28th EVER CONGRESS

9-11 October 2025 Florence

PROGRAMME



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G: Glaucoma

IM: Immunology / Microbiology

LC: Lens and Cataract

MBGE: Molecular Biology / Genetics / Epidemiology

NSPH: Neuro-ophthalmology / Strabismology / Paediatric Ophthalmology /

History of Ophthalmology

PO: Pathology / Oncology

PBP: Physiology / Biochemistry / Pharmacology

RV: Retina / Vitreous

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About the programme book

Sessions

BM	Business	Meeting
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- POS Poster Session
- CIS Company Interested Symposium
- PS Plenary Session

C Course

RF Rapid Fire Session

JM Joint Meeting

SIS Special Interest Symposium

KN Keynote Lecture

FR Free Paper Session



Symbol

f = Rapid Fire presentation

Scientific sections

ACB = Anatomy / Cell Biology
COS = Cornea / Ocular Surface

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WITH THE PATRONAGE OF



28th EVER 9-11 October 2025 Florence



08:30-08:45 | Room 2



08:45-09:30 | Room 2



Special Recognition EVER Keynote Lecture

Diseases of retinal blood vessels of such as diabetic retinopathy are prominent causes of vision loss worldwide. Drivers of disease include endothelial cell and pericyte degeneration leading to vascular leakage, retinal ischemia and in severe cases pathological preretinal neovascularization. Anti-VEGF therapies have revolutionized treatment, however they require regular intravitreal injections and are inefficient in a large subset of patients. In this lecture, I will discuss 2 experimental disease modifying approaches developed by our lab that are currently being investigated in clinical trials. Firstly, I will discuss how modulation of neuronal guidance cues such as semaphorins can promote functional vascular regeneration and alleviate retinal ischemia. Secondly, I will present how therapeutic elimination of senescent cells from diseased retinas can trigger vascular repair and lead to long lasting benefits in patients and present preclinical and clinical data to support these findings.

08:45 Introduction Andrzej Grzybowski (Poland)

08:50 Therapeutic vascular remodelling in diabetic retinal disease: on semaphorins and cellular senescence Przemyslaw Sapieha (Canada)

09:20 Discussion



09:30-10:45 | Room 2



LC 87 - Biometry and intraocular lens power calculation

Starting with ultrasound measurement of the eye in the 70ties of the last century, many attempts have been made to improve ocular biometry. Optical biometry was one of the cornerstones in modern cataract surgery, which was a mandatory requirement for all premium lenses. Today, all distances of the eye and the curvature of the corneal front surface could be measured with a high precision, and some of the biometers also offer tomography to assess corneal back surface curvature. First lens power calculation formula was presented in 1967 by Fyodorov, but a systematic pre-cataract biometry with individual lens power calculation started 20 years later with empirical and vergence based formulae such as SRK(2), SRKT, Hoffer-Q, Holladay, and Haigis. Today, most of the modern lens power prediction concepts are undisclosed and available online or integrated in optical biometers. In this course we will give an overview on different biometry modalities and basic lens power calculation concepts and we will discuss the pros and cons critically.

Organizer: Achim Langenbucher (Germany) Co-organizer: Oliver Stachs (Germany)

09:30 Ultrasound and optical biometry before cataract surgery Oliver Stachs (Germany)

09:41 Basics in lens power calculation – from the empirical concept to formula-based calculation and raytracing **Achim Langenbucher** (Germany)

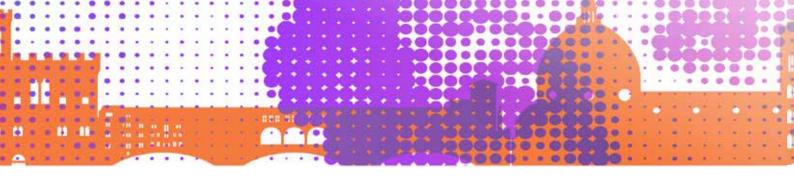
09:52 Formula constants and optimizations **Achim Langenbucher** (Germany)

10:03 Calculation of toric lenses and clinical aspects of toric lens implantation Timo Eppig (Germany)

10:14 Lens power calculation after corneal refractive surgery Jascha Wendelstein (Switzerland)

10:25 Lens power calculation in long and short eyes – which formula is the best? Jascha Wendelstein (Switzerland)

10:35 Discussion



09:30-10:45 | Room B



NSPH 42 - Challenges in pediatric ophthalmology

This symposium combines anterior and posterior segment questions with respect to pediatric ophthalmology. Both conservative and surgical aspects will be addressed.

Organizer: Thomas Fuchsluger (Germany)

Co-organizer: Patrick Yu-Wai-Man (United Kingdom)

- 09:30 Molecular mechanisms and clinical factors influencing progression of aniridia-associated keratopathy **Nora Szentmary** (Germany)
- 09:43 Keratoplasty in children yes or no, when and how? **Thomas Fuchsluger** (Germany)
- 09:56 Surgical treatment of ectopia lentis in children **Lyubomyr Lytvynchuk** (Germany)
- 10:09 When it is not a simple myopia: what is this disease with an XL eye? **Vasily Smirnov** (France)
- 10:22 Inherited optic neuropathies an update **Patrick Yu-Wai-Man** (United Kingdom)
- 10:35 Discussion

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09:30-10:45 | Hall 3A



Moderators: Marialaura Amadio (Italy), Kalle Nummi (Finland)

Evaluators: Jan-Willem Beenakker (The Netherlands), Ester Carreño Salas (Spain), Jarmila Heissigerova (Czech Republic), Anu Kauppinen (Finland), Michele Madigan (Australia), Goran Petrovski (Norway)

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530	T002	Environmental, sex-dependent, and inflammasome-mediated modulation of retinal ganglion cell survival following LPS-induced sepsis Kristy T. Rodríguez-Ramírez, Ana Isabel Gómez, Pablo Pelegrín, Marta Agudo-Barriuso (Spain)
465	T004	Ocular sarcoidosis - A case series in a tertiary uveitis clinic <u>Diogo Sousa Marques</u> , Pedro Martins, Sofia Teixeira, Daniel Ferreira Cardoso, João Castro Cabanas, Catarina Ferreira, Sofia Fonseca (Portugal)
492	T005	Objective quantification of anterior uveitis inflammation using artificial intelligence: a scoping review Muneeb Ahmad Khan, Diya Baker (United Kingdom)
591	T007	To assess inflammatory markers corresponding to gut dysbiosis and macrophage activation in plasma of Idiopathic Uveitis (IU) patients Nabanita Halder, Gayatri Suresh, Madhu Nath, Rohan Chawla, Thirumurthy Velpandian (India)
346	T100	Tear drops and Alzheimer's: unveiling early detection biomarkers - A systematic review Inés López-Cuenca, Lidia Sánchez-Puebla, Lorena Elvira-Hurtado, Rubén Masa-Castro, Yael Hoz-Ruiz, Elena Salobrar-Garcia, José A. Matamoros, José A. Fernández-Albarral, Hector Leal- Lasalle, Juan Jose Salazar, Ana Isabel Ramirez, Jose Manuel Ramirez, Rosa De Hoz (Spain)
430	T103	Circulating tumor DNA as a biomarker for surveillance of uveal melanoma Vojtech Hanicinec, Eirunn Øvregaard, Morten Carstens Moe, Henrik Jespersen, Agate Noer (Norway)
482	T104	Reconstruction of medium to large full-thickness lower eyelid defects by a novel single-stage procedure: update on the marginal approach for releasing the lid with closure handling (MARCH) technique Anna March De Ribot ¹ , Santiago Ortiz-Pérez ^{1,2} , Francesc March De Ribot ¹ (¹ New Zealand, ² Spain)
540	T106	RB1 screening for previously untested retinoblastoma survivors Kalle Nummi, Tero Kivelä (Finland)
589	T107	Role of CDKN1A, MDM2, MTHFR and MTR polymorphisms in retinoblastoma: a systemic study Shobhit Gupta , Sushma Nandyala , Tapas Roy , Deepsekhar Das (<i>India</i>)
635	T108	Transcriptomic atlas of uveal melanoma <u>Vojtech Hanicinec</u> , Xavier Tekpli, Øystein Garred, Marie Fongaard, Sunniva Bøstrand, Michael Frisk, Thomas Bærland, Giang Nguyen, Jürgen Geisler, Morten Carstens Moe, Agate Noer, Henrik Jespersen (Norway)



09:30-10:45 | Hall 3.1



Moderators: Johnny Di Pierdomenico (Spain), Christina Karakosta (Greece)

Evaluators: Marcelino Avilés-Trigueros (Spain), Pedro De La Villa (Spain)

193	S022	Comparative proteomic analysis of aqueous humour, anterior capsules and crystalline lenses in different human cataract subtypes versus healthy controls Christina Karakosta ^{1,2} , Martina Samiotaki ¹ , Anastasios Bisoukis ² , Nantieznta Kyriakidou ¹ , Konstantinos Moschou ¹ , Marilita Moschos ¹ (¹ Greece, ² United Kingdom)
286	S024	Protective effects and mechanism of modified Qiju Dihuang Formula in experimental choroidal neovascularisation rats Leilei Wang , Xiaoling Fang , Xia Chen , Wenwen Xue , Jiannan Huang , Xiaowei Tong (<i>China</i>)
392	S029	An in-depth overview on retinal morpho-functional and molecular features of the 5xFAD murine model Lorenzo Guidotti, Martina Lucchesi, Rosario Amato, Giuseppe Neri, Silvia Marracci, Claudia Gargini, Ugo Borello, Maurizio Cammalleri, Giovanni Casini, Massimo Dal Monte (Italy)
407	S031	Astrocyte-mediated protection of the hypoxic retina: involvement of beta3-adrenoceptors <u>Alessio Canovai</u> , Lorenza Di Marsico, Massimo Dal Monte, Paola Bagnoli, Maurizio Cammalleri (Italy)
419	S033	Early retinal involvement in amyotrophic lateral sclerosis: functional and molecular characterization in SOD1G93A mice <u>Lorenza Di Marsico</u> , Eleonora Daghini, Rosario Amato, Angela Cannavale, Alessio Canovai, <u>Giuseppe Neri, Ugo Borello, Claudia Gargini, Maurizio Cammalleri, Massimo Dal Monte</u> (Italy)
438	S035	Shear-stress dependent viscous properties of hyaluronic-based lubricants <u>Leopold Schmetterer</u> , Gerhard Garhöfer (Austria)
454	S036	Toxicity of tranexamic acid in Müller cells: oxidative stress and inflammatory pathways <u>Dammak Azza</u> , Nadine Gubernath, Wolf Armin (Germany)
566	S040	Safety and neuroprotective effects of intravitreal transplatation of bone-marrow-derived mononuclear cells exosomes to animal model of retinal degeneration Johnny Di Pierdomenico, Ana Martínez Vacas, Andreea Delia Necula, David García Bernal, Maria Paz Villegas Perez, Diego García-Ayuso (Spain)
570	S041	Corneal endothelium protective effect of taurine-based ophthalmic surgical devices Francesca Lazzara, Federica Conti, Grazia Maugeri, Erika Giuffrida, Giuseppe Lo Giudice, Matteo Cereda, Claudio Bucolo (Italy)

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09:30-10:45 | Hall 3.2



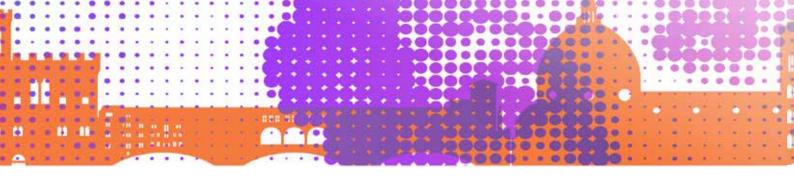
RV 30 - Central serous chorioretinopathy - update

Central serous chorioretinopathy – up date is planned as a SIS. During the session highly recognized specialist on CSCR patomechanism, diagnostics and treatment will share their experience as well as results of their research regarding this clinical entity. As CSCR is a common disorder, but without strong recommendations for its management, the topic seem important for both clinical practice and clinical research. Among specific subjects associated with CSCR are mineralocorticoid pathway concept, modern diagnostic modalities, such as OCT angiography, validation of results of subthreshold micropulse treatment of CSCR and current opinion on utilization of photodynamic therapy in its treatment. Finally, practical algorithms for `CSCR management will be presented.

Organizer: Maciej Gawęcki (Poland)

Co-organizer: Andrzej Grzybowski (Poland)

- 09:30 CSCR-patomechanism and etiology Francine Behar-Cohen (France)
- 09:43 CSCR - multimodal diagnostics, recognition criteria. Classification Stephen Schwartz (USA)
- 09:56 CSCR - treatment with classic and subthreshold lasers Maciej Gawęcki (Poland)
- 10:09 CSCR - treatment with PDT. Strategies, eligibility Maurizio Battaglia Parodi (Italy)
- 10:22 CSCR - algorithm for diagnostics and treatment Kai Jin (China)
- 10:35 Discussion



09:30-10:45 | Room 4



EOVS 70 - 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)

09:30 Optical coherence tomography - Basic optical principles

Kristina Irsch (France)

09:48 Optical coherence tomography - Additional contrast mechanisms, future trends, and cutting-edge technological

developments

Kristina Irsch (France)

10:06 Optical coherence tomography - Machine learning

Rui Bernardes (Portugal)

10:15 Retinal imaging - A window into brain mechanisms

Miguel Castelo-Branco (Portugal)

10:33 Discussion

10:45-11:15 | Coffee break

11:20-12:05 | Room 2



Past President Lecture

The integration of artificial intelligence (AI) into ophthalmology has led to transformative advances in disease detection, prognosis, and population-level screening. While performance gains are evident in controlled settings, real-world deployment reveals persistent challenges. Some are well-recognized, including biases in training data, limited generalizability across populations, and lack of interpretability, representing the "known unknowns." However, a growing concern lies in "unknown unknowns": unpredictable failures that arise when AI systems encounter out-of-distribution inputs, rare pathologies, or subtle shifts in imaging protocols. This lecture explores the implications of these uncertainties for clinical safety, trust, and equity in ophthalmic AI. Addressing them requires not only technical innovation, such as uncertainty quantification and robust validation, but also a reframing of AI as a probabilistic and context-aware partner in clinical decision-making.

11:20 Introduction

Christina Zeitz (France)

11:25 Al in Ophthalmology: between known and unknown unknowns Andrzej Grzybowski (Poland)

11:55 Discussion



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12:05-13:20 | Room 2



COS 83 - Update on instrument-assisted diagnosis for screening and diagnosis of ectatic corneal disorders

Since the launch of the first Placido topographers in the early 90ties ophthalmologists are assisted with screening and diagnosis metrics for corneal ectatic diseases. Such instruments were restricted to detect early pathological changes at the corneal front surfaces. A decade later, fist Scheimpflug tomographers showed-up which could detect and interpret early changes in the shape of both corneal surfaces together with the corneal thickness profile. Since 15 years high resolution anterior segment OCTs are on the market which have the potential to pathologies in the entire anterior eye segment. In this SIS we will show the fundamentals and development of instrument-based screening and diagnosis metrics for corneal ectatic diseases such as keratoconus, keratoglobus or pellucide marginal degeneration, and we will address quality terms such as precision, accuracy, specificity and sensitivity. New trends of instrument-assisted diagnosis such as indices from the Corvis biomechnic analysis and modern deep learning algorithms will be critically discussed and evaluated in terms of early diagnosis, staging, and monitoring of ectatic corneal disorders.

Organizer: Achim Langenbucher (Germany)

Co-organizer: Michael Belin (USA)

- 16:50 Corneal ectasia in a clinical setting **László Modis** (Hungary)
- 17:03 Ectasia screening with the Placido topographer, Scheimpflug tomographer and anterior segment OCTs **Achim Langenbucher** (Germany)
- Instrument based screening vs. clinical diagnosis How do modern tomographers assist the ophthalmologist 17:16 Michael Belin (USA)
- 17:29 New developments of keratoconus diagnosis with the Corvis biomechanical analysis Elias Flockerzi (Germany)
- 17:42 Al and deep learning in early keratoconus – Think the unthinkable **Benjamin Fassbind** (Switzerland)
- 17:55 Discussion

12:05-13:20 | Room B



NSPH 84 - Protect, enhance, restore - novel strategies for the optic nerve rescue

The optic nerve, a crucial component of the visual pathway, plays an essential role in transmitting visual information from the retina to the brain. Damage to the optic nerve can lead to irreversible vision loss and significantly impair quality of life. The need for optic nerve restoration has become increasingly critical as advancements in medical technology and neuroscience highlight the potential for regenerative therapies. Current treatment options are limited, often focusing on managing symptoms rather than addressing the underlying damage. Innovative approaches, including stem cell therapy, neuroprotective strategies, and biomaterial scaffolds, are being explored to promote nerve regeneration and functional recovery. Restoration of optic nerve function not only aims to recover lost vision but also has profound implications for enhancing cognitive processing and overall well-being. As the population ages and the prevalence of optic nerve injuries rises, prioritizing research and development in this field is vital for improving patient outcomes and fostering greater independence for those affected by vision loss.

Organizer: Adrian Smedowski (Poland)

Co-organizer: Patrick Yu-Wai-Man (United Kingdom)

- 12:05 Optic nerve rescue 2025 update Adrian Smedowski (Poland)
- 12:21 Pharmacological restoration of the optic nerve **Tasneem Khatib** (United Kingdom)
- 12:37 Electrostimulation of the optic nerve Marcela Vortuba (United Kingdom)
- 12:53 CNTF-based RGC rescue Jeffrey Goldberg (USA)

13:09 Discussion



12:05-13:20 | Hall 3A



Moderator: Alessandro Arrigo (Italy), Gordon Plant (United Kingdom)

Evaluators: Rui Bernardes (Portugal), Rebekka Heitmar (United Kingdom)

90	S002	Evaluation of a virtual reality headset at a tertiary care ophthalmology setting <u>Catherine Dang</u> ¹ , Hong-An Nguyen ¹ , Soumya Podury ¹ , Matthew Quinn ¹ , Catherine Tsilfidis ¹ , <u>Rustum Karanjia</u> ^{1,2} (¹ Canada, ² USA)
91	S003	Defocus incorporated mulitiple segment spectacle lenses for myopia control: a retrospective study in a Turkish cohort Nilay Akagun, Emrah Altiparmak (Türkiye)
170	S004	Association between building density and screening myopia in children and adolescents: a five-year longitudinal study from China Jingjing Wang, Xiangui He (China)
173	S005	Visual activity enhances neuronal excitability in thalamic relay neurons <u>Aurore Aziz</u> , Dumenieu Mael, Fronzaroli-Molinieres Laure, Naudin Lois, Bonnaure Cecile, Wakade Anushka, Zanin Emilie, Ankri Norbert, Incontro Salvatore, Denis Daniele, Marqueze Beatrice, Brette Romain, Debanne Dominique, Russier Michael (France)
212	S007	Use of L-tyrosine supplementation to support retinal function in a mouse model of deprivation myopia <u>Bartosz Machna</u> , Klaudia Mroz, Monika Katan, Anna Gasiorek, Anna Pacwa, Maciej Oseka, <u>Mikołaj Górka</u> , Joanna Lewin-Kowalik, Adrian Smedowski (Poland)
330	S009	Influence of head movement of fixation stability and eye angle changes during virtual reality perimetry Hsin-yang Chen , Raphael Sznitman ¹ , Jan Darius Unterlauft ² , Martin Zinkernagel ¹ , Nathanael Urs Häner ¹ (¹ Switzerland, ² Germany)
359	S010	Assessing retinal function in an Alzheimer's disease mouse model APPNL-F/NL-F using electroretinography Lidia Sánchez-Puebla¹, Santiago Milla Navarro¹, Inés López-Cuenca¹, José A. Matamoros¹, Elena Salobrar-Garcia¹, José A. Fernández-Albarral¹, Lorena Elvira-Hurtado¹, Ana I. Ramírez¹, Juan Jose Salazar¹, Takaomi C. Saido², Takashi Saito², Carmen Nieto-Vaquero¹, María Ángeles Moro¹, Rosa De Hoz¹, Pedro De La Villa¹, Jose Manuel Ramirez¹ (¹Spain, ²Japan)
581	S015	Retina-brain neurovascular coupling connection Rui Bernardes ¹ , João Jordão ¹ , João Figueira ¹ , Miguel Morgado ¹ , Pedro Guimarães ¹ , Pedro Serranho ¹ , Delia DeBuc ² , Michel Paques ³ , Miguel Castelo-Branco ¹ (¹Portugal, ²USA, ³France)
626	S016	The pulvinar's role in visual hierarchy communication and cortical integration Christian Casanova, William Thomas, Nelson Cortes Hernandez (Canada)
639	S017	Comparative performance of six large language models in the self-assessment test of the American Academy of Ophthalmology Andrea Taloni, Antonia Carmen Sangregorio, Filippo Lixi, Mario Troisi, Francesco Paolo Mancini, Valerio Calabresi, Feyza Çukurova, Raphael Kilian, Valentino De Ruvo, Luigi De Rosa, Giulia Coco, Massimo Busin, Giuseppe Giannaccare (Italy)
677	S018	Evidence for altered color adaptation in autism spectrum disorder Miguel Castelo-Branco, João Castelhano, Francisca Matias (Portugal)

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12:05-13:20 | Hall 3.1



Moderators: Marialaura Amadio (Italy), Eleftherios Chatzimichail (Switzerland)

149 In vitro studies of the effects of the retinal pigment epithelium-derived extracellular vesicles Giorgia Bresciani, Federico Manai, Marialaura Amadio (Italy)

666 - - 656

- 234 Neurovascular barrier dysfunction in age-related maclar degeneration and Alzheimer's diseases: homocysteine-driven breakdown and emerging therapeutic strategies Amany Tawfik¹, Hossameldin Abouhish¹, Lamiaa Shalaby¹, Nehal Elsherbiny², Omar Elzayat¹, Charlene Hsiung¹, Aya Almaoued¹ (¹United States, ²Saudi Arabia)
- 279 Human choroid Opsin3 expression, melanocytes and effects of blue light exposure Michele Madigan¹, Chieh-Lin (Stanley) Wu², Ha Duong¹, V. Cioanca¹, Peter Mccluskey¹, Robert Conway¹ (1 Australia, 2 Taiwan)
- 70 Limbal niche cells regulate immune responses and maintain protective mechanisms within the corneal epithelial stem cell niche Yigun Fan, Andreas Gießl, Matthias Zenkel, Nina Eisenhauer, Simon Voekl, Ursula Schlötzer-Schrehardt (Germany)
- 223 Efficacy and safety of descemet stripping only combined with ripasuall for treating fuchs dystrophy at a leading center in Javier Pérez Esquiva, Jose Lamarca, Anton Barraquer, Miriam Barbany, Ruben Delgado, Raquel Larena, Gemma Julio, Rafael Barraquer (Spain)
- 244 A synthetic injectable hydrogel with anti-inflammatory effect for treating full-thickness corneal perforations Mostafa Zamani-Roudbaraki, Neethi Thathapudi, Michel Haagdorens, Marc Groleau, Malcolm Latorre, Solange Muhayimana, Mozhgan Aghajanzadeh-Kiyaseh, Mona Moradi, Isabelle Brunette, Christos Boutopoulos, Marie-Claude Robert, May Griffith (Canada)



12:05-13:20 | Hall 3.2



LC 62 - Myopia controversies and challenges in 2025

High myopia is a major cause of visual impairment. In the last 60 years, there has been a marked increase in the prevalence of high myopia in developed countries in East and Southeast Asia, and there are signs of similar, but less dramatic increases, in North America and Europe. It is accepted that myopia results from excessive axial elongation of the eye, which appears to be environmentally driven. The session will present major controversies related with myopia pathogenesis and treatment, including progression of myopia in adults, treatment differences between Asian and non-Asians, and challenges, including Low-level Red Light Therapy, and Myopia Calculators.

Organizer: **Andrzej Grzybowski** (*Poland*) Co-organizer: **Olavi Pärssinen** (*Finland*)

- 12:05 Historical overview of the studies about epidemiology of myopia Olavi Pärssinen (Finland)
- 12:18 Incidence and progression of myopia in adulthood **Mohammad Hassan Emamian** (*Iran*)
- 12:31 Treatment differences between Asian and non-Asians

 Carla Rita Dos Santos Costa Lanca (United Arab Emirates)
- 12:44 RLRL in myopia control European experience Andrzej Grzybowski (Poland)
- 12:57 Visual acuity and spherical equivalent calculator
- 13:10 Discussion

12:05-13:20 | Room 4



EOVS 46 - Electrophysiology and the localisation of visual pathway dysfunction

Symptoms and signs associated with retinal and retinal ganglion cell pathology are often non-specific and pose a diagnostic challenge. Precise phenotyping may be confounded by the limitations of subjective tests, whereas electrodiagnostic recordings provide objective methods which can localise and characterise dysfunction within the retina. This SIS will provide an update on electrophysiological methods relevant to ophthalmic and neuro-ophthalmic practice, including complementary use of full-field electroretinography, used to assess photoreceptor and inner retinal function, pattern electroretinography, used to assess macular and macular retinal ganglion cell function, and electro-oculography, used to assess generalised retinal pigment epithelium function. The use of recently published International (ISCEV) standard methods and extended ERG protocols will be highlighted, using case-based examples to illustrate how loci of dysfunction may be identified, aiding diagnosis and clinical management. Recent phenotyping data will be used to show the principles of interpretation, discrepancies between structure and function and the clinical value of electrophysiological testing.

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

- 12:05 Generalised RPE dysfunction in adults and children **Dorothy Thompson** (United Kingdom)
- 12:21 ERGs in photoreceptor disorders
 Anthony G. Robson (United Kingdom)
- 12:37 ERGs in inner retinal disorders.

 Omar Mahroo (United Kingdom)
- 12:53 Retinal ganglion cell dysfunction

 Magella Neveu (United Kingdom)
- 13:09 Discussion

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13:30-14:30



14:40-15:20 | Room 2



De Laey EVER Keynote Lecture

Accurate identification of vision- and life-threatening neuro-ophthalmic conditions can be difficult, especially in atypical situations, or when complex diagnostic procedures are not readily available. In order to mitigate such risks, artificial intelligence-based analysis of ophthalmic images has shown great potential to effectively detect optic nerve and related brain abnormalities, on standard, affordable retinal imaging modalities. We predict that novel algorithms, alone or in combination, will be implemented in the near future in everyday situations in order to assess the probability/risk of various serious neuro-ophthalmic conditions. But beyond neuro-ophthalmic conditions, the retinas appear to deliver Al-detectable signals that are not identifiable by human eyes, enabling algorithms to discriminate neurodegenerative diseases (such as Alzheimer's diseases), or even psychiatric conditions.

14:40 Introduction Patrick Yu-Wai-Man (United Kingdom)

14:45 Can algorithms automatically detect brain diseases in the retinas? Dan Milea (France)

15:15 Discussion



15:20-15:50 | Coffee break

15:50-16:50 | Poster Area





16:50-18:05 | Room 2



LC 59 - Restoration of accommodation

The restoration of accommodation in the pseudophakic eye is still regarded one of the last remaining frontiers in ophthalmology. Decades of principal and applied research resulted in numerous concepts from lens regeneration and lens refilling to electro-optical solutions. Most concepts failed in clinical trials due to a lack of predictability of the refractive outcome or a lack of accommodation in the long term. Additional factors that prevented successful clinical application were lack of usability in terms of requirement for a large incision, bulky implant, and/or generally complicated implantation compared to standard IOLs. Factors preventing commercial success from the manufacturers point of view is a complex production resulting in non-competitive price. We give an overview on the principles and historic and current concepts of accommodative intraocular lenses and lens regeneration and discuss the challenges associated with accommodative IOLs from the regulatory and clinical perspective.

Organizer: Timo Eppig (Germany)

Co-organizer: Justin Christopher D'Antin (Spain)

16:50 History and principles of accommodative intraocular lenses **Timo Eppig** (Germany)

17:03 Lens refilling and lens regeneration

Justin Christopher D'Antin (Spain)

17:16 Experience with the Phaco-Ersatz System Rafael I. Barraquer (Spain)

17:29 Challenges associated with accommodative systems **Timo Eppig** (Germany)

17:42 Experience with the lumina accommodative IOL **Jens Schrecker** (Germany)

17:55 Discussion

16:50-18:05 | Room B



NSPH 66 - Decoding the scientific headline in ocular neurobiology

In a world where scientific communication is crucial for the dissemination and impact of research, transforming complex findings into accessible messages without compromising accuracy is a challenge. Recognizing this need and building upon the success and excellent feedback of the 'Improve the impact of your eye research with storytelling' session at the last EVER meeting, this proposal outlines the next phase to strengthen our research communication. This hands-on course is designed for researchers in ocular neurobiology who seek to improve their ability to communicate discoveries clearly and effectively. Through interactive exercises, participants will analyze how the media presents science and learn to identify the key elements that ensure information shared with society is both useful and accurate, avoiding misinformation and misconceptions. The course will focus on specific examples from ocular neurobiology, from neural plasticity in the visual system to the effects of light on the retina, emphasizing the importance of precise yet accessible language in scientific outreach. By the end of the course, attendees will have gained tools to better communicate their research, minimizing distortions and fostering a more effective dialogue with the media and the general public.

Organizer: Victor Meseguer (Spain)

Co-organizer: Ariadna Diaz-Tahoces (Spain)

- 16:50 Understanding the media ecosystem for better scientific communication **Angeles Gallar** (Spain)
- 17:11 Strategies for clear and accurate scientific communication **Victor Meseguer** (Spain)
- 17:32 The challenge of communicating science in ocular neurobiology

 Ariadna Diaz-Tahoces (Spain)
- 17:53 Discussion

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16:50-18:05 | Hall 3A



RF Rapid Fire 4 - MBGE

Moderators: Michael Backlund (Finland), Rafaela Garrido-Mercado (Spain)

Evaluators: Joni Turunen (Finland), Baptiste Wilmet (France)

153	T013	Myopia in football player: influence of outdoors activities measured by conjunctival ultraviolet autofluorescence biomarker Sergio Recalde , Alejandro Güemes, Maria Hernandez, María Fraga de la Viesca, Miriam De la Puente, Cristina Irigoyen, Jaione Bezunartea, Maite Moreno Orduña, Manuel Saenz de Viteri, Jesús Barrio, Valentina Bilbao, Jorge Gonzalez-Zamora, Alfredo García Layana (Spain)
160	T014	Deep lerning-based morphometry of the human orbit using MRI data from the German NAKO study <u>Navid Farassat</u> ¹ , Kevin Wornath ¹ , Moises Fuentes ¹ , Marco Reisert ¹ , Susanne Rospleszcz ¹ , Javier Rodriguez-Zabala ² , Daniel Böhringer ¹ , Christopher Schlett ¹ , Wolf Lagrèze ¹ (¹Germany, ²Colombia)
401	TO21	Identification of a novel gene defect, EGFLAM, underlying complete congenital stationary night blindness and high myopia Sanja Boranijasevic¹, Julien Navarro¹, Christel Condroyer¹, Lonneke Hear-Wigman², Aline Antonio¹, Dhaenens Claire-Marie¹, Sahel José-Alain¹, Ingeborgh van den Born², Martha Tjon-Fo-Sang², Sabine Defoort¹, Vasily Smirnov¹, Isabelle Audo¹, Christina Zeitz¹ (¹France, ²The Neterlands, ³USA)
470	T027	Investigation of factors promoting corneal wound healing <u>Anna Pacwa</u> , Bartosz Machna, Klaudia Mroz, Anna Gasiorek, Monika Katan, Maciej Oseka, <u>Joanna Lewin-Kowalik, Adrian Smedowski</u> (Poland)
511	T029	Knobloch syndrome presenting with polymicrogyria and shallow anterior chamber: a case report <u>João Castro Cabanas</u> , Pedro Martins, Carolina Madeira (Portugal)
520	T030	Sphingolipids plasma profile in keratoconus patients <u>Uxía Regueiro</u> , Maite López-López, Tania Alvite-Piñeiro, Alberto Ouro, Isabel Lema (Spain)
523	T031	Near-infrared light-responsive retinal implants regulate neurotrophic gene expression in primary hippocampal neurons <u>Şeyma Nur Yaman</u> , Uğur Berkay Calışkan, Humeyra Nur Kaleli, Tarık Safa Kaya, Murat Hasanreisoğlu, Sedat Nizamoğlu (Türkiye)
546	T032	The effects of long-term work in mesopic environments and lifestyle risk factors on the prevalence of myopia in adults <u>Rafaela Garrido-Mercado</u> ¹ , Olavi Pärssinen ² , Jesús Carballo-Álvarez ¹ , Maria Garcia Montero ¹ , <u>Maria Cinta Puell Marin</u> ¹ (¹ Spain, ² Finland)
631	T035	Descriptive analysis of a Danish eye and vision cohort using the deep learning tool automorph for retinal vasculature assessment Hande Coskun, Marcel Reimann, Jeppe Samuelsen, Miriam Kolko (Denmark)
644	T036	Transcriptional profiling of NLRP3 inflammasome- activated monocytes from keratitis fugax hereditaria <u>Sabita Kawan</u> , Pau Costa, Michael Backlund, Annamari Immonen, Helena Kilpinen, Olli <u>Pietiläinen, Tero Kivelä, Joni Turunen</u> (<i>Finland</i>)



16:50-18:05 | Hall 3.1



Evaluators: Huban Atilla (Türkiye), Patrick Yu-Wai-Man (United Kingdom)

Moderator: Thomas Klopstock (Germany), Chiara La Morgia (Italy)

The role of astigmatism in myopia, its progression and management: a scoping review **Stephanie Kearney¹, Rakhee Shah²**,³ (¹United Kingdom, ²The Neterlands)

Efficacy of lenadogene nolvarvovec gene therapy versus idebenone: a matched adjusted indirect comparison <u>Valérie Biousse</u>¹, Patrick Yu-Wai-Man², Nancy Newman¹, Valerio Carelli³, Adeline Pierache⁴, <u>François Montestruc</u>⁴, Magali Taiel⁴, José-Alain Sahel¹ (¹USA, ²United Kingdom, ³Italy, ⁴France)

201 T054 Atropine and spectacle lens combination treatment (ASPECT): 24-month interim results of a randomised controlled trial for myopia control

Noemi Guemes Villahoz¹, Paula Talavero-Gonzalez¹, Paloma Porras-Angel¹, Rafael Bella-Gala¹, Alicia Ruiz-Pomeda¹, Beatriz Martín García¹, Elena Hernandez-Garcia¹, C Nunila Gomez-De-Liano¹, Rakhee Shah², Julian Garcia Feijoo¹, Rosario Gomez-De-Liano¹ (¹Spain, ²The Neterlands, / United Kingdom)

208 T056 Choroidal thickness changes in myopic children using combination treatment of atropine eyedrops and defocus incorporated multiple segments (DIMS) spectacle lenses

Noemi Guemes Villahoz¹, Paula Talavero-Gonzalez¹, Paloma Porras-Angel¹, Alicia Ruiz-Pomeda¹, Rafael Bella-Gala¹, Elena Hernandez-Garcia¹, Beatriz Martín García¹, C Nunila Gomez-De-Liano¹, Rakhee Shah², Julian Garcia Feijoo¹, Rosario Gomez-De-Liano¹ (¹Spain, ²The Neterlands, / United Kingdom)

- 226 T058 Characterising spontaneous retinal venous pulsations in patients with idiopathic intracranial hypertension

 Mojtaba Golzan¹, Solmaz Bastani¹, Ashish Agar¹, Mitchell Lawlor¹, Sheng Chiong Hong², Renoh

 Chalakkal², Clare Fraser¹ (¹Australia, ²New Zealand)
- T062 Lenadogene nolparvovec gene therapy for leber hereditary optic neuropathy in the real-life setting

 Chiara La Morgia¹, Catherine Vignal-Clermont², Valerio Carelli¹, Patrick Yu-Wai-Man³, Mark

 Moster⁴, Robert Sergott⁴, Sarah Thornton⁴, Sean Donahue⁴, Hélène Dollfus², Thomas Klopstock⁵,

 Vasily Smirnov², Catherine Cochard², Marie-Benedicte Rougier², Pierre Lebranchu², Caroline

 Froment², Frederic Pollet-Villard², Claudia Prospero-Ponce⁴, Francis Munier⁶, Magali Taiel²,

 José-Alain Sahel⁴ (¹ Italy, ²France, ³United Kingdom, ⁴⁵Germany, ⁶Switzerland)
- The onset of photophobia: impact of acute bright light exposure on cellular and molecular changes from the retina to the brain

<u>Jiayi Zhang</u>, Jian Huang, Reboussin Elodie, Laurence Bourgeais, Stéphane Mélik Parsadaniantz, Réaux-Le Goazigo Annabelle (France)

275 T064 Indirect comparison of lenadogene nolparvovec gene therapy versus natural history in patients with m.11778G>A MT-ND4 leber hereditary optic neuropathy

Patrick Yu-Wai-Man¹, Nancy Newman², Mark Moster², Valerio Carelli³, Valérie Biousse², Prem Subramanian², Catherine Vignal-Clermont⁴, An-Guor Wang⁵, Sean Donahue², Bart Leroy⁶, Robert Sergott², Thomas Klopstock⁷, Alfredo Sadun², Gema Rebolleda Fernandez⁸, Bart Chwalisz², Rudrani Banik², Magali Taiel⁴, José-Alain Sahel² (¹United Kingdom, ²USA, ³Italy, ⁴France, ⁵Taiwan, ⁶Belgium, ⁷Germany, ⁸Spain)

342 T067 Machine learning analysis of visual field progression for dominant optic atrophy-OPA1

<u>Catarina Coutinho</u>, Ferdinando Zanchetta, Michele Carbonelli, Marco Battista, Alice Galzignato,
Chiara La Morgia, Giulia Amore, Martina Romagnoli, Luigi Brotto, Paolo Nucci, Leonardo
Caporali, Francesco Bandello, Valerio Carelli, Maria Lucia Cascavilla, Rita Fioresi, Piero Barboni
(Italy)

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16:50-18:05 | Hall 3.1



609 T084 Disease severity at baseline in Leber hereditary optic neuropathy patients from the Case Record Survey-2 with simultaneous versus sequential bilateral vision loss

Thomas Klopstock¹, Bart Leroy², Patrick Yu-Wai-Man³, Judith van Everdingen⁴, Maciej Krawczynski⁵, Valerio Carelli⁶, Xavier Llòria⁶ (¹Germany, ²Belgium, ³United Kingdom, ⁴The Netherlands,

⁵Poland, ⁶Italy)

645 T090 Impact of prematurity on ocular biometry and refractive development during the first years of life

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Merve Mutlu, Burcin Cakir (Türkiye)

16:50-18:05 | Hall 3.2



RV 53 - Management of geographic atrophy between Al-assisted multimodal imaging

This course provides a comprehensive approach to managing geographic atrophy (GA) secondary to age-related macular degeneration (AMD) by integrating advanced imaging, artificial intelligence (AI), and functional assessment. Participants will first explore the latest multimodal imaging techniques to enhance detection and monitoring of GA progression. The focus then shifts to the role of AI in quantifying lesion characteristics, tracking changes over time, and predicting disease trajectory. By leveraging Al-driven analysis, clinicians can gain deeper insights into GA evolution and refine monitoring strategies. Finally, the course examines how structural biomarkers correlate with functional vision loss including microperimetry, addressing the impact on patient quality of life and visual performance. Understanding these connections will allow for improved clinical decision-making, patient counseling, and future therapeutic strategies. This program equips clinicians with essential tools to optimize GA management.

Organizer: Gregor Reiter (Austria) Co-organizer: Enrico Borrelli (Italy)

16:50 Multimodal Imaging assessment of GA **Enrico Borrelli** (Italy)

17:06 Beyond the macula: the role of UWF imaging in geographic atrophy Daniela Bacherini (Italy)

17:22 Artificial intelligence to assess GA lesions and progression Ambresin Aude (Switzerland)

Linking structure to function in GA 17:38 **Gregor Reiter** (Austria)

17:54 Discussion



16:50-18:05 | Room 4



EOVS 54 - Vision beyond just visual acuity

With the identification of novel targets, the number of interventional clinical trials in ophthalmology has increased. Visual acuity has for a long time been considered the gold standard endpoint for clinical trials, but in the recent years it became evident that other endpoints are required for many indications including geographic atrophy and inherited retinal diseases. Numerous potential surrogate endpoints have been proposed, but their validation remains a complex challenge, requiring robust scientific evidence. In this symposium, we provide an overview of promising clinical endpoints in ophthalmology, with a particular focus on retinal diseases. We explore functional and structural biomarkers, as well as 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), engineering (Ghezzi), and neuroscience (Herzog). It features clinical findings from large-scale studies in age-related macular degeneration (AMD) and inherited retinal diseases (Scholl), advancements in neuroprostheses (Ghezzi), and extensive visual testing and statistical analysis in both patients and healthy controls (Herzog).

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

16:50 Beyond classic visual testing **Michael Herzog** (Switzerland)

17:11 Outcome measures to prove functional benefit of changes in retinal imaging **Hendrik Scholl** (Austria)

17:32 Testing behavioral end-points in naturalistic mazes using virtual and augmented reality **Diego Ghezzi** (Switzerland)

17:53 Discussion

18:05-18:50 | Welcome Reception

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08:30-09:15 | Room 2



Soubrane EVER Keynote Lecture

The retinal pigment epithelium (RPE) supports photoreceptors through key functions like outer segment phagocytosis and visual pigment replenishment. Regional differences in RPE sensitivity are implicated in diseases such as age-related macular degeneration (AMD) and choroideremia. However, most in vitro and animal models lack proper macular regions, limiting their disease modeling accuracy. This study aims to generate iPSC-derived macular and mid-peripheral RPE to better model regional RPE degeneration. Using Al-based software (REShAPE), we identified five RPE subpopulations, with P1 representing macular RPE and P3 representing mid-peripheral RPE. We screened 115 developmental pathway-targeting compounds to generate macular and mid-peripheral RPE from iPSCs. The RPE subtypes were assessed through morphology, barrier function, RNA sequencing, metabolism, and complement-induced stress assays. Macular iPSC-RPE displayed sheet-like apical processes, supported cones, relied on glycolysis, and showed higher AMD-like sensitivity. Mid-peripheral iPSC-RPE exhibited finger-like apical processes, supported rods, used oxidative phosphorylation, and were more resilient to stress. This model provides a more physiologically relevant platform for studying retinal diseases, drug screening, and targeted cell replacement therapies.

08:30 Introduction Lyubomyr Lytvynchuk (Germany)

08:35 Macular iPSC derived RPE reproduces regional sensitivity to AMD Kapil Bharti (USA)

09:05 Discussion



09:20-10:35 | Room 2



Young Investigators Session 1

Moderator: Andrzej Grzybowski (Poland), Christina Zeitz (France)

99	T001	Comparative study of the ciliary body in mice and humans: new structural and vascular insights <u>Patricia Jaramillo</u> , Ana Carretero, David Ramos González, Jesús Ruberte (Spain)
569	F049	Contribution of voltage-gated sodium and calcium channels to the excitability of menthol-sensitive corneal nerve terminals in mice Fernando Aleixandre-Carrera, Almudena Iñigo-Portugués, M Carmen Acosta, Juana Gallar, Victor Meseguer (Spain)
587	F054	Comparative evaluation of corneal and epithelial thickness measurements using spectral-domain and swept-source anterior segment optical coherence tomography in eyes with keratoconus Mirza Karamovic, Marika Wahlberg Ramsay, Branka Samolov, Abinaya Venkataraman 1 Alberto Dominguez-Vicent (Sweden)
268	S008	The relationship between the cellular retinal structure measured with adaptive optics scanning laser ophthalmoscope and retinal function measured with multifocal electroretinogram in late-onset retinal degeneration Stephanie Quinn, Penny Lawton, Andrew Browning, Laura Young (United Kingdom)
564	F095	Short-term high-dose nicotinamide treatment across glaucoma subtypes reveals increased mitochondrial DNA content and minimal metabolomic changes in blood Simon Gustavsson ¹ , Antoni Vallbona Garcia ² , James Tribble ¹ , Pete Williams ¹ , Gauti Johannesson ¹ , Theo Gorgels ² , Birke Benedikter ² , Hubert Smeets ² , Patrick Lindsey ² , Carroll Webers ² (¹ Sweden, ² The Neterlands)
633	F100	Regional disparities in glaucoma diagnosis and surgery in Denmark: urgent need for increased resources <u>Jeppe Samuelsen</u> , Christina Eckmann-Hansen, Kim Holmgaard, Hadi Kjærbo, Miriam Kolko (Denmark)
191	T003	Optical coherence tomography biomarkers in Vogt-Koyanagi-Harada disease: a longitudinal analysis of choroidal vascularity index and choroid thickness <u>Vasco Lobo</u> , Afonso Lima-Cabrita, Rafael Whitfield, Filomena Pinto, Sofia Mano, Ines Leal (Portugal)
348	F116	Quantitative cataract grading based on blue-light autofluorescence confocal imaging

Alessandro Arrigo, Emanuela Aragona, Francesco Bandello (Italy)



09:20-10:35 | Room B



NSPH 50 - Optic neuropathies - from mechanisms to therapies

Optic neuropathies encompass a diverse group of disorders affecting the retinal ganglion cells and the optic nerve, often leading to irreversible vision loss. Recent advances in genetics, molecular biology, and neuroprotection are transforming our understanding of these conditions and paving the way for novel therapeutic approaches. This symposium will bring together leading experts to explore the latest breakthroughs, from disease mechanisms to innovative interventions. The session will begin with an overview of the expanding genetic landscape of inherited optic neuropathies, highlighting newly identified mutations and their implications for diagnosis and treatment. Next, we will examine how retinal ganglion cells serve as early biomarkers of metabolic and mitochondrial dysfunction in LRRK2 Parkinsonian models, offering insights into neurodegenerative disease intersections. We will then present an update on OPA1 rescue by trans-splicing, a promising strategy to restore mitochondrial function in dominant optic atrophy. Finally, we will introduce the mitoVISION-IQ, a novel tool designed to measure quality of life in clinical trials for inherited optic neuropathies, ensuring that patient-centered outcomes remain at the forefront of therapeutic development. This session will provide a comprehensive view of cutting-edge research in optic neuropathies, bridging fundamental mechanisms with translational and clinical advances.

Organizer: Neringa Jurkute (United Kingdom)

Co-organizer: Raoul Kanav Khanna

09:20 The expanding genetic landscape of inherited optic neuropathies Claudio Fiorini (Italy)

- 09:36 Use of retinal ganglion cells for early detection of metabolic and mitochondrial dysfunction in LRRK2 Parkinsonian models **Gloria Cimaglia** (United Kingdom)
- OPA1 rescue by trans-splicing an update **Aymane Bouzidi** (France)
- 10:08 Developing the mitoVISION-IQ for measuring quality of life in clinical trials of inherited optic neuropathies **Benson Chen** (United Kingdom)
- 10:24 Discussion

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09:20-10:35 | Hall 3A



Moderators: Mohamed Geneid (Finland), Wiktor Stopyra (Poland)

Evaluators: Rafael I. Barraquer (Spain), Justin Christopher D'Antin (Spain)

77	F108	Refractive errors after cataract surgery Rym Maamouri, Molka Ferchichi, Riahi Souhir, Aouni Jaafer, Monia Cheour (Tunisia)
79	F109	Comparison of corneal power assessment methods for true corneal power after myopic small-incision lenticule extraction
		Xiaoling Fang, Jiannan Huang, Leilei Wang, Wenwen Xue, Xia Chen (China)
93	F110	Accuracy of twenty intraocular lens power calculation formulas in long eyes <u>Wiktor Stopyra</u> ¹ , Oleksiy Voytsekhivskyy ² , Andrzej Grzybowski ¹ (¹Poland, ²Ukraine)
105	F112	Ophthalmological manifestations and visual outcomes of electical and lightning trauma: a systematic review Maria Piedrahita, Felipe Pineda, Felipe Moreno, Maria Estevez, Nicolas España, Viviana Infante, Germán Mejía-Salgado, Carlos Cifuentes, Diana Rey, Laura Rodriguez-Camelo, Alejandra de-la-Torre (Colombia)
256	F114	Influence of axial length on target refraction after intraocular lens implantation in children under 2 years of age Alejandro Alcaide Costa, Eva Calpe, Gemma Julio, Rafael Barraquer, <u>Javier Perez</u> (Spain)
301	F115	Systemic medications associate with cataract surgery in patients over 50 years <u>Sirpa Loukovaara</u> , Antti Riikonen, Tuomas Lilius, Jari Haukka (Finland)
494	F117	Historical overwiev of the studies about epidemiolgy of myopia Olavi Pärssinen (Finland)
516	F119	Impact of cataract surgery on scotopic and photopic mydriasis <u>Inês Mendo</u> , Mariana Vaz, João Vaz, Filipe Moraes, Inês Machado, Tomas Loureiro, Nuno Campos (Portugal)



09:20-10:35 | Hall 3.1



Moderator: Bernardo Monteiro (Portugal)

Evaluator: Barbara Cvenkel (Slovenia), Miriam Kolko (Denmark)		
164	F069	Galectin-3 is associated with Müller cells in glaucoma <u>Anne Rombaut</u> , Alan Nicol, Rune Brautaset, Pete Williams, James Tribble (Sweden)
182	F070	Evaluation of synthetically generated optical coherence tomography images Damon Wong ¹ , Ashish Jith ¹ , Jacqueline Chua ¹ , Leopold Schmetterer ^{1,2} (¹ Singapore, ² Austria)
207	F071	Proteomics analyses of ocular small extracellular vesicles in glaucoma <u>Ana Guzman Aranguez</u> , Raquel Rejas-Gonzalez, Ana Montero-Calle, Rodrigo Barderas, <u>Natalia Pastora Salvador, María José Crespo Carballes, Juan Snachez-Naves</u> (Spain)
238	F073	Impact of preserved and preservative-free latanoprost eye drops on calcium regulation in conjunctival goblet cells <u>Umalbaninn Alnoor</u> ¹ , Jeffrey A. Bair ² , Steffen Heegaard ¹ , Miriam Kolko ¹ (¹ Denmark, ² USA)
270	F075	Tolerability of preservative-free latanoprost/timolol fixed combination versus preserved bimatoprost/timolol in patients with open-angle glaucoma or ocular hypertension - The AdEQUATE study Julian Garcia Feijoo¹, Leopold Schmetterer²,³, Noemí Guemes¹ (¹Spain, ²Singapore, ³Austria)
325	F076	A clinical evaluation of a virtual reality headset-based visual field test compared to standard automated perimetry in healthy volunteers and glaucoma patients Maribel Espinosa-Cabrera (United Kingdom)
351	F080	How short is too short? Evaluating postoperative survival after glaucoma surgery in a real-world cohort Bernardo Monteiro, Rafael Whitfield, Vasco Lobo, Emanuel Fernandes, Dina Costa, Nuno Amaro, Miguel Santos, André Diogo Barata, Rafael Correia Barão, Luis Abegão Pinto (Portugal)
431	F082	Exploring the associations of self-reported glaucoma and physical activity: findings from a danish eye and vision cohort - Project FOREVER Thao Tran, Jens Rovelt Andreasen, Josefine Freiberg, Christina Eckmann-Hansen, Miriam Kolko (Denmark)
450	F083	Sigma-1 receptor activation represents a novel therapeutic strategy for ocular hypertension <u>Judit Hodrea</u> 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 ^{1,1} , Dr. Fekete Andrea ^{1,2} (¹ Hungary, ² USA)
455	F086	Challenges in glaucoma diagnosis: agreement in clinical diagnosis and deep learning glaucoma screening Joana Pargana ¹ , Afonso Lima-Cabrita ¹ , Rafael Whitfield ¹ , Vasco Lobo ¹ , Bernardo Monteiro ¹ , Sanna Leinonen ² , Ana Miguel ³ , Marta Pazos ⁴ , Panayiota Founti ⁵ , Rafael Correia Barão ¹ , Ingeborg Stalmans ⁶ , Luis Abegão Pinto ¹ (¹ Portugal, ² Finland, ³ France, ⁴ Spain, ⁵ United Kingdom, ⁶ Belgium)
642	F101	Ensuring reliable glaucoma detection with deep learning: the critical role of calibration and evaluation practices Marcel Reimann, Peter Tejlgaard Kampen, Josefine Vilsbøll Sundgaard, Miriam Kolko Anders Bjorholm Dahl (Denmark)

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09:20-10:35 | Hall 3.2



RV 58 - Retinal fibrosis: molecular mechanisms and emerging therapeutic strategies

Retinal fibrosis is a major clinical challenge that contributes to vision loss in several retinal diseases, including diabetic retinopathy, age-related macular degeneration (AMD), retinopathy of prematurity, and proliferative vitreoretinopathy. Current therapeutic approaches remain largely ineffective, likely due to a limited understanding of the molecular and cellular mechanisms underlying fibrosis in the retina. This symposium will foster innovative discussion through bringing together experts in retinal cell biology, fibrosis, and translational research to discuss recent advances in understanding the pathophysiology of retinal fibrosis and explore innovative therapeutic strategies. Symposium Objectives: to discuss the molecular and cellular mechanisms of retinal fibrosis; to discuss emerging therapeutic strategies for preventing or treating fibrosis; to foster collaboration between researchers, and clinicians in the field of retinal diseases.

Organizer: Mohamed AL-Shabrawey (USA) Co-organizer: Manuela Bartoli (USA)

- 09:20 Bone morphogenetic protein signalling and retinal fibrosis Mohamed AL-Shabrawey (USA)
- 09:3 MicroRNA-21 (miR-21) as a new player in retinal fibrosis Manuela Bartoli (USA)
- A novel approach to target EMT and MMT in retinal fibrosis 09:46 Mei Chen (Ireland)
- 09:59 Cellular and molecular tracing of myofibroblast origins in the choroidal neovascularization model of age-related macular degeneration Katia Corano Scheri (USA)
- 10:12 Role of inflammation in subretinal fibrosis secondary to nAMD Heping Xu (China)
- 10:25 Discussion



09:20-12:05 | Room 4



EVER-CORONIS Foundation - Ocular surface innervation disorders

In the past, the role of sensory nerves in ocular surface disorders received little attention in ophthalmology. However, growing awareness of eye discomfort and pain, especially in common ocular surface conditions and following modern anterior segment surgeries, has shifted this view over the last few decades. An important function of corneal nerves is the trophic maintenance of ocular tissues, which is particularly impaired in diabetes. There is now growing evidence highlighting the essential interaction between peripheral sensory nerves and ocular tissues, along with a dynamic relationship between the nervous and immune systems, which can become dysregulated in disease. The 2025 Coronis Ocular Surface Biennial Symposium will begin with a plenary lecture and the presentation of the Endre A. Balazs Medal to Professor Reza Dana, in recognition of his significant contributions to our understanding of the influence of corneal nerves on immune, epithelial, and endothelial function. The program will continue with expert presentations on advances in ocular surface regeneration, the diagnosis and treatment of neuropathic ocular pain, and the role of corneal nerves in dry eye disease and viral keratitis.

Chairman: Jesús Merayo LLoves (Spain)

09:20 Introductory remarks

Jesús Merayo LLoves (Spain)

09:25 Presentation of the Endre A. Balazs Medal 2025 to Professor Reza Dana **Wolfgang Müller-Lierheim** (President of the CORONIS Foundation)

09:30 Endre A. Balazs Prize Lecture
Corneal nerves and the regulation of immunity, epithelial, and endothelial function
Reza Dana (USA)

10:10 Regeneration of the ocular surface with plasma rich in growth factors **Jesús Merayo LLoves** (Spain)

10:35 Coffee break

11:05 Diagnosis and management of neuropathic ocular pain **Pedram Hamrah** (USA)

11:20 Corneal nerve involvement in dry eye disease **Victor Perez Quinones** (USA)

11:35 Corneal nerve involvement in viral keratitis **Paolo Rama** (*Italy*)

11:50 Closing remarks

Jesús Merayo LLoves (Spain)

10:35-11:05 | Coffee break

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11:05-12:05 | Poster Area



12:10-12:55 | Room 2



The eye and the brain are considered to display "immune privilege" (IP), a term that was introduced to explain why corneal allografts were accepted but skin allografts were rejected. Similar allografts to the brain and to the anterior chamber of the eye had previously been shown not to be rejected. Over time, the concept was extended to consider the CNS as a privileged site to all foreign antigens but the evidence that the CNS provides a privileged environment for infectious agents has been less strong. The tissue environment plays a role in determining the outcome of the host-microbe interaction. The CNS (the brain parenchyma and the retina) has a tightly regulated immune response, mediated mainly through parenchymal microglia and perivascular macrophages. In contrast, the CNS border tissues (leptomeninges, uveal tract) both house a sizeable complement of resident immune cells which maintain homeostasis and act as "guardians" of immunity in CNS. The AIDS epidemic revealed how defective immunity led to the emergence of opportunistic CNS infections in immunodeficient individuals, suggesting that in immunocompetent individuals these organisms persist as latent infections. A relationship between latent CNS infection and CNS immunity (IP) may exist and possible mechanisms are discussed.

12:10 Introduction Jarmila Heissigerova (Czech Republic)

Infection control in the CNS 12:15 John Forrester (United Kingdom)

12:45 Discussion



13:05-14:05





14:15-15:30 | Room 2



Moderator: Andrzej Grzybowski (Poland), Christina Zeitz (France)

309	T017	Identification and functional validation of a novel disease-causing variant in the non-coding region of NYX <u>Filip Spanic</u> , Michiels Christelle, Julien Navarro, Aline Antonio, Christel Condroyer, Sylvie Berthémy-Pellet, Isabelle Audo, Christina Zeitz (France)
499	T076	Late-onset Leber hereditary neuropathy: study in a large Italian cohort Marco Battista, Michele Carbonelli, Luigi Brotto, Giulia Amore, Catarina Coutinho, Martina Romagnoli, Alice Galzignato, Paolo Nucci, Leonardo Caporali, Maria Lucia Cascavilla, Claudio Fiorini, Chiara La Morgia, Valerio Carelli, Piero Barboni (Italy)
684	T095	Evaluation of vascular index by optical coherence tomography angiography in patients with ischemia-related paralytic strabismus Seren Kaplan Gungordu, Burcin Cakir, Nilgun Ozkan Aksoy, Meryem Dilara Kilic (Türkiye)
510	S038	Extracellular vesicle therapy for sepsis-induced neurodegeneration: influence of host sex and transplant compatibility Jhoana Abigail Guarnizo-Campoverde, Kristy Tatiana Rodríguez Ramírez, David García Bernal, Fernando Lucas-Ruiz, Jesus Isais Gil Chinchilla, Caridad Galindo-Romero, Maria José Ruiz- Pastor, Marta Agudo-Barriuso (Spain)
350	T102	Evaluation of tarsorraphy in patients undergoing parotidectomy for oncological disease: a multidisciplinary assessment <u>Tomaz Oliveira</u> , Ricardo Nogueira (Portugal)
315	S069	Innovative automated imaging approach for quantitative analysis of retinal glial cells <u>Lidia Sánchez-Puebla</u> , Miguel A. Sánchez-Puebla, Ana Granados, Valentín Moreno, Ana Isabel Ramirez, Jose Manuel Ramirez, Juan Llorens, Inés López-Cuenca (Spain)
447	S090	Evaluating the consequences of appointment delays on AMD progression at the Western Eye Hospital during the COVID-19 lockdown Inés López-Cuenca ¹ , Lorenzo Fabozzi ² , Saad Younis ² , Ahmad Ali ² , Francesca Cordeiro ² (¹ Spain, ² United Kingdom)

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28th EVER 9-11 October 2025 **Florence**



14:15-15:30 | Room B



NSPH 89 - Genetic factors and clinical manifestations in developmental eye disorders: the current state and future directions

Over the past 25 years, we have collected a cohort of over 1,000 genetically unexplained families affected with pediatric ocular disorders including early-onset cataract or glaucoma, aniridia/iris hypoplasia, corneal opacities, Axenfeld-Rieger anomaly, complex microphthalmia, and other developmental phenotypes. Through targeted gene sequencing, copy number variation analysis, and exome/genome sequencing in families affected with these disorders, we successfully identified a genetic etiology for ~50% of these families, with varying success rate for specific phenotypes. These studies identified multiple novel genes previously not associated with human disease as well as uncovered novel disease mechanisms or phenotypic extensions for known factors. However, our knowledge regarding the genetic factors involved in developmental ocular phenotypes remains incomplete and we are diligently working to identify new causes, through cutting-edge analyses of sequencing data, functional studies in zebrafish, human cell culture, and iPSC-derived disease models. This presentation will include discussion of novel approaches and exciting new candidates to explain additional families with a broad range of developmental ocular phenotypes with different clinical manifestations.

Organizer: **Elena Semina** (USA) Co-organizer: **Huban Atilla** (Türkiye)

- 14:15 Genetic factors in developmental eye disorders Elena Semina (USA)
- 14:36 Developmental eye disorders as rare diseases **Dominique Bremond-Gignac** (France)
- 14:57 Clinical manifestation of developmental eye disorders **Huban Atilla** (Türkiye)
- 15:18 Discussion



14:15-15:30 | Hall 3A



Moderators: Adrian Smedowski (Poland), Michele Madigan (Australia)

562	F046	Preoperative ocular surface inflammation in corneal transplant candidates: role of HLA-DR expression Silvia Odorici, Carmen Ciavarella, Michele Potenza, Daniela Pollutri, Antonio Moramarco, Luigi Fontana, Piera Versura (Italy)
146	F009	Effects of DFL24498 on proinflammatory innate and adaptive immune cell responses in vitro and in a translational murine model of atopic keratoconjunctivitis Marta Sacchetti, Anna Sirico, Maria De Lucia, Rafael Cypriano Dutra, Rubina Novelli, Giuseppina Vicaretti, Anna Lucia Valeri, Maria Concetta Dragani, Tiziana Romeo, Andrea Aramini, Marcello Allegretti (Italy)
225	F017	Injectable bioengineered hydrogel for the delivery of cells and extracellular vesicles to the conjunctiva Laura García-Posadas¹, Ismael Romero-Castillo¹, Antonio López-García¹, Mark Ahearne², Yolanda Diebold¹ (¹Spain, ²Ireland)
312	F024	Novel artificial intelligence approaches for redness hyperemia analysis <u>Nico Curti</u> , Tommaso Giacometti, Luigi Fontana, Gastone Castellani, Piera Versura (Italy)
535	F042	Outcomes of posterior approach ptosis repair: 5-year retrospective study at a tertiary referral center <u>Tiago das Neves</u> , Joana Ferreira, Ricardo Costa-Gertrudes, Pedro Lopes, Ana Magriço (Portugal)
556	F045	Diesel exhaust particles exposure disrupts lipid metabolism in immortalised meibomian gland epithelial cells Ha Duong, V Cioanca, Minh Phan, Michele Madigan, Blanka Golebiowski (Australia)
578	F052	Evaluation of cross-linking of donor corneas following therapeutic keratoplasty in cases of infectious keratitis <u>Sushma Nandyala</u> , Aafreen Bari, Himanshu Khandelwal, Namrata Sharma (India)
607	F056	Clinical proteomics characterized age- and tear secretion-associated molecular changes in dry eye syndrome Natarajan Perumal, Hao Lin, Anna Lindner, Adina Glasmacher, Bettina Multani, Caroline Manicam (Germany)
613	F058	Extracellular vesicles and exosomes in corneal graft integration Grace Lin, Neethi Thathapudi, Mostafa Zamani-Roudbaraki, Marie-Claude Robert, May Griffith (Canada)
623	F059	Examination of the potential influence of baseline corneal fluorescein staining score on dry eye symptom improvement in patients treated with ciclosporin 0.1% cationic emulsion: analysis of data from the PERSPECTIVE study Anita Reynolds ¹ , Elisabeth M. Messmer ² , Ines Lanzl ² (1 United Kingdom, 2 Germany)

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14:15-15:30 | Hall 3.1



Moderators: Mohamed AL-Shabrawey (USA), Ivan Borjan (Croatia)

Evaluators: Maciej Gawęcki (Poland), Lyubomyr Lytvynchuk (Germany)

124	S050	Bone morphogenetic protein signaling and retinal fibrosis Mohamed AL-Shabrawey ¹ , Sonali Sharma ¹ , Ikbal Karkoukli ¹ , Alee Asaaf ¹ , Muhammad Haque ¹ , Gieth Alahdab ¹ , Mohamed Tarek ^{1,2} , Yuji Mishina ¹ (¹ USA, ² Egypt)
157	S051	Biodegradable ultrathin nanofibrous carrier for retinal tissue engineering: optical, mechanical and degradation properties Hana Studenovska, Mourad Souibgui, Jitka Nováčková, Vladimír Proks, Jiří Hodan, Věra Cimrová (Czech Republic)
1 <i>7</i> 1	S052	Diabetes and diabetic retinopathy in Finland during 2000-2017 based on nationwide survey and register data Petri Purola , Seppo Koskinen, Hannu Uusitalo (Finland)
206	S0 <i>57</i>	Escherichia coli Nissle 1917 as an adjuvant therapy reduces inflammation severity in experimental autoimmune uveitis Klara Dusova, Petra Prochazkova, Aneta Klímová, Monika Rova, Nikolina Canova, Jarmila Heissigerova, Miloslav Kverka, Radka Roubalova, Janet Jezkova, Michaela Brichova, Petra Svozilkova (Czech Republic)
217	S060	Retinal vascular changes in mild cognitive impairment using SD-OCT angiography: pilot study <u>Lorena Elvira-Hurtado</u> , Inés López-Cuenca, Lidia Sánchez-Puebla, José A. Matamoros, José A. Fernández-Albarral, Mario Salas-Carrillo, Pedro Gil, Ana Isabel Ramirez, Juan Jose Salazar, Rosa De Hoz, Jose Manuel Ramirez, Elena Salobrar-Garcia (Spain)
221	S061	Detecting retinal alterations in vascular dementia using OCT and OCTA Lorena Elvira-Hurtado, Inés López-Cuenca, Lidia Sánchez-Puebla, José Antonio Matamoros, José A. Fernández-Albarral, Mario Salas-Carrillo, Pedro Gil, Ana I. Ramírez, Juan Jose Salazar, Rosa De Hoz, Jose Manuel Ramirez, Julian Garcia Feijoo, Elena Salobrar-Garcia (Spain)
222	S062	Evaluation of two novel riboflavin-based dyes for safe and effective vitreoretinal staining Mario Troisi, Ciro Caruso, Carmine Ostacolo, Ciro Costagliola (Italy)
311	S068	Long-term outcomes of bilateral injection of lenadogene nolparvovec gene therapy for leber hereditary optic neuropathy Nancy Newman¹, Patrick Yu-Wai-Man², Prem Subramanian¹, Sarah Thornton¹, An-Guor Wang³, Sean Donahue¹, Bart Leroy⁴, Valerio Carelli⁵, Valérie Biousse¹, Catherine Vignal-Clermont⁶, Alfredo Sadun¹, Robert Sergott¹, Gema Rebolleda Fernández², Bart Chwalisz¹, Rudrani Banik¹, Magali Taiel⁶, José-Alain Sahel¹ (¹USA, ²United Kingdom, ³Taiwan, ⁴Belgium, ⁵Italy, ⁶France, ⁻Spain)
364	S076	Structural, morphology and evolution study of AMD drusenoid deposits with OCT and morphology-structural software Corinne Gonzalez (France)
369	S079	Randomized, controlled study to investigate the efficacy and safety of resveratrol vitamin supplements in patients with non-proliferative diabetic retinopathy without macular edema (REVOLUTION study) Chrysa Agapitou, Alexia Risi-Koziona, Eleni Dimitriou, Stamatios Lampsas, Panagiotis Theodossiadis, Irini Chatziralli (Greece)
442	S089	Impact of ectopic internal retinal layers in postoperative outcomes of idiopathic epiretinal membrane <u>João Castro Cabanas</u> , Daniel Ferreira Cardoso, Pedro Martins, Catarina Ferreira, Filipe Sousa Neves, Miguel Bilhoto, Paula Sepúlveda (Portugal)



14:15-15:30 | Hall 3.2



Moderators: Thibaud Garcin (France), Beatriz Vieira (Portugal)

- High-purity functional corneal endothelial cells from human induced pluripotent stem cells via a novel wash-out method Kyu Sang Eah, Eun-Ah Ye, Changmin Kim, Ryun Hee Lee, Yeji Yoon, Jiyoon Park, Jae Yong Kim, Hun Lee (South Korea)
- The soluble guanylate ciclase stimulator BAY 41-2272 attenuates transforming growth factor Beta 1-induced myofibroblast differentiation of human corneal keratocytes

 Matilde Buzzi, Rita Mencucci, Mirko Manetti (Italy)
- A meta-analysis of the efficacy of trehalose/hyaluronic acid eyedrops on dry eye signs and symptoms

 <u>Piera Versura</u>¹, Antonio Mateo-Otobia², Alexandros Gryparis³, Foteini Zarokosta³, Chiambaretta

 <u>Frédéric⁴</u> (¹Italy, ²Spain, ³Greece, ⁴France)
- Theranostic-guided corneal cross-linking in progressive keratoconus: insights from the Siena experience

 Elia Chiavetta, Mario Fruschelli, Rita Mencucci, Alberto Carnicci, Matilde Buzzi, Marco Lombardo (Italy)
- Relationship between lifestyle habits and corneal biomechanics and segmental biometry in myopic eyes

 <u>Beatriz Vieira</u>, Gabriel Santos, João Heitor Marques, Renato Ambrósio, Pedro Menéres, João Melo
 <u>Beirão</u>, Pedro Baptista (Portugal, Brazil)
- Light discomfort thresholds under different lighting conditions in healthy subjects and dry eye patients

 Filippo Lixi¹, Giulia Coco¹, Claudia Corda¹, Edoardo Villani¹, Alessandra Curci¹, Carina Slidsborg²,

 Giuseppe Giannaccare¹ (¹Italy, ²Denmark)

14:15-15:30 | Room 4



EOVS 73 - Vision requirements within demanding work environments

The content and topics of interest we put forward this year are new and reflect the continued importance and wide range of vision standards within visually demanding occupations. Visual performance can be affected by many different stimulus attributes. Vision standards set within each occupation must ensure that those applicants who pass can perform all suprathreshold, safety-critical tasks within that environment as well as normal trichromats (who have no visual / ocular disabilities). Safety cannot be compromised, but safety-critical tasks always employ suprathreshold stimuli that are well above the expected upper normal threshold limits. It is therefore also important to ensure that the standards we set do not discriminate against those applicants with mild deficiencies who are able to carry out visually demanding tasks as well as applicants with normal vision. The papers selected for presentation in this symposium focus on four key aspects of occupational vision that remain controversial.

Organizer: John Barbur (United Kingdom)

Co-organizer: Marisa Rodriguez-Carmona (United Kingdom)

- 14:15 The effects of long-term work in mesopic environments on different aspects of functional vision **Rafaela Garrido Mercado** (Spain)
- 14:28 Improvements in colour vision assessment for train drivers

 Marisa Rodriguez-Carmona (United Kingdom)
- 14:41 Changes in visual performance at lower light levels **John Barbur** (*United Kingdom*)
- 14:54 Spatial vision following corneal refractive surgery comparison with multifocal intraocular lenses Ayse Özpinar (Türkiye)
- 15:07 Refractive surgery in flying occupations **Frank Jakobs** (Germany)
- 15:20 Discussion

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28th EVER 9-11 October 2025 Florence



15:35-16:15 | Room 2



Missoten EVER Keynote Lecture

As a Neurologist with an interest in visual disorders I have seen many patients affected by Occipital Lobe disorders. These range from visual loss (hemianopia and cortical blindness) through to positive symptoms and hallucinations. My career has spanned an era where advances in clinical assessment on the one hand and in basic science on the other have resulted in a vast mutually beneficial increase in knowledge. In my talk I hope to convince the EVER community of the continuing benefits to science and to patients of this approach.

15:35 Introduction

Marisa Rodriguez-Carmona (United Kingdom)

15:40 40 years with the occipital lobe Gordon Plant (United Kingdom)

16:05 Discussion



16:15-16:45 | Coffee break

16:45-18:00 | Room 2



LC 74 - New technologies and innovations in cataract surgery

Cataract surgery is one of the most common and successful surgical procedures performed in the world today. Although cataract surgery is already an extremely safe and effective treatment for visual restoration in patients with cataract, it is constantly evolving and improving with the aim to deliver the best possible clinical outcomes in terms of safety and visual results. In this special interest symposium, we will highlight significant advancements and innovations in cataract surgery, expanding from modern Al-assisted IOL power calculation to digital navigation-assisted implantation of toric IOLs, and from femtosecond laser-assisted cataract surgery to the latest IOL technology. The purpose of this symposium is to provide useful insights into current advancements in cataract surgery not only to novice surgeons, but also to seasoned experts, thereby improving their clinical and surgical practice.

Organizer: **Zisis Gkatzioufas** (Switzerland) Co-organizer: Andrzej Grzybowski (Poland)

- 16:45 What AI can add to cataract surgery: update 2025 Andrzej Grzybowski (Poland)
- 16:58 Digital navigation-assisted implantation of toric IOLs Zisis Gkatzioufas (Switzerland)
- 17:11 Arc stérile: a new surgical space for cataract surgery Louis Arnould (France)
- 17:24 Evolution of IOL technologies Mayank Nanavaty (United Kingdom)
- 17:37 Accommodating IOLs, evolution and future Rafael I. Barraquer (Spain)
- 17:50 Discussion



16:45-18:00 | Room B



COS 27 - Neuroimmune crosstalk in the cornea: new insights into sensory and immune interactions

The concept of corneal "immune privilege" has been extensively studied since its initial conception. The cornea is endowed with a significant population of resident immune cells, whose function in ocular physiology extends beyond pathogen defence. Interactions between these immune cells and other corneal components, such as sensory nerves, appear to play a crucial role not only in inflammatory and pathological conditions but also in maintaining corneal homeostasis. In this symposium, we will discuss the latest advances in corneal neuroimmune interactions research and their potential implications for health and disease, presented by leading experts and promising early-career researchers in the field. To encourage the participation of young investigators, one presentation will be selected from the abstracts submitted by early-career researchers in the field.

Organizer: M. Carmen Acosta (San Juan de Alicante)

Co-organizer: Laura Frutos-Rincón (Spain)

16:45 Corneal neuropathy: cause or consequence **Reza Dana** (USA)

17:01 Corneal neuroimmune interactions and pain: unraveling the complex connections **Annabelle Réaux-Le Goazigo** (France)

17:17 Uncovering functional interactions between dendritic cells and sensory nerves in the healthy cornea **Laura Frutos-Rincón** (Spain)

17:33 Neuroinflammation: connecting pain and inflammation **Giulio Ferrari** (Italy)

17:49 Discussion

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



EOVS 79 - Innovative early-age-related macular degeneration (AMD) phenotyping

The Symposium explores cutting-edge methods for early Age-Related Macular Degeneration (AMD) detection through imaging and computational analysis. The first session introduces the need for Early AMD biomarkers, emphasizing the challenges of applying traditional clinical grading schemes to Optical Coherence Tomography (OCT) images, and closing with clinical implications for early AMD screening and progression monitoring. Lisa Nivison-Smith presents RPE curvature analysis highlighting its correlation with drusen development and its potential for early AMD screening. The next talk by Thomas Peschel focuses on exact drusen masking as ground truth, comparing manual, semi-automated, and fully automated segmentation methods to enhance AMD classification and progression assessment. Marcus Wagner describes feature recognition by descriptomics as innovative early AMD phenotyping. He introduces stereology as a robust method for quantifying drusen volume, providing statistical advantages over binary segmentation. A panel discussion addresses the integration of AI and statistical models, standardization challenges, and clinical translation. The symposium fosters interdisciplinary collaboration to advance AMD phenotyping and precision medicine.

Organizer: **Franziska G. Rauscher** (Germany) Co-organizer: **Marcus Wagne**r (Germany)

- 16:45 Retinal pigment epithelium (RPE) curvature as an early AMD biomarker **Lisa Nivison-Smith** (Australia)
- 17:03 Exact masking of drusen by desktop application for manual grading of Early-AMD lesions Precision in AMD segmentation **Thomas Peschel** (Germany)
- 17:21 Recognition of Early-AMD lesions in retinal OCT scans by descriptomics **Marcus Wagner** (Germany)
- 17:39 Discussion

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16:45-18:00 | Hall 3.1



RV 77 - Saving the macula: novel aspects of pathology and treatment strategies in retinal diseases

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Macular preservation remains a critical challenge in the management of retinal diseases, where novel therapeutic strategies are rapidly evolving. This session, "Saving the Macula: Novel Aspects of Pathology and Treatment Strategies in Retinal Diseases," will explore groundbreaking approaches in gene and cell-based therapies, innovative drug delivery methods, and advancements in genetic testing for retinal disorders. Experts from leading institutions will discuss emerging treatments for age related macular degeneration, stem cell transplantation, and vision restoration techniques. Attendees will gain insight into cutting-edge research and clinical applications, fostering a deeper understanding of how modern ophthalmology is reshaping the future of retinal disease management.

Organizer: Lyubomyr Lytvynchuk (Germany) Co-organizer: Stephen Schwartz (USA)

- 16:45 The role for genetic testing in AMD care Stephen Schwartz (USA)
- 16:58 Cell-based therapy of retinal disorders Kapil Bharti (USA)
- 17:11 Developing a new delivery route for stem- and gene-based therapy of retinal diseases Lyubomyr Lytvynchuk (Germany)
- 17:24 A model for de novo pigmentation of amelanotic retinal pigment epithelial cells for cell-based therapy Goran Petrovski (Norway)
- 17:37 How to help patients who losing their vision: update on vision aid Marc Levy (USA)
- 17:50 Discussion

16:45-18:00 | Hall 3.2



MBGE 48 - Contribution of genetic and environmental factors to the development and protection of myopia

Myopia, also called nearsightedness, is a condition in which objects in the distance are blurred. Both, genetic and environmental factors may cause this condition. Recent findings have shown that myopia is the most common ocular disorder worldwide with an increasing prevalence in the last 40 years. It is predicted that the worldwide prevalence of myopia will increase from the current 25 to 50% in the next three decades, while the prevalence already exceeds 80% in several parts of Asia. Isolated myopia is rare, which represent a non-syndromic severe myopia, which may be associated with cataract and retinal detachment that may lead to blindness. In addition, high myopia may also occur in other rare disorders, e.g. in retinal disorders like retinitis pigmentosa and congenital stationary night blindness. The aim of this symposium is to summarize the knowledge of myopia in respect to clinical aspects of myopia, the identification of candidate genes and environmental factors by genome-wide association studies and by in vivo modeling.

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

- 16:45 Myopia and OCT Falk Schrödl (Austria)
- 17:00 Importance of phenotyping patients with myopia Isabelle Audo (France)
- 17:15 Focus on Mendelian myopia & treatment Virginie Verhoeven (The Netherlands)
- 17:30 Shedding light of myopia using mouse models in inherited retinal disorders **Baptiste Wilmet** (France)
- 17:45 Next generation myopia control lenses concept and clinical results Saoirse McCrann (Ireland)



16:45-18:00 | Room 4



PBP 90 - Standardization and excellence in Ophthalmology Training Across Europe: Surveys and Opportunities

Organizer: **Helena Prior Filipe** (*Portugal*) Co-organizer: **Rimvydas Asoklis** (*Lithuania*)

16:45 Cataract / surgical training in Europe **Marcin Stopa** (*Poland*)

17:01 ETR and EPAs in ophthalmology **Helena Prior Filipe** (Portugal)

17:17 Increased mobility within training centers with EBO grants **Huban Atilla** (*Türkiye*)

17:33 Fellowship and other post residency training: EBO surveys **Barbara Cvenkel** (Slovenia)

17:49 Discussion

18:00-18:45 | Room 2



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08:30-09:15 | Room 2



An overview on new diagnostics regarding ocular surface neoplasia will be discussed, This includes high resolution optical coherence tomography, in vivo confocal microscopy and high resolution UBM. Furthermore, new clinical observations along with treatment modalities for conjunctival melanoma including targeted therapy and the use of check point inhibitors for metastases will be discussed. Malignant lymphoma of the conjunctiva, clinics along with treatment modalities such as low dose radiation therapy will be discussed. Conjunctival squamous cell carcinoma will be presented with clinical signs, two different subtypes due to HPV positivity, treatment modalities and new immunotherapy.

08:30 Introduction

Kai Kaarniranta (Finland)

08:35 Current developments in the diagnosis and therapy of ocular surface neoplasias

Steffen Heegaard (Denmark)

09:05 Discussion



09:15-10:30 | Room 2



MBGE 49 - Disease modelling in inherited retinal disorders

Measuring protein biomarkers in individual, living RP patients could help clarify the molecular and cellular factors underlying RP. We integrated microvolume liquid biopsy proteomics, single-cell transcriptomics, and artificial intelligence to examine disease mechanisms at the cell level in vivo. We refer to this approach as TEMPO (Tracing Expression of Multiple Protein Origins). Exploiting extant single-cell transcriptomic maps (scRNA seq-based) from all known ocular cell types, we traced the cellular origins of nearly 6000 proteins detected in the aqueous humor (AH). We developed AI models to assess aging of individual cell types and found accelerated molecular aging in RP. Application of TEMPO offers a precision health approach to retinal disease.

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

09:15 Retinal organoids to investigate retinitis pigmentosa Olivier Goureau (France)

09:36 Using models of IRDs to understand disease mechanisms and test therapies Mike Cheetham (United Kingdom)

10:57 Nonsense mutation in USH2A exon-13 disrupts Müller glial cell homeostasis Rossella Valenzano (The Netherlands)

10:18 Discussion



09:15-10:30 | Room B



COS 75 - New technologies and innovations in corneal surgery

Corneal surgery has evolved rapidly over the last years. The introduction and refinement of lamellar transplantation techniques, as well as advancements in tissue bioengineering and regenerative medicine have revolutionized corneal transplantation surgery. Moreover, translational research has contributed enormously towards the
fabrication of artificial corneal transplants. Finally, employment of modern technology, such as the use of femtosecond laser, together with technological innovations
including intraoperative optical coherence tomography or 3D head-up surgery, provided increased precision and safety, particularly in complex cases. In this special
interest symposium, we provide useful insights into new technologies and innovations in corneal surgery, aiming to improve the clinical and surgical practice of both novice
surgeons and seasoned experts in the field.

Organizer: **Zisis Gkatzioufas** (Switzerland) Co-organizer: **Thomas Fuchsluger** (Germany)

- 09:15 Current approaches in corneal endothelial bioengineering **Gilles Thuret** (France)
- 09:28 Artificial cornea Where are we standing? **Thomas Fuchsluger** (Germany)
- 09:41 Intraoperative OCT applications in corneal surgery **Zisis Gkatzioufas** (Switzerland)
- 09:54 Femtosecond laser applications in corneal transplantation **Mohamed Elalfy** (Egypt)
- 10:07 Novel surgery for acute corneal hydrops **Arne Viestenz** (Germany)
- 10:20 Discussion

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09:15-10:30 | Hall 3A



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. Miriam Kolko, Prof. Dr. Nora Szentmary, Dr. Caroline Manicam, 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!

09:15 Building an international community of women scientists and clinicians at EVER - Fostering an inclusive and diverse Scientific Community

Franziska 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. 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.

09:26 Recognizing the contributions and overcoming challenges for women in ophthalmology Miriam Kolko (Denmark)

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.

09:37 Advancing women's leadership in science through EVER Nora Szentmary (Hungary)

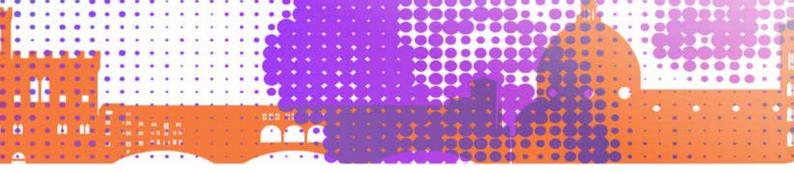
WOMEN in EVER is dedicated to supporting the advancement of women researchers, clinicians, and academics with a focus on leadership development. Despite representing half of the global population, women make up only 33% of researchers worldwide. Gender equality is both a fundamental human right and essential 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.

Empowering women in science at the WOMEN in EVER session Caroline Manicam (Germany)

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.

09:59 "Sit at the table" - Empower women to claim their rightful place in professional settings Jarmila Heissigerova (Czech Republic)

The WOMEN in EVER session will dedicate the final segment to examining and discussing 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.



09:15-10:30 | Hall 3.1



Moderators: Mert Mestanoglu (Germany), Giuseppe Suanno (Italy)

- Deciphering the role of miRNAs derived from licensed mesenchymal stromal cells extracellular vesicle cargo in the regeneration of the corneal epithelium
 - <u>Manon Jammes</u>¹, Yedizza Rautavaara², Seyedmohammad Moosavizadeh¹, Petros Moustardas², Trung Bach¹, Abbas Tabasi¹, Jiemin Wang¹, Neil Lagali², Thomas Ritter¹ (¹Ireland, ²Sweden)
- 517 Change in central corneal thickness after descemet membrane endothelial keratoplasty in fibrillar layer positive vs. negative fuchs endothelial corneal dystrophy eyes
 - Mert Mestanoglu, Antonia Howaldt, Nihan Demiralay, Claus Cursiefen, Björn Bachmann, Mario Matthaei (Germany)
- The impact of sex on injury-induced corneal denervation: implications for the ocular surface

 Giuseppe Suanno, Philippe Fonteyne, Silvia Palombella, De Micheli Massimo, Francesco Bandello,

 Giulio Ferrari (Italy)
- Topographic astigmatism after deep anterior lamellar keratoplasty: orientation, power, and correlation with preoperative values
 - Antonia Carmen Sangregorio, Andrea Taloni, Maria Angela Romeo, Giuseppe Alessio, Andrea Lucisano, Vincenzo Scorcia, Giovanna Carnovale Scalzo (Italy)
- Ultra-structure of corneal stroma, collagen fibril and interfibrillar spacing in myopic cornea and myopic cornea treated with pallet containing L-tyrosine

 Saeed Akhtar¹, Bartosz Machna², Adrian Smedowski² (¹Saudi Arabia, ²Poland)
- Understanding preservative effects on bioequivalence of topical ocular products

 <u>Eva Maria del Amo</u>¹, Susanna Posio¹, Jooseppi Puranen¹, Annika Valtari¹, Anam Hammid¹, Mira Laurila¹,

 <u>Katariina Kauppinen¹, Lea Piskanen¹, Eetu Valkama¹, Yan Wang², Andre O'Reilly Beringhs², Amir

 Sadeghi¹, Elisa Toropainen¹, Kati-Sisko Vellonen¹, Arto Urtti¹ (¹Finland, ²USA)</u>

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09:15-10:30 | Hall 3.2



G 32 - Why gonioscopy still remains essential in the time of anterior segment OCT

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Besides the examination of optic nerve head and retinal nerve fiber bundles, gonioscopy is the most important examination we have when performing structure analysis. The differentiation between angle closure, angle closure suspect and open angle is essential not only for the correct diagnosis, but as well in order to draw the best therapeutic consequences out of these findings. In addition to grading systems that help us to classify the types of glaucoma, we can find pathological changes like abnormal vessels, inflammatory induced changes, pigmentations, clefts etc. that help us to make the right diagnosis and therapy. 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 Normal findings

Nikolaus Hommer (Austria)

09:36 Abnormal findings

Anton Hommer (Austria)

Comparison AS-OCT and others vs. gonioscopy 09:57

Doreen Schmidl (Austria)

10:18 Discussion

09:15-10:30 | Room 4



IM 68 - Controversies in ocular inflammation

This session will explore key debates in the diagnosis and management of ocular inflammatory diseases, examining the evolving role of imaging modalities and treatment strategies. Experts will discuss whether fluorescein angiography remains essential in the era of OCT angiography, the necessity of indocyanine green angiography in diagnosing Birdshot chorioretinopathy, and the choice between systemic and local therapy in ocular lymphoma. Additionally, we will assess whether multimodal imaging can replace traditional clinical examination and if local therapies can serve as alternatives to conventional immunosuppression. Through case-based discussions and interactive debates, this session will challenge current paradigms and provide insights into optimizing patient care in ocular inflammation.

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

- Can multimodal imaging substitute clinical examination? Will Tucker (United Kingdom)
- 09:28 Is dye really needed today? Fluorescein angiography vs OCTA Ester Carreño Salas (Spain)
- 09:41 Is ICG mandatory in birdshot chorioretinopathy? Colin Chu (United Kingdom)
- 09:54 Can local therapy substitute conventional immunosuppression? François Willermain (Belgium)
- Lymphoma: systemic or local therapy? 10:07 Jarmila Heissigerova (Czech Republic)
- 10:20 Discussion

10:30-11:00 | Coffee break



11:00-12:00 | Poster Area



12:05-12:50 | Room 2



Since 1990, over 300 genes have been implicated in the pathogenesis of inherited retinal disorders (IRDs). High-throughput molecular genetic screening now allows for the underlying genotype to be elucidated in a majority of IRD patients. The advent of genetic therapies promises to save vision in them. But how to deal with the developmental hurdles for over 300 genes? And which strategies to use? This talk will address the current state of affairs in retinal genetics and gene therapy.

12:05 Introduction
Hendrik Scholl (Austria)

12:10 Therapies for Inherited Retinal Diseases - An Undulating Road **Bart Leroy** (Belgium)

12:40 Discussion

12:50-13:50



ACB - COS - EOVS Room 2

G-IM-LC Room B

MBGE Hall 3A

NSPH Hall 3.1

PBP - PO Hall 3.2

RV Room 4

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14:10-15:25 | Room 2



MBGE / ACB 55 - Genomic DNA and Single-cell sequencing technologies

Systems biology and big data are rapidly transforming biomedical science. This joint course, organized by MGBE and ABC, introduces advanced technologies used in genomic DNA and single-cell research. The course covers key methodologies, including exome and genome sequencing for monogenic diseases, long-read genome sequencing for rare disease diagnostics, and single-cell RNA sequencing (scRNA-seq) alongside chromatin accessibility analysis (ATAC-seq). Participants will gain insights into the applications and interpretation of these technologies in biomedical research.

Organizer: Joni Turunen (Finland) Co-organizer: **Heli Skottman** (Finland)

- 14:10 Exome and genome sequencing in monogenic diseases Mathieu Quinodoz (Switzerland)
- 14:31 Rare disease diagnostics with long-read genome sequencing Stephan Ossowski (Germany)
- 14:52 Single-cell RNA sequencing (scRNA-seq) and assay for transposase-accessible chromatin using sequencing (ATAC-seq) analyses Jo Zhou (The Netherlands)
- 15:13 Discussion

14:10-15:25 | Room B



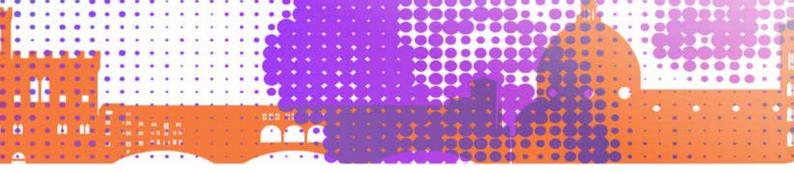
COS 60 - Tear fluid biomarkers of the ocular surface: diagnostics, immunology and methodology

Tear fluid is emerging as a source of non-invasive biomarkers since tear fluid biomarkers are the only way to gather biological information about the ocular surface in real time. During this Special Interest Group session, presentations will explore the diagnostic value of these biomarkers in limbal stem cell deficiency and dry eye disease, as well as their significance in ocular immunology. A critical overview of current research methodologies will address common practices and challenges in the field. Furthermore, the session will introduce recent insights into tear fluid miRNAs, discussing their potential applications in non-invasive diagnostics. Overall, the programme aims to stimulate thoughtful discussion on the interdisciplinary links between ocular surface biology and immunology, with an emphasis on clinical relevance and future research directions.

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

Co-organizer: Amalia Enriquez de Salamanca (Spain)

- 14:10 Optimization of tear fluid collection methods for multi-omics analysis **Clemence Bonnet** (USA)
- 14:23 Tear fluid biomarkers in ocular immunology Antonio Di Zazzo (Italy), Alessandra Micera (Italy)
- 14:36 Advances in tear fluid biomarkers for dry eye disease Christophe Baudouin (France)
- 14:49 Methodology of tear fluid biomarker research: common practices and challenges Marlies Gijs (The Netherlands)
- 15:02 Tear fluid biomarkers for ocular pain Amalia Enriquez de Salamanca (Spain)



14:10-15:25 | Hall 3.1



Moderators: Andrea Taloni (Italy), Xiaomeng Wang (Singapore)

- 598 Spironolactone as a candidate for ocular surface regeneration: evidence from a limbal stem cell model Raquel Gregorio Arribada, Rodrigues-Braz Daniela, francine Behar-Cohen (France)
- Contralateral-eye analysis of deep anterior lamellar keratoplasty versus mushroom penetrating keratoplasty over 5 years

 <u>Andrea Taloni</u>, Raphael Kilian, Valentino De Ruvo, Georgiana Camburu, Luigi De Rosa, Niccolò Salgari,

 Andrea Sollazzo, Angeli Christy Yu, Massimo Busin (Italy)
- Distribution of chondroitin sulphate glycosaminoglycan in rat corneal stroma treated with Ultravoilet-A and Riboflavin: Ultrastructural studies
 - <u>Saeed Akhtar</u>¹, Turki Almubrad¹, Aljohara Alkanaan¹, Adrian Smedowski² (¹Saudi Arabia, ²Poland)
- Evaluating burden of dry eye disease using utility scores: a mapping approach with "Ocular Surface Disease Index" and "European Quality of Life Five Dimensions"

 Sihem Lazreg¹, Julia Gonzalez² (¹Algeria, ²France)
- 259 Selective serotonin reuptake inhibitor (SSRI) for amblyopia treatment: a systematic review and meta-analysis of randomized controlled trials

Ehtesham Shamsher¹, Luisa de Barros Saccaro², Victor Barreiros Pungirum³, Bao Nghi Tran⁴, Omar Alghaith¹, Fatemeh Khabazianzadeh⁵, I. Betina Ip¹, Holly Bridge¹ (¹United Kingdom, ²Brazil, ³Argentina, ⁴Hungary, ⁵Iran)

180 Identification and validation of a novel anti-angiogenic factor

Xiaomeng Wang, Ching-Jou Chen, Hang-Tang Chen (Singapore)

14:10-15:25 | Hall 3.1



PO 65 - Identifying histopathological lesions in AMD: BLamD, BLinD, and soft drusen for research and clinical practice

This course provides an in-depth examination of histopathological lesions associated with age-related macular degeneration (AMD), including basal laminar deposit (BLamD), basal linear deposit (BLinD), and soft drusen. Participants will learn to identify these lesions in tissue samples through case-based learning and practical insights applicable to research, post-mortem examinations, and pathology practice. The session combines didactic presentations, panel discussions, and audience interaction to ensure comprehensive learning. At the conclusion of this course, the attendee will be able to: 1. identify and differentiate BLamD, BLinD, and soft drusen in histological samples; 2. understand the significance of these lesions in AMD progression and research contexts; 3. Apply histological diagnostic techniques to improve post-mortem examination and pathology reporting; 4. recognise challenges and limitations in identifying AMD-associated lesions and discuss solutions; 5. Utilise structured reporting templates for these lesions in clinical and research practice.

Organizer: Svetlana Cherepanoff (Australia)

- 14:10 Didactic Presentation 1: Recognising AMD-specific lesions in resin and paraffin sections **Svetlana Cherepanoff** (Australia)
- 14:30 Didactic Presentation 2: AMD mimics on ex vivo imaging: histological keys to accurate diagnosis **Svetlana Cherepanoff** (Australia)
- 14:50 Panel Discussion

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14:10-15:25 | Hall 3.2



G 81 - Back to big surgery

Glaucoma, a leading cause of irreversible blindness worldwide, necessitates effective management strategies to preserve vision and quality of life. Despite advances in pharmacological treatments, some patients experience inadequate intraocular pressure (IOP) control or suffer from medication side effects. Surgery offers significant advantages over medical management for glaucoma patients, particularly in those with advanced or refractory disease. Filtration surgery presents notable advantages over minimally invasive glaucoma surgery (MIGS) for treating glaucoma, especially in cases of advanced or poorly controlled disease. One of the key benefits of filtration surgery is its effectiveness in achieving substantial and sustained reduction in intraocular pressure (IOP), often surpassing the levels attainable through MIGS. Furthermore, filtration surgery typically provides a longer-lasting solution, with the potential for fewer reoperations compared to MIGS, which may require additional procedures over time to maintain IOP control. Additionally, filtration surgery has a well-established track record and comprehensive understanding of postoperative management, whereas MIGS, being newer, may have varying outcomes that are still being studied. By offering robust IOP control and durability in treatment outcomes, filtration surgery remains a cornerstone in the management of glaucoma.

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Organizer: Adrian Smedowski (Poland) Co-organizer: Miriam Kolko (Denmark)

- 14:10 Back to big surgery
 - Adrian Smedowski (Poland)
- 14:26 Back to trabeculectomy Carlo Traverso (Italy)
- 14:42 Back to tubes
 - Karl Mercieca (Germany)
- 14:58 Back to deep sclerectomy
 - **Cédric Schweitzer** (France)
- 15:14 Discussion

14:10-15:25 | Room 4



IM 72 - How nutrition and dysbiosis are implicated in uveitis; therapeutic opportunities

This symposium will outline the cellular, hormonal, immune, and neural signalling mechanisms that link the gut microbiome, immune system, and eye health focussing on uveitis. We will explore some of the research related to microbiota imbalance and the association with inflammatory conditions that can affect the eye, and the use of probiotics and prebiotics as potential treatment for managing ocular inflammatory conditions. We will also discuss how nutrition and lifestyle impact systemic and ocular health by exploring the effects of Western diet, sedentary lifestyle, stress and disrupted sleep on gut microbiota and metabolic health, and how these factors result in insulin resistance, mitochondrial dysfunction, and systemic and ocular inflammation. We will conclude with an overview of the socioeconomic determinants of health, and associated discrepancies in visual impairment and eye care services, and discuss how food insecurity and nutritional inequalities can lead to ocular diseases.

Organizer: Jarmila Heissigerova (Czech Republic) Co-organizer: Gabriela Ortiz Nieva (United Kingdom)

- 14:10 General introduction
 - Teresa Sandinha (United Kingdom)
- 14:26 Broad description of the association of microbiota imbalance in systemic and ocular pathologies Gabriela Ortiz Nieva (United Kingdom)
- 14:42 The gut immunology, microbiome and intestinal barrier disruption impact in the posterior segment inflammation: experimental evidence and potential clinical applications. Jarmila Heissigerova (Czech Republic)
- 14:58 Nutrition and life style influences on the cellular and gut health Russel Philips (Australia)
- 15:14 Discussion



15:25-15:55 | Coffee break

16:00-16:45 | Room 2



European Academy of Ophthalmology Lecture

Two approaches of controlling the refractive state of tunable lenses are presented:

- 1. Bipolar contact lens ring electrodes positioned on the scleral conjunctiva right above the ciliary muscle allowed volunteers to use accommodative biopotentials at the surface of the eye to control the refractive state of electrically tunable external lenses. Presbyopes (>75 y) were able to use such biopotentials of their neuronal accommodation reflex to properly focus via electrically tunable lenses a series of computer-controlled optotypes randomly presented for far and near vision up to a 3 dpt accommodative demand.
- 2. Bipolar intraocular ring electrodes were implanted in Cynomolgous monkeys into the sulcus behind the iris in front of the anterior capsule, contacting the ciliary muscle. Its biopotentials were continuously recorded and wirelessly transmitted via a microcontroller, biopotential amplifier and a Bluetooth interface, positioned on an encapsulated flexible H-shaped printed circuit board (12x18 mm) placed under the superior rectus muscle, powered by a retrobulbar button-cell battery.

Summary: These experiments demonstrate that ciliary muscle biopotentials can be used to restore accommodation via electrically tunable lenses using the natural accommodation-reflex loop of the central nervous system that is defective in presbyopia. Although it will be still a long way to go until the first implantation in man, we have shown in volunteers and cynomolgus monkeys the principal feasibility of such a system to restore accommodation.

16:00 Introduction
Andrej Grzybowski (Poland)

16:05 Using ciliary muscle potentials for controlling the refractive state of tunable lenses to restore accommodation in presbyopia

Eberhart Zrenner (Germany)

16:35 Discussion



16:45-18:00 | Room 2



MBGE 56 - Recent breakthroughs in the genetics of inherited retinal diseases

This session aims to deliver input about disease modelling in inherited retinal disorder.

Organizer: **Joni Turunen** (Finland)
Co-organizer: **Christina Zeitz** (France)

- 16:45 Genetic discoveries in inherited retinal diseases in Finland **Joni Turunen** (Finland)
- 17:01 Novel gene defect identification in inherited retinal disease Christina Zeitz (France)
- 17:17 Structural variants causing retinal dystrophies **Alison Hardcastle** (United Kingdom)
- 17:33 Variants in U4 and U6 small nuclear RNA genes cause retinitis pigmentosa **Mathieu Quinodoz** (Switzerland)
- 17:49 Discussion

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16:45-18:00 | Room B



COS 33 - Advanced microscopy techniques in the diagnosis of ocular surface diseases

Diagnosing ocular surface diseases is challenging due to their complexity and variability. Traditional methods, such as slit-lamp biomicroscopy and fluorescein staining, provide limited insights into cellular and subcellular changes in conditions like dry eye, allergic conjunctivitis, and infectious keratitis. These disorders often share overlapping symptoms, complicating accurate diagnosis. Subtle changes, such as glaucoma therapy-induced conjunctival damage, are also difficult to detect with conventional tools. Advanced techniques like in vivo confocal microscopy (IVCM) and scanning electron microscopy (SEM) provide high-resolution imaging of the ocular surface, enabling early detection of cellular abnormalities and pathogens. SEM is especially valuable in assessing infectious keratoconjunctivitis with negative culture results and cases unresponsive to broad-spectrum antibiotics. It also identifies changes in epithelial microvilli, an early biomarker of ocular surface health. However, challenges related to accessibility, expertise, and integration into clinical care limit their use. This course will explore the various microscopy techniques and the use of artificial intelligence in enhancing diagnostic and treatment outcomes.

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Organizer: Mario Troisi (Italy)

Co-organizer: Salvatore Del Prete (Italy)

- 16:45 In vivo microscopic approach: the confocal microscopy Maria Laura Passaro (Italy)
- 17:01 Ex vivo microscopic techniques for ocular infections and microbiome analysis Salvatore Del Prete (Italy)
- 17:17 Scanning electron microscopy (SEM) applications in dry eye, allergies, and drug tolerability Mario Troisi (Italy)
- 17:33 Future directions in ocular surface imaging: integrating AI to enhance microscopic diagnostics Mario Savastano (Italy)
- 17:49 Discussion

16:45-18:00 | Hall 3A



LC 71 - Learning ophthalmic surgery in virtual reality

Virtual reality training is mandatory in the flight industry and is increasingly becoming mandatory for surgical training in medicine. The SIS will cover principles of motor skill learning, skill monitoring, expected evolution of skill during motor skill learning, and challenges in cataract surgery. Then, the technology behind ophthalmic virtual reality surgery will be presented. Subsequently, the development and experience of introducing virtual reality training as a mandatory step before ophthalmic surgery in patients, will be covered. Thereafter, strategies for and experience of measuring evidence for improvement of surgical skill with virtual reality training of cataract surgery will be presented. Finally, evidence for improvement of ophthalmic surgical skill will be presented. A simulator for virtual reality cataract surgery will be made available at the meeting for trial sessions.

Organizer: **Per Soderberg** (Sweden)

Co-organizer: Ann Sofia Skou Thomsen (Denmark)

- 16:45 Principles of motor skill learning and challenges in learning cataract surgery **Per Soderberg** (Sweden)
- 16:58 The technology behind ophthalmic virtual reality surgery **Eva Skarman** (Sweden)
- 17:11 Introducing virtual reality training as a mandatory step before surgery in patients **Ann Sofia Skou Thomsen** (Denmark)
- 17:24 Measuring evidence for improvement of skill with virtual reality training Zhaohua Yu (Sweden)
- Evidence for improved surgical skill after virtual reality training 17:37 Amalie Carlsson (Denmark)
- 17:50 Discussion



16:45-18:00 | Hall 3.2



PO 69 - Scaling of Fundoscopy Images: optical origins, correction methods and impact on clinical studies

Emmetropization is a developmental process in which the ocular structures grow to achieve optimal focus of light on the retina, ideally with none or minimal residual refractive error. This process typically occurs during early childhood, involving coordination of ocular components such as axial length, corneal curvature, and lens power. These dimensional changes of the eye, if not accounted for, can directly impact the quantification of outcome measures derived from retinal images. For example, where the same eye is imaged once with a crystalline lens in situ and once without, the size of measured vessel diameter would differ by $\sim 5-7\%$.

As the quantification of retinal structures, vasculature, layers and tissue abnormalities have been identified to be useful biomarkers for cardiovascular risk, disease progression and classification. Errors in quantitative measures from retinal images due to non-accounting for ocular dimensions can therefore lead to under/overestimation of such risk but also impact on individual treatment outcomes, for example where tissue need to be ablated or removed.

In addition to normal eye growth, increased or decreased growth as well as alterations of the corneal/lenticular surface can impact on the size measured of a retinal feature. This presentation aims to provide an overview of factors impacting dimensional outcomes and to give practical advice for future studies aiming to parameterize retinal features from fundus images. In order to be able to compare study results, conduct long-term observations and to get a better understanding of how retinal changes can be used for cardiovascular risk and disease progression analyses it is important to obtain reliable results and to account for variables such as growth which may change during long term observational studies.

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

- 16:45 Understanding and correcting for scaling of fundus photographs

 Jan-Willem Beenakker (The Netherlands)
- 17:01 Impact of emmetropization and refractive errors on fundus images

 Rebekka Heitmar (United Kingdom)
- 17:17 Correcting for changes in refractive error in longitudinal studies

 Kristy Tatiana Rodríguez-Ramírez (Germany)
- 17:33 Peripheral images scaling of fundus photographs and their implications in ocular oncology **Corné Haasjes** (The Netherlands)
- 17:49 Discussion

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16:45-18:00 | Room 4



ACB 57 - Advancing our understanding of corneal diseases with human cell-based approaches

Session will showcase a series of research examples highlighting the critical role of human cell-based models in understanding and treating corneal diseases. Each presentation will demonstrate why and how these models are indispensable tools for studying corneal development, unravelling disease mechanisms, and exploring potential therapeutic interventions. By delving into these innovative methodologies, the session aims to underscore the importance of human cell-based models in advancing our knowledge and treatment of corneal diseases.

Organizer: Heli Skottman (Finland) Co-organizer: Jo Zhou (The Netherlands)

- 16:45 Immortalized cell lines from primary aniridia limbal epithelial cells as models for congenital aniridia Nora Szentmary (Germany)
- 17:01 Transcriptional profiling of NLRP3 inflammasome-activated monocytes in keratitis fugax hereditaria Sabita Kawan (Finland)
- 17:17 Single-cell RNA-seq on human cornea organoids **Dulce Lima Cunha** (The Netherlands)
- 17:33 Harnessing human pluripotent stem cells for corneal tissue modeling Heli Skottman (Finland)
- 17:49 Discussion

18:05-18:40 | Room 2



Prize Award Ceremony and Closing Remarks

18:40-19:10 **Farewell Reception**



Poster Session 1

Evaluators: Alessandro Arrigo (Italy), Marco Battista (Italy), Jan-Willem Beenakker (The Netherlands), Ester Carreño Salas (Spain), Carmen Ciavarella (Italy), Carla Rita Dos Santos Costa Lança (United Arab Emirates), Ariadna Garreta-Rafecas (Spain), Chiara La Morgia (Italy), Inés López-Cuenca (Spain), Daniela Pollutri (Italy), Gordon Plant (United Kingdom), Irene Schiavetti (Italy), Xiaomeng Wang (Singapore), Jo Zhou (The Netherlands)

15:50-16:50



99	T001	Comparative study of the ciliary body in mice and humans: new structural and vascular insights Patricia Jaramillo, Ana Carretero, David Ramos González, Jesús Ruberte (Spain)
530	T002	Environmental, sex-dependent, and inflammasome-mediated modulation of retinal ganglion cell survival following LPS-induced sepsis
ŋ		Kristy T. Rodríguez-Ramírez. Ana Isabel Gómez. Pablo Pelegrín. Marta Agudo-Barriuso (Spain)

POS Poster Session IM

191	T003	Optical coherence tomography biomarkers in Vogt-Koyanagi-Harada disease: a longitudinal analysis of choroidal vascularity index and choroid thickness <u>Vasco Lobo</u> , Afonso Lima-Cabrita, Rafael Whitfield, Filomena Pinto, Sofia Mano, Ines Leal (Portugal)
465 rf	T004	Ocular sarcoidosis - A case series in a tertiary uveitis clinic Pedro Martins, Sofia Teixeira, Daniel Ferreira Cardoso, João Castro Cabanas, Catarina Ferreira, Sofia Fonseca (Portugal)
492 v f	T005	Objective quantification of anterior uveitis inflammation using artificial intelligence: a scoping review Muneeb Ahmad Khan, Diya Baker (United Kingdom)
522	T006	Refractory ocular inflammation in granulomatosis with polyangiitis: a rare case of anterior non-necrotising scleritis with pan-uveitis requiring enucleation Sohail Daniel, Priya Bhatt, Abdelsattar Farrag (United Kingdom)
591 v	T007	To assess inflammatory markers corresponding to gut dysbiosis and macrophage activation in plasma of Idiopathic Uveitis (IU) patients Nabanita Halder, Gayatri Suresh, Madhu Nath, Rohan Chawla, Thirumurthy Velpandian (India)
634	T008	Unilateral presentation of acute posterior multifocal placoid pigment epitheliopathy in a 16-year-old patient following influenza-B infection Efthymia Kalogera, Evangelos Spanos, Nikolaos Garyfallos, Michael Karampelas, Vasileios Peponis, Kallirroi Konstantopoulou (Greece)
707	T009	Value of the Quantiferon Tb Gold Plus test in the diagnosis of presumed tuberculosis uveitis: a report of 258 cases S. Aitbaziz , S. Djoudi , S. Bouayad , Y. Seghiri , D.J. Souttou (Algeria)
708	T010	Anterior chamber puncture a useful diagnostic tool S. Aitbaziz, S. Dioudi, S. Bouayad, D.J. Souttou (Alaeria)

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67 T011	The profile of keratoconus in 60 years of age and older: a population-based study <u>AbbasAli Yekta</u> , Hasan Hashemi, Mehdi Khabazkhoob, Alireza Jamali, Hadi Ostadimoghaddam, Asieh Ehsaei, Yeganeh Yekta, Reihaneh Yekta (Iran)
119 TO12	Determinants of disability among people with diabetes in Kotayk province of Armenia <u>Aida Giloyan</u> , Diana Muradyan, Tsovinar Harutyunyan, Varduhi Petrosyan (Armenia)
153 T013 rf	Myopia in football player: influence of outdoors activities measured by conjunctival ultraviolet autofluorescence biomarke Sergio Recalde , Alejandro Güemes, Maria Hernandez, María Fraga de la Viesca, Miriam De la Puente, Cristina Irigoyen, Jaione Bezunartea, Maite Moreno Orduña, Manuel Saenz de Viteri, Jesús Barrio, Valentina Bilbao, Jorge Gonzalez-Zamora, Alfredo García Layana (Spain)
160 T014	Deep lerning-based morphometry of the human orbit using MRI data from the German NAKO study <u>Navid Farassat</u> ¹ , Kevin Wornath ¹ , Moises Fuentes ¹ , Marco Reisert ¹ , Susanne Rospleszcz ¹ , Javier Rodriguez-Zabala ² , Daniel Böhringer ¹ , Christopher Schlett ¹ , Wolf Lagrèze ¹ (¹Germany, ²Colombia)
161 T015	The impacts of high refractive errors on self-reported visual function and mental health <u>Arevak Saruhanian</u> , Jens Møller, Jens Rovelt Andreasen, Josefine Freiberg, Marcel Reimann, Jeppe Samuelsen, Miriam Kolko, Nina Jacobsen (Denmark)
184 T016	A qualitative study exploring patient attitudes towards novel therapies for inherited retinal dystrophies <u>Marcela Votruba</u> (United Kingdom)
309 T017	Identification and functional validation of a novel disease-causing variant in the non-coding region of NYX <u>Filip Spanic</u> , Michiels Christelle, Julien Navarro, Aline Antonio, Christel Condroyer, Sylvie Berthémy-Pellet, Isabelle Audo, Christina Zeitz (France)
318 TO18	One-year mortality after ophthalmic surgery: impact of age and ASA classification in a 10-year cohort Rafael Whitfield, Joana Pargana, Henrique Reis, Vasco Lobo, Luis Abegão Pinto (Portugal)
373 T019	CRB1-associated retinopathy: new insights from a Portuguese cohort <u>Joana Ferreira</u> , Ricardo Gertrudes, Kaminska Karolina, Luísa Santos, Ana Berta Sousa, Rita Anjos, Rita Pinto, Virginie Peters, Elifnaz Celik, Carlo Rivolta, Cristina Santos (Portugal, Switzerland)
375 T020	Gyrate atrophy without scalloping: diagnostic clues in an actionable retinal dystrophy <u>Joana Ferreira</u> , Kaminska Karolina, André Travessa, Júlio Rocha, Elifnaz Celik, Márcia Pereira, Virginie Peters, Carlo Rivolta, Luísa Santos, Cristina Santos (Portugal)
401 T021	Identification of a novel gene defect, EGFLAM, underlying complete congenital stationary night blindness and high myopia <u>Sanja Boranijasevic</u> ¹ , Julien Navarro ¹ , Christel Condroyer ¹ , Lonneke Hear-Wigman ² , Aline Antonio ¹ , Dhaenens Claire-Marie ¹ , Sahel José-Alain ^{1,3} , Ingeborgh van den Born ² , Martha Tjon-Fo-Sang ² , Sabine Defoort ¹ , Vasily Smirnov ¹ , Isabelle Audo ¹ , Christina Zeitz ¹ (¹ France, ² The Neterlands, ³ USA)
404 T022	The impact of oral escitalopram therapy on the expression of brain-derived neurotrophic factor (BDNF) and the function of retinal neurons in mice Klaudia Mroz, Bartosza Machna, Anna Pacwa, Mikołaj Górka, Magdalena Dębiec, Anna Gąsiorek, Joanna Lewin-Kowalik, Adrian Smedowski (Poland)



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64	T039	Optical cohrenece tomography as a biomarker in multiple sclerosis <u>Amira Mabrouk</u> , Besma Ben Achour, Houda Lajmi, Amine Zahaf, Wassim Hmaied (Tunisia)
<i>7</i> 6	T041	Corneal aberrometry and topography in children with amblyopia Rym Maamouri, Selmi Slim, Azri Hassen, Molka Ferchichi, Monia Cheour (Tunisia)
81	T042	The importance of treatment compliance in myopia control: a retrospective study Irene Schiavetti, Andrea Lembo, Alessandra Curci, Paolo Nucci (Italy)
98	T043	Mitochondria and oxidation: implications for LHON <u>Alfredo Sadun</u> (USA)
103	T044	Defocus incorporated multiple segments spactacle lenses in clinical practice: a retrospective analysis of one-year outcomes and predictors of treatment sucess in a Turkish cohort Nilay Akagun, Emrah Altiparmak (Türkiye)
116	T045	Psuedo-Foster Kennedy syndrome and idiopathic intracranial hypertension: a case report <u>Hounaida Chaabene</u> , Zaghdoudi Asma, Hedhiri Mohamed Habib, Mbarek Sameh, Nada Sakli, <u>Blel Olfa, Wafa Ammari, Mahmoud Anis, Riadh Messaoud</u> (<i>Tunisia</i>)
127 <i>r</i> f	T047	The role of astigmatism in myopia, its progression and management: a scoping review Stephanie Kearney ¹ , Rakhee Shah ^{2,3} ("United Kingdom, ² The Neterlands)
138	T048	Off-label use of idebenone in pediatric patients with OPA1-dominant optic atrophy: a two-case report Florina Stoica, Mihai Lucian Osman, Corina Ladariu, Mihaela Galea, Cosmin Valentin Rus, Chirita-Emandi Adela (Romania)
155	T049	Pediatric ocular rosacea (a serie case) <u>Oumayma Amara</u> , Meriem Aissaoui, Zyad Laftimi, Ghizlane Daghouj, Loubna Elmaaloum, <u>Bouchra Allali, Asmaa El Kettani</u> (Morocco)
162	T050	CHARGE syndrome in a neonate presenting with ocular colobomas Theodora Gianni, Anna Nikolaidou, Efthymia Tsina (Greece)
163	T0510	Characteristics and management of cataract following proton beam radiotherapy in pediatric orbital rhabdomyosarcoma <u>Dmitri Artemiev</u> , Darius G. Hildebrand (Switzerland)
185	T052	Visual field defects and retinal nerve fiber layer analysis in Alzheimer´s disease patients: a pilot study <u>Tania Alvite-Piñeiro</u> , Miriam Ramallo Pita, Marta Rodríguez-Fernández, Maite López-López, Uxía Regueiro, Juan Manuel Pías-Peleteiro, Tomás Sobrino, Isabel Lema (Spain)
189 v f	T053	Efficacy of lenadogene nolvarvovec gene therapy versus idebenone: a matched adjusted indirect comparison <u>Valérie Biousse</u> ¹ , Patrick Yu-Wai-Man ² , Nancy Newman ¹ , Valerio Carelli ³ , Adeline Pierache ⁴ , <u>François Montestruc</u> ⁴ , Magali Taiel ⁴ , José-Alain Sahel ¹ (¹ USA, ² United Kingdom, ³ Italy, ⁴ France)
201 rf	T054	Atropine and spectacle lens combination treatment (ASPECT): 24-month interim results of a randomised controlled trial for myopia control Noemi Guemes Villahoz¹, Paula Talavero-Gonzalez¹, Paloma Porras-Angel¹, Rafael Bella-Gala¹, Alicia Ruiz-Pomeda¹, Beatriz Martín García¹, Elena Hernandez-Garcia¹, C Nunila Gomez-De-Liano¹, Rakhee Shah², Julian García Feijoo¹, Rosario Gomez-De-Liano¹ (¹Spain, ²The Neterlands / United Kingdom)

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202	T055	Increased macular density correlates with high expanded disability status scale in neuromyelitis optic spectrum disorder Patients without optic neuritis: Indications of primary retinal vasculopathy <u>Lee Chaeyeon</u> , Jaeryung Kim, Kyung Ah Park (South Korea)
208 rf	T056	Choroidal thickness changes in myopic children using combination treatment of atropine eyedrops and defocus incorporated multiple segments (DIMS) spectacle lenses Noemi Guemes Villahoz¹, Paula Talavero-Gonzalez¹, Paloma Porras-Angel¹, Alicia Ruiz-Pomeda¹, Rafael Bella-Gala¹, Elena Hernandez-Garcia¹, Beatriz Martín García¹, C Nunila Gomez-De-Liano¹, Rakhee Shah², Julian García Feijoo¹, Rosario Gomez-De-Liano¹ (¹Spain, ²The Neterlands / United Kingdom)
211	T057	CARs in a diagnostic pathway: a cancer-associated retinopathy case series <u>Vasco Lobo</u> , Bernardo Monteiro, Filomena Pinto, Luis Abegão Pinto, Joana Ferreira (Portugal)
226 <u>r</u> f	T058	Characterising spontaneous retinal venous pulsations in patients with idiopathic intracranial hypertension Mojtaba Golzan¹, Solmaz Bastani¹, Ashish Agar¹, Mitchell Lawlor¹, Sheng Chiong Hong², Renoh Chalakkal², Clare Fraser¹(¹Australia, ²New Zealand)
245	T059	Management of vertical incomitant strabismus: utility of the Scott procedure Edurne De La Cámara Sahuquillo, Diana Perez Garcia, Leon Remon, Juan Ibañez, Pablo Tejada González, Inmaculada Herrero Sánchez, Cristina Calvo Simón, Francisco Javier Ascaso (Spain)
257	T060	Digital eye strain in health students: are symptoms driven by binocular vision or ocular surface factors? Maria João Santos Barata ¹ , Pedro Aguiar ¹ , Andrzej Grzybowski ² , André Moreira-Rosário ¹ , Carla Rita dos Santos Costa Lança ³ (¹ Portugal, ² Poland, ³ United Arab Emirates)
264	T061	"Cat-scratch disease" - A rare case of ocular trauma Inês Ludovico, Patrícia Barros da Silva, Ricardo Costa-Gertrudes, Carlos Batalha (Portugal)
271 rf	T062	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 , Patrick Yu-Wai-Man ³ , Mark Moster ⁴ , Robert Sergott ⁴ , Sarah Thornton ⁴ , Sean Donahue ⁴ , Hélène Dollfus ² , Thomas Klopstock ⁵ , Vasily Smirnov ² , Catherine Cochard ² , Marie-Benedicte Rougier ² , Pierre Lebranchu ² , Caroline Froment ² , Frederic Pollet-Villard ² , Claudia Prospero-Ponce ⁴ , Francis Munier ⁶ , Magali Taiel ² , José-Alain Sahel ⁴ (¹ Italy, ² France, ³ United Kingdom, ⁴ Germany, ⁵ Switzerland)
274 rf	T063	The onset of photophobia: impact of acute bright light exposure on cellular and molecular changes from the retina to the brain Jiayi Zhang, Jian Huang, Reboussin Elodie, Laurence Bourgeais, Stéphane Mélik Parsadaniantz, Réaux-Le Goazigo Annabelle (France)
275 rf	T064	Indirect comparison of lenadogene nolparvovec gene therapy versus natural history in patients with m.11778G>A MT-ND4 leber hereditary optic neuropathy Patrick Yu-Wai-Man¹, Nancy Newman², Mark Moster², Valerio Carelli³, Valérie Biousse², Prem Subramanian², Catherine Vignal-Clermont⁴, An-Guor Wang⁵, Sean Donahue², Bart Leroy⁶, Robert Sergott², Thomas Klopstock², Alfredo Sadun², Gema Rebolleda Fernandez³, Bart Chwalisz², Rudrani Banik², Magali Taiel⁴, José-Alain Sahel² (¹United Kingdom, ²USA, ³Italy, ⁴France, ⁵Taiwan, ⁶Belgium, ¬Germany, ℰSpain)
293	T065	Effectiveness of defocus incorporated multiple segments spectacle lenses on myopia control in Romanian children: 2-year results Daniela Goicea (Romania)
319	T066	Surgery for congenital fibrosis of extraocular muscles in siblings with KIF21 A mutation Rafael Whitfield, Filipa Teixeira, Susana Duarte, Bernardo Monteiro, Emanuel Fernandes, Pedro Lino, Rita Gama (Portugal)

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342 <i>rf</i>	T067	Machine learning analysis of visual field progression for dominant optic atrophy-OPA1 <u>Catarina Coutinho</u> , Ferdinando Zanchetta, Michele Carbonelli, Marco Battista, Alice Galzignato, Chiara La Morgia, Giulia Amore, Martina Romagnoli, Luigi Brotto, Paolo Nucci, Leonardo Caporali, Francesco Bandello, Valerio Carelli, Maria Lucia Cascavilla, Rita Fioresi, Piero Barboni (Italy)
352	T068	Beyond the tumor - Pediatric bilateral IgG4-related orbital disease masquerading as neoplasia Bernardo Monteiro, Rafael Whitfield, Vasco Lobo, Inês Lourenço, Nuno Simas, Ana Patricia Reis, Filipa Teixeira, Joana Couceiro, Ana Claúdia Fonseca (Portugal)
358	T070	Traumatic bilateral acute vision loss due to pituitary apoplexy; a case report <u>Heavin Rakhmat Saintika</u> , Wino Vrieda Vierlia, Seskoati Prayitnaningsih (Indonesia)
396	T071	Axial lenght distribution in patients with OPA1-associated dominant optic atrophy <u>Maria Lucia Cascavilla</u> , Lorenzo Bianco, Marco Battista, Maria Francesca Gennaro, Alessio Antropoli, Valerio Carelli, Chiara La Morgia, Leonardo Caporali, Anna Maria De Negri, Piero Barboni, Francesco Bandello (Italy)
435	T072	Development of a chromatic pupillometer Sebastien Buchwalder, Martial Geiser, Filippo Piffaretti (Switzerland)
445	T073	Correction of residual paretic esotropia with partial transposition of hummelsheim combined with botulinum toxin injection Inmaculada Herrero Sanchez, Víctor Aguado Casanova, Diana Perez Garcia, Patricia Ramiro, Leon Remon, Pablo Tejada González, Edurne De La Cámara Sahuquillo, Francisco Javier Ascaso (Spain)
479	T074	Trifocal Intraocular lens implantation in unilateral cataract in a pediatric patient: indications and outcomes <u>Ana María Abad Pascual</u> , Diana Perez Garcia, Francisco Javier Ascaso, Juan Ibañez, Javier Ramos Duarte, Inmaculada Herrero Sánchez, Pablo Tejada González, Edurne De La Cámara Sahuquillo, Luca Manuel Bueno Borghi, Cristina Calvo Simón, Carla Sánchez Remacha, Miguel Castillo Fernández (Spain)
484	T075	Distinct pattern observed after intermittent exotropia surgery: characteristics of patients exhibiting postoperative rebound esodrift Seong-Joon Kim (South Korea)
499	T076	Late-onset Leber hereditary neuropathy: study in a large Italian cohort Marco Battista, Michele Carbonelli, Luigi Brotto, Giulia Amore, Catarina Coutinho, Martina Romagnoli, Alice Galzignato, Paolo Nucci, Leonardo Caporali, Maria Lucia Cascavilla, Claudio Fiorini, Chiara La Morgia, Valerio Carelli, Piero Barboni (Italy)
526	T077	Post-traumatic ocular hypertension: epidemiological, clinical, therapeutic, and evolutive profiles <u>Oumayma Amara</u> , Meriem Aissaoui, Zyad Laftimi, Ghizlane Daghouj, Loubna Elmaaloum, <u>Bouchra Allali, Asmaa El Kettani</u> (Morocco)
563	T078	Retinal structure and visual function in asymptomatic Leber herediary optic neuropathy carriers <u>Johan Hedström</u> , Maria Nilsson, Martin Engvall, Pete Williams, Abinaya Venkataraman (Sweden)
571	T079	Correlations between ophthalmological, multi-OMICs and Quality of life data of a large cohort of dominant optic atrophy cases related to OPA1 variants Aymane Bouzidi¹, Christina Eckmann-Hansen², Beatrice Bocquet¹, Méline Wery¹, Cinzia Bocca¹, Valérie Desquiret-Dumas¹, Adélie Mellinger¹, Michael Larsen²³, Isabelle Meunier¹, Xavier Zanlonghi¹, Guy Lenaers¹ (¹France, ²Denmark)



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667	T092	Restrictive post-traumatic strabismus without muscle entrapment: surgical management with conjunctival grafting Javier Ramos Duarte, Ana María Abad Pascual, Edurne De La Cámara Sahuquillo, Pablo Tejada González, Inmaculada Herrero Sánchez, Luca Manuel Bueno Borghi, Carla Sánchez Remacha, Cristina Calvo Simón, Miguel Castillo Fernández, Julia Aramburu Clavería, Marta Suñer Martínez, Francisco Javier Ascaso, Diana Perez Garcia (Spain)
669	T093	Pediatric open globe injuries: predictive factors for visual prognosis Meriem Aissaoui, Oumayma Amara, Laftimi Zyad, Daghouj Ghizlane, Loubna Elmaaloum, Allal Bouchra, Asmaa El Kettani (Morocco)
680	T094	Evaluation of conjunctival wound closure after strabismus surgery using fibrin glue <u>Susana Duarte</u> , Rafael Whitfield, Bernardo Monteiro, Emanuel Fernandes, Pedro Lino, Filipa <u>Teixeira</u> , Rita Gama (Portugal)
684	T095	Evaluation of vascular index by optical coherence tomography angiography in patients with ischemia-related paralytic strabismus Seren Kaplan Gungordu, Burcin Cakir, Nilgun Ozkan Aksoy, Meryem Dilara Kilic (Türkiye)
696	T096	Pediatric traumatic cataract <u>Ghizlane Daghouj</u> , Sara Ettouri, Ali Rami, Laftimi Zyad, Loubna El Maaloum, Bouchra Allali, <u>Asmaa El Kettani</u> (Morocco)
697	T097	Open globe trauma in children: epidemiological, clinical, therapeutic and prognostic aspects <u>Sara Ettouri</u> , Daghouj Ghizlane, Kawtar El Hadi, Arab Lamiaa, Laftimi Zyad, Loubna El <u>Maaloum, Bouchra Allali, Asmaa El Kettani</u> (Morocco)

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261	T098	Cherry tear - A rare case of caruncular oncocytoma Inês Ludovico, Tiago das Neves, Ricardo Costa-Gertrudes, Catarina Mota, Carlos Batalha (Portugal)
306	T099	Begnin oncocytoma of the ocular caruncle: a case series and literature review Stefano Dore, Sara Sechi, Laura Dessole, Rita Serra, Matteo Sacchi, Clara Ellecosta (Italy)
346 v f	T100	Tear drops and Alzheimer's: unveiling early detection biomarkers - A systematic review Inés López-Cuenca, Lidia Sánchez-Puebla, Lorena Elvira-Hurtado, Rubén Masa-Castro, Yael Hoz-Ruiz, Elena Salobrar-Garcia, José A. Matamoros, José A. Fernández-Albarral, Hector Leal- Lasalle, Juan Jose Salazar, Ana Isabel Ramirez, Jose Manuel Ramirez, Rosa De Hoz (Spain)
349	T101	Multidisciplinary management of cervicofacial necrotizing fasciitis with orbital involvement: a case report Tomaz Oliveira , Bruno Rosa (Portugal)
350	T102	Evaluation of tarsorraphy in patients undergoing parotidectomy for oncological disease: a multidisciplinary assessment <u>Tomaz Oliveira</u> , Ricardo Nogueira (Portugal)
430 v	T103	Circulating tumor DNA as a biomarker for surveillance of uveal melanoma <u>Vojtech Hanicinec</u> , Eirunn Øvregaard, Morten Carstens Moe, Henrik Jespersen, Agate Noer (Norway)
482 " f	T104	Reconstruction of medium to large full-thickness lower eyelid defects by a novel single-stage procedure: update on the marginal approach for releasing the lid with closure handling (MARCH) technique Anna March De Ribot ¹ , Santiago Ortiz-Pérez ^{1,2} , Francesc March De Ribot ¹ (¹ New Zealand, ² Spain)

536	T105	Eyelid trichoblastic carcinoma: a diagnostic and therapeutic challenge Amina El Mayel, Mohamed Ben Hadj Khelifa, Rim Kmiha, Ghassen Marzouk, Imen Abbes, Amel Chebbi (Tunisia)
540 v f	T106	RB1 screening for previously untested retinoblastoma survivors Kalle Nummi, Tero Kivelä (Finland)
589 r f	T107	Role of CDKN1A, MDM2, MTHFR and MTR polymorphisms in retinoblastoma: a systemic study Shobhit Gupta , Sushma Nandyala , Tapas Roy , Deepsekhar Das (India)
635 <i>r</i> f	T108	Transcriptomic atlas of uveal melanoma <u>Vojtech Hanicinec</u> , Xavier Tekpli, Øystein Garred, Marie Fongaard, Sunniva Bøstrand, Michael <u>Frisk</u> , Thomas Bærland, Giang Nguyen, Jürgen Geisler, Morten Carstens Moe, Agate Noer, Henrik Jespersen (Norway)

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Poster Session 2

Evaluators: Maddi Alonso-Agesta (Spain), Dmitri Artemiev (Switzerland), Gloria Astolfi (Italy), José António Dias (Portugal), Ariadna Diaz-Tahoces (Spain), Sara Ettouri (Morocco), Ariadna Garreta-Rafecas (Spain), Mohamed Geneid (Finland), Judit Hodrea (Hungary), Yuliya Huseva (Belarus), Bogumiła Sędziak-Marcinek (Poland), Piera Versura (Italy)

11:05-12:05





Gkatzioufas (Switzerland)

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379	F027	Clinical outcomes of repeated corneal crosslinking for progressive keratoconus after failure of primary procedure: safety and efficacy at 12-month follow up Eleftherios Chatzimichail , Mohamed Elalfy, Frank Blaser, Nicolas Feltgen, Zisis Gkatzioufas (Switzerland)
380	F028	Management of a difficult case of toxic epidermal necrolysis after topical use of chloramphenicol Evangelia Dalieraki, Georgios Dalianis, Chryssa Terzidou (Greece)
381	F029	Femtosecond laser-assisted implantation of corneal allogenic intrastromal ring segments for visual rehabilitation in keratoconus after corneal crosslinking Eleftherios Chatzimichail, Dimitrios Kyroudis, Frank Blaser, Nicolas Feltgen, Zisis Gkatzioufas (Switzerland)
409	F030	3D printed nanocomposite contact lenses for ocular health management Haider Butt (United Arab Emirates)
417	F031	Evaluation of novel drug targets in eye samples from patients affected with rare eye diseases <u>Silvia Palombella</u> , Matteo Pederzolli, Gianluca Tilaro, Philippe Fonteyne, Erica Alessandra <u>Lecchi, Federico Procopio, Giulio Ferrari</u> (Italy)
418	F032	Cord blood serum attenuates hyperosmotic-induced stress in human conjunctival epithelial cells <u>Gloria Astolfi</u> , Carmen Ciavarella, Chiara Coslovi, Elisa Bergantin, Marina Buzzi, Luigi Fontana, <u>Piera Versura</u> (Italy)
421	F033	Coneal wounds: epidemiological, clinical, progressive and therapeutic profile (about 200 cases) Sara Ettouri, Daghouj Ghizlane, Kawtar El Hadi, Arab Lamiaa, Ali Rami, Laftimi Zyad, Loubna El Maaloum, Bouchra Allali, Asmaa El Kettani (Morocco)
426	F034	Biomechanical & tomographical outcomes in keratoconus offspring: a 3-year prospective study Maite López-López, Uxía Regueiro, Tania Alvite-Piñeiro, Isabel Lema (Spain)
437	F035	MicroRNA profile in human corneal tissue of Keratoconus patients undergoing lamellar keratoplasty <u>Carmen Ciavarella</u> , Antonio Moramarco, Silvia Odorici, Natalie Di Geronimo, Gianandrea <u>Pasquinelli, Luigi Fontana, Piera Versura</u> (Italy)
441	F036	A personalized treatment approach with cord blood prp eye drops in severe dry eye associated with EGFR inhibitors: a pilot study on hla-dr expression as efficacy biomarker <u>Daniela Pollutri</u> , Natalie De Geronimo, Andrea De Giglio, Francesco Gelsomino, Andrea Ardizzoni, Luigi Fontana, Piera Versura (Italy)
456	F037	Standardizing tear fluid biomarker research: a comprehensive review of collection methods and analysis protocols Marlies Gijs¹, Nienke van de Sande¹, Clemence Bonnet², Jente Schmeetz¹, Rosa Fernandes³, Sonia Trave-Huarte⁴, Marcela Huertas-Bello², Jeremy Chung Bo Chiang⁴, Nikolay Boychev², Shruti Sharma², Tear Research Network Scoping Review taskforce¹ (¹The Neterlands, ²USA, ³Portugal, ⁴United Kingdom)
464	F038	Tear proteomic signatures reveal and predict keratoconus progression in a case-control cohort <u>Maddi Alonso-Agesta</u> , Itziar Martinez-Soroa, Txomin Alberdi, Aritz Bidaguren, Arantxa Acera (Spain)
473	F039	Sub400 corneal crosslinking for advanced pediatric keratoconus Ricardo Costa-Gertrudes, Pedro Lopes, Joana Ferreira, Tiago das Neves, Vitor Maduro, Nuno Alves, Pedro Gil, Eduardo Silva, João Feijão (Portugal)
500	F040	Ocular and corneal topography findings in patients with ichthyoisis Rym Maamouri, Zaoauk Anissa, Aouni Jaafer, Kammoun Alyssa, Fenniche Samy, Monia Cheour (Tunisia)



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607 rf	F056	Clinical proteomics characterized age- and tear secretion-associated molecular changes in dry eye syndrome Natarajan Perumal, Hao Lin, Anna Lindner, Adina Glasmacher, Bettina Multani, Caroline Manicam (Germany)
613 v	F058	Extracellular vesicles and exosomes in corneal graft integration Grace Lin, Neethi Thathapudi, Mostafa Zamani-Roudbaraki, Marie-Claude Robert, May Griffith (Canada)
623 rf	F059	Examination of the potential influence of baseline corneal fluorescein staining score on dry eye symptom improvement in patients treated with ciclosporin 0.1% cationic emulsion: analysis of data from the PERSPECTIVE study Anita Reynolds ¹ , Elisabeth M. Messmer ² , Ines Lanzl ² (¹ United Kingdom, ² Germany)
636	F060	Results of advanced surface ablation surgery for patients with myopia above 9 diopters who have been under observation for more than 2 years <u>Liudmyla Ivzhenko</u> , Armen Prokipets (Ukraine)
665	F062	Corneal crosslinking surgery following intrastromal corneal ring segment removal in progressive keratoconus: functional, tomographic and biomechanical improvement after one year of follow up <u>Júlio Brissos</u> ¹ , Guilherme Almeida ¹ , Gonçalo Tardão ² , Renato Ambrósio Jr. ¹ (¹ Portugal, ² Brazil)
706	F064	A 10-Year (2015-2025) retrospective review of fungal keratitis at a UK Tertiary referral centre: it remains a regular threat Mohammed Talha Bashir, Parwez Nazir Hossain (United Kingdom)
<i>7</i> 12	F065	The SUNLIGHT trial: a double-blind Phase 1 safety and tolerability clinical trial of OC134 eye drops <u>Asya Petkova</u> , Andreas G. Schatzlein, Ijeoma F. Uchegbu (United Kingdom)

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120	F066	Long-term evaluation of ocular surface disease signs in patients with open-angle glaucoma or ocular hypertension using the preservative-free 0.005% latanoprost eye drop emulsion: open-label extension data following a 3-month randomized study <u>Kai Kaarniranta</u> ¹ , Francesco Oddone ² , Christophe Baudouin ³ (1 Finland, 2 Italy, 3 France)
158	F068	Investigating the relationship between intraocular pressure and body mass index in project FOREVER <u>Christina Eckmann-Hansen</u> , Jens Rovelt Andreasen, Josefine Freiberg, Arevak Saruhanian, <u>Miriam Kolko</u> (Denmark)
164 v f	F069	Galectin-3 is associated with Müller cells in glaucoma <u>Anne Rombaut</u> , Alan Nicol, Rune Brautaset, Pete Williams, James Tribble (Sweden)
182 v f	F070	Evaluation of synthetically generated optical coherence tomography images Damon Wong¹, Ashish Jith¹, Jacqueline Chua¹, Leopold Schmetterer¹,² (¹Singapore, ²Austria)
207 <u>r</u> f	F071	Proteomics analyses of ocular small extracellular vesicles in glaucoma Ana Guzman Aranguez, Raquel Rejas-Gonzalez, Ana Montero-Calle, Rodrigo Barderas, Natalia Pastora Salvador, María José Crespo Carballes, Juan Snachez-Naves (Spain)
231	F072	Preservatives in glaucoma treatment: a comparative study of preserved and preservative-free latanoprost eye drops on conjunctival goblet cells Nisa Lise Secim, Sille Ehlers Bonne, Umalbaninn Alnoor, Miriam Kolko (Denmark)
238 rf	F073	Impact of preserved and preservative-free latanoprost eye drops on calcium regulation in conjunctival goblet cells Umalbaninn Alnoor¹, Jeffrey A. Bair², Steffen Heegaard¹, Miriam Kolko¹ (¹Denmark, ²USA)

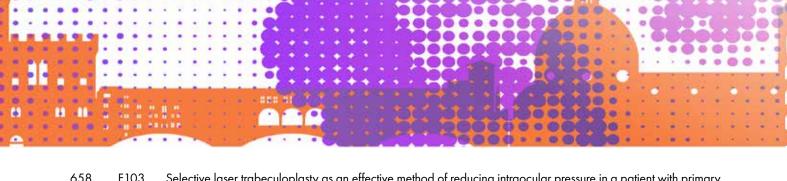


Ingeborg Stalmans⁶, Luis Abegão Pinto¹ (¹Portugal, ²Finland, ³France, ⁴Spain, ⁵United Kingdom, ⁶Belgium)

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457	F087	Effect of different treatments on retrobulbar and choroidal blood flow parameters in normal tension glaucoma: a OCT-A and Color Doppler Imaging study Enrico Lupardi, Alice Galzignato, Catarina Coutinho, Monica Ferri, Gian Luca Laffi, Andrea Distefano, Marco Battista, Alfredo Sadun, Piero Barboni, Luigi Brotto, Emma Zuliani (Italy)
505	F089	Female life cycle stages and intraocular pressure variations: an analysis of a representative Korean population Haryung Park , Yun Jeong Lee, Jin Wook Jeoung, Ki Ho Park, Young Kook Kim (South Korea)
534	F090	Glaucoma implant as salvage therapy in refractory glaucoma following gold shunt failure and recurrent corneal graft Ariadna Garreta-Rafecas , Elena Milla (Spain)
542	F091	Neovascular glaucoma: a single unit retrospective consecutive series from 2003 to present day to evaluate clinical profile, management and outcomes in the anti-VEGF era <u>Tushar Hari</u> , Alex Tanner, Kieran Teeluck, Jayne Lee, Muneeb Ahmad Khan, Nish Srikantha, <u>Alastair Lockwood</u> (United Kingdom)
545	F092	Minimally invasive surgery in late presentation hypotony after trabeculectomy for complete resolution of bilateral choroidal effusions: a case report <u>Tushar Hari</u> , Jayne Lee, Alex Tanner, Kieran Teeluck, Muneeb Ahmad Khan, Nish Srikantha, <u>Alastair Lockwood</u> (United Kingdom)
554	F093	Dynamic optic disc coloboma as a mask of glaucoma - case series study Bartłomiej Kocurek, Michał Głodzik, Adrian Smedowski (Poland)
555	F094	Selective laser trabeculoplasty (SLT) in practice: the promise of a drop-free future in the management of glaucoma and ocular hypertension? Kieran Teeluck, Nish Srikantha, Tushar Hari, Alex Tanner, Jayne Lee, Muneeb Ahmad Khan, Alastair Lockwood (United Kingdom)
564	F095	Short-term high-dose nicotinamide treatment across glaucoma subtypes reveals increased mitochondrial DNA content and minimal metabolomic changes in blood Simon Gustavsson ¹ , Antoni Vallbona Garcia ² , James Tribble ¹ , Pete Williams ¹ , Gauti Johannesson ¹ , Theo Gorgels ² , Birke Benedikter ² , Hubert Smeets ² , Patrick Lindsey ² , Carroll Webers ² (¹ Sweden, ² The Neterlands)
568	F097	A highly accessible, low-cost, dynamic training model for trabeculectomy surgery Alexander Tanner, Francesco Della Lena, Tushar Hari, Kieran Teeluck, Jayne Lee, Nish Srikantha, Alastair Lockwood (United Kingdom)
582	F098	Retinal nerve fibre layer and ganglion cell complex thickness in patients with metabolic syndrome Leva Simkiene , Jacqueline Chua², Gabriele Tarutyte¹, Jolita Badariene¹, Rimvydas Asoklis¹, Leopold Schmetterer² (Lithuania, ²Singapore)
625	F099	A new technique to make glaucoma surgery possible in those patients whose posture would normally preclude this Alastair Lockwood, Muneeb Ahmad Khan, Kieran Teeluck, Tushar Hari, Alex Tanner, Jayne Lee, Nish Srikantha (United Kingdom)
633	F100	Regional disparities in glaucoma diagnosis and surgery in Denmark: urgent need for increased resources <u>Jeppe Samuelsen</u> , Christina Eckmann-Hansen, Kim Holmgaard, Hadi Kjærbo, Miriam Kolko (Denmark)
642 v	F101	Ensuring reliable glaucoma detection with deep learning: the critical role of calibration and evaluation practices <u>Marcel Reimann</u> , Peter Tejlgaard Kampen, Josefine Vilsbøll Sundgaard, Miriam Kolko Anders <u>Bjorholm Dahl</u> (Denmark)
648	F102	Outcome for primary PAUL glaucoma implantation using tube ligature technique without intraluminal stent: a prospective observational single surgeon study Mohamed Geneid, Jyri-Pekka Koskinen, Mika Harju, Juha Valimaki (Finland)



658	F103	Selective laser trabeculoplasty as an effective method of reducing intraocular pressure in a patient with primary angle-closure glaucoma after laser peripheral iridotomy in a 3-month follow-up period – a case report Mariola Dorecka , Katarzyna Gontarz, Adrian Smedowski, Dorota Wyględowska-Promieńska (Poland)
659	F104	Mid-term outcomes of combined cataract surgery and iStent Inject W Emanuel Fernandes, Afonso Lima-Cabrita, Bruno Guerreiro Dias, Susana Duarte, André Diogo Barata, Luis Abegão Pinto, Rafael Correia Barão (Portugal)
692	F105	Initial efficacy results of Latanoprost 0.005% + Netarsudil 0.02% combination drops, from a single centre Bhavani Selvarasu , Eleanor Carr , Kleonikos Tsakiris (United Kingdom)
<i>7</i> 00	F106	"It's not always glaucoma": a misdiagnosed case of a carotid-cavernous fistula Pedro Lopes, Joana Ferreira, Ricardo Costa-Gertrudes, Tiago Das Neves, Catarina Rodrigues (Portugal)
<i>7</i> 11	F107	The role of mitochondrial quality control and neuroinflammation in pathogensis of Glaucoma. Anjali Kalwar, Aleksandra Trifunovic (Germany)

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77 v f	F108	Refractive errors after cataract surgery Rym Maamouri, Molka Ferchichi, Riahi Souhir, Aouni Jaafer, Monia Cheour (Tunisia)
79 rf	F109	Comparison of corneal power assessment methods for true corneal power after myopic small-incision lenticule extraction Xiaoling Fang, Jiannan Huang, Leilei Wang, Wenwen Xue, Xia Chen (China)
93 v f	F110	Accuracy of twenty intraocular lens power calculation formulas in long eyes <u>Wiktor Stopyra</u> ¹ , Oleksiy Voytsekhivskyy ² , Andrzej Grzybowski ¹ (¹Poland, ²Ukraine)
102	F111	Comparison between two extended depth of focus intraocular lenses Kyungmin Koh (South Korea)
105 rf	F112	Ophthalmological manifestations and visual outcomes of electical and lightning trauma: a systematic review Maria Piedrahita, Felipe Pineda, Felipe Moreno, Maria Estevez, Nicolas España, Viviana Infante, Germán Mejía-Salgado, Carlos Cifuentes, Diana Rey, Laura Rodriguez-Camelo, Alejandra de-la-Torre (Colombia)
249	F113	Comparison of surgically induced astigmatism after cataract surgery in post-LASIK eyes and virgin eyes with long axial length Xia Chen, Xiaoling Fang, Wenwen Xue, Jiannan Huang, Jingjing Wang, Xiangui He, Leilei Wang (China)
256 <i>r</i> f	F114	Influence of axial length on target refraction after intraocular lens implantation in children under 2 years of age Alejandro Alcaide Costa, Eva Calpe, Gemma Julio, Rafael Barraquer (Spain)
301 v	F115	Systemic medications associate with cataract surgery in patients over 50 years <u>Sirpa Loukovaara</u> , Antti Riikonen, Tuomas Lilius, Jari Haukka (Finland)
348	F116	Quantitative cataract grading based on blue-light autofluorescence confocal imaging Alessandro Arrigo, Emanuela Aragona, Francesco Bandello (Italy)
494 v f	F117	Historical overwiev of the studies about epidemiolgy of myopia Olavi Pärssinen (Finland)

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709	F123	Determining the presence of TRPV4 channels and their influence on calcium signaling in human lens epithelium Sofija Andjelic , Dasa Sarman , Bernarda Kinkela , Taja Vita Petrovic , Katarina Mestrovic , Marko Gosak , Marko Hawlina (Slovenia)
638	F122	Chlorpromazine: a psychiatrist's ally, an ophthalmologist's adversary <u>Alaa Ghorbel</u> , Sellem Ilhem, Ben abderrahmen Syrine, Ghorbel Mohamed (Tunisia)
516 <i>¶</i>	F119	Impact of cataract surgery on scotopic and photopic mydriasis Inês Mendo, Mariana Vaz, João Vaz, Filipe Moraes, Inês Machado, Tomas Loureiro, Nuno Campos (Portugal)
503	F118	Exploring the use of pre- and retro-pupillary artisan IOLs for managing complex crystalline lens dislocation: a long-term study of visual and endothelial outcomes Windsor Chao¹, Howard Wen-Haur Chao¹, Penbai Haui², Hsiao-Ming Chao² (¹United Kingdom, ¹Taiwan)

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Poster Session 3

Evaluators: Mohamed AL-Shabrawey (USA), Alessandro Arrigo (Italy), Dmitri Artemiev (Switzerland), Ivan Borjan (Croatia), José António Dias (Portugal), Johnny Di Pierdomenico (Spain), Maciej Gawęcki (Poland), Madhu Nath (India), Bogumiła Sędziak-Marcinek (Poland), Amany Tawfik (USA), Xiaomeng Wang (Singapore), Jo Zhou (The Netherlands)

12:05-13:20

POS Poster Session EOVS

89 <i>r</i> f	S001	Optical image quality of two toric extended depth of focus intraocular lenses based on wavefront engineering technology
-		Martina Vacalebre, Elena Anastasi, Renato Frison, Simon Federico Spanò, Benedetta Castroflorio, Maria Cristina Curatolo (Italy)
90 <i>r</i> f	S002	Evaluation of a virtual reality headset at a tertiary care ophthalmology setting <u>Catherine Dang</u> ¹ , Hong-An Nguyen ¹ , Soumya Podury ¹ , Matthew Quinn ¹ , Catherine Tsilfidis ¹ , <u>Rustum Karanjia</u> ^{1,2} (¹ Canada, ² USA)
91 <i>ர</i>	S003	Defocus incorporated mulitiple segment spectacle lenses for myopia control: a retrospective study in a Turkish cohort
		Nilay Akagun, Emrah Altiparmak (Türkiye)
170 17	S004	Association between building density and screening myopia in children and adolescents: a five-year longitudinal study from China Jingjing Wang, Xiangui He (China)
1 <i>7</i> 3	S005	Visual activity enhances neuronal excitability in thalamic relay neurons
rf		Aurore Aziz, Dumenieu Mael, Fronzaroli-Molinieres Laure, Naudin Lois, Bonnaure Cecile, Wakade Anushka, Zanin Emilie, Ankri Norbert, Incontro Salvatore, Denis Daniele, Marqueze Beatrice, Brette Romain, Debanne Dominique, Russier Michael (France)
190	S006	Comparison of refractive errors in patients with Parkinson's disease and normal people <u>AbbasAli Yekta</u> , Reyhaneh Shariati, Mehdi Khabazkhoob, Ali Shoeibi, Hadi Ostadimoghaddam, <u>Akbar Derakhshan</u> , Hasan Hashemi, Javad Heravian Shandiz, Asieh Ehsaei, Abbas Azimi Khorasani, Reihaneh Yekta, Yeganeh Yekta (<i>Iran</i>)
212 rf	S007	Use of L-tyrosine supplementation to support retinal function in a mouse model of deprivation myopia <u>Bartosz Machna</u> , Klaudia Mroz, Monika Katan, Anna Gasiorek, Anna Pacwa, Maciej Oseka, <u>Mikołaj Górka, Joanna Lewin-Kowalik, Adrian Smedowski</u> (Poland)
268	S008	The relationship between the cellular retinal structure measured with adaptive optics scanning laser ophthalmoscope and retinal function measured with multifocal electroretinogram in late-onset retinal degeneration Stephanie Quinn, Penny Lawton, Andrew Browning, Laura Young (United Kingdom)
330 rf	S009	Influence of head movement of fixation stability and eye angle changes during virtual reality perimetry <u>Hsin-yang Chen</u> ¹ , Raphael Sznitman ¹ , Jan Darius Unterlauft ² , Martin Zinkernagel ¹ , Nathanael Urs Häner ¹ (¹ Switzerland, ² Germany)
359 <i>r</i> f	S010	Assessing retinal function in an Alzheimer's disease mouse model APPNL-F/NL-F using electroretinography Lidia Sánchez-Puebla ¹ , Santiago Milla Navarro ¹ , Inés López-Cuenca ¹ , José A. Matamoros ¹ , Elena Salobrar-Garcia ¹ , José A. Fernández-Albarral ¹ , Lorena Elvira-Hurtado ¹ , Ana I. Ramírez ¹ , Juan Jose Salazar ¹ , Takaomi C. Saido ² , Takashi Saito ² , Carmen Nieto-Vaquero ¹ , María Ángeles

Moro¹, Rosa De Hoz¹, Pedro De La Villa¹, Jose Manuel Ramirez¹ (¹Spain, ²Japan)

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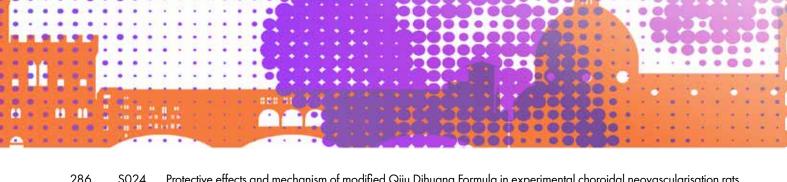


397	S011	Quantitative analysis of retinal vasculature in patients with autoimmune connective tissue disorders by retinal vessel analysis <u>Dmitri Artemiev</u> , Margarita Todorova (Switzerland)
427	S012	Early pupillary dysfunction in optic neuropathies detected by chromatic pupillometry Rocco Mastromartino ¹ , Martial Geiser ² , Fabian D'Apolito ¹ , Michele D'Ambrosio ¹ , Andrea Cusumano ¹ , Benedetto Falsini ⁵ (1Italy, 2Switzerland, 3USA)
471	S013	Variability and age-related changes in retinal layer thicknesses in healthy individuals - correlation with loss of flicker and chromatic sensitivity <u>Aiman Hafeez</u> , Alison Binns, Irene Ctori, John L. Barbur (United Kingdom)
525	S014	Retinal colour vision: revisiting the limits of retinal mechanisms in colour perception Sohail Daniel (United Kingdom)
581 <i>r</i> f	S015	Retina-brain neurovascular coupling connection <u>Rui Bernardes</u> ¹ , João Jordão ¹ , João Figueira ¹ , Miguel Morgado ¹ , Pedro Guimarães ¹ , Pedro Serranho ¹ , Delia DeBuc ² , Michel Paques ³ , Miguel Castelo-Branco ¹ (¹ Portugal, ² USA, ³ France)
626 v f	S016	The pulvinar's role in visual hierarchy communication and cortical integration Christian Casanova, William Thomas, Nelson Cortes Hernandez (Canada)
639 <i>r</i> f	S017	Comparative performance of six large language models in the self-assessment test of the American Academy of Ophthalmology Andrea Taloni, Antonia Carmen Sangregorio, Filippo Lixi, Mario Troisi, Francesco Paolo Mancini, Valerio Calabresi, Feyza Çukurova, Raphael Kilian, Valentino De Ruvo, Luigi De Rosa, Giulia Coco, Massimo Busin, Giuseppe Giannaccare (Italy)
677 <u>r</u> f	S018	Evidence for altered color adaptation in autism spectrum disorder <u>Miguel Castelo-Branco</u> , João Castelhano, Francisca Matias (Portugal)
691	S019	Age-related changes in cone-mediated dark adaptation Beatriz Sánchez Gavilán, Maria Cinta Puell Marin, Shrinivas Pundlik (USA)

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129	S020	Implementation of and ex vivo assay for corneal permeation and irritation: evaluation of proparacaine hydrochloride as a case study Natalia Carolina Gonzalez Jimenez, Yolima Baena Aristizabal, Maria Lozano Alvarez (Colombia)
130	S021	Multiple neural pathways light-independently drive TH2 wide-field amacrine cells in the developing and mature retina Dao-Qi Zhang, Wenqiu Wang (USA)
193 <i>r</i> f	S022	Comparative proteomic analysis of aqueous humour, anterior capsules and crystalline lenses in different human cataract subtypes versus healthy controls Christina Karakosta ^{1,2} , Martina Samiotaki ¹ , Anastasios Bisoukis ² , Nantieznta Kyriakidou ¹ , Konstantinos Moschou ¹ , Marilita Moschos ¹ (¹ Greece, ² United Kingdom)
224	S023	Pharmacogenomics of steroid-induced ocular hypertension Stephen Schwartz, Zeyuan Song, Satyabrata Pany, Jonathan Huang, Tatsuo Itakura, Arpan Mazumder, Anastasia Gurinovich, Francis Price, Jr., W. Daniel Stamer, Srinivasan Senthilkumari, Colin Willoughby, Ronnie George, Srujana Chitipothu, Sudha Iyengar, Paola Sebastiani, Marianne Price, M. Elizabeth Fini (USA)



286 <i>r</i> f	S024	Protective effects and mechanism of modified Qiju Dihuang Formula in experimental choroidal neovascularisation rats Leilei Wang, Xiaoling Fang, Xia Chen, Wenwen Xue, Jiannan Huang, Xiaowei Tong (China)
288	S025	Magnetically actuated and biodegradable robotic intraocular dexamethasone implants <u>Erdost Yıldız</u> ¹, Ugur Bozuyuk¹, Eray Yildiz², Fan Wang¹, Mertcan Han¹, Alp Karacakol¹, Devin Sheehan¹, Yan Yu¹, Metin Sitti¹ (¹Germany, ²Turkye)
314	S026	Re-evaluating the role of preservative-containing eyedrop formulations: a review of recent data Cindy M.L. Hutnik ¹ , Andrew J. Tatham ² , Andrzej Grzybowski ³ , José António Dias ⁴ , Pedro Corsino Fernández Vila Fernández Vila ⁵ (¹ Canada, ² United Kingdom, ³ Poland, ⁴ Portugal, ⁵ Spain)
329	S027	Patient perspectives on handling single dose versus multi-dose eye drops <u>José António Dias</u> , Joao Filipe, Nuno Lopes, Mario Cruz, Paulo Margarido (Portugal)
392 <i>rf</i>	S029	An in-depth overview on retinal morpho-functional and molecular features of the 5xFAD murine model Lorenzo Guidotti, Martina Lucchesi, Rosario Amato, Giuseppe Neri, Silvia Marracci, Claudia Gargini, Ugo Borello, Maurizio Cammalleri, Giovanni Casini, Massimo Dal Monte (Italy)
406	S030	Local thyroid hormone system in retinal cell resilience to metabolic stress Rosario Amato (Italy)
407 rf	S031	Astrocyte-mediated protection of the hypoxic retina: involvement of beta3-adrenoceptors <u>Alessio Canovai</u> , Lorenza Di Marsico, Massimo Dal Monte, Paola Bagnoli, Maurizio Cammalleri (Italy)
416	S032	Rescruing mitochondria functioning by antioxidant agent to prevent the onset of age-related macular degeneration Darin Zerti , Luigi Donato, Ignacio Babiloni Chust, Giulia Carozza, Rosalia D'Angelo, Lucia Poggi, Maurizio Passacantanto, Rita Maccarone (Italy)
419	S033	Early retinal involvement in amyotrophic lateral sclerosis: functional and molecular characterization in SOD1G93A
rf		mice <u>Lorenza Di Marsico</u> , Eleonora Daghini, Rosario Amato, Angela Cannavale, Alessio Canovai, <u>Giuseppe Neri, Ugo Borello, Claudia Gargini, Maurizio Cammalleri, Massimo Dal Monte (Italy)</u>
438 v	S035	Shear-stress dependent viscous properties of hyaluronic-based lubricants Leopold Schmetterer, Gerhard Garhöfer (Austria)
454 v f	S036	Toxicity of tranexamic acid in Müller cells: oxidative stress and inflammatory pathways <u>Dammak Azza</u> , Nadine Gubernath, Wolf Armin (Germany)
488	S037	Global trends in climate change and sustainability in ophthalmology literature <u>Anna March De Ribot</u> , Francesc March De Ribot (New Zealand)
510	S038	Extracellular vesicle therapy for sepsis-induced neurodegeneration: influence of host sex and transplant compatibility Jhoana Abigail Guarnizo-Campoverde, Kristy Tatiana Rodríguez Ramírez, David García Bernal, Fernando Lucas-Ruiz, Jesus Isais Gil Chinchilla, Caridad Galindo-Romero, Maria José Ruiz-Pastor, Marta Agudo-Barriuso (Spain)
529	S039	Spatiotemporal characterization of advillin retinal ganglion cell degeneration following optics nerve injury Manuel Salinas-Navarro, José Antonio Gómez-Sánchez, Andreea Delia Necula, Juan Sáez- Sánchez, Manuel Vidal-Sanz, Marcelino Avilés-Trigueros (Spain)

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566 <i>r</i> f	S040	Safety and neuroprotective effects of intravitreal transplatation of bone-marrow-derived mononuclear cells exosomes to animal model of retinal degeneration
		Johnny Di Pierdomenico, Ana Martínez Vacas, Andreea Delia Necula, David García Bernal, Maria Paz Villegas Perez, Diego García-Ayuso (Spain)
570 v f	S041	Corneal endothelium protective effect of taurine-based ophthalmic surgical devices Francesca Lazzara, Federica Conti, Grazia Maugeri, Erika Giuffrida, Giuseppe Lo Giudice, Matteo Cereda, Claudio Bucolo (Italy)
572	S042	Design of selective PI3K delta inhibitors for diabetic retinopathy <u>Chiara Bianca Maria Platania</u> , Carmela Bonaccorso, Cristina Munzone, Isabel La Rosa, Erika <u>Giuffrida</u> , Francesca Lazzara, Claudio Bucolo (Italy)
616	S043	Ocular disposition of bio-therapeutics and the role of peptide transporters in blood ocular barriers <u>Tapas Roy</u> , Nabanita Halder, Rohit Saxena, Thirumurthy Velpandian (India)
617	S044	Investigating the cellular impact of silicone oil exposure in retinal cells: insights from cone oil droplet in vertebrate retina
		<u>Dammak Azza</u> , Lara Catherine Kutschbach, Wolf Armin (Germany)
620	S045	Dual serotoninergic ligand exerts protective effect in an in vitro model of blood retinal barrier breakdown Claudio Bucolo, Chiara Bianca Maria Platania, Erika Giuffrida, Francesca Lazzara (Italy)
683	S046	Cigarette smoking and ocular diseases Zahra Javdani, Frank Goes, Guido Vanhal, Deborah Herrera (Belgium)
704	S047	A preclinical tool for proliferative retinopathy and retinal fibrosis based on a mouse model of pericyte immaturity Nekane Maritorena-Hualde, Catalina Prats-Lluís, Hielke Van Splunder, Anabel Martínez-Romero, Xavier Vallvé, Emma Cerrato, Ana Méndez, Luis Arias-Barquet, Eloi Montañez, Mariona Graupera, Pilar Villacampa (Spain)

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100	S049	OCT-A as a highly sensitive biomarker to study retinal change in the early phase of Alzheimer's disease Claudio Iacobucci, Bernardo Billi, Eleonora Lacorte, Patrizia Lorenzini, Paola Piscopo, Anna Elisa Castellano (Italy)
124 <i>r</i> f	S050	Bone morphogenetic protein signaling and retinal fibrosis Mohamed Al-Shabrawey ¹ , Sonali Sharma ¹ , Ikbal Karkoukli ¹ , Alee Asaaf ¹ , Muhammad Haque ¹ , Gieth Alahdab ¹ , Mohamed Tarek ^{1,2} , Yuji Mishina ¹ (¹ USA, ² Egypt)
157 rf	S0 <i>5</i> 1	Biodegradable ultrathin nanofibrous carrier for retinal tissue engineering: optical, mechanical and degradation properties Hana Studenovska, Mourad Souibgui, Jitka Nováčková, Vladimír Proks, Jiří Hodan, Věra Cimrová (Czech Republic)
171 <i>rf</i>	S052	Diabetes and diabetic retinopathy in Finland during 2000-2017 based on nationwide survey and register data Petri Purola, Seppo Koskinen, Hannu Uusitalo (Finland)



197	S055	Golgman Favre syndrome complicated with choroidal neovascularisation: case series <u>Amira Mabrouk</u> , Nabi Wijdene, Boubaker Cyrine, Khochtali Sana, Jelliti Bechir (Tunisia)
203	S056	From skin to sight: sequelae in Hansen's disease Maria Piedrahita, Eduardo Cadena, Maria Estevez, Felipe Moreno, Fernando Godin (Colombia)
206 rf	S057	Escherichia coli Nissle 1917 as an adjuvant therapy reduces inflammation severity in experimental autoimmune uveitis Klara Dusova, Petra Prochazkova, Aneta Klímová, Monika Rova, Nikolina Canova, Jarmila Heissigerova, Miloslav Kverka, Radka Roubalova, Janet Jezkova, Michaela Brichova, Petra Svozilkova (Czech Republic)
214	S058	Follow-up report of a case of focal choroidal excavation secondary to COVID-19 infection <u>Leilei Wang</u> , Xiaoling Fang, Xia Chen, Wenwen Xue, Jiannan Huang, Xiaowei Tong (China)
216	S059	Macular pigmentary changes in diabetic eyes without diabetic retinopathy Alessandro Arrigo, Emanuela Aragona, Gianpaolo Zerbini, Pasquale Aragona, Francesco Bandello (Italy)
217 rf	S060	Retinal vascular changes in mild cognitive impairment using SD-OCT angiography: pilot study <u>Lorena Elvira-Hurtado</u> , Inés López-Cuenca, Lidia Sánchez-Puebla, José A. Matamoros, José A. Fernández-Albarral, Mario Salas-Carrillo, Pedro Gil, Ana Isabel Ramirez, Juan Jose Salazar, Rosa De Hoz, Jose Manuel Ramirez, Elena Salobrar-Garcia (Spain)
221 <i>r</i> f	S061	Detecting retinal alterations in vascular dementia using OCT and OCTA <u>Lorena Elvira-Hurtado</u> , Inés López-Cuenca, Lidia Sánchez-Puebla, José Antonio Matamoros, José A. Fernández-Albarral, Mario Salas-Carrillo, Pedro Gil, Ana I. Ramírez, Juan Jose Salazar, Rosa De Hoz, Jose Manuel Ramirez, Julian Garcia Feijoo, Elena Salobrar-Garcia (Spain)
222 rf	S062	Evaluation of two novel riboflavin-based dyes for safe and effective vitreoretinal staining Mario Troisi, Ciro Caruso, Carmine Ostacolo, Ciro Costagliola (Italy)
239	\$063	Deep learning-based evaluation of heavy liquid-assisted retinal flattening on postoperative anatomical retinal reattachment in macular-involving rhegmatogenous retinal detachment treated with pars plana vitrectomy Yan Gong, Meng Li (China)
251	S064	Advancing retinal imaging with artificial intelligence: evaluating performance in geographic atrophy segmentation <u>Aikaterini Chatzara</u> ¹ , Eirini Maliagkani ¹ , Dimitra Mitsopoulou ² , Andreas Katsimpris ² , Ioannis Apostolopoulos ¹ , Elpiniki Papageorgiou ¹ , Ilias Georgalas ¹ (¹ Greece, ² United Kingdom)
263	S065	Bleeding honeycomb - A rare case of malattia leventinese Inês Ludovico, Pedro Lopes, Joana Ferreira, Maria Elisa Luís, Rita Anjos (Portugal)
284	S066	Single-center evaluation of response to treatment with intravitreal faricimab injections in cases with neovascular age-related macular degeneration Stamatina Kabanarou, Nikolaos Bitzanakis, Petros Fragkiskos, Christina Garnavou-Xirou, Evgenia Kontou, Ilias Gkizis, Tina Xirou (Greece)
290	S067	Automated quantification of macular perfusion in Behçet's uveitis using optical coherence tomography angiography Cigdem Ardic ¹ , Almila Sarigul Sezenöz ¹ , <u>Erdost Yıldız</u> ² , Sirel Gür Güngör ¹ (¹Turkye, ²Germany)

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311	S068	Long-term outcomes of bilateral injection of lenadogene nolparvovec gene therapy for leber hereditary optic	
rf		neuropathy Nancy Newman ¹ , Patrick Yu-Wai-Man ² , Prem Subramanian ¹ , Sarah Thornton ¹ , An-Guor Wang ³ , Sean Donahue ¹ , Bart Leroy ⁴ , Valerio Carelli ⁵ , Valérie Biousse ¹ , Catherine Vignal-Clermont ⁶ , Alfredo Sadun ¹ , Robert Sergott ¹ , Gema Rebolleda Fernández ⁷ , Bart Chwalisz ¹ , Rudrani Banik ¹ , Magali Taiel ⁶ , José-Alain Sahel ¹ (¹USA, ²United Kingdom, ³Taiwan, ⁴Belgium, ⁵Italy, ⁴France, ⁷ Spain)	
315	S069	Innovative automated imaging approach for quantitative analysis of retinal glial cells <u>Lidia Sánchez-Puebla</u> , Miguel A. Sánchez-Puebla, Ana Granados, Valentín Moreno, Ana Isabel <u>Ramirez, Jose Manuel Ramirez, Juan Llorens, Inés López-Cuenca</u> (Spain)	
322	S070	Lower retinal arteriolar and venular fractal dimension are associated with higher risk of incident dementia - The UK Biobank (n = 65,727) Frank van der Heide ¹ , Anthony Khawaja ² , Seray van Montfort ¹ , Archana Singh-Manoux ¹ , Pearse Keane ² , Dan Milea ¹ (1 France, 2 United Kingdom)	
323	S071	Relationship of macrophage-like cells and retinal ganglion cells in healthy eyes Matteo Belletti ^{1,2} , Ester Carreño Salas ² , Francesco Pichi ^{3,4} (¹ Italy, ² Spain, ³ United Arab Emirates, ⁴ USA)	
335	S072	The enigma of frosted branch angiitis: an unexpected challenge in hematologic malignancies Arturo Real Arellano, Bruno Taboada Moreno (Mexico)	
338	S073	A deep learning algorithm for classifying diabetic retinopathy using optical coherence tomography angiography Gahyung Ryu (South Korea)	
344	S074	Evaluating annotation efficiency and consistency in autofluorescence imaging: a comparison of tools Adam Threlfall, Barbra Hamill, Catherine Jamison, Alan Anderson, Enrico Pellegrini, Kereen Johnston, Iain Gourlay, Niall Strang, Tom MacGillivray, Gavin Robertson (United Kingdom)	
362	S075	Retrofoveolar neovascular AMD complication: FARICIMAB(Vabysmo) injections(IVT) treatment with PROREACTIVE protocol Corinne Gonzalez (France)	
364 rf	S076	Structural, morphology and evolution study of AMD drusenoid deposits with OCT and morphology-structural software Corinne Gonzalez (France)	
366	S077	Intravenous thrombolysis in central retinal artery occlusion: a case report <u>Chrysa Agapitou</u> , Alexia Risi-Koziona, Stamatios Lampsas, Panagiotis Theodossiadis, Irini <u>Chatziralli</u> (Greece)	
367	S078	Microvascular changes on the macula and optic disc in patients with type 1 diabetes mellitus <u>Alexia Risi-Koziona</u> , Chrysa Agapitou, Stamatios Lampsas, Konstantinos Pappelis, Panagiotis Theodossiadis, Irini Chatziralli (Greece)	
369 <i>r</i> f	S079	Randomized, controlled study to investigate the efficacy and safety of resveratrol vitamin supplements in patients with non-proliferative diabetic retinopathy without macular edema (REVOLUTION study) Chrysa Agapitou, Alexia Risi-Koziona, Eleni Dimitriou, Stamatios Lampsas, Panagiotis Theodossiadis, Irini Chatziralli (Greece)	
376	S080	Detection of choroidal neovascularization using swept-source optical coherence tomography angiography after half-fluence photodynamic therapy in chronic central serous chorioretinopathy: a three-year follow-up Inmaculada Herrero Sanchez , Olivia Esteban, Pablo Tejada González, Edurne De La Cámara Sahuquillo, Ana María Abad Pascual, Javier Ramos Duarte, Luca Manuel Bueno Borghi, Cristina Calvo Simón, Carla Sánchez Remacha, Julia Aramburu Clavería, Miguel Castillo Fernández, Marta Suñer Martínez, Francisco Javier Ascaso (Spain)	
378	S081	Long-term visual outcomes in complete susac syndrome: a 15-year follow-up Ariadna Garreta-Rafecas, Elena Milla (Spain)	



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481	S094	Evaluation of macular and optic disc nerve blood flow velocity in acute central serous chorioretinopathy measured with laser speckle flowmetry <u>Bogumiła Sędziak-Marcinek</u> , Adam Wylegala, Natalia Lange, Jarosław Piłat, Edward Wylegala (Poland)	
485	S095	Alpha-melanocyte-stimulating hormone protects neurons by inhibiting ferroptosis in experimental retinal ischemia/reperfusion injury <u>Lu Xiang</u> ¹ , Andrew Taylor ² , Amy Cheuk Yin Lo ¹ (¹ China, ² USA)	
489	S096	Pars plana vitrectomy in optic pit maculopathy <u>Luise Grajewski</u> , Beate Wittkowski, Lothar Krause (Germany)	
491	S097	Artificial intelligence in the treatment of diabetic retinopathy: a scoping review Muneeb Ahmad Khan, Diya Baker (United Kingdom)	
515	S098	Microvascular remodeling in macular edema secondary to retinal vein occlusion Amina El Mayel, Mohamed Ben Hadj Khelifa, Rim Kmiha, Ghassen Marzouk, Amel Chebbi (Tunisia)	
531	S099	Unilateral macular edema with mild inflammation: Look for the virus! <u>Aurelie Le</u> , Majda Rachdi, Youssef Afifi, Maria Fernanda Flores Herrera, Dorine Makhoul, Younes Azzagnuni (Belgium)	
550	\$100	Resolution of submacular hemorrhage treated with intravitreal tissue plasminogen activator, pneumatic displacement, and faricimab – a case report Olgierd Duchniewicz, Michał Orski (Poland)	
583	\$101	Management of persistent macular hole retinal detachment following wide-based inverted internal limiting membrane flap surgery in high myopia (mean axial length 30 mm): a modified surgical approach Howard Wen-Haur Chao¹, Windsor Chao¹, Penbai Haui², Cheng-Kuo Cheng², Hsiao-Ming Chao² (¹United Kingdom, ²Taiwan)	
595	\$102	Investigating vision-related quality of life and functionality in patients with low vision <u>Anna Nikolaidou</u> , Stavroula Almpanidou, Persefoni Talimtzi, Diamantis Almaliotis, Vasileios <u>Karampatakis</u> (Greece)	
621	\$103	Predictive factors of final visual outcome in patients with Leber hereditary optic neuropathy treated with lenadogene nolparvovec gene therapy Piero Barboni ¹ , Nancy Newman ² , Valérie Biousse ² , Patrick Yu-Wai-Man ³ , Valerio Carelli ¹ , Catherine Vignal-Clermont ⁴ , Constant Josse ⁵ , Magali Taiel ⁵ , José-Alain Sahel ⁶ , Robert Sergott ⁶ (1 Italy, 2 USA, 3 United Kingdom, 4 France, 6 USA)	
630	\$104	Choroidal calcification revealing phosphocalcic metabolism disorder Rym Maamouri, Ben Nacef Ibtissem, Aouni Jaafer, Rojbani Eya, Maaloul Sahar, Monia Cheour (Tunisia)	
651	\$106	The proteome signatures of the retinal cellular response to psychosocial stress <u>Caroline Manicam</u> , Franziska Neubauer, Norbert Pfeiffer, Marianne Müller, Natarajan Perumal (Germany)	
668	\$107	Diagnostic value of swept-source optical coherence tomography angiography in retinal lipemia <u>Saoussen Chebbah</u> , Bouraoui Rim, Taha Koutheir Bizani, Mohamed Hassen Ben Salem, Iness Hachicha, Khaled El Matri, Chebil Ahmed, Rim Limaiem (<i>Tunisia</i>)	
693	\$108	MicroRNA-21 (miR-21) as a new player in retinal fibrosis Manuela Bartoli (USA)	

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13:30-14:30 | Room 2





A new vision for glaucoma: harmonizing glaucoma management and ocular health

- 13:30 Welcome and introduction Jose Antonio Dias (Portugal)
- 13:35 Artificial intelligence in glaucoma: the 2025 breakthroughs you need to know Andrzej Grzybowski (Poland)
- 13:55 Overcoming barriers to adherence: usability Jose Antonio Dias (Portugal)
- 14:15 Q&A, panel discussion & Closing remarks Andrzej Grzybowski (Poland) and Jose Antonio Dias (Portugal)



13:30-14:30 | Room B





Navigating the current complexities of LHON diagnosis and treatment

- 13:30 Welcome and Introduction Valerio Carelli (Italy)
- 13:35 Assessing the current landscape in LHON clinical management **Valerie Biousse** (USA)
- 13:45 Key Clinical Considerations for Idebenone Treatment in Patients with LHON **Nancy J. Newman** (USA)
- 14:05 LHON: diagnostic challenges and emerging therapies **Patrick Yu-Wai-Man** (United Kingdom)
- 14:15 Interactive Q&A

 Valerie Biousse (USA), Valerio Carelli (Italy), Nancy J. Newman (USA) and Patrick Yu-Wai-Man (United Kingdom)
- 14:25 Closing Remarks **Valerio Carelli** (Italy)

28th EVER 9-11 October 2025 **Florence**



13:30-14:30 | Room 4

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Shaping the future of myopia management

Speakers: Saoirse McCrann (Ireland), Giorgio Parisotto (Italy)



13:05-14:05 | Room B

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Where evidence meets practice: D.I.M.S. spectacle lense for successful myopia management

- 13:05 MiYOSMART: where evidence meets confidence in myopia management **Matilde Ronzoni** (*Italy*)
- 13:20 Why myopia matters: multiple approach for a successful myopia management **Noemi Guemes** (Spain)
- 13:35 Theory meets practice: exploring real-world case studies **Daniela Goicea** (Romania)

28th EVER 9-11 October 2025 **Florence**



13:05-14:05 | Room 4





Inflammation & innovation: new frontiers in ocular surface health

Moderator: Jesus Merayo (Spain)

Cyclosporine and dry eye: addressing the underlying immunopathology Christophe Baudouin (France)

Parainflammation and complement system: striking a delicate balance on ocular surface Antonio Di Zazzo (Italy)

When inflammation is unavoidable: the newest advancement for contact lens specialists Christina Grupcheva (Bulgaria)

Beyond the lid: atopic blepharitis in focus Serge Doan (France)



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Navigating the current complexities of LHON diagnosis and treatment

A Chiesi sponsored industry symposium

28th EVER Congress

Thursday 9th October 2025 | 13:30 - 14:30 Location: Room B | Palazzo degli Affari, Florence, Italy



Valerio Carelli (Chair) Università di Bologna, Italy



Nancy J Newman Emory University School of Medicine, US **Valerie Biousse** Emory University School of Medicine, US



Patrick Yu-Wai-ManMoorfields Eye Hospital, UK
and University of Cambridge, UK

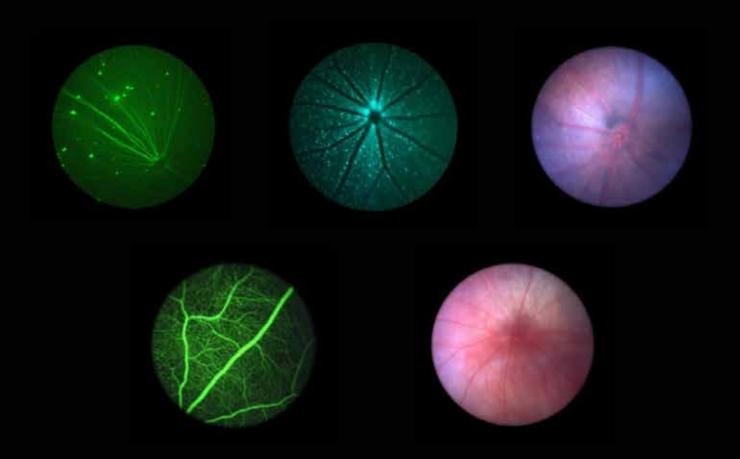


Time	Session	Speakers
5′	Welcome and Introduction	V Carelli
10′	Assessing the Current Landscape in LHON Clinical Management	V Biousse
20′	Key Clinical Considerations for Idebenone Treatment in Patients with LHON	NJ Newman
10′	LHON: Diagnostic Challenges and Emerging Therapies	P Yu-Wai-Man
10′	Interactive Q&A	V Carelli, NJ Newman, V Biousse and P Yu-Wai-Man
5′	Closing Remarks	V Carelli





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