju *(Finland)*

157 T013 Making better use of patients' time: Feasibility of performing self-administered vision assessments in waiting rooms
Mehal Rathore, Panagiota Founti, Blessy Rethi, Retno Wulandari, David Crabb, Pete Jones *(United Kingdom)*

181 T014 Differential basal expression of glaucoma-associated miRNAs in primary human trabecular meshwork cells
Amaiur Mendizabal-Bengoa, Iñaki Rodríguez-Agirretxe, Miren Sarasola-Gastesi, Garbiñe Elorza-López, Raquel Pérez-Fernández, Arantxa Acera *(Spain)*

182 T015 Mapping the glaucomatous optic nerve cross-section using diffusion MRI reveals retinotopically specific degeneration patterns
Lloyd Plumart[1,2], Hinke Halbertsma[1], Mayra Bittencourt[1], R.J. Renken[1], Nomdo Jansonius[1], Michael Hoffmann[2], Frans Cornelissen[1] *([1]The Netherlands, [2]Germany)*

185 T016 Novel melanin-binding carbonic anhydrase inhibitors for the treatment of glaucoma
Julius Viita[1,2,3], Stanislav Kalinin[4], Mika Reinisalo[4], Katja Happonen[4], Viivi Lappalainen[4], Fabrizio Carta[1], Claudiu T Supuran[1], Thor Eysteinsson[2], Arto Urtti[4], Peter Wipf[3]
([1]Italy, [2]Iceland, [3]United States, [4]Finland)

187 T017 The use of Anti-VEGF therapy is associated with reduced surgical failure and favourable safety outcomes in trabeculectomy: A systematic review and meta-analysis
Saajan Ramji[1], Abdus Ansari[1], Jeremy Tan[2], Daniyal Ansari[1], Zakariya Jarrar[5], Sana Hamid[1], Gus Gazzard[1] *([1]United Kingdom, [2]Australia)*

190 T018 Oral citicoline and docosahexaenoic acid versus placebo for the treatment of glaucoma. Randomized controled clinical trial
Alfonso Anton, Estela Sanchez, Antonio MOrilla-Grasa, Marcos Muñoz, M ELeonora Ayala, Patricia Robles, Karen Wolfenso *(Spain)*

210 T019 A hierarchical transformer for scalable glaucoma screening using longitudinal community optometry data
Kasper Jørgensen, Marcel Reimann, Josefine Vilsbøll Sundgaard, Miriam Kolko, Anders Bjorholm Dahl *(Denmark)*

220 T020 Gonioscopy-assisted transluminal trabeculotomy combined with phacoemulsification (Faco+GATT) and trabeculectomy in open-angle glaucoma: efficacy, safety, and success rates
Çiğdem Deniz Genç, Emre Aydın, Şaban Kılıç *(Türkiye)*

229 T021 Human amniotic fluid stromal cells attenuate TGF-β2–induced fibrosis in trabecular meshwork cells via SMAD2/3–MAPK modulation
Letizia Pelusi, Laura Guerricchio, Ilaria Cappellacci, Pamela Di Tomo, Francesco Del Pizzo, Roberta Palumbo, Sveva Bollini, Mario Nubile, Assunta Pandolfi, Domitilla Mandatori *(Italy)*

245 T022 Optic nerve head blood flow autoregulation during isometric exercise in primary open-angle glaucoma assessed by laser speckle flowgraphy
Ulrich Graf[1], Theresa Lindner[1], Viktoria Pai[1], Patrick Janku[1], Nikolaus Hommer[1], Anton Hommer[1], Liudmyla Petric[1], Leopold Schmetterer[1,2], Gerhard Garhöfer[1], Doreen Schmidl[1]
([1]Austria, [2]Singapore)

253 T023 fMRI assessment of cortical plasticity in patients with glaucoma
rf
Rohit Misra[1], Gokulraj Prabhakaran[1], Mahima Rebello[1], Khaldoon Al-Nosairy[1], Federica Cardillo[2], Rosalie Beyer[1], Constantin Freitag[1], Cynthia Djuloun[1], Francie Stolle[1], Martin Behrens[1], Tom Behrendt[1], Hagen Thieme[1], Lutz Schega[1], Michael Hoffmann[1] *([1]Germany, [2]The Netherlands)*

286 T024 Immune dysregulation and retinal ganglion cell loss in primary open-angle glaucoma
Markus Kuehn *(United States)*

291 T026 Impact of preserved and preservative-free latanoprost on conjunctival goblet cell survival and cellular function
Umalbaninn Alnoor, Steffen Heegaard, Miriam Kolko *(Denmark)*

294 T027 Transcriptomic and proteomic profiling of aqueous humour in primary open-angle glaucoma reveals dysregulated inflammatory pathways
Arantxa Acera, Amaiur Mendizabal-Bengoa, Mercedes Fernandez, Itxaso Calafel, Iñaki Rodríguez-Agirretxe *(Spain)*

302 T028 Functional vision in glaucoma: gaze behavior during exploration in virtual reality
Safa Andac, Jasmin Walter, Khaldoon Al-Nosairy, Peter König, Michael Hoffmann *(Germany)*

108 T029 Mapping the 3D human optic nerve head and retina in glaucoma
Lorna Fowler, Dahar Syed, Rose Avient, Zuzanna Dzieniak, Peng Tee Khaw, Hari Jayaram, Ryan MacDonald, Colin Chu *(United Kingdom)*

322 T030 Early hypotony and complications after deep sclerectomy and trabeculectomy in myopic patients
Anna Peltola, Tuulia Kankainen, Nina Lindbohm, Ronald Kam, Mika Harju *(Finland)*

323 T031 Glaucoma is linked to sleep apnoea. Results from 51,049 questionnaire responses
Jens Rovelt Andreasen, Josefine Freiberg, Christina Eckmann-Hansen, Christian Rasmussen, Miriam Kolko *(Denmark)*

324 T032 Effects of glaucoma and preoperative treatment on the tear fluid proteome
Paula Mosallaei, Ulla Aapola, Praveena Nukareddy, Peeter Kööbi, Anu Vaajanen, Hannu Uusitalo *(Finland)*

344 T033 Comparing non-penetrating deep sclerectomy and trabeculectomy in normal tension glaucoma
Kosti Hakola, Nina Lindbohm, Mika Harju *(Finland)*

351 T034 Impact of gel stent implantation on intraocular pressure and ocular surface parameters in primary open-angle glaucoma: a multicenter prospective study
Alessandra Mancini, Filippo Lixi, Andrea Lucisano, Armando Celia, Federica Bianca, Maura Mancini, Giovanna Carnovale Scalzo, Adriano Carnevali, Giulia Coco, Giuseppe Giannaccare, Vincenzo Scorcia *(Italy)*

356 T035 Retinal vascular structure/function dysregulation in glaucoma: Insights from OCTA and dynamic vessel analysis
Moein Kermanizadeh Tavakoli, Francie Stolle, Leen Jijakli, Emrah Duezel, Judith Wesenberg, Khaldoon Al-Nosairy, Michael Hoffmann *(Germany)*

359 T036 Changes in ocular biomechanics and agreement of intraocular pressure measurement using different modalities following vitreoretinal surgery
Shruti Meera Nair, Geeta Behera, Shreyas Temkar, Gnansegaran Kumarapandiyan *(India)*

362 T037 Multidirectional molecular–clinical interactions between ocular surface dysfunction and primary open-angle glaucoma
Sandra Carolina Durán Cristiano[1,2], Gloria Duque Chica[2], Juan Gonzalo Carracedo Rodriguez[1], Alba Martin Gil[1], Geyson Javier Fernandez[2] *([1]Spain, [2]Colombia)*

374 T038 White matter hyperintensity on brain magnetic resonance imaging in pseudoexfoliation syndrome and glaucoma
Sangkyung Choi *(Republic of Korea)*

385 T039 Efficacy of selective laser trabeculoplasty in normal-tension glaucoma: a systematic review and meta-analysis
Ehtesham Shamsher[1], Natalia Kwasniewska[2], Chiara Giuffrè[3], Thesara Wickramasinghe[4], Ruminder Kaur[5], Henrique Devegili[6], Neeran Narainswami[7]
([1]United Kingdom, [2]Poland, [3]Italy, [4]Sri Lanka, [5]United States, [6]Brazil, [7]South Africa)

386 T040 Aflibercept-associated immediate intraocular pressure variation
Ricardo Costa-Gertrudes, Pedro Lopes, Miguel Neves Lopes, Ana Basílio, Bruna Cunha, Rita Flores, Joana Cardigos *(Portugal)*

388 T041 The efficacy of third consecutive selective laser trabeculoplasty
Eeva Ojanen, Nina Lindbohm, Joni Turunen, Mika Harju *(Finland)*

391 T042 Performance report on OCT representations for automated glaucoma screening
Marcel Reimann, Rami Al-Belmpeisi, Jakob Lønborg Christensen, Mathias Lowes, Bjørn Schreblowski Hansen, Anders Bjorholm Dahl, Miriam Kolko, Josefine Vilsbøll Sundgaard *(Denmark)*

397 T043 Evaluation of fundus photograph-derived optic disc grayscale parameters as an alternative to RNFL measurement: A U-Net-based deep learning study
Ceren Durmaz Engin[1], Basak Kokturk Guzel[1], Barbaros Unlu[1], Seher Köksaldı Kayabaşı[1], Mustafa Kayabaşı[1], Andrzej Grzybowski[2] *([1]Türkiye, [2]Poland)*

412 T044 Tracking the frequency of Optical Coherence Tomography and Visual Field tests inglaucoma patients
Ioannis Halkiadakis, Rafaela Smarlamaki, Evangelos Spanos *(Greece)*

419 T045 *rf* Steroid-induced glaucoma in children: A 16-year retrospective analysis of clinical profiles and outcomes
Sara Ettouri, Inass Knинech, Es-samery Oumama *(Morocco)*

422 T046 Cytomegalovirus-induced early transcriptional responses promote profibrotic changes in human trabecular meshwork cells
Jiyoung Lee, Jin A Choi *(Republic of Korea)*

424 T047 Early diagnosis of primary congenital glaucoma: Clinical relevance of subtle initial signs in a three-month-old infant
Carla Iglesia Lázaro, Jorge Núñez Bueno, Adrián Arranz Álvarez, Pablo Tejada González, Inmaculada Herrero Sánchez, Edurne De La Cámara Sahuquillo, Javier Ramos Duarte, Ana María Abad Pascual, Cristina Calvo Simón, Luca Manuel Bueno Borghi, Carla Sánchez Remacha, Patricia Ramiro, Diana Perez Garcia, Leon Remon, Francisco Javier Ascaso *(Spain)*

429 T048 *rf* Retinal and peripapillary vascular density changes after filtering glaucoma surgery assessed by OCT angiography
Pablo Tejada González, Juan Ibañez, Edurne De La Cámara Sahuquillo, Jorge Núñez Bueno, Inmaculada Herrero Sánchez, Carla Iglesia Lázaro, Javier Ramos Duarte, Adrián Arranz Álvarez, Ana María Abad Pascual, Cristina Calvo Simon, Carla Sánchez Remacha, Luca Manuel Bueno Borghi, Elena Pardina Claver, Francisco Javier Ascaso, Diana Perez Garcia *(Spain)*

440 T049 Preservative-free glaucoma therapy: an indian perspective
Swapna Satyanandan *(India)*

443 T050 Cognitive-motor training effects on visual cortex connective fields in early-stage glaucoma
Federica Cardillo[1,2], Gokulraj Prabhakaran[1], Rohit Misra[1], Khaldoon Al-Nosairy[1], Constantin Freitag[1], Cynthia Djuloun[1], Francie Stolle[1], Mayra Bittencourt[2], Martin Behrens[1], Tom Behrendt[1], Hagen Thieme[1], Lutz Schega[1], Michael Hoffmann[1] *([1]Germany, [2]The Netherlands)*

444 T051 *rf* Evaluating the impact of multimodal fusion of wide-field OCT and color fundus images for glaucoma screening
Kasper Jørgensen, Marcel Reimann, Josefine Vilsbøll Sundgaard, Anders Bjorholm Dahl, Miriam Kolko *(Denmark)*

450 T052 *rf* Assessing OCT derived peripapillary retinal structures with 3D deep learning and explainable AI to differentiate between early and advanced glaucoma
Maryam Dinpajhouh, Peter van Ooijen, Nomdo Jansonius *(The Netherlands)*

452 T053 Cross-sectional and longitudinal changes in retinal vasculature in glaucoma
Hande Coskun, Christina Eckmann-Hansen, Marcel Reimann, Miriam Kolko *(Denmark)*

457 T054 Digital glaucoma survey on vascular benefits of Dorzolamide, role of OCT & newer diagnostic modalities
Swapna Satyanandan *(India)*

465 T055 *rf* Additive Benefits of Semaglutide for open-AngLe glaucoma – an Opportunity for Neuroprotection (ABSALON): Study protocol for a randomized, double-blind, placebo-controlled trial
Zaynab Ahmad Mouhammad[1], Anna-Sophie Thein[1], Rubin Hadad[1], Jens Rovelt[1], Barbara Cvenkel[2], Theis Lange[1], Claus Nielsen[1], Katharina Maria Scharf[1], Maja Sustar Habjan3, Andrej Meglic[2], Pete A Williams[3,4], Miriam Kolko[1] *([1]Denmark, [2]Slovenia, [3]Sweden, [4]Australia)*

466 T056 Beyond the optic nerve head: Anatomical region ablation for deep learning–based glaucoma detection
Amir Reza Naderi Yaghouti[1], Khaldoon Al-Nosairy[1], Michael Hoffmann[1], Nomdo Jansonius[2] *([1]Germany, [2]The Netherlands)*

485 T057 Long term outcome and late relapse risk in unilateral primary congenital glaucoma
Ikram Mejjali, Sara Ettouri *(Morocco)*

487 T058 *rf* Static full-field perimetry overcomes SAP's floor effect in end-stage glaucoma
N. Shafiabadi[1], Konstantinos Papppelis[1,2], Nomdo Jansonius[1] *([1]The Netherlands, [2]Greece)*

488 T059 *rf* Deep sclerectomy in normal-tension glaucoma – a 15-year follow-up study
Aleksi Kallio, Nina Lindbohm, Mika Harju *(Finland)*

491 T060 *rf* Bridging the "black box" gap: an explainable AI (XAI) framework for multi-stage glaucoma classification using YOLOv9
Ivan Shcherbinin *(Portugal)*

501 T061 Comparing the Compass Automated Perimeter and Humphrey Field Analyzer in patients with advanced glaucoma and reduced visual acuity
Josephine Evans, Joshua Luis, Hari Jayaram, Peng Tee Khaw, Jaina Lad, Giovanni Ometto, Giovanni Montesano *(United Kingdom)*

505 T062 Minimally Invasive Bleb Surgery Implant in a pediatric patient with aphakic glaucoma
Mikołaj Kuźniak[1], Luciano Quaranta[2] *([1]Poland, [2]Italy)*

509 T063 Post-traumatic ocular hypertension in children after blunt ocular contusion: A 10-year retrospective study of 135 eyes
Sara Wifak *(Morocco)*

515 T064 *rf* Central corneal thickness in treatment-naive primary open-angle glaucoma does not differ from healthy eyes: A prospective observational study
Matías Ríos, Guillermo Oñate, Antonella Andrade, Sergio Alarcon, Francisca Leal, Pablo Romero, Jose Guajardo *(Chile)*

520 T065 Multimodal detection of early glaucoma in first-degree relatives in a ghanaian cohort
Enyam Morny[1], Carl Abraham[1], Patience Ayerakwah[1], Emmanuel Adator[1], Dillys Amega[1], Sedinam Amewuzah[1], Julie Albon[2], Tony Redmond[2], Louise Terry[2] *([1]Ghana, [2]United Kingdom)*

524 T066 *rf* Immune markers and atypical phenotypes in pseudoexfoliative glaucoma association with uveitis and endothelial cell loss
Minjeong Koo *(Republic of Korea)*

535 T067 *rf* Pre-surgical use of antiglaucomatous medications: A nationwide registry study
Jeppe Samuelsen, Christina Eckmann-Hansen, Kim Holmgaard, Hadi Kjærbo, Christian Torp-Pedersen, Miriam Kolko *(Denmark)*

537 T068 A dual-applanation physical model to improve goldmann tonometry accuracy by incorporating corneal biomechanics
Mario Troisi, Ciro Caruso, Gaetano Barbaro, Ciro Costagliola *(Italy)*

556 T069 Shallow anterior chamber with normal intraocular pressure after microshunt implantation: role of device tutoring
rf
Alejandra Artiles, Silvia Iglesias Cerrato, Blanca Fatela Cantillo, Guadalupe Garrido Ceca *(Spain)*

561 T070 Syndromic congenital glaucoma: diagnostic and therapeutic challenges in a 10-year experience in tertiary care
Lina Habmellouk Sefrioui, Sara Ettouri *(Morocco)*

569 T071 Visual field reconstruction in Glaucoma using Threshold-Free Cluster Enhancement on SONDA
Henning Schulte, Minke de Boer-Veldman, J.B.C. Marsman, Frans Cornelissen, Nomdo Jansonius, R.J. Renken *(The Netherlands)*

620 T072 Episcleral venous congestion as an early pre-glaucomatous sign in suspected Sturge–Weber syndrome: A pediatric case report
rf
Aymen Mabrouk, Sarra El Mansouri, Molka Ferchichi, Aouni Jaafer, Rym Maamouri *(Tunisia)*

638 T073 Efficacy and safety between glaucoma drainage devices after six months of follow-up
Ariadna Garreta-Rafecas *(Spain)*

640 T074 Faster, but reliable? Web-based versus Standard Automated Perimetry for glaucoma assessment and monitoring
rf
Danijel Mikulić, Tena Križ, Mia Zoric Geber, Katia Novak Lauš, Marta Šrajbek, Ivanka Petric Vicković, Zoran Vatavuk *(Croatia)*

642 T075 MP-TSCPC in the treatment of secondary glaucoma in children
Anna Mariankowska, Karolina Pańczyk, Karina Dzięcioł, Nikola Oleksyk, Zofia Oliwa, Bogumiła Wójcik-Niklewska, Adrian Smedowski *(Poland)*

644 T076 A clinical trial analysis of recent developments in glaucoma treatment (2021–2026)
Saba Shah, Sarah Obernosterer, Miriam Kolko *(Denmark)*

654 T077 Early postoperative intraocular pressure as a predictor of 12-month success after high-intensity focused ultrasound cyclocoagulation for refractory glaucoma: A real-world cohort
Daniel Abilheira, Vera Araújo *(Portugal)*

655 T078 Long-term intraocular pressure control after micropulse transscleral cyclophotocoagulation in refractory glaucoma: A retrospective cohort study
Paulina Langosz, Krzysztof Eder, Wojciech Maruszczyk, Dorecka Mariola, Adrian Smedowski *(Poland)*

POS Poster Session IM

132 T079 The effect of acute zonular occult outer retinopathy on retinal vessel oxygen saturation
Shahad Zaid Salim Al-Hamdani[1], Belal Al Tweish[1], Annekatrin Rickmann[2], Berthold Seitz[1], Hendrik PN Scholl[1,3], Nóra Szentmáry[4,5], Fabian N Fries[1], Maria della Volpe[1]
([1]Switzerland, [2]Germany, [3]Austria, [4]Germany, [5]Hungary)

225 T080 Multimodal diagnostic approach in a complex case of refractory keratitis: A case report
Salvatore Del Prete, Daniela Marasco, Alessandro Gravina, Antonio Del Prete *(Italy)*

251 T081 Anterior segment OCT for monitoring disease activity in non-infectious anterior scleritis
rf
Süheyl Uyar, Josianne ten Berge, Mirjam van Velthoven *(The Netherlands)*

292 T082 Comprehensive multi-target inflammatory marker silencing in a translational model of ocular chronic graft-versus-host disease post-allogeneic stem cell transplantation
Alessia Cavalleri[1], Federica Trenta[1], Silvia Mutti[1], Hugo Moreiras[2], Hannah Levis[2], Gaia Favero[1], Sara Lancellotti[1], Alessandro Leoni[1], Besjana Xhahysa[1], Luca Garuffo[1], Enrico Morello[1], Vito Romano[1], Michele Malagola[1], Mirko Farina[1], Simona Bernardi[1] *([1]Italy, [2]United Kingdom)*

434 T083 Hyaluronidase hypersensitivity during ocular surgery – prompt recognition and medical treatment to avoid emergency lateral cantholysis
Samara Islam, Zaynah Islam, Aneeta Kumar, Rubaiyat Haque, Niaz Islam *(United Kingdom)*

436 T084 Association of particulate matter and seasonal factors with the incidence and recurrence of uveitis
Mihyun Choi *(Republic of Korea)*

469 T085 Dendritic cell plasticity: how the cytokine environment shapes phenotype and tolerogenic responsiveness
rf
Adarsh Raveendran, Ponarulselvam Sekar, Femke Testroet, Friedemann Kiefer, Claus Cursiefen, Simona Schlereth *(Germany)*

514 T086 VEXAS syndrome masquerading as recurrent infectious orbital cellulitis: a case report
Diogo Sousa Marques, João Castro Cabanas, Renata Rothwell *(Portugal)*

588 T087 Co-culture of Staphylococcus aureus and ARPE-19 cells induces cytokine secretion and release of IL-1β, IL-18, active caspase-1, and NLRP3
Niina Harju *(Finland)*

594 T088 Efficacy of DMARDs in non-infectious scleritis
rf
Süheyl Uyar, Mirjam van Velthoven, Josianne ten Berge *(The Netherlands)*

633 T089 Microbial dysbiosis of the ocular surface in patients with Breast Cancer
Noopur Gupta, Radhika Tandon Tandon, Vanathi Murugesan, Jyoti Goel, Pallavi Shukla, Asuri Krishna *(India)*

POS Poster Session MBGE

108 T090 Associations of nutritional intake and Body Mass Index with Branch Retinal Vein Occlusion: Evidence from a Korean national survey
Bokyung Kim, Mingui Kong *(Republic of Korea)*

113 T091 Potential causal association between basal metabolic rate and presbyopia: A two-sample Mendelian randomisation study
Je Hyun Seo *(Republic of Korea)*

130 T092 Design and in vitro expression of miniaturized USH2A constructs for mutation-independent non-viral gene therapy
rf
Lucija Malinar, Marko Hawlina, Urška Kamenšek *(Slovenia)*

150 T093 Studying the role of protein tyrosine phosphatase receptor type R (PTPRR) in myopia development
Sanja Boranijasevic, Michiels Christelle, Jennifer Kervadec, Isabelle Audo, Baptiste Wilmet, Christina Zeitz *(France)*

156 T094 Clinical features associated with the c.1092+5G>A variant in the FLVCR1 gene
rf
Isaac Tang Jing Wen[1], Genevieve Wright[1], Sakina Rajabali[1], Siying Lin[1,2], Gavin Arno[1], Michel Michaelides[1], Anna Lentzsch[1], Andrew Webster[1], Omar Mahroo[1] *([1]United Kingdom, [2]United States)*

167 T095 Visual acuities in a cohort of patients with retinitis pigmentosa arising from the Pro347Leu missense variant in RHO
Mark Hughes, Siying Lin, Isabelle Chow, Moin Mohamed, Michel Michaelides, Andrew R Webster, Omar Mahroo *(United Kingdom)*

199 T096 *rf*
Optimizing dual-isoform delivery for the gene therapy of FAM161A deficiency: a preclinical study
Elora Vanoni[1], Mélissa Gilles[2], Kabirou Adamou[1], Eyal Banin[3], Dror Sharon[3], Yaël Alves[1], Sylvain Crippa[1], Vasiliki Kalatzis[2], Fabio Duarte[1], Corinne Kostic[1], Yvan Arsenijevic[1]
([1]Switzerland, [2]France, [3]Israel)

201 T097
Orbital CT imaging as a predictor of visual outcome in ocular trauma
Archana Vare *(India)*

215 T098
Tackling fibrosis: A cross-organ, transcriptome-guided drug repurposing approach
Julia Preishuber-Pflügl, Caterina Barone, Vera Paar, Verena Wally, Markus Lenzhofer, Roland Zauner, Susanne Migschitz, Andreas Koller, Herbert Reitsamer, Andrea Zurl *(Austria)*

242 T099
Visual acuities in patients with retinitis pigmentosa associated with the c.-69G>T substitution in TMEM216
Hana El Diwany[1], Siying Lin[1], Samantha Malka[1], Gavin Arno[1,2], Michel Michaelides[1], Andrew R Webster[1], Omar Mahroo[1] *([1]United Kingdom, [2]United States)*

247 T100
Genes and proteins implicated in myopia: A systematic literature review of animal studies
Nga Nguyen[1], Huyen Bui[1,2], Xi He[1], Hannah Noor[1], Louise Terry[1], Marita Feldkaemper[3], Jeremy Guggenheim[1] *([1]United Kingdom, [2]Vietnam, [3]Germany)*

272 T101
Time-dependent modulation of hypoxic stress by coenzyme Q10 in retinal Müller cells
Alicia Villa Vázquez, Lydia Álvarez, Beatriz Fernández, Rosario Pereiro, Beatriz Fernández-Vega, Hector Gonzalez-Iglesias *(Spain)*

297 T102
Analysis of the long-term modulatory effect of Zn on the progression of neurodegeneration in the brain-eye axis of APP/PS1 animal model
Lydia Álvarez, Enol Artime, Ana Arnau, Ana Navarro, Hector Gonzalez-Iglesias *(Spain)*

298 T103 *rf*
Ocular trauma in low- and middle-income countries: A systematic review and meta-analysis
Aisha Mansur, Abeer Mansur *(Libya)*

306 T104
A retrospective longitudinal study of 56 patients with albinism in Finland
Katarina Sallila, Elsa-Leea Kotola, Pauliina Repo, Michael Backlund, Anna Majander, Joni Turunen *(Finland)*

382 T105
Functional Analysis of CYP2D6 variants for Emmetropization Pathways
Jahnobi Konwar[1], Christian Platzl[1], Alexandra Kaser-Eichberger[1], Falk Schrödl[1], Michiels Christelle[2], Christina Zeitz[2] *([1]Austria, [2]France)*

396 T106 *rf*
Proteomic profiling of age-related macular degeneration reveals molecular signatures of disease progression
Joëlle Vergroesen, Mahfam Shahabi, Sheila de Koning-Backus, Ben Muller, Meri Oliva, Bridget Riley-Gillis, Gerry Rodrigues, Jonas Kuiper, Anneke den Hollander, Karin van Garderen, Magda Smoor, Caroline Klaver, Yara Lechanteur *(The Netherlands)*

400 T107
Shedding light on myopia by studying retinitis pigmentosa
Filip Spanic, Emmanuelle Clérin, Christelle Michiels, Jennifer Kervadec, Isabelle Audo, Baptiste Wilmet, Christina Zeitz *(France)*

421 T108
Galectin-3 modulates PDGF-mediated AKT signaling in retinal pigment epithelial cells
Andreas Ohlmann, Annabella Ostermaier, Martina Bizzotto, Caspar Liesenhoff, Siegfried Priglinger, Claudia Priglinger *(Germany)*

426 T109 *rf*
Analysis of ophthalmic malpractice cases: a retrospective study based on judicial decisions in Turkey
Ezgi Karataş, Ceren Durmaz Engin, Yavuz Oruç, Süleyman Kaynak *(Türkiye)*

437 T110
Association of lifetime occupational diving with ocular morbidities: Jeju haenyeo aging and resilience cohort (JH-ARC) study
Ahnul Ha, Minwoong Kang, Ki Tae Nam, Jin Lee, Jin-Deok Joo, Juhee Cho *(Republic of Korea)*

441 T111 Clinical profile of uveitis patients in a tertiary hospital in Southern Mindanao: a 4-year retrospective chart review
Esther Carmen Arvella Ereño, Billie Jean Cordero *(Philippines)*

451 T112 Clinical features in patients with retinitis pigmentosa associated with the Thr494Met substitution in PRPF3
Abdelrahman Elkhouli[1], Siying Lin[1], Gavin Arno[1,2], Michel Michaelides[1], Andrew R Webster[1], Omar Mahroo[1] *([1]United Kingdom, [2]United States)*

470 T113 *rf* Sequential low-volume metabolomic and lipidomic profiling of human tears using non targeted microLC-HRMS
Pilar Sáenz de Santa María, Nicolas Sanchez Maluf, Alvaro Fernández-Vega González, Maria Isabel Lopez Galvez, Hector Gonzalez-Iglesias *(Spain)*

474 T114 Clinical implications of VEGF (rs2010963) polymorphism in retinopathy of prematurity progression: towards personalized anti-VEGF strategies
Mariza Fevereiro-Martins, Ana Carolina Santos, Filipa Teixeira, Rita Rosa, Ricardo Parreira, Pedro Barros, Susana Teixeira, Mafalda Mota, Madalena Monteiro, Mário Alfaiate, Renato Silva, Jorge Breda, Hercília Guimarães, Carlos Marques-Neves, Manuel Bicho *(Portugal)*

542 T115 *rf* Clinical and genetic heterogeneity in NPHP1-related retinopathy: A case series
Christina Karakosta, Toshit Varshney, Michel Michaelides, Omar Mahroo, Andrew Webster *(United Kingdom)*

558 T116 Galectin-3 enhances Integrin-β1-mediated AKT and β-catenin signaling in retinal pigment epithelial cells
Martina Bizzotto, Caroline Havertz, Siegfried Priglinger, Claudia Priglinger, Andreas Ohlmann *(Germany)*

575 T117 Uveitis in the eldery: clinical characteristics and etiological profile
Amira Mabrouk, Ben Amor Hager, Marwa Romdhane, Jelliti Bechir *(Tunisia)*

587 T118 *rf* Exploring Müller cell glial-to-mesenchymal transition in the pathogenesis of proliferative vitreoretinopathy: An in vitro pilot study
Zuzanna Granek, Grzegorz Galita, Tomasz Dybek, Ireneusz Majsterek *(Poland)*

605 T119 *rf* Thyroid eye disease confers independent risk of venous thromboembolism in a multi-institutional cohort study
Aaron Zhao, William Katowitz *(United States)*

623 T120 *rf* A variant in BEST1 associated with peripheral retinopathy and myopia
Zain Girach[1], Mohammed Sabir Acharat Parakkat[1], Toshit Varshney[1], Gavin Arno[1,2], Michel Michaelides[1], Moin Mohamed[1], Andrew R Webster[1], Andrew Browning[1], Siying Lin[1], Omar Mahroo[1] *([1]United Kingdom, [2]United States)*

627 T121 *rf* The CFH gene may affect protein signatures associated with age-related macular degeneration
Joëlle Vergroesen, Mahfam Shahabi, Sheila de Koning-Backus, Ben Muller, Meri Oliva, Bridget Riley-Gillis, Gerry Rodrigues, Jonas Kuiper, Anneke den Hollander, Karin van Garderen, Magda Smoor, Caroline Klaver, Yara Lechanteur *(The Netherlands)*

POS Poster Session PO

224 T122 *rf* Endoscopic surgical corridors to the orbital apex: A systematic review
Sachleen Soor, Kezia Peter, Barbara Pierscionek *(United Kingdom)*

230 T123 *rf* Osteopontin drives tumor progression and dendritic cell dysfunction in conjunctival melanoma
Ponarulselvam Sekar, Christian Vossen, Leonie K. M. Schroers, Claus Cursiefen, Thomas Wunderlich, Simona Schlereth *(Germany)*

280 T124 Aggressive conjunctival squamous cell carcinoma: a therapeutic challenge
Martina Bizzotto, Caroline Havertz, Siegfried Priglinger, Claudia Priglinger, Andreas Ohlmann *(Germany)*

285 T125 Multidisciplinary management of Nevus of Ota: Integrating OCT and AI for early melanoma detection
Antonella Cicale, Lorenza Cicale, Daniela Marasco, Antonio Del Prete *(Italy)*

430 T126 Medial canthus reconstruction using a glabellar flap in a monocular patient
Aurelie Le, Youssef Afifi *(Belgium)*

431 T127 *rf* Preseptal cellulitis turning into necrotizing fasciitis: a pediatric emergency
Walid Benlmostapha, Rayann Chamas, Edward Boutremans, Aurelie Le *(Belgium)*

442 T128 *rf* Mapping intratumoural evolution in uveal melanoma through spatial transcriptomics and genomic integration
Vojtech Hanicinec, Xavier Tekpli, Øystein Garred, Nils Eide, Thomas Bærland, Jürgen Geisler, Morten Carstens Moe, Henrik Jespersen, Agate Noer *(Norway)*

467 T129 Osteopontin drives vascular remodeling in conjunctival melanoma
Simona Schlereth, Ponarulselvam Sekar, Suman Mallanna, Claus Cursiefen, Thomas Wunderlich *(Germany)*

478 T130 Orbital compartment syndrome secondary to superior ophthalmic vein thrombophlebitis and cavernous sinus thrombosis
Inmaculada Herrero Sanchez, Sergio Fernández Pérez, Ana María Abad Pascual, Edurne De la Cámara Sahuquillo, Javier Ramos Duarte, Pablo Tejada González, Cristina Calvo Simón, Luca Manuel Bueno Borghi, Carla Sánchez Remacha, Carla Iglesia Lázaro, Jorge Núñez Bueno, Adrián Arranz Álvarez, Laura Jiménez Lasanta, Miguel Castillo Fernández, Francisco Javier Ascaso *(Spain)*

550 T131 *rf* Uveal melanoma model by CRISPR-Cas9 editing of normal choroidal melanocytes
Hannah Åkerberg, Vojtech Hanicinec, Eirunn Søyland, Thomas Bærland, Nils Eide, Morten Carstens Moe, Kulbhushan Sharma, Henrik Jespersen, Agate Noer *(Norway)*

555 T132 *rf* Targeting SPARC -mediated Müller glial-mesenchymal transition attenuates early retinal damage in diabetic retinopathy
Shubhrajit Barman, Senthil Kumar Ganesan *(India)*

572 T133 Orbital masses revealing Rosai Dorfman disease: A case report
Amira Mabrouk, Ben Amor Hager, Nabi Wijdene, Blel Olfa, Imen Ksiaa, Jelliti Bechir *(Tunisia)*

POS Poster Session YOUNG INVESTIGATOR SESSION

326 T134 Impairment of mitophagy induces senescence-associated secretory phenotype in paracrine trabecular meshwork fibrogenesis
Qin He, Wangshu Yu *(China)*

332 T135 Preparation and decellularisation of peripapillary sclera: A reproducible protocol for extracellular matrix assessment
Maryam Mohammadzadeh, Daniela Oehring *(United Kingdom)*

531 T136 Predicting quantitative optic disc parameters from fundus images using a foundation model
Simon Christoph König[1], Stephan Moritz König[1], Anna Welzel[1], Antonia Buescher[1], Albert Kwadjo Amoah Andoh[2], Julia Stingl[1], Alicja Strzalkowska[1], Emil Nasyrov[1], Bogomil Voykov[1], Anna-Karina Maier-Wenzel[1], Khaldoon Al-Nosairy[1], Cluadia Schuart[1], Esther Hoffmann[1], Alexander Schuster[1] *([1]Germany, [2]United Kingdom)*

541 T137 The interplay of different cell death mechanisms triggers retinal ganglion cell loss in an autoimmune glaucoma model
Wanyun Qin, Burkhard Dick, Stephanie Joachim *(Germany)*

395 T138 AAV-mediated ocular gene therapy overcomes retinal immune tolerance, to enable transgene-specific cytotoxic T cell-mediated retinal cell loss
Rose Avient, Lorna Fowler, Bruno Charbit, Jason Hopley, Elizabeth Rosser, Andrew Dick, Colin Chu *(United Kingdom)*

543 T139 Escherichia coli Nissle 1917 enhances the anti-inflammatory effect of methotrexate but counteracts the efficacy of baricitinib in experimental autoimmune uveitis
Sylvia Fargašová, Klára Dusová, Petra Prochazkova, Aneta Klímová, Michal Kraus, Janet Jezkova, Monika Steigerova, Miloslav Kverka, Nikolina Canova, Jarmila Heissigerova, Petra Svozilkova *(Czech Republic)*

246 T140 Can a genetic score for variance of refractive error identify children at enhanced risk of myopia due to lifestyle risk factors?
Xi He, Louise Terry, Jeremy Guggenheim *(United Kingdom)*

611 T141 Refractive errors in patients with retinopathy associated with variants in CACNA1F or CABP4
Joana Silva[1], Siying Lin[1], Gavin Arno[1,2], Mariya Moosajee[1], Andrew R Webster[1], Michel Michaelides[1], Omar Mahroo[1] *([1]United Kingdom, [2]United States)*

138 T142 Tumor and retinal detachment volumes on MRI as predictors of enucleation after proton beam therapy for uveal melanoma
Iris Mulder, Lennart Pors, Corné Haasjes, Khanh Vu, Marina Marinkovic, Lisa Klaassen, Coen Rasch, Jan-Willem Beenakker *(The Netherlands)*

595 T143 Diagnostic accuracy of computed tomography for detection of post-laminar optic nerve invasion in patients with retinoblastoma: A systematic review and meta-analysis
João Pedro Lima, Éliton Ferreira, Enilton Machado *(Brazil)*

Poster Session 2

11:55-12:55

POS Poster Session NSPH

103 F001 Assessing the overall benefit of treatment with idebenone using propensity-score weighting in patients with Leber hereditary optic neuropathy according to causative mitochondrial DNA variant: Post hoc analysis of the LEROS study
Nancy Newman[1], Patrick Yu-Wai-Man[2], Alfredo Sadun[1], Valerio Carelli[3], Rod Gossen[4], Daniela Garavaglia[3], Karen Sison Lance[4], Caroline Fradette[4], Xavier Llòria[3], Thomas Klopstock[5]
([1]United States, [2]United Kingdom, [3]Italy, [4]Canada, [5]Germany)

194 F002 Bilateral severe visual loss in posterior reversible encephalopathy syndrome: Hypertensive optic neuropathy with exudative retinal detachment
Ahmet Oncirak, Fatma Sumer *(Türkiye)*

107 F003 A quantitative retinal nerve fiber layer threshold for visual prognosis in parachiasmal tumor surgery: proof-of-concept from a retrospective case series
Ahmet Oncirak, Fatma Sumer *(Türkiye)*

127 F004 Comparison of short-wavelength automated perimetry parameters between myopia control and single-vision spectacles in myopic children
Aleyna Nur Yetim Ilkis, Burcin Cakir, Büşra Güner Sönmezoğlu *(Türkiye)*

129 F005 Mapping the diagnostic odyssey in Leber's Hereditary Optic Neuropathy (LHON): A qualitative methodological study of patient and caregiver experiences in the UK
Phil Dawson, Kamran Iqbal, Katy Bunn, Matthew Bolz-Johnson, Russell Wheeler, Katie Waller, Nisha Nixon, Marcela Votruba *(United Kingdom)*

134 F006 *rf* Understanding the extent of visual snow and associated symptoms in inherited retinal disease
Ameerah Ilyas, Leonie Kiedel, Michel Michaelides, Andrew Webster, Matteo Rizzi, Omar Mahroo, Sui Wong *(United Kingdom)*

143 F007 Impact of longer treatment duration with idebenone on change in visual acuity using propensity-score matching in subacute/dynamic and chronic patients with Leber hereditary optic neuropathy
Alfredo Sadun[1], Nancy Newman[1], Patrick Yu-Wai-Man[2], Valerio Carelli[3], Rod Gossen[4], Daniela Garavaglia[3], Karen Sison Lance[4], Caroline Fradette[4], Xavier Llòria[3], Thomas Klopstock[5]
([1]United States, [2]United Kingdom, [3]Italy, [4]Canada, [5]Germany)

166 F008 Toxic optic neuropathy from heavy metal exposure: A comprehensive review and case reports
Mohammed Saeed[1], Luai Eldweik[2] *([1]United Kingdom, [2]United Arab Emirates)*

172 F009 Ophthalmoparesis in Wernicke encephalopathy: A case report
Edurne de la Cámara Sahuquillo, Diana Perez Garcia, Patricia Ramiro, Adrián Arranz Álvarez, Víctor Aguado Casanova, Inmaculada Herrero Sánchez, Pablo Tejada González, Ana María Abad Pascual, Javier Ramos Duarte, Cristina Calvo Simón, Luca Manuel Bueno Borghi, Carla Sánchez Remacha, Leon Remon, Francisco Javier Ascaso *(Spain)*

184 F010 Pulse intravenous methylprednisolone for compressive optic neuropathy secondary to nasopharyngeal carcinoma: A case report
Caius Goh, Kelvin Li *(Singapore)*

191 F011 *rf*
Outcomes of medial rectus recession on a semi-adjustable suture in Thyroid Eye Disease related esotropia
Aikaterini Chatzara, Anastasia Margariti, Michail Aggelidis, Dimitrios Vassiliou, Anthi Nikolopoulou, Ilias Georgalas, Anastasia Tsiogka, Klio Chatzistefanou *(Greece)*

216 F012
The PHENOV study: rod and cone deficiencies differently affect the pupil light response
Corinne Kostic, Laura Kowalczuk, Veronika Vaclavik, Laura Mauring, Hoai Viet Tran, Yvan Arsenijevic, Aki Kawasaki *(Switzerland)*

257 F013 *rf*
Design and preliminary clinical evaluation of a "Goggle-Type" lacrimal canal compressor
Shuang Li, Jing Wang, Lijuan Zhang *(China)*

282 F014 *rf*
Retrospective analysis of anamnesis-based risk factors associated with myopia severity in children Aged 6–18 years
Aleyna Nur Yetim Ilkis, Seren Kaplan Güngördü, Burcin Cakir, Büşra Güner Sönmezoğlu *(Türkiye)*

309 F015
Next steps of Lenadogene Nolparvovec gene therapy clinical development
Nancy Newman[1], Patrick Yu-Wai-Man[2], Valerio Carelli[3], Valérie Biousse[1], Catherine Vignal-Clermont[4], Thomas Klopstock[5], Magali Taiel[4], José-Alain Sahe[4]
([1]United States, [2]United Kingdom, [3]Italy, [4]France, [5]Germany)

339 F016
The "Hammam" stroke: Acute horner syndrome in a heat-induced carotid artery dissection
Iatissam El Belhadji, Amine Razzak, Mohamed Bouazza, Mohamed Elbelhadji, Abdelbarre Oubaaz *(Morocco)*

347 F017 *rf*
What determines visual outcome in Pediatric open globe injuries? Insights from a five-year retrospective cohort study
Inass Knineche, Sara Ettouri, Daghouj Ghizlane, Bouchra Allali, Asmaa El Kettani *(Morocco)*

355 F018
Effect of cycloplegia on axial length assessment in pediatric myopia
Vera Sá Araújo, Daniel Abilheira, Paula Bompastor, Cristina Freitas, Tiago Fernandes *(Portugal)*

377 F019
Five-year complication risks after pediatric ocular trauma: Insights from the Korean National Health Insurance Service database
Eun Hee Hong, Han Woong Lim, Ungsoo Kim *(Republic of Korea)*

384 F020
Ocular yasthenia Gravis: the clinical challenge in diagnosing the "great masquerader"
Adrian Arranz Alvarez, Carla Iglesia Lázaro, Jorge Nuñez Bueno, Pablo Tejada Gonzalez, Edurne De La Camara Sahuquillo, Inmaculada Herrero Sanchez, Ana Maria Abad Pascual, Javier Ramos Duarte, Leon Remon, Patricia Ramiro Millán, Diana Perez Garcia, Victor Agudo Casanova, Francisco Javier Ascaso Puyuelo *(Spain)*

401 F021
Pretarsal botulinum toxin injection for the treatment of symptomatic epiblepharon: A case report
Inmaculada Herrero Sanchez, Pablo Tejada González, Edurne De la Cámara Sahuquillo, Ana María Abad Pascual, Javier Ramos Duarte, Cristina Calvo Simón, Carla Sánchez Remacha, Luca Manuel Bueno Borghi, Juan Ibañez, Patricia Ramiro, Leon Remon, Víctor Aguado Casanova, Francisco Javier Ascaso, Diana Perez Garcia *(Spain)*

403 F022
Assessing off-chart visual acuity over time with idebenone treatment in patients with Leber hereditary optic neuropathy: An integrated analysis of RHODOS and LEROS
Patrick Yu-Wai-Man[1], Nancy Newman[2], Alfredo Sadun[2], Valerio Carelli[3], Daniela Garavaglia[3], Karen Sison Lance[4], Caroline Fradette[4], Xavier Llòria[3], Thomas Klopstock[5] *([1]United Kingdom, [2]United States, [3]Italy, [4]Canada, [5]Germany)*

407 F023 *rf*
Optic disc drusen in idiopathic intracranial hypertension: Prevalence and clinical and neuroradiological correlates
Matteo Baldi, Paola Ciasca, Gabriella Cammarata, Lisa Melzi, Irene Schiavetti, Aldo Vagge, Stefania Bianchi Marzoli *(Morocco)*

414 F024 *rf*
Performance of an ai-based screening tool in compressive optic neuropathy
Madalena Gonçalves[1], Tomás Reis da Costa[1], Inês Mendo[1], Luis Abegão Pinto[1], Ingeborg Stalmans[2], Quirina Ferreira[1], Joana Ferreira[1] *([1]Portugal, [2]Belgium)*

435 F025 *rf*
Peripapillary Vessel Densities Measured with OCTA in MOGAD
Sevde Nur Akyuz Altun, Seren Kaplan Güngördü, Burcin Cakir, Nilgun Ozkan Aksoy *(Türkiye)*

453 F026
Primary retinal ganglion cells exhibit shortened mitochondrial length and increased mitochondrial motility in an in vitro hypertension model
Marcela Votruba[1], Shanshan Sun[2] *([1]United Kingdom, [2]China)*

456 F027
Ocular only Miller Fisher Syndome: A case presentation
Omar Najim, Venkateshwar Kesharaju *(United Kingdom)*

458 F028
The Evans index in patients with diabetic retinopathy: a case-control study
Galina Dimitrova[1], Dimitar Veljanovski[1], Ana Doneva[1], Biljana Prgova Veljanovska[1], Etsuo Chihara[2] *([1]Macedonia, [2]Japan)*

459 F029 *rf*
Bruch's membrane opening minimum rim width differentiates non-arteritic anterior ischemic optic neuropathy from neurovascular conflict of the anterior visual pathways
Ludovica Gargiulo, Francesco Cutrupi, Stefania Bianchi Marzoli *(Italy)*

463 F030
Poppers (isopropyl nitrite) inhalation induces acute pupillary dysfunction in mice: first evidence of a novel biomarker for poppers-associated ocular toxicity
Víctor David Ayala Rivera, Michael Espitia Arias, Adina Dumitru, Cecilia Fernandez, Pedro De La Villa *(Spain)*

472 F031
Association of lipid profile and systemic inflammation with retinal microvascular density in thyroid-associated ophthalmopathy
Eda Gumrukcuoglu, Burcin Cakir, Nilgun Ozkan Aksoy *(Türkiye)*

475 F032
Kearns–Sayre Syndrome presenting with predominant ophthalmologic manifestations in a young adult: A case report
Jorge Núñez Bueno, Pablo Tejada González, Inmaculada Herrero Sánchez, Luca Manuel Bueno Borghi, Ana María Abad Pascual, Adrián Arranz Álvarez, Edurne De la Cámara Sahuquillo, Javier Ramos Duarte, Carla Iglesia Lázaro, Cristina Calvo Simón, Carla Sánchez Remacha, Francisco Javier Ascaso, Patricia Ramiro *(Spain)*

479 F033
Myopia control with spectacle lenses with Highly Aspherical Lenslets (HAL)
Olga Prenat[1], Mark Bullimore[2] *([1]France, [2]United States)*

481 F034
Trifocal Intraocular lens implantation in unilateral cataract in a pediatric patient: indicationsand outcomes
Ana María Abad Pascual, Javier Ramos Duarte, Diana Perez Garcia, Juan Ibañez, Inmaculada Herrero Sánchez, Pablo Tejada González, Carla Iglesia Lázaro, Adrián Arranz Álvarez, Jorge Núñez Bueno, Edurne De La Cámara Sahuquillo, Luca Manuel Bueno Borghi, Cristina Calvo Simón, Carla Sánchez Remacha *(Spain)*

484 F035
Pediatric corneal wounds: Clinical spectrum, surgical outcomes and preventive challenges in a high-volume tertiary center
Manal Timoulal, Sara Ettouri, Es-samery Oumama *(Morocco)*

495 F036
Determinants of visual outcome in pediatric ocular trauma: a tertiary emergency center experience
Ikram Mejjali, Sara Ettouri *(Morocco)*

498 F037
The spectrum of pediatric ocular emergencies: A tertiary care review
Es-samery Oumama, Sara Ettouri, Hajar El Ayouki, Selma Kaghat *(Morocco)*

499 F038
Conjunctival closure in strabismus surgery: a comparative review of sutured and sutureless techniques, clinical outcomes, and cost implications
Zuhaib Ehsan *(United Kingdom)*

507 F039
Which large language models provide the best parental education in amblyopia? A comparative study
Suleyman Demir *(Türkiye)*

510 F040 Restrictive post-traumatic strabismus without muscle entrapment: surgical management with conjunctival grafting
Javier Ramos Duarte, Ana María Abad Pascual, Edurne De la Cámara Sahuquillo, Inmaculada Herrero Sánchez, Pablo Tejada González, Adrián Arranz Álvarez, Carla Iglesia Lázaro, Jorge Núñez Bueno, Francisco Javier Ascaso, Diana Perez Garcia *(Spain)*

523 F041 *rf* Astrocytes as drivers of pathogenicity in Leber's Hereditary Optic Neuropathy (LHON)
Wyn Firth, Marcela Votruba *(United Kingdom)*

534 F042 *rf* Neurovascular compression between the supraclinoid internal carotid artery and anterior optic pathway: establishing clinical and MRI diagnostic criteria
Francesco Cutrupi, Ludovica Gargiulo, Paola Ciasca, Alessandra Criscuoli, Claudia Cinnante, Stefania Bianchi Marzoli *(Italy)*

536 F043 Longitudinal changes in the retinal inner plexiform layer in multiple sclerosis
Gabriella Cammarata, Sebastiano Crisafulli, Linda Maldera, Laura Brambilla, Diletta Santarsiero, Stefania Bianchi Marzoli *(Italy)*

538 F044 Response duration of visual acuity optimization in pediatric refractive amblyopia management following citicoline as adjuvant therapy: a case series
Syarah Nandya Dinnarwika, Muhammad Faradian Ramadhan *(Indonesia)*

540 F045 Screening of amblyogenic risk factors in a population-based cohort of Portuguese preschool-aged children
Catarina Silva, Rúben Magalhães, Inês Pais, Ana Dinis, Jose Manuel Salgado-Borges, J Coimbra de Matos, Marta Ferreira, Mafalda Roriz, Catarina Mateus *(Portugal)*

551 F046 Congenital myasthenic syndrome: a case report
Adrian Arranz Alvarez, Pablo Tejada González, Edurne De la Cámara Sahuquillo, Carla Iglesia Lázaro, Jorge Nuñez Bueno, Inmaculada Herrero Sanchez, Cristina Calvo Simon, Carla Sanchez Remacha, Luca Manuel Bueno Borghi, Diana Perez Garcia, Victor Agudo Casanova, Leon Remon, Francisco Javier Ascaso, Patricia Ramiro Millán *(Spain)*

557 F047 Intrafamilial phenotypic variability in OPA1-associated autosomal dominant optic atrophy: A multimodal OCT and OCTA study
Suleyman Demir, Hasancan Kucuk *(Türkiye)*

560 F048 *rf* Ocular axial length as a modifier of visual outcomes in dominant optic atrophy: A longitudinal cohort study
Sebastiano Del Fabbro, Lorenzo Bianco, Federico Formenti, Anna Maria De Negri, Arturo Carta, Leonardo Caporali, Chiara La Morgia, Valerio Carelli, Piero Barboni, Francesco Bandello, Maria Lucia Cascavilla *(Italy)*

562 F049 Iatrogenic claude Bernard-Horner syndrome following cervical surgery: A rare but important complication
Lina Habmellouk Sefrioui, Sara Ettouri *(Morocco)*

564 F050 Characterizing the retinal structure and function of adults with anisometropic amblyopia
Rúben Magalhães, Inês Pais, Ana Cláudia Rocha, Mary Ramos, Cleuber Filho, Catarina Mateus *(Portugal)*

571 F051 Three-year efficacy and safety of repeated low-level red-light therapy for myopia control: a multicentre real-world cohort study
Mingguang He[1], Zhuoting Zhu[2], Yanxian Chen[1], Kyoko Ohno-Matsui[3]
([1]Hong Kong, [2]Australia, [3]Japan)

601 F052 How does central optical zone diameter map onto the visual field in myopia control spectacles?
Rafael Iribarren[1], Martin De Tomas[2], Gervasio Perez[2], Gabriel Martin[2], Carla Lança[3], Jos Rozema[4] *([1]Argentina, [2]United States, [3]United Arab Emirates, [4]Belgium)*

602 F053 Infantile Physiological Increased Macular Autofluorescence (IPIMA): a normal feature of the developing retina
Oliver Marmoy, Katrina Prise, Robert Henderson, Dorothy Thompson *(United Kingdom)*

618 F055 Paediatric chronic progressive external ophthalmoplegia with POLG gene mutations: First genetically confirmed case
Michael Wahba, Alok Gaurav *(United Kingdom)*

625 F057 Risk factors associated with ongoing myopia progression in early adulthood
Carla Lança[1], Delicia Torrent[2], Florencia Bugosen[2], Natalia Pereyra[2], Lidia Sarotto[2], Rafael Iribarren[2] *([1]United States, [2]Argentina)*

643 F058 VR4eVR: Virtual Reality for enriched Visual Rehabilitation
Frans Cornelissen, Minke de Boer-Veldman *(United Kingdom)*

POS Poster Session RV

118 F059 Incidence and risk factors of treatment-requiring retinopathy in type 2 diabetes - A diabetes register study
Sirpa Loukovaara, Jari Haukka, Jaason Haapakoski, Saara Metso, Antti Riikonen *(Finland)*

135 F060 Safety profile of sepofarsen, an investigational antisense oligonucleotide for CEP290-associated Leber congenital amaurosis (LCA10), in pediatric and adult participants across four clinical studies
Bart Leroy[1,2], Isabelle Audo[3,4], Camiel Boon[5] Ingeborgh van den Born[5], Hélène Dollfus[4], Robert Koenekoop[6], Lyubomyr Lytvynchuk[7,8], Michel Michaelides[3], Fernanda Porto[9], Juliana Sallum[9], Katarina Stingl[7], Corentin Gauby[4], Ursula Garczarek[4], Michael Schwartz[4], Zuhal Butuner[4]
([1]Belgium, [2]United States, [3]United Kingdom, [4]France, [5]The Netherlands, [6]Canada, [7]Germany, [8]Austria, [9]Brazil)

137 F061 *rf* Treatment durability and visual outcomes of Aflibercept 8 mg in treatment-naïve neovascular AMD: 12-month real-world outcomes
Wei Han Ong, Sidra Hasan, Umaima Mulla, Meena Virdi *(United Kingdom)*

139 F062 Six-month micronutrient supplementation improves retinal function in diabetic patients: An effect size analysis
Franziska Weiglein[1], Warren Roche[2], Maciej Oseka[3], Anna Gebka[3], Malgorzata Mulak[3], Karolina Ciszewska[3], Anna Święch[3] *([1]Germany, [2]Ireland, [3]Poland)*

158 F063 When a new tear appears: Sequential pneumatic retinopexy in recurrent retinal detachment
Inês Mendo, Mariana Vaz, João Vaz, David Costa, Pedro Carreira, Diogo Cabral, Nuno Campos *(Portugal)*

168 F064 Vitreous hemorrhage complicating toxoplasma retinochoroiditis in a child: a case report
Alaa Ghorbel, Nesrine Zaafrane, Mohamed Ghorbel *(Tunisia)*

169 F065 Leptospirosis as a cause of acute retinal necrosis
Edurne de la Cámara Sahuquillo, Jorge Núñez Bueno, Inmaculada Herrero Sánchez, Pablo Tejada González, Carla Iglesia Lázaro, Adrián Arranz Álvarez, Ana María Abad Pascual, Javier Ramos Duarte, Carla Sánchez Remacha, Luca Manuel Bueno Borghi, Cristina Calvo Simón, Francisco Javier Lara Medina, Francisco Javier Ascaso *(Spain)*

175 F066 BestPracticePig: Application of single-eye cell cultures for research and therapy development for eye diseases
Philipp Dörschmann, Justine Wilke, Emi Koyama, Nina Tietze, Sina von der Weppen, Greta Schmitkall, Marie Prinz, Ana Karchava, Alexa Klettne *(Germany)*

179 F067 It's a matter of TRAST: Clinically meaningful explainable AI in OCT imaging
Eirini Maliagkani, Ilias Georgalas, Ioannis Datseris, Elpiniki Papageorgiou, Ioannis Apostolopoulos *(Greece)*

196 F068 Optical coherence tomography parameters as potential biomarkers of frailty: a pilot study in healthy older adults
Laura Rico del Viejo, Almudena Crooke Álvarez, Elisa Wang, Irene Martínez Alberquilla, David Madrid Costa *(Spain)*

200 F069 Attention is all you need: Deep learning for myopia severity classification
Elpiniki Papageorgiou, Eirini Maliagkani, Christos Tsoutsas, Nikolaos Papageorgiou, Ioannis Apostolopoulos, Nikolaos Papandrianos, Ilias Georgalas, Konstantinos Droutsas *(Greece)*

207 F070 An overview of surgical results using silicone oil in retinal detachment operations in South-East Scotland
rf
Niharika Nalagatla, Colin Goudie *(United Kingdom)*

217 F071 Targeted micronutrient supplementation for vitreous floaters: Clinical evidence and real-world experience
Franziska Weiglein[1], Warren Roche[2], Thomas Kaercher[1], Ulrich Welge-Lüssen[1], John Nolan[2]
([1]Germany, [2]Ireland)

223 F072 In vitro characterization and pharmacokinetic modeling of melanin-binding tyrosine kinase inhibitors (TKIs) for anti-neovascular therapy in the retina
Pekka Vanhanen, Julius Viita, Stanislav Kalinin, Ida Kolehmainen, Mika Reinisalo, Harri Jukarainen, Arto Urtti *(Finland)*

235 F073 Divergent Retinal vascular phenotypes across Alzheimer's disease risk: Insights from fundus photography and ultra-widefield imaging
rf
Melody Sequeira[1], Borja Marin[1], Logan Will[1], Lajos Csincsik[2], Tom MacGillivray[1]
([1]United Kingdom, [2]Ireland)

238 F074 Inhibition of microglial activation induces retinal neuroprotection in X-linked retinoschisis
rf
Sumin An, Ye Ji Kim, Eunjae Yoo, Jung Woo Han, Hyo Song Park, Jin Ha Kim, Hayan Park, Bomi Kim, Jun-Sub Choi, Tae Kwann Park *(Republic of Korea)*

249 F075 Zinc modulates metallothionein remodeling and lipid metabolism in RPE cells under inflammatory stress
Hector Gonzalez-Iglesias, Ana Alvarez-Barrios, Lydia Álvarez, Beatriz Fernández-Vega, Andres Fernandez-Vega-Cueto, Luis Fernandez-Vega *(Spain)*

258 F076 Difference in treatment burden of neovascular age-related macular degeneration among different types of neovascularization
Jihyun Lee1 *(Republic of Korea)*

260 F077 GS181 is new siRNA targeting RBP4, for treatment of Stargardt disease and dAMD
Kaili Zhang, Yuanfeng Xia, Na Liu, Donglin Fu, Xiaozhen Wang, Guliang Xia *(China)*

262 F078 AI-based retinal quantification in pediatric high myopia: Development of a predictive model for fundus changes
Jianjun Zhou, Jinliuxing Yang, Xiangui He *(China)*

267 F079 Identifying protein targets of posterior ocular tissue-targeting RNA aptamers by Proteome Integral Solubility Alteration (PISA) assay
rf
Katariina Maekiniemi[1], Otto Kauko[1], Prasanthi Medarametla[1], Atul Kumar[1,2], Piia Bartos[1], Astrid Subrizi[1] *([1]Finland, [2]Sweden)*

287 F080 Effect of internal limiting membrane peeling on macular microvascular remodeling after epiretinal membrane surgery
Bo Hee Kim, Un Chul Park *(Republic of Korea)*

288 F081 Long-term cultivation of porcine RPE cells: A comparative study of PBLG and PDLLA-based nanofibrous membranes
Hana Studenovska, Mourad Souibgui, Ivona Valeková, Yaroslav Nemesh, Vladimír Proks, Jan Motlik, Zdeňka Ellederová *(Czech Republic)*

303 F082 Transplantation of human iPSC-derived RPE cells with the corrected MERTK mutation into minipig eyes - six weeks follow-up study
Taras Ardan[1], Slaven Erceg[2], Anna Brýmová[1], Hana Studenovska[1], Brigitte Mueller[3], Knut Stieger[3], Goran Petrovski[4], Lyubomyr Lytvynchuk[3], Zbyněk Straňák[1], Miroslav Veith[1], Štefan Juhás[1], Jana Juhasová[1], Yaroslav Nemesh[1], Zdeňka Ellederová[1], Jan Motlik[1]
([1]Czech Republic, [2]Spain, [3]Germany, [4]Norway)

319 F083 *rf* Association between microvascular changes and neurodegeneration in the progression of diabetic retinopathy: A 10-year longitudinal study
Tiago Fonseca, Inês Marques, Inês Pinto, Ana Almeida, Marta Lopes, Marta Pais *(Portugal)*

328 F084 Multimodal imaging as a key diagnostic tool in juvenile-onset Stargardt disease
Sena Özdek Aladağ, Bünyamin Kutluksaman *(Türkiye)*

330 F085 *rf* Preserved autofluorescence area as a candidate structural endpoint in gyrate atrophy
Alessio Antropoli[1,2], Lorenzo Bianco[1,2], Amine Benadji[1], Thilissa Dib[1], Aline Antonio[1], Christel Condroyer[1], Camille Andrieu[1], Sahel José-Alain[3], Christina Zeitz[1], Isabelle Audo[1] *([1]France, [2]Italy, [3]United States)*

333 F086 Faricimab associated occlusive retinal vasculitis – prompt recognition to improve patient safety
Zaynah Islam, Samara Islam, Sukanya Mondal, Nikolaos Gkouliopoulos, Mythili Natkunarajah, Ian Yeung, Niaz Islam *(United Kingdom)*

336 F087 Occult intravitreal metallic foreign body presenting with epiretinal membrane formation 50 years after ocular trauma
Mehmet Fatih Çakmak, İsa Yuvaci, Özlem Bursali *(Türkiye)*

338 F088 Exofectin-5 from hADSC-conditioned medium rescues retinal function by reducing inflammation and apoptosis in rats with inherited retinal degeneration
Tu Wen Chen, Rong-Kung Tsai *(Taiwan)*

345 F089 *rf* Galectin-1 as a pathological inducer of microvascular leakage in diabetic retinopathy
Yiqing Xia, Amel Amara, Bruna Caridi, Nianhan Shang, Patric Turowski *(United Kingdom)*

346 F090 Retinal detachment as an initial manifestation of evolving pediatric Behçet disease: An early diagnostic pitfall
Gargouri Salma, Ben Elouaer Wiem, Tarek Souhayb, Kaibi Imen, Jmal Imen, Saloua Ben Amor, Amira Trigui *(Tunisia)*

357 F091 Artificial Intelligence in inherited retinal diseases: Diagnosis, segmentation, and prognostic modelling
Anna Gkoritsa, Konstantinos Tyrlis, Stylianos Kandarakis, Ilias Georgalas, Eirini Maliagkani *(Greece)*

358 F092 Efficacy and safety of Faricimab in retinal vein occlusion–related macular edema: A systematic review
Aikaterini Chatzara[1], Dimitra Mitsopoulou[2], Anastasia Tsiogka[1], Ilias Georgalas[1], Eirini Maliagkani[1] *([1]Greece, [2]United Kingdom)*

360 F093 Beyond accuracy: A multidimensional framework for reliable AI in ophthalmology
Eirini Maliagkani[1], Ioannis Apostolopoulos[1], Andreas Katsimpris[2], Michail Chatzianastasis[3], Spyridoula Kamvasi[1], Panagiotis Malamos[1], Ilias Georgalas[1], Elpiniki Papageorgiou[1]
([1]Greece, [2]United Kingdom, [3]France)

363 F094 Benchmarking zero-shot vision–language models for OCT diagnosis
Michail Chatzianastasis[1], Eirini Maliagkani[2], Dimitris Katsiros[2], Ioannis Apostolopoulos[2], Aikaterini Chatzara[2], Marina Vlasopoulou[2], Elpiniki Papageorgiou[2], Konstantinos Droutsas[2], Ilias Georgalas[2] *([1]France, [2]Greece)*

366 F095 Deep learning and image processing-based vascular metrics for early detection of hypertensive retinopathy: a clinical validation study
Ceren Durmaz Engin[1], Efekan Bilen[1], Barbaros Unlu[1], Mustafa Selver[1], Andrzej Grzybowski[2] *([1]Türkiye, [2]Poland)*

370 F096 Rabbit xenograft model for Retinoblastoma
Ida Kolehmainen[1], Eetu Valkama[1], Sonja Korhonen[2], Elisa Toropainen[1], Mikko Kettunen[1], Vesa Kärjä[1], Jussi Paterno[1], Mika Reinisalo[1], Tatu Lajunen[1] *([1]Finland, [2]Japan)*

371 F097 Assessment of choroidal vascular hyperpermeability on indocyanine green angiography and its association with retinal changes in central serous chorioretinopathy
Dmitri Artemiev *(Switzerland)*

381 F098 From ocular findings to blood cancer: Acute leukemia revealed by Roth spots
Aïcha Raïs, Sara Ettouri *(Morocco)*

392 F099 Deep capillary plexus dominance in unilateral macular telangiectasia: OCTA insights from two challenging cases
Sena Özdek Aladağ, Bünyamin Kutluksaman *(Türkiye)*

394 F100 OCTA-CARE: A pipeline for OCTA image assessment, quantification, and analysis
Luisa Sanchez Brea[1], Adriana Falcao Neves[1], Nicolas Chateau[2], Theo van Walsum[1], João Barbosa Breda[3], Danilo Andrade de Jesus[1] *([1]The Netherlands, [2]France, [3]Portugal)*

398 F101 Exploring the application of fundus autofluorescence in inherited retinal diseases: Two case reports with completely reversed patterns
Shuangjun Lv *(China)*

413 F102 Choroidal melanoma presenting as retinal detachment with rapid metastatic progression despite tebentafusp therapy
Pablo Tejada González, Javier Ramos Duarte, Ana María Abad Pascual, Edurne De la Cámara Sahuquillo, Inmaculada Herrero Sánchez, Jorge Núñez Bueno, Carla Iglesia Lázaro, Adrián Arranz Álvarez, Cristina Calvo Simon, Luca Manuel Bueno Borghi, Carla Sánchez Remacha, Claudia Laborda Díaz, Francisco Javier Ascaso, Diana Perez Garcia, Juan Ibañez *(Spain)*

418 F103 Retinal and corneal microstructural alterations in asthma: disentangling the effects of inhaled corticosteroids using OCT angiography and specular microscopy
rf
Muhammed Emre Atli *(Türkiye)*

425 F104 Delayed treatment, good outcome: retinal arterial macroaneurysm
Rafaela Correia, Julio Brissos, Ana Magriço *(Portugal)*

427 F105 Results of decision suport tool in ophthalmology
Rosina Zakri, Nigel Davies *(United Kingdom)*

428 F106 In the carotid's shadow: complete visual recovery in ocular ischemic syndrome
Rafaela Correia, Nuno Rodrigues Alves, Diogo Maleita *(Portugal)*

433 F107 Ocular manifestations of tuberous sclerosis complex in childhood : Retinal, papillary and adnexal localizations
Iatissam El Belhadji, Soufiane Essamoud, Mohamed Elbelhadji *(Morocco)*

447 F108 Wet Age-Related Macular Degeneration (wetAMD) and Diabetic Macula Oedema (DME): the challenge of delivering equity of access to antibodies to vascular endothelial growth factor (aVEGF) in low and middle-income countries (LMIC) in the era of biosimilars
Marcela Votruba[1], Paul Cornes[1], Michael Muenzberg[1,2] *([1]United Kingdom, [2]Switzerland)*

464 F109 Evaluation of ocular biocompatibility of a silica drug delivery system in rabbits
Aleksandra Poluianova, Ville Pollari, Alexandra Robciuc, Mika Jokinen, Jukka Moilanen, Kai Kaarniranta, Lasse Leino *(Finland)*

468 F110 First experimental evidence of synergistic cone photoreceptor collapse induced by chemsex polypharmacy: unmasking the causal mechanism of poppers maculopathy
Víctor David Ayala Rivera, Cecilia Fernandez, Pedro De La Villa *(Spain)*

497 F111 AI-based quantitative analysis of fleck burden and choroidal vasculature in ABCA4-related retinopathy: regional comparison and correlation study
Alicia Mancebo Rojo, Angela Martínez-Sobrino, Rosa Alonso-Villalobos Chamorro, Laura Marcos Rodríguez, Rubén Cuadrado Asensio, María Arcas-Carbonell, Isabel Pinilla, Rosa María Coco Martín *(Spain)*

506 F112 A comprehensive review on early anti-VEGF in severe non-proliferative diabetic retinopathy (NDPR) without diabetic macular oedema (DMO)
Zuhaib Ehsan *(United Kingdom)*

513 F113 SAMADI: Oral glycoside supplement triterpenoid saponins for early and intermediate stageage-related macular degeneration (AMD): an exploratory randomised placebo-controlledtrial
Manjot Grewal[1], Katherine Ward[1], Alison Binns[1], Ashley Wood[1], Vera Silva[1], Krishna Pattni[1], Stephanie Gilbert[1], Rachel Lowe[1], Claire Nollett[1], Rebecca Playle[1], Joanna Smith[1], Hazel Taylor[1], Yunhee Lee[2], Tom Margrain[1], Marcela Votruba[1] *([1]United Kingdom, [2]Republic of Korea)*

518 F114 Comparison of manual wall-to-lumen ratio estimation methods in adaptive optics retinal imaging
Radim Kolar[1], Roman Jakubicek[1], Jan Odstrcilik[1], Franziska Rauscher[2] *([1]Czech Republic, [2]Germany)*

519 F115 Registration pipeline for reconstruction of adaptive optics retinal images from sequences
Radim Kolar[1], Vojtech Spacek[1], Franziska Rauscher[2] *([1]Czech Republic, [2]Germany)*

522 F116 PRISM (Pathological Retinal Image Sign Markup): a sign-level annotated fundus image dataset for explainable retinal disease diagnosis
Théodore Cousin, Ann-Pascale Guagnini, Coralie Hemptinne, Sébastien Jodogne *(Belgium)*

526 F117 Evaluation of the agreement between blue-light and green-light fundus autofluorescence of the macular atrophic area in ABCA4 related retinopathies. StargSpain
Maria Sopeña-Pinilla, María Arcas-Carbonell, Pablo Tejada González, Juan Ibañez, Laura Marcos Rodríguez, Angela Martínez-Sobrino, Rosa María Coco Martín, Isabel Pinilla *(Spain)*

527 F118 Changes in macular sensitivity assessed by repeated MAIA microperimetry in patients with type 1 Stargardt disease. Stargspain
María Arcas-Carbonell, Maria Sopeña-Pinilla, Javier Ramos Duarte, Diana Pérez-García, Elvira Orduna-Hospital, Rubén Cuadrado Asensio, Rosa Alonso-Villalobos Chamorro, Alicia Mancebo Rojo, Rosa María Coco Martín, Isabel Pinilla *(Spain)*

528 F119 Vascular and structural predictors of macular sensitivity in ABCA4-related retinopathy: A multimodal correlation study
Alicia Mancebo Rojo, Rosa Alonso-Villalobos Chamorro, Angela Martínez-Sobrino, Laura Marcos Rodríguez, Rubén Cuadrado Asensio, María Arcas-Carbonell, Maria Sopeña-Pinilla, Isabel Pinilla, Rosa María Coco Martín *(Spain)*

529 F120 PCARE-related retinal dystrophy resembling a Stargardt disease: a case report
Maria Sopeña-Pinilla, Marta Arias Álvarez, Maria Arruebo Muñio, María Arcas-Carbonell, Javier Mateo Gabas, Carmen Lahuerta Pueyo, Diana Cardesa Villanueva, Isabel Pinilla *(Spain)*

567 F121 Giant tear retinal detachment in patients with myopia: management and outcomes of 30 cases
Mohamed Kabbani *(Morocco)*

570 F122 Advancing retinal detachment diagnostics through Artificial Intelligence: a systematic review and meta-analysis
rf
Dimitra Mitsopoulou[1,2], Andreas Katsimpris[2], Petroula Mitri[1], Ioannis Apostolopoulos[1], Michail Chatzianastasis[3], Petros Petrou[1], Ilias Georgalas[1], Eirini Maliagkani[1] *([1]Greece, [2]United Kingdom, [3]France)*

574 F123 *rf*
Vials vs pre-filled syringes: incidence of faricimab-associated intraocular inflammation after 64,014 faricimab injections from a single centre in the United Kingdom
Annelore Figari[1], Toshit Varshney[1], Sukanya Mondal[1], Ella Preston[1], Ling Heng[1], Narciss Okhravi[1], Avinash Gurbaxani[1], Mark Westcott[1], Angela Rees[1], William Tucker[1], Niaz Islam[1], Robin Hamilton[1], Luke Nicholson[1], Ian Yeung[1], Andrea Montesel[1,2] *([1]United Kingdom, [2]Switzerland)*

576 F124 *rf*
Structural OCT biomarkers associated with macular edema in retinal vein occlusion: A cross-sectional study
Aymen Mabrouk, Sarra El Mansouri, Hajer Ben Amor, Ksiaa Imen, Khochtali Sana, Jelliti Bechir, Moncef Khairallah *(Tunisia)*

589 F125
Gas-in-eye wristbands: improving patient compliance and preventing avoidable vision loss after vitreoretinal surgery
Windsor Chao[1,2], Maninee Purohit[1], Hosam Abdalla[1] *([1]United Kingdom, [2]Canada)*

592 F126
Ciprofloxacin-triggered central serous chorioretinopathy persisting on a pachychoroid background: A case report
İdil Gülol, Doğukan Yaman, Mustafa Yücel *(Türkiye)*

600 F127
Risk stratification in acute posterior vitreous detachment: a structured evidence-based triage protocol
Miguel Castilla Marti *(Switzerland)*

624 F128
Vitreous amyloidosis in Taiwanese transthyretin Val30Met: sequential bilateral progression in an Ala97Ser-dominant population
Yu-Chun Pan, Cheng-Yung Lee *(Taiwan)*

629 F129
Feasibility of a suprachoroidal injection system using standard syringe and needle components in ex vivo porcine eyes
Bas van Hal, Wim Rosenquist, Sander Schootstra, Bart Kootte *(The Netherlands)*

635 F130
Unexpected vision decay following uncomplicated vitrectomy under peribulbar anesthesia: a case of paracentral acute middle maculopathy
Adrian Smedowski, Olga Rosa, Tomasz Wilczyński *(Poland)*

641 F131
Alterations in binocular contrast sensitivity in age-related macular degeneration
Yuliia Boieva, Pavel Bezditko, Olena Kaminska *(Ukraine)*

648 F132
Short-term evaluation of aqueous flare intensity and retinal morphology in patients treated with bevacizumab for diabetic macular oedema
Mikołaj Kuźniak, Justyna Niedzielska, Piotr Jurowski *(Poland)*

650 F133
Indocyanine green-enhanced infrared fundus autofluorescence in posterior uveitis
Matteo Belletti[1], Francesco Pichi[2], Irene Canal-Fontcuberta[1], Gloria Amorena[1], Felix Armadá Maresca[1], Ester Carreño Salas[1] *([1]Spain, [2]Canada)*

657 F134
FAROS Study: Intravitreal dual Ang-2/VEGF-A inhibition by Faricimab therapy in diabetic macular oedema – effect of treatment on vascular integrity and photoreceptor density visualised by adaptive optics flood-illumination camera (EU CT number: 2023-509829-52-00)
Franziska G. Rauscher[1], Ludwig Schubert[1], Tim Zenner[1], Kristin Wallstabe[1], Marlene Stein[1], Simone Kowoll[1], Radim Kolar[2], Georg Roehrborn[1], Joana Heinzelmann[1], Jens Heichel[1], Ricarda Wienrich[1], Beatrice Ludwig-Kraus[1], Melanie Zinkhan[1], Andreas Wienke[1], Mike Francke[1], Anja Viestenz[1], Arne Viestenz[1] *([1]Germany, [2]Czech Republic)*

660 F135
FAROS Study: Intravitreal dual Ang-2/VEGF-A inhibition by Faricimab therapy in diabetic macular oedema – effect of treatment on vascular integrity and photoreceptor density visualised by adaptive optics flood-illumination camera (EU CT number: 2023-509829-52-00)
Franziska G. Rauscher[1], Ludwig Schubert[1], Tim Zenner[1], Kristin Wallstabe[1], Marlene Stein[1], Simone Kowoll[1], Radim Kolar[2], Georg Roehrborn[1], Joana Heinzelmann[1], Jens Heichel[1], Ricarda Wienrich[1], Beatrice Ludwig-Kraus[1], Melanie Zinkhan[1], Andreas Wienke[1], Mike Francke[1], Anja Viestenz[1], Arne Viestenz[1] *([1]Germany, [2]Czech Republic)*

POS Poster Session YOUNG INVESTIGATOR SESSION

214 F136 Cell-type-resolved blood transcriptomics reveals systemic immune dysregulation associated with penetrance in Leber Hereditary Optic Neuropathy
David Wong, Patrick Yu-Wai-Man, NIHR BioResource Rare Diseases RNA Consortium *(United Kingdom)*

334 F137 Temporal proteomic mapping of NMOSD optic neuritis identifies inflammatory peak, endogenous remyelination, and chronic axonal degeneration
Shiqi Yao, Shaoying Tan *(Hong Kong)*

177 F138 Polyphenolic hydrazinyl-thiazole and quinazolin-4(3H)-one derivatives show enhanced antioxidant activity in treating age-related macular degeneration
Răzvan-Geo Antemie, Ovidiu Ciprian Samoilă, Ximena Mureșan, Gabriel Marc, Raluca Pele, Simona Valeria Clichici *(Romania)*

218 F139 An AND versus OR study of retinopathy of prematurity screening criteria in a Mexican secondary-level hospital: a Latin American counterpart study
Diego Aguilar-García *(Mexico)*

Poster Session 3

11:50-12:55

POS Poster Session COS

116 S001 Contrast sensitivity and higher order aberrations in patients with keratoconus after corneal collagen cross- linking
Asaad Ghanem *(Egypt)*

120 S002 Bacteriophage therapy for ocular infections: real-world clinical outcomes in 79 patients with antibiotic resistance
Nino Karanadze, Gigi Gorgadze, Tinatin Kilasonia *(Georgia)*

125 S003 Rare case of orbital metastasis from lung cancer
Ameerah Ilyas, Ahmed Hussien *(United Kingdom)*

159 S004 Regional changes in epitelial and corneal thickness induced by scleral lenses
Juan Queiruga-Piñeiro, Alberto Barros, Ignacio Rodriguez-Una, Jesus Merayo-Lloves *(Spain)*

164 S005 Reproducibility of tear ferning test classification by human examiners and Artificial Intelligence models: a comparative study
rf
Guilherme Bernardes, Felipe Casseb dos Santos, Niro Kasahara, Lucas Paolera, Paulo Dantas, Élcio Sato, Bernardo Moscovici, Sérgio Felberg *(Brazil)*

170 S006 Rupture of Descemet's membrane secondary to forceps-assisted delivery
Alaa Ghorbel, Nesrine Zaafrane, Mohamed Ghorbel *(Tunisia)*

171 S007 Long-term treatment outcomes of Topical tacrolimus ointment therapy for acute Stevens-Johnson syndrome/toxic epidermal necrosis
Young Joon Choi, Seokoh Lee, Hanju Kim *(Republic of Korea)*

173 S008 Astragaloside IV enhances corneal epithelial cell viability and protects against oxidative stress: implications for dry eye disease therapy
Paul Emesz, Patrizia Osterhuber, Carla Funke, Barbara Brunner, Siegfried Priglinger, Andreas Ohlmann, Stefan Kassumeh *(Germany)*

178 S009 Predictors of clinically significant neurotrophic epitheliopathy after LASIK
Yuliya Markava, Volha Remezava, Galina Semak, Hleb Krishtopenka, Andrei Liudchyk *(Belarus)*

189 S010 MicroRNA profiling in severe aqueous-deficient dry eye: epigenetic persistence despite clinical response to ciclosporin A
Emily Greenan[1], Niamh Connolly[1], Stephen Madden[1], Iqbal Khan[2], Fiona O'Neill[1], Fiona O'Connell[1], Ciaran McDonnell[1], Elizabeth Vandenberghe[1], Eibhlin Connelly[1], Jennifer Dowling[1], Stephanie Annett[1], Marcos Castellanos-Uribe[2], Jacintha O'Sullivan[1], Conor Murphy[1], Joan Ní Gabhann-Dromgoole[1] *([1]Ireland, [2]United Kingdom)*

192 S011 High-risk ocular surface: corneal melt following membranous conjunctivitis in a controlled Sjögren syndrome patient
Alejandra Artiles, Guadalupe Garrido Ceca, Silvia Iglesias Cerrato *(Spain)*

193 S012 Potential causal association between dyslipidemia and pterygium: A two-sample mendelian randomisation study
Je Hyun Seo *(Spain)*

203 S013 Targeted tear fluid proteomics uncovers reduced adhesion G protein-coupled receptor B3 in thyroid eye disease
Mikael Thomassen Neset, Bjørnar Kamøy, Klaus Meyer, Kathrine Halsøy, Grethe Åstrøm, Kristian Løvås, Eystein Sverre Husebye, Tor Paaske Utheim, Eyvind Rødahl, Hans Olav Ueland *(Norway)*

213 S014 *rf*
Bilateral pseudopterygium and postoperative corneal perforation revealing ocular-limited granulomatosis with polyangiitis
Takayuki Fukusaka[1,2], Yuya Saito[1], Daisuke Shimizu[1] *([1]Japan, [2]United States)*

227 S015
Ultrastructural diagnosis of the ocular surface: the role of CitoSEM (impression citology in scanning and Trasmission electron Microscopy) in evaluating microvilli distress in Dryeye sindrome
Salvatore Del Prete, Antonio Del Prete, Daniela Marasco *(Italy)*

239 S016
Understanding post-operative Dry Eye Disease (DED) and the role of sodium hyaluronate eye drops: a questionnaire-based survey
Roseline Patel, Sandhya Das *(India)*

241 S017
Quantitative characterization of optical scattering by keratocytes in healthy and edematous human cornea by Line-field Confocal Optical Coherence Tomography (LC-OCT)
Maëlle Bouhassane, Nuno Vivas Brás, Anatole Chessel, Karsten Plamann *(France)*

244 S018 *rf*
An automated slit lamp for rapid, standardized high resolution anterior segment imaging for screening, telemedicine and large-scale AI dataset generation
Marvin Bende, Immanuel Seitz, Felix Reichel, Kai Rückheim, Theo Oltrup, Torsten Strasser, Karl Bartz-Schmidt *(Germany)*

248 S019 *rf*
Evaluation of near-infrared light effects on human corneal cells
Sadia Perveen, Philippe Fonteyne, Silvia Palombella, Giulio Ferrari *(Italy)*

255 S020
Seasonal characteristics, delayed presentation, and nursing strategies for fungal keratitis in Northern China
Shuang Li, Jing Wang, Lijuan Zhang *(China)*

259 S021 *rf*
Immunomodulatory and regenerative effect of mesenchymal stem cells and their extracellular vesicles on corneal epithelium
Ana Kolenc, Elvira Maličev, Zala Lužnik Marzidovšek *(Slovenia)*

265 S022
Evaluation of tolerance and efficacy of a cross-linked umbilical cord intracorneal ring model in a bioreactor
Emmanuel Crouzet, Marie-Caroline Trone, Flora Pinoli, Philippe Gain, Gilles Thuret, Lora Martin, Laurence Barnouin *(France)*

281 S023
Comparison of endophthalmitis rates with Aqueous Chlorhexidine versus Povidone-Iodine: a systematic review
Katrine Mikha[1], Hande Coskun[1], Christian Rasmussen[1], Jens Rovelt Andreasen[1], Gianni Virgili[2], Miriam Kolko[1] *([1]Denmark, [2]Italy)*

284 S024
The impact of environmental adjuvants on ocular allergic sensitization: a multidisciplinary analysis
Antonella Cicale, Daniela Marasco, Salvatore Del Prete, Antonio Del Prete *(Italy)*

293 S025 *rf*
Intracameral penetration and ocular safety of high-concentration topical ganciclovir
Seeun Park[1], Jin A Choi[1,2], Ji Young Lee[1] *([1]Republic of Korea, [2]United States)*

307 S026
Adhesion behavior of human corneal endothelial cells on diseased Descemet's membrane in fuchs endothelial corneal dystrophy
Andreas Gießl[1], Theofilos Tourtas[1], Julia Weller[1], Shigeru Kinoshita[2], Ursula Schlötzer-Schrehardt[1], Friedrich Kruse[1] *([1]Germany, [2]Japan)*

311 S027 *rf*
Vitamin D supplementation stabilizes keratoconus progression by modulating systemic inflammation
Giuseppe Suanno, Leonardo Latino, Nicolò Bartolomeo, Matteo Pederzolli, Silvia Palombella, Philippe Fonteyne, Gianluca Tilaro, Stefano de Pretis, Francesca Borgo, Federico Bertuzzi, Carlotta Senni, De Micheli Massimo, Francesco Bandello, Giulio Ferrari *(Italy)*

312 S028
Stage-specific modulation of corneal remodeling after TransPRK
Volha Remezava, Yuliya Markava, Galina Semak, Hleb Krishtopenka, Andrei Liudchyk *(Belarus)*

317 S029 *rf*
Antisense oligonucleotide eye drops against IRS-1 to optimize pretransplant lymphangioregression prior to high-risk keratoplasty – Previous evidence and the design of the olisens-precon study
Mert Mestanogl, Johanna Wiedemann, Felix Bock, Claus Cursiefen *(Germany)*

318 S030
Impact of isotretinoin treatment on corneal innervation assessed by in vivo confocal microscopy
Alberto Barros, Javier Lozano-Sanroma, Juan Queiruga-Piñeiro, Luis Fernandez-Vega, Jesus Merayo-Lloves *(Spain)*

327 S031
Stevens–Johnson syndrome: Boston KPro II implantation as an effective treatment option for severe ophthalmic complications
Yuliia Ostapenko, Tetiana Zhmud *(Ukraine)*

335 S032
Corneal endothelial cell loss after intraocular surgery: a comparative review of cataract, glaucoma, and vitreoretinal procedures
Nafsika Voulgari, Parwez Hossain *(United Kingdom)*

342 S033
Xanthohumol modulates human corneal epithelial cell integrity and resilience against H2O2-induced oxidative stress
Stefan Kassumeh, Paul Emesz, Barbara Brunner, Carla Funke, Patrizia Osterhuber, Siegfried Priglinger, Andreas Ohlmann *(Germany)*

352 S034
Effects of 12-month preserved human serum on proliferation and wound healing of human corneal epithelial cells in vitro
Zhiguo He, Gauthier Travers, Elodie Jacqueroux, Marie-Caroline Trone, Philippe Gain, Gilles Thuret, Freddy Mounsef *(France)*

354 S035
Safety and feasibility of the in vivo ophthalmic application of Line-Field Confocal Optical Coherence Tomography for near-histological anterior segment imaging in rabbits
Emmanuel Crouzet, Jonas Ogien, Jean Marc Dumollard, Chantal Perrache, Jean-Luc Perrot, Philippe Gain, Arnaud Dubois, Gilles Thuret *(France)*

364 S036 *rf*
Fibrosis during Fuchs Endothelial Corneal Dystrophy is promoted by a positive feedback loop via Collagen I / Integrin a11 axis
Marion Fros, Nihan Demiralay, Sara Malekmohammadikakhki, Xinlei Zhao, Mert Mestanoglu, Hardik Makwana, Thomas Clahsen, Arif Ekici, André Reis, Mario Matthaei, Claus Cursiefen, Björn Bachmann, Margarete Odenthal *(Germany)*

375 S037
In silico characterization of the biomechanical performance of the GROSSO® reshaper implantation in patient-specific keratoconic corneas
Graziana Ragonese[1], Benedetta Fantaci[2], Dario Carbonaro[1], Sandra Suescun Busto[2], Jose Güell[2], Edoardo Grosso[1], Rossella Baldini[1], Moses Kakanga[1], Emiliano Lepore[1], Diego Gallo[1] *([1]Italy, [2]Spain)*

378 S038
Emergency management of non-traumatic corneal perforations using tissue adhesives: a clinical case series and literature review
Sara Ettouri, Es-samery Oumama, Inass Knineh, Hajar El Ayouki *(Morocco)*

387 S039
What's that dendritis? An atypical case of corneal intraepithelial neoplasia
Ricardo Costa-Gertrudes, João Pedro Antunes, Teresa Miranda, Daniel Balula, Júlio Brissos, João Feijão *(Portugal)*

402 S040 *rf*
Measuring NfL, GFAP and Total-Tau in tear fluid, a pilot study in Huntington's Disease
Jente Schmeetz, Jasmijn van der Vleuten, Elke Pirlet, Ward van Deurse, Nienke van de Sande, David E.J. Linden, Inez H.G.B. Ramakers, Mayke Oosterloo, Marlies Gijs *(The Netherlands)*

416 S041
Difficulties in diagnosing keratoconus patients: a survey study
Serpil Kaya, Burcin Cakir, Büşra Güner Sönmezoğlu *(Türkiye)*

417 S042 Ocular signs and symptoms do not correlate in Sjögren's syndrome
Leonardo Latino, Giuseppe Suanno, Luca Moroni, Veronica Batani, Nicolò Foroni, Gabriele Gallina, Gianluca Tilaro, Filippo Bonelli, Fabiola Campestre, Lorenzo Dagna, Massimo De Micheli, Francesco Bandello, Giulio Ferrari *(Italy)*

423 S043 Bilateral vortex keratopathy associated with ribociclib in metastatic breast cancer
rf
Shen Li, Ines Lanzl *(Germany)*

439 S044 How geomorphology can help us understand the formation of Guttae in Fuchs' endothelial corneal dystrophy
Gilles Thuret, Sylvain Poinard, Oliver Dorado Cortez, Zhiguo He, Fanny Decoeur, Etienne Gontier, Michel Salzet, Gauthier Travers, Philippe Gain, Corantin Maurin *(France)*

445 S045 Segmentation of endothelial lesions shown by high-resolution reflection-free retroillumination in Fuchs endothelial corneal dystrophy
Oliver Dorado Cortez, Gaspard Langlais, Yann Gavet, Jean Charles Pinoli, Philippe Gain, Gilles Thuret, Corantin Maurin *(France)*

476 S046 The impact of gender and age on corneal neovascularization: a 20-year retrospective study
rf
Maite López-López, Nicolò Bartolomeo, Cecilia Acuti Martellucci, Philippe Fonteyne, Giulio Ferrari *(Italy)*

483 S047 Post-traumatic corneal foreign body management: total flap amputation as a definitive solution in post-LASIK eyes
Liudmyla Ivzhenko, Armen Prokipets *(Ukraine)*

489 S048 Comprehensive functional rehabilitation of complex combat-related corneal trauma via customized advanced surface ablation
Liudmyla Ivzhenko, Armen Prokipets *(Ukraine)*

492 S049 Monotherapy with PHMB 0.08% as 'Switch Treatment' in complex cases of acanthamoeba keratitis. Report of two cases
rf
Eleftherios Chatzimichail, Isabel Stasik, Ceren Ece Semiz, Zisis Gkatzioufas *(Switzerland)*

493 S050 Femtosecond laser–assisted corneal allogenic intrastromal ring segment implantation following explantation of synthetic intracorneal ring segments in advanced keratoconus. A case report
Ceren Ece Semiz, Jacqueline Fröhlich, Eleftherios Chatzimichail, Zisis Gkatzioufas *(Switzerland)*

494 S051 Botulinum toxin a injection in patients with upper eyelid retraction secondary to thyroid orbitopathy: clinical outcomes and influencing factors
Gaye Dalkıran Vural, Hatice Deniz İlhan *(Türkiye)*

496 S052 Wessely-type immune ring after CXL: a case series
Inês Mendo, Mariana Vaz, João Vaz, David Costa, Inês Machado, Filipe Moraes, Tomas Loureiro, Nuno Campos *(Portugal)*

503 S053 Hyperopic residual refraction and presbyopia correction with lenticule transplantation following LASIK
rf
Fetih Furkan Arslan, Njomza Hima-Musa, Gökçe İdil Semiz, Faruk Semiz *(Kosovo)*

511 S054 Corneal epithelial thickness changes after Sjögren syndrome-associated dry eye disease treatment
rf
João Vaz, Mariana Vaz, Inês Mendo, Nelvia Donaire, Nuno Campos, Tomas Loureiro *(Portugal)*

512 S055 Impact of TNF inhibitors and biologic therapy on mortality rate in patients with Rheumatoid-Arthritis-Associated Corneal Ulceration (RACU)
Humza Hossain, Harinderjeet Sandhu, Parwez Hossain *(United Kingdom)*

532 S056 Angptl-4 Is a novel regulator of corneal lymphangiogenesis and limbal vessel architecture
Thomas Clahsen[1], Niloofar Hatami[1], Christian Büttner[1], Felix Bock[1], Sander Kersten[2], André Reis[1], Claus Cursiefen[1] *(Portugal)*

547 S057 *rf*
ABCB5+ limbal mesenchymal stem cell population in pterygium pathogenesis
Johanna Mann[1], Thomas Volatier[1], Berbang Meshko[1], Markus H. Frank[2,3], Natasha Y Frank[2], Christoph Ganss[1], Mark A Kluth[1], Bruce R Ksander[2], Stefano Ugliano[1], Katarzyna Bozek[1], Claus Cursiefen[1], Maria Notara[1] *([1]Germany, [2]United States, [3]Australia)*

580 S058
When severe corneal ulcer reveals a hidden parasite: a case report
Syarah Nandya Dinnarwika, Afifa Prima Gitta *(Indonesia)*

581 S059
The evaluation of accelerated corneal cross-linking in pediatric keratoconus
Asel Kerimbaeva, Büşra Güner Sönmezoğlu, Burcin Cakir, Emine Doğan *(Türkiye)*

586 S060 *rf*
Altered tear ceramide profile in vernal keratoconjunctivitis
Shobhit Gupta, Shweta Agarwal, Angayarkanni Narayanasamy, Nabanita Halder, Madhu Nath, Thirumurthy Velpandian *(India)*

604 S061
Multimodal anterior segment diagnostic techniques as a decision-making reinforcement in fulminant bacterial keratitis: a case report
Aleksandra Ociepka, Wojciech Luboń, Monika Sarnat-Kucharczyk, Mariola Dorecka, Adrian Smedowski *(Poland)*

608 S062
Pediatric keratoconus: five-year follow-up of standalone intrastromal corneal ring segment implantation
Vera Sá Araújo, Francisca Maia, Daniel Abilheira, Rui Silva, Christophe Pinto, Nuno Franqueira, Tiago Monteiro *(Portugal)*

626 S064
Comparative performance of large language models in the evaluation of corneal tomography
Filippo Lixi[1], Mario Troisi[1], Andrea Taloni[1], Costanza Rossi[1], Andrzej Grzybowski[2], Claudia Corda[1], Valerio Calabresi[1], Antonio Budroni[1], Camilla Bianchi[1], Giulia Coco[1], Giuseppe Giannaccare[1] *([1]Italy, [2]Poland)*

631 S065
Long-term results of descemet stripping automated endothelial keratoplasty versus Descemet membrane endothelial keratoplasty
Andrea Taloni, Raphael Kilian, Silvia Cantiero, Valentino De Ruvo, Nicolò Ciarmatori, Pietro Bergamaschi, Linda Marie Louise Busin, Rossella Spena, Niccolò Salgari, Cristina Bovone, Massimo Busin *(Italy)*

636 S066 *rf*
Detection of Acanthamoeba coinfections in refractory infectious keratitis revealed by scanning electron microscopy
Mario Troisi, Salvatore Troisi, Salvatore Del Prete *(Italy)*

637 S067
Synergistic diagnostic approach in Pseudomonas aeruginosa kerato-conjunctivitis:correlating Scanning Electron Microscopy (SEM) ultrastructural analysis withconventional microbiological culture
Antonio Del Prete, Salvatore Del Prete, Daniela Marasco, Salvatore Troisi, Mario Troisi *(Italy)*

646 S068
Saving fungal sclerokeratitis associated with panendophthalmitis : sclerocorneal transplantation with temporary keratoprosthesis for complete intraocular rehabilitation
Thibaud Garcin, Lilia Merabet, Borderie Vincent, Christophe Baudouin, Nacim Bouheraoua *(France)*

647 S069
Survival analysis rates after initial conventional, accelerated or iontophoresis CXL for Keratoconus : 10-year analysis in a french referral center
Thibaud Garcin, Malika Hamrani, Nacim Bouheraoua, Borderie Vincent *(France)*

652 S070 *rf*
Orthokeratology in adults: our clinical experience
Olena Kaminska, Yuliia Boieva, Natalia Bachuk *(Ukraine)*

658 S071
Pitx2 mutation–induced glaucoma reveals corneal innervation and sensory sex-dependent alterations
Solange Sarkis, Bianca Johansen, Chloé Chamard, Cécile Delettre, Frédéric Michon *(France)*

POS Poster Session EOVS

119 S072 *rf*
Targeted item reduction of a low vision visual functioning questionnaire
Zi Jin[1], Abeer Shuja[2], Priyanka Roy[2], Chris Bradley[2], Gislin Dagnelie[2] *([1]United Kingdom, [2]United States)*

131 S073
Variables that affect the parameters of the 'yellow' match
John Barbur, Marisa Rodriguez Carmona *(United Kingdom)*

174 S074
Slowing myopia progression with a novel spectacle lens – 1 year, randomized double-masked, cross over clinical trial
Linlin Du[1], Xiangui He[1], Padmaja Sankaridurg[2] *([1]China, [2]Australia)*

221 S075
Early homeostatic plasticity of intrinsic excitability in visual thalamus reveals a dynamic interface with activity-dependent mechanisms
Aurore Aziz, Fronzaroli-Molinieres Laure, Bonnaure Cecile, Dumenieu Mael, Emilie Zanin, Daniele Denis, Dominique Debanne, Michael Russier *(France)*

236 S076
Effects of comorbidities and assistive technology use in a low vision visual functioning questionnaire
Zi Jin[1], Annie Pan[2], Priyanka Roy[2], Chris Bradley[2], Arathy Kartha[2], Brittnee Livingston[2], Gislin Dagnelie[2] *([1]United Kingdom, [2]United States)*

261 S077
Efficacy and safety of Binocular Effective Spiral Technology (B.E.S.T.) spectacles in controlling myopia progression: a randomized clinical trial
Mingjin Wang, Linlin Du, Xiangui He *(China)*

266 S078 *rf*
Mitochondrial TSPO modulation preserves retinal function and structure in diabetic retinopathy by attenuating oxidative stress
Francesca Corsi, Alessia Galante, Rosario Amato, Sabrina Taliani, Federico Da Settimo, Maurizio Cammalleri, Ilaria Piano, Massimo Dal Monte, Claudia Gargini *(Italy)*

296 S079
Diabetes-related knowledge, attitude, and practice in Armenia: A cross-sectional study
Aida Giloyan, Tsovinar Harutyunyan, Varduhi Petrosyan *(Armenia)*

300 S080 *rf*
Can adaptation to homonyomous visual field defects be measured with SONDA eye movement perimetry?
Minke de Boer, Anne Vrijling, Gera de Haan, R.J. Renken, J.B.C. Marsman, Nomdo Jansonius, Frans Cornelissen *(The Netherlands)*

320 S081 *rf*
Association of axial length, age and sex with refractive status in a population-based cohort
Kristy T. Rodríguez-Ramírez, Ralph Michael, Kerstin Wirkner, Christoph Engel, Markus Loeffler, Toralf Kirsten, Franziska G. Rauscher *(Germany)*

325 S082
Model-dependent neuroprotective effects of saffron and tepal extracts (Repron®) in rat models of retinal degeneration
Alessia Galante[1], Johnny Di Pierdomenico[2], Ilaria Piano[1], María Norte Muñoz[2], Francesca Corsi[1], Maria Maggi[1], Silvia Bisti[1], Claudia Gargini[1], Diego García-Ayuso[2] *([1]Italy, [2]Spain)*

341 S083
Myopia-related change of optic disc occur before myopia onset in school-aged children
Tianxiao Wang, Haotian Wu, Xiangui He *(China)*

349 S084
Visual consequences and benefits from video games: a narrative review
Bruce Evans[1], Benjamin Evans[1], Rakhee Shah[1], Natalia Vlasak[2] *([1]United Kingdom, [2]The Netherlands)*

350 S085 *rf*
Navigating visual communication: saccades as the primary determinants of vision use in social interaction among older adults
Andrea Paulik, Sonja Alimović, Matea Kasun Luburić *(Croatia)*

369 S086 Large Language Models: Flawless performance is a myth—even for machines
Dmitri Artemiev *(Switzerland)*

393 S087 *rf* The effects of stimulus luminance on the ISCEV-Standard multifocal electroretinogram and on observer comfort
Husnain Karim, Andrew Carter, Magella Neveu, Anthony Robson *(United Kingdom)*

406 S088 Challenges associated with Nagel Anomaloscope matches
Marisa Rodriguez-Carmona, Aiman Hafeez, John Barbur *(United Kingdom)*

455 S089 *rf* Can pupillary responses reveal intrinsically photosensitive retinal ganglion cell (ipRGC) functional impairment in treatment-resistant depression?
Inês Pais, Ana Cláudia Rocha, Rúben Magalhães, João Borges, Nuno Rocha, Catarina Mateus *(Portugal)*

462 S090 Association between sleep habits and myopia in spanish children aged 5 to 7 years
Miguel Angel Sanchez-Tena, Ana Gonzalez-Abad, Cesar Villa-Collar, Mariano Gonzalez-Perez, Cristina Alvarez-Peregrina *(Spain)*

480 S091 *rf* Investigating the relationship between size and coherence in a novel motion perception paradigm
Richard Connors[1,2], Frans Cornelissen[2], Bjorn Helland-Hansen[1], Minke de Boer[2], Frank Lindseth[1]
([1]Norway, [2]The Netherlands)

482 S092 *rf* Diagnostic value of electrophysiology in pediatric ophthalmology patients in Greece
Anna Nikolaidou[1], Stavrenia Koukoula[2], Theodora Gianni[1], Lampros Lamprogiannis[1], Athanasia Sandali[1] *([1]Germany, [2]Greece)*

486 S093 *rf* Chromatic Pupillometry in ABCA4-related maculopathy: a possible additional biomarker of visual disfunction?
Rocco Mastromartino, Benedetto Falsini, Andrea Coppè, Alessia Amato, Alessandro Cappelli, Giancarlo Iarossi *(Italy)*

490 S094 Effects of cannabinoid CB2 receptor modulation on visual cortical dynamics
Christian Casanova, Capucine Mandel, Nelson Cortes Hernandez *(Canada)*

502 S095 Artificial Intelligence in refractive surgery: from risk prediction to personalized surgical decision-making
Manal Timoulal, Sara Ettouri, Es-samery Oumama *(Morocco)*

553 S096 Goldilocks, AI and medical education
Benjamin Evans[1], Mehal Rathore[1], Dason Evans[2] *([1]United Kingdom, [2]Malta)*

566 S097 *rf* Axial length responses to ON and OFF stimulation using a vr headset in myopes and emmetropes
Anna Nikolaidou, Frank Schaeffel, Torsten Strasser *(Germany)*

584 S098 *rf* Early-phase metrics for cone-mediated dark adaptation measured in aging and AMD
Beatriz Sánchez Gavilán[1], MC Puell1, Shrinivas Pundlik[2] *([1]Spain, [2]United States)*

606 S099 Quantifying comatic aberration in diopters: an MTF-based pupil-invariant metric
Gabriel Martin, Gervasio Perez *(United States)*

607 S100 Gain in visual acuity with newly developed spectacles:Halley comatic Lenses
Rafael Iribarren[1], Gabriel Martin[1], Roberto Albertazzi[2], Gervasio Perez[1], Sabrina Diaz[2]
([1]United States, [2]Argentina)

659 S101 Short-term changes in choroidal perfusion density with different ambient light conditions in healthy young adults
Azam Darvishi, Scott A. Read, Stephen J. Vincent, David Alonso-Caneiro *(Australia)*

POS Poster Session LC

110 S102 Association between irrigation–aspiration cannula design and post-cataract endophthalmitis: a retrospective observational study of 12,299 consecutive surgeries
rf
Kaushal Pillai Syam, Padmanabha Pillai Syam, Stephen Hannan *(United Kingdom)*

202 S103 Outcomes of lens extraction with intraocular lens implantation in cornea plana
Elsa-Leea Kotola, Claudia Taipale, Sanna Mörtenhumer, Kari Krootila, Joni Turunen, Anna Majander *(Finland)*

211 S104 12-month clinical outcomes of a new trifocal intraocular lens compared with two multifocal intraocular lenses
Ji Youn Choi, Yeo Kyoung Won, Jisang Han, Dong Hui Lim *(Republic of Korea)*

268 S105 Reduced peripheral contrast sensitivity in pseudophakic eyes is associated with increased refractive errors
rf
Dilce Tanriverdi, Lucille Prendergast, Antonio Del Águila-Carrasco, Sara El Aissati, Carmen Canovas Vidal, Frans Cornelissen *(The Netherlands)*

283 S106 Analysis of systemic blood pressure and pulse rate fluctuations during sequential steps of phacoemulsification
Younghwan Bae, Ji Sang Min, Ikhyun Jun, Tae-im Kim, Kyung Yul Seo *(Republic of Korea)*

313 S107 Immersive simulation of posterior capsular rupture for resident training
Frédéric Mouriaux[1], Issam Tanoubi[2], Arnaud Huaulme[1], Ilian Cruz-Panesso[2], Joelle La coste de la Mirande[2], Simon Trottier[2], Ralph Kyrillos[2], Isabelle Hardy[2], Pierre Jannin[1], Gilles Martin[1]
([1]France, [2]Canada)

329 S108 Adjusted constant optimization for Canabrava four-flanged scleral fixation: refractive predictability in eyes without capsular support
Ji Kyu Yun, Seongho Kim *(Republic of Korea)*

408 S109 Two potential mechanisms to soften the chicken's crystalline lens
Shilpa Gorla, Vivian Choh *(Canada)*

516 S110 Effect of capsular tension ring on early anterior capsular contraction after cataract surgery: a prospective paired-eye study
Diogo Sousa Marques, Ana Clara Ribeiro, Filipe Sousa Neves *(Portugal)*

530 S111 Assessment of anterior lens curvature during accommodation using conic fitting of scheimpflug images
María Arcas-Carbonell, Elvira Orduna-Hospital, María Mechó-García, Guisela Fernández-Espinosa, Maria Sopeña-Pinilla, Isabel Pinilla, Ana Sánchez Cano *(Spain)*

554 S112 The influence of preoperative corneal and pupillary metrics on functional depth after implantation of extended depth of focus intraocular lenses
João Vaz, Mariana Vaz, Inês Mendo, Filipe Moraes, Inês Machado, Nelvia Donaire, Nuno Campos, Tomas Loureiro *(Portugal)*

573 S113 From emergency suturing to Gore-Tex fixation: timely management of a penetrating ocular trauma
Antonia Carmen Sangregorio, Emanuele Tonti, Andrea Taloni, Lucia Ziccardi, Adriano Carnevali, Roberto dell'Omo *(Italy)*

599 S114 Influence of fixation axis on anatomical stability and refractive outcomes in yamane fixation
Ali Altan Ertan Boz, Bülent Çüçen, Dilek Çelebi Yılmaz, Muhammed Onur Ok *(Türkiye)*

645 S115 Inequitable access to healthcare in nursing homes in Belgium
Zahra Javdani Sanatgar Moghaddam[1], Guido Vanhal[1], Frank Goes[1], Robert Kuijpers[2], Ron Adelman[3], Annabel Sels[1], Dominique Bremond-Gignac[4]
([1]Belgium, [2]The Netherlands, [3]United States, [4]France)

651 S116 Predictors of early visual outcome after cataract surgery during a medical outreach mission in rural Tanzania: a multi-year observational study
Krzysztof Eder, Paulina Langosz, Iwona Filipecka, Agnieszka Kudasiewicz-Kardaszewska, Wiktoria Pytrus *(Poland*

POS Poster Session PBP

117 S118 Urolithin a reverses TGF-β2-induced trabecular meshwork fibrosis by promoting parkin-independent mitophagy
rf
Wangshu Yu, Qin He *(China)*

140 S119 Link between choroidal thickness and HIF-1α signalling in myopic and hyperopic chicks, and a glimpse into the human choroid
rf
Anna Sofia Castells Nieto[1], Falk Schrödl[2], Ute Mathis[1], Alexandra Kaser[2], Sandra Bernhard-kurz[1], Christian Platzl[2], Marita Feldkaemper[1] *([1]Germany, [2]Austria)*

155 S120 A human pharmacogenomics approach provides insight into the pathogenesis and pathophysiology of steroid-induced ocular hypertension
Stephen Schwartz[1], Zeyuan Song[1], Satyabrata Pany[1], Shengru Guo[1], Arpan Mazumder[1], Tatsuo Itakura[1], Penelope Benchek[1], Francis Price, Jr.[1], Srujana Chitipothu[2], Jonathan Lass[1], Sudha Iyengar[1], Anthony Griswold[1], Paola Sebastiani[1], Marianne Price[1], M. Fini[1] *([1]United States, [2]India)*

194 S121 Role of 5'AMP activated kinase (AMPK) during myopia and hyperopia development in the chick choroid
rf
Mayank Mishra, Marita Feldkaemper *(Germany)*

219 S122 Roles of fatty acids in inflammatory pathways of sepsis-associated retinal damage human
rf
María José Ruiz-Pastor, Jhoana Abigail Guarnizo-Campoverde, María Norte Muñoz, Jesus Isais Gil Chinchilla, David García Bernal, Marta Agudo-Barriuso *(Spain)*

222 S123 Role of taurine in regulating phagocytic function of the retinal pigment epithelium
Johnny Di Pierdomenico, Ana Martínez Vacas, Luis Mario López-Jaén, Maria del Mar Lozano, Maria Paz Villegas Perez, Diego García-Ayuso *(Spain)*

256 S124 Biobank of aqueous humor and serum in major ocular diseases analysed by surface-enhanced Raman spectroscopy: preliminary results and proof of concept
Marin Radmilović, Goran Marić, Tena Križ, Rašeljka Tadić, Ante Vukojević, Monika Zrinski, Armin Kasumović, Ines Matoc Kasumović, Valentina Lacmanović Lončar, Ivanka Petric Vicković, Renata Iveković, Katia Novak-Lauš, Jelena Škunca Herman, Mia Zorić Geber, Zoran Vatavuk *(Croatia)*

278 S125 DIA-based proteomics confirms phaco cassette samples as a surrogate for native human lens tissue
rf
Christina Karakosta[1], Martina Samiotaki[1], Kyriakidou Nantieznta[1], Konstantinos Moschou[1], Anastasios Bisoukis[2], George Parayotou[1], Marilita Moschos[1] *([1]Greece, [2]United States)*

299 S126 Design and methodology of a multicenter collaborative study to analyze inflammatory proteins in the aqueous humor in patients with various ocular diseases
María Josefa González Riquelme, Juan Antonio Miralles de Imperial Ollero, Ana María Gómez Ramírez, Inmaculada Sellés Navarro, Marta Agudo-Barriuso, Paloma Sobrado-Calvo, Francisco José Muñoz Negrete, Maria Dolores Pinazo Durán, Marcelino Avilés-Trigueros, Maria Paz Villegas Perez *(Spain)*

376 S127 Effective process for screening melanin binding affinity of small molecule drugs and new drug candidates
Pekka Vanhanen, Mika Reinisalo, Tatu Lajunen, Stanislav Kalinin, Jari Leskinen, Arto Urtti *(Finland)*

383 S128 *rf*
Topical photoswitchable small molecules restore visual acuity and light sensitivity in preclinical models of retinal degeneration
Joaquín Martínez Tambella, Rosalba Sortino, Aleix González-Díez, Santiago Milla-Navarro, Fabio Riefolo, Carlo Matera, Jordi Hernando, Núria Camarero, Carme Serra, Xavier Gómez-Santacana, Amadeu Llebaria, Xavier Rovira, Pedro De La Villa, Pau Gorostiza *(Spain)*

405 S129 *rf*
Timolol repurposing for ROP: preclinical evidence from the OIR mouse model
Alberto Melecchi, Gaia Barsotti, Luca Filippi, Massimo Dal Monte *(Italy)*

539 S130
Validation of mGlu6 as novel photoswitchable drug target to restore vision
Núria Camarero, Rosalba Sortino, Pablo Calvé, Ariadna Diaz-Tahoces, Silvia Pittolo, Santiago Milla-Navarro, Alexandre Gomila, Xavier Rovira, Joaquín Martínez Tambella, Xavier Gómez-Santacana, Amadeu Llebaria, Eduardo Fernandez, Pedro De La Villa, Pau Gorostiza *(Spain)*

544 S131
Biological sex as a determinant of the tear proteome: implications for sex-stratified diagnostics
Erika Ponzini, Carlo Santambrogio, Antonella De Palma, Dario Di Silvestre, Pierluigi Mauri, Giulia Rizzo, Fabrizio Zeri, Rita Grandori, Silvia Tavazzi *(Italy)*

548 S132 *rf*
Modeling retinal-glial inflammation in iPSC-derived models
Yashvi Bhat[1,2], Lauriane Przegralek[1], Chloé Dupuis[1], Polina Malahov[1,2], Eugénie Genestant[1], C.E. Cañadas[2], Amalia Dolga[2], Xavier Guillonneau[1] *([1]France, [2]The Netherlands)*

616 S133 *rf*
Combined effects of Taurine- and bFGF- based treatment in hereditary retinal degenerations
Luis Mario López-Jaén, Johnny Di Pierdomenico, Maria Paz Villegas Perez, Diego García-Ayuso *(Spain)*

634 S134 *rf*
Commercial bias in Large Language Model recommendations for ophthalmic drugs in the United States
Andrea Taloni[1], Filippo Lixi[1], Mario Troisi[1], Giulia Coco[1], Danson Muttuvelu[2], Yousif Subhi[2], Giuseppe Giannaccare[1] *([1]Italy, [2]Denmark)*

POS Poster Session YOUNG INVESTIGATOR SESSION

596 S135
Fluorophore discrimination using fluorescence microscopy coupled with spectrophotometry, toward an in situ imaging application for Dry Eye Disease: Proof of concept
Sofiane Fraine, Baptiste Moine, Josiane Kassis, Laura Fradale, Alexandra Sutter, Marie-Caroline Trone, Nathan Dalle, Alain Roussel, Gilles Ulrich, Antoinette De Nicola, Zhiguo He, Philippe Gain, Gilles Thuret, Corantin Maurin *(France)*

597 S136
Comparative protein analysis of the ocular surface in healthy subjects versus Dry Eye Disease patients
Sofiane Fraine, Corantin Maurin, Marie-Caroline Trone, Stéphanie Some, Tarik Ali Pacha, Nathan Dalle, Philippe Gain, Sylvain Poinard, Oliver Dorado Cortez, Gilles Thuret *(France)*

232 S137
Visual acuity measurement beyond ETDRS: influence of temporal constraints and optotype crowding in glaucoma and healthy vision
Aiman Hafeez, Alison Binns, John L. Barbur *(United Kingdom)*

563 S138
Repeatability of two implementations of sweep VEP-based visual acuity estimation and their agreement with psychophysical measures
Kojo Essel-Amoah[1], Enyam Morny[1], Dillys Amega[1], Emmanuel Adator[1], Sven Heinrich[2] *([1]Ghana, [2]Germany)*

141 S139
Primary posterior capsulorhexis as a novel technique for prevention of posterior capsule opacification after cataract surgery: a comparative clinical study
Grigor Kamushadze, David Shengelia, Gigi Gorgadze, Saiali Ibragimova *(Georgia)*

582 S140 Intraocular recording of ciliary muscle biopotential signals associated with accommodation in a nonhuman primate
Bishesh Sigdel, Sven Schumayer, Sebastian Kaltenstadler, Volker Bucher, Albrecht Rothermel, Birgit Korbmacher, Eberhart Zrenner, Torsten Strasser *(Germany)*

264 S141 Mapping the shared and distinct proteomes of plasma, tear fluid and aqueous humor
Nienke van de Sande[1], Yutong Wang[1], Jasmijn van der Vleuten[1], Jente Schmeetz[1], Li Liang[1], Mayke Oosterloo[1], David E.J. Linden[1], Sébastien Foulquier[1], Rudy Nuijts[1], Inez H.G.B. Ramakers[1], Carroll Webers[1], Ashok Sharma[2], Marlies Gijs[1] *([1]The Netherlands, [2]United States)*

521 S142 A novel non-invasive photoswitchable molecule restores light sensitivity and visual acuity in blind animal models
Santiago Milla-Navarro[1], Joaquín Martínez Tambella[1], Rosalba Sortino[1], Davia Prischich[1], Adina Dumitru[1], Jordi Hernando[1], Núria Camarero[1], Carlo Matera[2], Pedro de la Villa2[1], Pau Gorostiza[1]
([1]Spain, [2]Italy)