

Rome, December 8, 9, 10 and 11, 2022

Rome Cavalieri, A Waldorf Astoria Hotel Congress Center

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2022

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Fondazione Policlinico Universitario Agostino Gemelli IRCCS  
Università Cattolica del Sacro Cuore

Program



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# THURSDAY DECEMBER 8

15:30-16:30 REGISTRATION

## CAVALIERI 2 ROOM

### 16.30-18.45 RETINA CASE CONFERENCE: OPENING CONGRESS Chairs: SUSAN BRESSLER, STANISLAO RIZZO, RICHARD SPAIDE

- 16:30 Introduction
- 16:34 **Albert Augustin** - A case of choroidal infiltration and retinal detachment in young girl
- 16:36 Discussion
- 16:38 **Angelo Minnella** - Mystery case
- 16:40 Discussion
- 16:42 **J. Fernando Arevalo** - Mystery case
- 16:44 Discussion
- 16:46 **Albert Augustin** - Unusual presentation of an intraocular Tumor
- 16:48 Discussion
- 16:50 **Alfonso Savastano** - New XEN 63 implant in eyes affected by glaucoma after silicone oil removal
- 16:52 Discussion
- 16:54 **Marco Nassisi** - Vitreous veils
- 16:56 Discussion
- 16:58 **Carl Awh** - Mystery case
- 17:00 Discussion
- 17:02 **Enrico Peiretti** - Management of an unexpected foreign body into the lens
- 17:04 Discussion
- 17:06 **Joseph Carroll** - An Incidental Retinal Degeneration
- 17:08 Discussion
- 17:10 **David Chow** - Mystery case
- 17:12 Discussion
- 17:14 **Christine A. Curcio**- Are cuticular drusen and nodular drusen the same thing?  
A clinicopathologic correlation
- 17:16 Discussion
- 17:18 **Lyndon Da Cruz**- The Story Unfolding'
- 17:20 Discussion
- 17:22 **Claus Eckardt**- Just a common case
- 17:24 Discussion
- 17:26 **Susan Bressler** - Mystery case
- 17:28 Discussion
- 17:30 **Philip Ferrone** - Mystery case
- 17:32 Discussion
- 17:34 **Marta Figueroa** - Unexpected Postoperative Evolution of a MH-retinal detachment  
Case Using Plasma Rich in Growth Factors
- 17:36 Discussion
- 17:38 **K. Bailey Freund** - Mystery case
- 17:40 Discussion
- 17:42 **José García-Arumí** - Mystery case
- 17:44 Discussion
- 17:46 **Tarek Hassan** - Outside-In Dissection for Diabetic Traction Retinal Detachment
- 17:48 Discussion
- 17:50 **Tamer Mahmoud** - Progressive SNIFR
- 17:52 Discussion
- 17:54 **Aleksandra Rachitskaya** - Mystery case
- 17:56 Discussion



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**CAVALIERI 2 ROOM**

- 17:58 **Carl D. Regillo** - Roid Rage
- 18:00 Discussion
- 18:02 **David Sarraf** - Mystery Maculopathy
- 18:04 Discussion
- 18:06 **Gaurav K. Shah** - Medical case
- 18:08 Discussion
- 18:10 **Paulo Stanga** - New Imaging Technology: Combined & Simultaneous Ultra Widefield Multiwavelength Imaging, FFA and Widefield Navigated SS-OCT in PDR before & after Retinal Laser and Vitrectomy Surgery
- 18:12 Discussion
- 18:14 **Tom Williamson** - Management of recurrent subretinal fluid accumulation in a patient with encephalocraniocutaneous lipomatosis
- 18:16 Discussion
- 18:18 **Usha Chakravarthy** - Mystery case
- 18:20 Discussion
- 18:22 **Nadia Waheed** - A case of AMD masquerade
- 18:24 Discussion
- 18:26 **Amani Fawzi** - Mystery case
- 18:28 Discussion
- 18:30 **Sandrine Zweifel** - Mystery case
- 18:32 Discussion
- 18:34 **Richard Spaide** - Perfect Macular Hole
- 18:36 Discussion
- 18:38 **Marion Munk** - Mystery case
- 18:40 Discussion



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# FRIDAY DECEMBER 9

## COLOSSEO ROOM

08.00-08.30 **BREAKFAST WITH THE EXPERT** **TOPCON Healthcare**

## CAVALIERI 2 ROOM

**08.30-09.30** **DIABETIC RETINOPATHY IMAGING**  
*Chairs: ALEXANDER J. BRUCKER, SRINIVAS SADDA, ERIC SOUIED, RAMIN TADAYONI*

- 8:30 **Alexander J. Brucker** - Diabetic Retinopathy- a diagnostic conundrum
- 8:36 **Srinivas Sadda** - Ethnic differences in the distribution of diabetic retinopathy lesions
- 8:42 **David Keegan** - Identifying Trends and Causes of Non Attendance at Screening and Treatment in Diabetic RetinaScreen
- 8:48 **Rosangela Lattanzio** - Beyond the Macula in Diabetic Retinopathy
- 8:54 Discussion
- 9:00 **David Huang** - Relating microaneurysms to edema in diabetic retinopathy using OCT angiography
- 9:06 **Amani Fawzi** - Detecting High Risk Diabetic Retinopathy and Predicting Progression using OCTA
- 9:12 **Eric Souied** - Optical coherence tomography angiography for quantitative microvascular assessment in diabetic retinopathy: inter-device and intra-device agreement and correlation with clinical staging
- 9:18 **Ramin Tadayoni** - Can OCTA replace FA for evaluation of diabetic retinopathy?
- 9:24 Discussion

**09.30-10.30** **DIABETIC MACULAR EDEMA**  
*Chairs: FRANCESCO BANDELLO, SUSAN BRESSLER, BARUCH KUPPERMANN*

- 9:30 **Edoardo Midena** - Precision medicine approach to diabetic macular edema diagnosis and treatment
- 9:36 **Baruch Kuppermann** - The Role of Inflammation in Diabetic Macular Edema
- 9:42 **Mariacristina Parravano** - Intravitreal aflibercept in routine clinical practice: AURIGA 24-month results from treatment-naïve patients with DME
- 9:48 **Susan Bressler** - Starting with Aflibercept vs Bevacizumab with Rescue Aflibercept for DME: Do the Outcomes Differ?
- 9:54 Discussion
- 10:00 **Sobha Sivaprasad** - Aflibercept 8mg in diabetic macular edema
- 10:06 **Srinivas Sadda** - Faricimab: clinical and real world case studies
- 10:12 **Francesco Bandello** - Brolucizumab in diabetic macular edema
- 10:18 **Peter Kaiser** - New drugs in DME
- 10:24 Discussion

**10.30-11.15** **BREAKFAST SYMPOSIUM**  
*Moderator: GIACOMO PANOZZO*  
*Panel: VINCENZA BONFIGLIO, JOSÉ CUNHA-VAZ, PAOLO LANZETTA, ROSANGELA LATTANZIO, SOBHA SIVAPRASAD*

- 10:30 **Francesco Bandello, Anat Loewenstein** - Welcome and introduction
- 10:35 **Giacomo Panozzo** - The real-life treatment of DME in Italy: highlights from a multicenter retrospective study - Part 1
- 10:45 **Vincenza Bonfiglio** - The real-life treatment of DME in Italy: highlights from a multicenter retrospective study - Part 2
- 10:55 Round table: new aspects in the treatment of DME





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**CAVALIERI 2 ROOM**

**11.15-12.15    DIABETIC RETINOPATHY TREATMENT**  
*Chairs: NEIL BRESSLER, PETER KAISER, DAVID KEEGAN*

- 11:15 **Peter Kaiser** - RGX-314 for the treatment of diabetic retinopathy
- 11:21 **Neil Bressler** - Anti-VEGF Prevention for Severe Nonproliferative Diabetic Retinopathy: Two Perspectives
- 11:27 **Gianni Virgili** - The Cochrane review on antiVEGF for PDR
- 11:33 Discussion
- 11:39 **Mariacristina Parravano** - Impact of intravitreal anti-VEGF on microperimetric correlates of retinal nonperfusion areas in patients with proliferative diabetic retinopathy
- 11:45 **Neil Bressler** - Managing Proliferative Diabetic Retinopathy: Anti-VEGF Monotherapy, PRP, or Both
- 11:51 **Matteo Giuseppe Cereda** - The Crunch Syndrome in Proliferative Diabetic Retinopathy: a literature review and our experience
- 11:57 **Steven D. Schwartz** - Modern indications for diabetic vitreoretinal surgery
- 12:03 **Cesare Mariotti** - Artificial intelligence and handheld fundus camera as an effective tool in Diabetic Retinopathy screening in a real life setting
- 12:09 Discussion

**12.15-13.10    GENE THERAPIES AND ADVANCED THERAPEUTIC APPROACHES**  
*Chairs: ALEKSANDRA RACHITSKAYA, JOSÉ ALAIN SAHEL, FRANCESCA SIMONELLI*

- 12:15 **Francesca Simonelli** - Gene therapy for RPE65 related Inherited retinal dystrophies: real life experience in Italy
- 12:21 **Aleksandra Rachitskaya** - Gene therapy in Inherited Retinal Diseases, Imaging and Surgery
- 12:27 **Nadia Waheed** - Gene therapy strategies for common retinal disease
- 12:33 **Suber Huang** - Ocular Immune Response in Retina Gene Therapy
- 12:39 Discussion
- 12:45 **José Alain Sahel** - Early Clinical Trials in Vision Restoration
- 12:51 **Bart Leroy** - Efficacy and safety of sepofarsen, an intravitreal RNA antisense oligonucleotide, for the treatment of CEP290- associated Leber congenital amaurosis (LCA10): a randomized, double-masked, sham- controlled Phase 3 study (ILLUMINATE)
- 12:57 **Alfonso Savastano** - Preliminary results of Cord blood Plateled Rich Plasma (CB-PRP) subretinal injection for retinitis pigmentosa ad age-related macular degeneration
- 13:03 Discussion

**13.10-13.25    BRUNO LUMBROSO LECTURE LIVE**  
**K. BAILEY FREUND**  
PXE: A Rare Disease with a Multitude of Retinal Imaging Findings

**13.25-13.30    ASSOCIAZIONE PAZIENTI RETINA**

**13.30-14.15    LUNCH SYMPOSIUM:**  
**New horizons in Retinal Diseases and beyond**  
*Chairs: FRANCESCO BANDELLO, PAOLO LANZETTA, SRINIVAS SADDA*

- 13:30 **Sascha Fauser** - Drug development in ophthalmology: from bench to clinical use
- 13:40 **Edoardo Midena** - The inhibition of pathologic pathways in DME and nAMD
- 13:50 Panel discussion

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**CAVALIERI 2 ROOM**

**14.15-15.00 INHERITED RETINAL DISEASES (IRD) ACTUAL MANAGEMENT AND FUTURE PERSPECTIVES**  
*Chairs: ALBERT AUGUSTIN, BART LEROY, ROBERT MACLAREN*

- 14:15 **Alessandro Iannaccone** - Approaches to the clinical, functional and genetic work-up for optimized characterization of the Inherited Retinal Diseases (IRD) patient
- 14:21 **Bart Leroy** - Current Practice in Phenotyping and Genotyping in Inherited Retinal Diseases
- 14:27 **Robert MacLaren** - An introduction to CRISPR gene therapy and gene editing for retinal disease
- 14:33 **José Alain Sahel** - Cone Directed Strategies in Retina Degeneration
- 14:39 **Francesco Testa** - Progress in therapeutic strategies for Stargardt disease
- 14:45 **Francesca Simonelli** - A longitudinal natural course study for MYO7A Usher patients in preparation of a phase I clinical trial
- 14:51 Discussion

**15.00-15.30 SPONSORED SESSION - TECHNOLOGICAL DEVELOPMENTS BY CLINICIANS AND ENGINEERS**

- 15:00 **Shawn Peng** - DREAM it possible: A new generation of Swept-Source OCT - Intalight Inc
- 15:07 **Ori Zahavi** - Advantages of wide field OCT - Canon
- 15:14 **Arkadiusz Chalecki** - REVO FC 130 – Update on the world's fastest All in One Spectral Domain OCT - Optopol
- 15:21 **Tara Pahlevan** - Accelerating the development of innovation in SS-OCT: AI and beyond - ZEISS

**15.30-16.30 FLUID MONITORING IN CLINICAL PRACTICE**  
*Chairs: URSULA SCHMIDT-ERFURTH*

- 15:30 **Paolo Lanzetta** - What we know about the role of fluid in macular disease
- 15:37 **Jennifer Arnold** - Treat & Extend.. where to now?
- 15:44 **Ramin Tadayoni** - AI-based fluid quantification: Needs and value
- 15:51 Discussion
- 16:00 **Ursula Schmidt-Erfurth** - Insights from a prospective multi-center trial
- 16:07 **Daniel Barthelmes** - Fluid monitoring in the FRB real-world practice
- 16:14 **Stela Vujosevic** - First experience to handle an AI-tool in the clinic
- 16:21 Discussion

**16.30-17.15 CHORIORETINAL VASCULAR DISEASES**  
*Chairs: AMANI FAWZI, NADIA WAHEED, JAY CHHABLANI, FRANCESCO BOSCIA*

- 16:30 **Nadia Waheed** - Machine Learning in Image Enhancement for Retinal Vascular Disease
- 16:35 **Marco Lupidi** - Improvement of retinal OCT angiograms by Sampling Kantorovich algorithm in the assessment of retinal and choroidal perfusion
- 16:40 **Francesco Boscia** - Eplerenone for Chronic serous chorioretinopathy
- 16:45 **Francesco Bandello** - 5-year morphologic biomarkers in macular edema secondary to retinal vein occlusion
- 16:50 **Claudio Iovino** - Coincident PAMM And AMN and insights into a common pathophysiology
- 16:55 **Amani Fawzi** - Neurovascular interactions in MacTel, what we have learned from imaging
- 17:00 **Daniel Pauleikhoff** - Macular Teleangiectasis type 2 - pathogenesis, clinical course and potential treatment
- 17:05 **David Sarraf** - Henle Fiber Hemorrhage in Mac Tel: Can we Explain the Right Eye Dominance?
- 17:10 Discussion



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**CAVALIERI 2 ROOM**

**17.15-17.35 MAIN LECTURE**  
**LAWRENCE YANNUZZI - AZOOR: Acute and Relentless Progression**

**CAVALIERI 1 ROOM**

**08.00-13.00 LIVE SURGERY**  
*Moderators from operatory theatre: STEVE CHARLES, DONALD J. D'AMICO, CLAUS ECKARDT*  
*Moderators from Auditorium: BERNARDO BILLI, STEFANO DE CILLÀ, JOSÉ GARCÍA-ARUMÍ, TAREK HASSAN, FABIO PATELLI, MARIO ROMANO, GAURAV K. SHAH, MATTEO FORLINI*  
**SURGEONS**  
*Rome: STANISLAO RIZZO, VINCENZO FERRARA, FRANCESCO BOSCIA, FRANCESCO BARCA, DANIELE TOGNETTO, VINCENZO SCORCIA, MICHELE COPPOLA, PAOLO LANZETTA, MARCO MURA*  
*Negrar: GUIDO PRIGIONE, GRAZIA PERTILE*  
*Leuven: PETER STALMANS*  
*Newcastle: SANDRO DI SIMPLICIO*  
*Athens: YUSUKE OSHIMA, PETROS PETROU, STRATOS GOTZARIDIS, SEBASTIAN GUIGOU, PANOS STAVRAKAS, THEODOROS GIANOPOULOS*

**13.00-13.45 LUNCH SYMPOSIUM: Eye to Eye - Advancing your surgical toolbox**



- 13:00 *Stanislao Rizzo* - Welcome & Introduction
- 13:05 *David Chow* - The most trusted surgical equipment in Retina surgery - understanding hardware and technology
- 13:15 *Marta Figueroa* - Surgical cases: There is more than meets the eye - use cutspeed and tip design to your advantage
- 13:28 *Vincenzo Ferrara* - Surgical Cases: Handles and tips in complex surgery - precision and control within and outside the eye
- 13:41 *Stanislao Rizzo* - Closing remarks

**13.45-14.30 HOW DO I DO IT**  
*Chair: EHAB EL RAYES*  
*Panel: CARL CLAES, CLAUS ECKARDT, JOSÉ GARCÍA-ARUMÍ, MARTA FIGUEROA, KAZUAKI KADONOSONO, MARCO MURA*

**14.30-15.30 MACULAR HOLE**  
*Chairs: MARC DE SMET, FRANCESCO FARALDI, MARTA FIGUEROA, LEJLA VAJZOVIC*

- 14:30 *Marc De Smet* - Can imaging orient our choice in macular hole surgery?
- 14:35 *Gian Marco Tosi* - Full-Thickness Macular Hole Pre-operative Progression Rate: Prognostic Implications Related to the Choice of Surgical Timing
- 14:40 *Ricarda G. Schumann* - The Internal Limiting Membrane Peeling – Lessons Learned From Histopathology
- 14:45 *Andrea Govetto* - Signs and mechanisms of photoreceptor disruption in full-thickness macular hole: clinical insights and prognostic value
- 14:50 *Daniele Tognetto* - Prognostic factors in macular hole surgery: new variables
- 14:55 Discussion
- 15:00 *Marta Figueroa* - Plasma Rich in Growth Factors (PRGF) in large and complex macular hole cases
- 15:05 *Donald J D'Amico* - Decision Making in Macular Hole Surgery: How To Select the Best Surgical Approach
- 15:10 *Tomaso Caporossi* - Optic disk pit maculopathy treatment using a human amniotic membrane patch
- 15:15 *José García-Arumí* - Surgical management of optic pit maculopathy
- 15:20 Discussion



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**CAVALIERI 1 ROOM**

**15.30-16.30 INTRAOCULAR TAMPONADES**

*Chairs: STEVE CHARLES, MARIO ROMANO, TOMMASO ROSSI*

- 15:30 *Tommaso Rossi* - Gas tamponade contact with the retina during daily activity
- 15:35 *Peter Szurman* - Hydrogel developments as vitreous substitute
- 15:40 *Steve Charles* - Medium term PFO for inferior retinal detachments and inferior, nasal, and temporal giant breaks
- 15:45 *Ernesto Bali* - A safe way of using PFCL and preventing complication
- 15:50 *Michele Coppola* - Visual and morphologic outcome of PFCL-free rhegmatogenous retinal detachment
- 15:55 *Giorgio Marchini* - Management of glaucoma post PPV
- 16:00 *Mario Romano, James Burckhardt, Jana Tothova, Antonio Boccardi, Anna Carannante* – Panel Discussion on Dyes, tamponades, Silicone oils

**16.30-17.15 AFTERNOON SYMPOSIUM: Innovations in VR surgery**

*Moderator: CAROLINE BAUMAL*



- 16:30 *Gaurav K. Shah* - First experience with EVA NEXUS
- 16:40 *Marco Vecchi* - No compromise 27g surgery – my experience
- 16:50 *Adel AlAkeely* - Instrument Innovation for Complex Detachment Surgery
- 17:00 Discussion

**17.15-18.00 RETINAL DETACHMENT 1: SURGICAL TECHNIQUES**

*Chairs: J. FERNANDO AREVALO, YANNICK LE MER, GAURAV K. SHAH, DANIELE TOGNETTO*

- 17:15 *Francesco Faraldi* - Vitreoschisis-induced vitreous cortex remnants removal in primary rhegmatogenous retinal detachment
- 17:20 *J. Fernando Arevalo* - Vitrectomy versus Vitrectomy with Scleral Buckling in the Treatment of Giant Retinal Tear Related Retinal Detachments: An International Multicenter Study
- 17:25 *Gaurav K. Shah* - Vitrectomy versus combined vitrectomy and scleral buckle for repair of primary retinal detachment associated with vitreous hemorrhage
- 17:30 *Daniele Tognetto* - Minimal scleral buckling: the most effective approach
- 17:35 *Teresio Avitabile* - Macular Edema Following Vitrectomy for Primary Rhegmatogenous Retinal Detachment
- 17:40 *Yannick Le Mer* - Retinal displacement after RD surgery : some clues for prevention
- 17:45 *J. Fernando Arevalo* - Repair of Progressive Retinal Detachment Complicating Degenerative Retinoschisis: Surgical Management and Outcomes in Phakic Eyes
- 17:50 *Thomas Wolfensberger* - A novel variant of pneumopexy
- 17:55 Discussion

**BELLE ARTI ROOM**

**08.30-09.30 RETINAL LASER PHOTOCOAGULATION**

*Chairs: PAOLO LANZETTA*

*Panel: FRANCESCO BANDELLO, ANAT LOEWENSTEIN*

- 8:30 *Daniele Veritti* - Laser-tissue interactions in the retina: is there anything new?
- 8:35 Discussion
- 8:37 *Francesco Bandello* - Is laser photocoagulation for proliferative diabetic retinopathy still needed? YES
- 8:43 *Neil Bressler* - Is laser photocoagulation for proliferative diabetic retinopathy still needed? NO
- 8:49 *Panel* - Is laser photocoagulation for proliferative diabetic retinopathy still needed?



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**BELLE ARTI ROOM**

- 8:52 **Usha Chakravarthy** - What's the role of retinal rejuvenation therapy and photobiomodulation in the treatment of retinal conditions? A REVOLUTIONARY TOOL
- 8:58 **Jay Chhablani** - What's the role of retinal rejuvenation therapy and photobiomodulation in the treatment of retinal conditions? A TEMPORARY HYPE
- 9:04 **Panel** -What's the role of retinal rejuvenation therapy and photobiomodulation in the treatment of retinal conditions?
- 9:07 **Stela Vujosevic** - Is subthreshold micropulse laser treatment a valuable option for the treatment of central serous chorioretinopathy? YES
- 9:13 **Anat Loewenstein** - Is subthreshold micropulse laser treatment a valuable option for the treatment of central serous chorioretinopathy? NO
- 9:19 **Panel** - Is subthreshold micropulse laser treatment a valuable option for the treatment of central serous chorioretinopathy?
- 9:22 **Valentina Sarao** - Novel irradiation strategies for the treatment of retinal conditions
- 9:27 Discussion

**09.30-10.30 IMAGING: NEW DEVELOPMENTS**  
*Chairs: JAMES FUJIMOTO, BRUNO LUMBROSO, DAVID HUANG*

- 9:30 **Massimo Nicoló** - Oct image teleacquisition. A remote based approach to manage macular disease
- 9:36 **Michael Pircher** - Adaptive optics optical coherence tomography: What do we see more?
- 9:42 **Yves Salomon Cohen** - Exudative vs. neovascular AMD
- 9:48 **Peter Campbell, Jian Yifan** - Ultrawide-field Handheld Optical Coherence Tomography
- 9:54 Discussion
- 10:00 **Paulo Stanga** - Two New Imaging Technologies for the Assessment of the Peripheral Vitreoretinal Interface and Retina: 23 mm Single Scan Widefield SS-OCT and Simultaneous Ultra Widefield FFA/ICG Angiography with Navigated Peripheral OCT
- 10:06 **Mariano Cozzi** - What we miss with the SD and SS OCT today: a High Resolution OCT study
- 10:12 **Sebastian Wolf** - High resolution OCT - New findings
- 10:18 **Stela Vujosevic** - Digital innovation for retinal care in diabetic retinopathy
- 10:24 Discussion

**10.30-11.15 BREAKFAST SYMPOSIUM: Advanced Research and Innovation**  
**Ophthalmic Biomarkers and Artificial Intelligence**  
*Moderator: STELA VUJOSEVIC*



- 10:30 **Nadia Waheed** - AI Based Imaging enhancement for Retinal Disease
- 10:40 **Stela Vujosevic** - OCT and OCT-A biomarkers in Diabetes mellitus
- 10:50 **Mariacristina Parravano** - UWF multimodal imaging in vascular diseases
- 11:00 Discussion

**11.15-12.15 RETINAL IMAGING FOR PREDICTION OF SYSTEMIC DISEASES**  
*Chairs: DANIELA BACHERINI, YVES SALOMON COHEN, SANDRINE ZWEIFEL*

- 11:15 **Sandrine Zweifel** - The eye and the heart
- 11:21 **Carol Cheung** - Retinal Imaging in Alzheimer's Disease: an Overview and its Potential
- 11:27 **Amir H. Kashani** - Retinal Vascular Changes in Vascular Cognitive Impairment: A Novel Application for Optical Coherence Tomography Angiography
- 11:33 **Gilda Cennamo** - Updates on the role of OCTA in neurodegenerative disease
- 11:39 Discussion



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**BELLE ARTI ROOM**

- 11:45 **Angelo Minnella** - Evaluation of retinal vasculopathy in Facioscapulohumeral Dystrophy using OCT angiography : a case series
- 11:51 **Yves Salomon Cohen** - Overview of subretinal deposits of systemic origin
- 11:57 **Alexander J. Brucker** - Pentosan Polysulfate Challenge
- 12:03 **Luisa Pierro** - New findings in early-stage keratoconus: lamina cribrosa curvature, retinal nerve fiber layer thickness and vascular perfusion
- 12:09 Discussion

**12.15-13.10 DEBATE LOUNGE**

*Chairs: BARUCH KUPPERMANN, ANAT LOEWENSTEIN, PAOLO LANZETTA*

- 12:15 **Francesco Bandello** - The Port Delivery System will be an excellent option for nAMD patients with persistent fluid. AGAINST
- 12:20 **Carl Awh** - The Port Delivery System will be an excellent option for nAMD patients with persistent fluid. FOR
- 12:25 **Adiel Barak** - Augmented Reality has the potential to improve retinal surgery outcomes. FOR
- 12:30 **Paolo Lanzetta** - Augmented Reality has the potential to improve retinal surgery outcomes. AGAINST
- 12:35 **Albert Augustin** - Is It Necessary to Peel Internal Limiting Membrane in Diabetic Vitrectomy? YES
- 12:40 **Diana V. Do** - Is It Necessary to Peel Internal Limiting Membrane in Diabetic Vitrectomy? NO
- 12:45 **Carl D. Regillo** - Is there room for surgical displacement in Submacular Hemorrhage secondary to AMD? YES
- 12:50 **Usha Chakravarthy** - Is there room for surgical displacement in Submacular Hemorrhage secondary to AMD? NO
- 12:55 **Jean-Francois Korobelnik** - Vitrectomy is the best approach for treating serious vitreous opacities. FOR
- 13:00 **J. Fernando Arevalo** - Vitrectomy is the best approach for treating serious vitreous opacities. AGAINST
- 13:05 Discussion

**13.10-13.25 BRUNO LUMBROSO LECTURE LIVE from Cavalieri 2 ROOM**

*K. BAILEY FREUND*

PXE: A Rare Disease with a Multitude of Retinal Imaging Findings

**13.25-13.30 ASSOCIAZIONE PAZIENTI RETINA**



**13.30-14.15 LUNCH SYMPOSIUM:**

**Learn about the world's fastest and most versatile SD OCT technology**



- 13:30 **Bartosz Sikorski** - REVO FC 130 - the All-in-One OCT device - and its unique ocular biometric capabilities
- 13:50 **Adam Wylęgała** - Corneal Grand Tour of Italy with REVO FC 130
- 14:10 Discussion

**14.15-15.15 OCT ANGIOGRAPHY FOR BEGINNERS Under the Patronage of SISO**

*Director: DANIELA BACHERINI*

*Special Guest and Honorary President: BRUNO LUMBROSO*

*Chairs: DAVID HUANG, MARCO RISPOLI*



- 14:15 **David Huang** - Basic principle of OCT angiography (OCTA)
- 14:25 **Enrico Borrelli** - OCT angiography and retinal anatomy
- 14:35 **Nadia Waheed** - Image artifacts in OCT angiography
- 14:45 **Marion Munk** - OCT Angiography nomenclature in Retinal vascular Diseases
- 14:55 **Philip J. Rosenfeld** - OCTA imaging of MNV, PCV, and CC using boundary specific segmentation
- 15:05 **Luca Di Antonio** - Tips and Tricks of OCT angiography



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**FRIDAY DECEMBER 9**

**BELLE ARTI ROOM**

**15.15-16.30** **ADVANCED OCT ANGIOGRAPHY** *Under the Patronage of SISO*  
**Special Guest and International OCT Angiography**  
**Opinion Leader: LUMBROSO BRUNO**

*Chairs: MARIA CRISTINA SAVASTANO, MARCO RISPOLI, DAVID SARRAF, CAROLINE BAUMAL*

- 15:15 **Marco Rispoli** - New advanced application of OCTA
- 15:22 **Caroline Baumal** - Diabetic retinopathy: new frontiers
- 15:29 **David Sarraf** - Biomarkers in AMD in everyday clinical practice
- 15:36 **Amani Fawzi** - White dot syndrome: is OCTA helpful?
- 16:43 Discussion
- 15:52 **Sandrine Zweifel** - OCTA & Pachyvessels: a new biomarkers?
- 15:59 **Marco Pellegrini** - Role of OCTA in masquerade syndrome
- 16:06 **Alexander J. Brucker** - Wide Field imaging: future perspective
- 16:13 **James Fujimoto** - Advances in high speed SS-OCT angiography for assessing blood flow impairment
- 16:20 Discussion

**16.30-17.15** **AFTERNOON SYMPOSIUM: Advanced Research and Innovation**  
**Ultra-widefield fundus imaging**  
*Moderator: GIUSEPPE QUERQUES*



- 16:30 **Jean-Francois Korobelnik** - Bringing it together - Multi-Modal Ultra Widefield Imaging
- 16:40 **Barbara Parolini** - No compromises in fundus imaging with ultra-widefield technology
- 16:50 **Mario Romano** - Benefits of ultra-widefield imaging in vitreoretinal surgery
- 17:00 Discussion

**17.15-18.00** **MULTIMODAL IMAGING: HOW TO INTERPRET THE DIFFERENT SOURCES OF SIGNAL**  
*Chair: FRANCESCO BANDELLO*  
*Co-Chair: GIUSEPPE QUERQUES*

- 17:15 **Enrico Borrelli** - Fundus Autofluorescence
- 17:24 **Riccardo Sacconi** - Optical coherence tomography
- 17:33 **Alessandro Arrigo** - Optical coherence tomography angiography
- 17:42 **Maria Vittoria Cicinelli** - Ultrawide field angiography
- 17:51 **Chairs & Speakers** - Final remarks and discussion

**ELLISSE ROOM**

**8.00-9.30** **AMD 1 - FREE PAPERS**  
*Chairs: MARIACRISTINA PARRAVANO, KHALIL G. FALAVARJANI, ANGELO MINNELLA, MARIA CRISTINA SAVASTANO*

- 8:00 Introduction
- 8:06 **Jungeun Won** - Automated detection of small hyperreflective specks and flecks in non-neovascular age-related macular degeneration using ultrahigh resolution optical coherence tomography
- 8:10 Discussion



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**ELLISSE ROOM**

- 8:12 **Yehonatan Weinberger** - Unique multi-modal imaging features of giant, subfoveal choroidal lipid globule
- 8:16 Discussion
- 8:18 **Giacomo Boscia** - Macular thickness and visual acuity are characterized by a quadratic nonlinear relation in previously treated neovascular amd eyes: retinal thickness deviation values better predicts visual function.
- 8:22 Discussion
- 8:24 **Alessandro Arrigo** - New quantitative octa metrics for the assessment of the growth and activity of macular neovascularization secondary to age-related macular degeneration.
- 8:28 Discussion
- 8:30 **Diogo Cabral** - Quantitative assessment of choriocapillaris flow deficits and type 1 macular neovascularization growth in age-related macular degeneration
- 8:34 Discussion
- 8:36 **Pasquale Viggiano** - Topographical analysis of the choriocapillaris reperfusion after loading anti-vegf therapy in neovascular amd
- 8:40 Discussion
- 8:42 **Andrea Servillo** - Intraretinal fluid in intermediate age-related macular degeneration
- 8:46 Discussion
- 8:48 **Ana Filipa Moleiro** - Can anti-vegf treatment influence choroidal thickness? —  
— A retrospective study of patients with exudative age-related macular degeneration —
- 8:52 Discussion
- 8:54 **Costanza Barresi** - Capturing the transition from intermediate to neovascular amd: longitudinal inner retinal thinning and factors associated with neuronal loss
- 8:58 Discussion
- 9:00 **Francesco Romano** - Ten-year incidence of fibrosis and risk factors for its development in neovascular age-related macular degeneration.
- 9:04 Discussion
- 9:06 **Matteo Airdali** - Differences in long-term progression of atrophy between neovascular and nonneovascular age-related macular degeneration
- 9:10 Discussion
- 9:12 **Andrea Saladino** - Fundus autofluorescence in extensive macular atrophy with pseudodrusen (emap) and diffuse trickling geographic atrophy (dtga)
- 9:16 Discussion
- 9:18 **Federico Ricardi** - Repeatability of reading performance measures in patients with neovascular age-related macular degeneration and good visual acuity
- 9:22 Discussion
- 9:24 **Enrico Peiretti** - Patients' satisfaction assessment in wamd management: an italian patient survey (the swan study)
- 9:28 Discussion

**09.30-10.25 AMD 2 - FREE PAPERS**  
**Chairs: RAMIN TADAYONI, RICHARD GALE, CHIARA EANDI**

- 9:30 **Pietro Monaco** - Treat and extend versus pro re nata regimens in neovascular age-related macular degeneration: retrospective comparative study in a clinical practice setting.
- 9:34 Discussion
- 9:36 **Matteo Mario Carlà** - Brolocizumab for wet age-related macular degeneration: one-year real-world experience from a tertiary center
- 9:40 Discussion
- 9:42 **Livio Vitiello** - Bilateral brolocizumab intravitreal injections in amd patients: a brief report
- 9:46 Discussion



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**ELLISSE ROOM**

- 9:48 **Pasquale Viggiano** - Short-term morpho-functional changes in previously treated neovascular amd eyes switched to brolocizumab
- 9:52 Discussion
- 9:54 **Daniel Rudolf Muth** - First real-live data on efficacy and safety of faricimab in neovascular age-related macular degeneration (namd) and diabetic macular edema (dme) in switzerland
- 9:58 Discussion
- 10:00 **Richard Gale** - Efficacy of intravitreal pegcetacoplan in geographic atrophy: 24-month results from the oaks and DERBY phase 3 trials
- 10:04 Discussion
- 10:06 **Ramin Tadayoni** - Safety of intravitreal pegcetacoplan in geographic atrophy: 24-month results from the OAKS and derby phase 3 trials
- 10:10 Discussion
- 10:12 **Gustavo Melo** - Mechanisms of sterile inflammation after intravitreal injection of antiangiogenic drugs
- 10:16 Discussion
- 10:18 Panel Discussion

**10.30-11.15 MEET THE EXHIBITORS AT THE EXPO AREA**

**11.15-13.10 ROP COURSE**  
*Chairs: DOMENICO LEPORE, DARIUS M. MOSHFEGHI*

- 11:15 **Fernando Molle** - Introduction
- 11:20 **Domenico Lepore** - Screening and treatment criteria
- 11:35 **Peter Campbell** - AI in ROP
- 11:50 **Peter Campbell, Jian Yifan** - New imaging techniques. Ultrawide Field of View Optical Coherence Tomography for the Diagnosis and Classification of Retinopathy of Prematurity
- 12:05 **Mary Elizabeth Hartnett** - antiVEGF vs Laser
- 12:20 **Darius M. Moshfeghi** - Regression and reactivation
- 12:35 **Daniela Ricci** - Early and Late visual assessment
- 12:50 Discussion

**13.10-13.25 BRUNO LUMBROSO LECTURE LIVE from Cavalieri 2 ROOM**  
**K. BAILEY FREUND**  
PXE: A Rare Disease with a Multitude of Retinal Imaging Findings

**13.25-13.30 ASSOCIAZIONE PAZIENTI RETINA**

**13.30-14.15 MEET THE EXHIBITORS AT THE EXPO AREA**

**14.15-15.30 WHAT YOU NEED TO KNOW IN THE PREVENTION AND MANAGEMENT OF ENDOPHTHALMITIS IN 2022** *Under the Patronage of GIVRE*  
*Chairs: FRANCESCO BOSCIA, GUIDO LESNONI, MARCO ANDREA PILERI, STEFANO ZENONI, PAOLO LANZETTA*



- 14:15 **Daniele Tognetto** - Diagnosis, role of biopsy and antibiotics
- 14:22 **Grazia Pertile** - Post traumatic endophthalmitis
- 14:29 **Mario Romano** - Post surgical endophthalmitis
- 14:36 **J. Fernando Arevalo** - Post intravitreal injection endophthalmitis
- 14:43 Discussion
- 14:52 **Jay Chhablani** - Specimens, lab, and PCR



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**ELLISSE ROOM**

- 14:59 **Rodolfo Mastropasqua** - Antiseptic and antibiotic agents
- 15:06 **Tito Fiore** - Primary small gauge pars PLANA vitrectomy and silicon oil endotamponade for endophthalmitis after cataract surgery: clinical and OCT findings
- 15:13 **Tarek Hassan** - Current and Future Evolution of Surgical Sterility
- 15:20 Discussion

**15.30-16.30 REDO MACULAR HOLE SURGERY**  
*Chairs: TOMASO CAPOROSSI, CARL CLAES, MARTA FIGUEROA*

- 15:30 **Gloria Gambini** - Introduction
- 15:36 **Carl Claes** - Treatment of failed macular hole (hydrodissection)
- 15:42 **Marta Figueroa** - Plasma Rich in Growth Factors (PRGF) in failed macular hole cases
- 15:48 **Daniela Bacherini** - ILM in the treatment of failed MH
- 15:54 **Luca Ventre** - Relaxing retinotomies for secondary macular hole repair
- 16:00 **Tamer Mahmoud** - Autologous neurosensory retinal free flap transplantation (ART)
- 16:06 **Tomaso Caporossi** - Amniotic Membrane
- 16:12 **Ciro Tamburrelli** - Autologous iris transplant
- 16:18 **Umberto Lorenzi** - The Refractory Macular Hole (ReMaHo) study
- 16:24 Discussion

**16.30-17.15 AFTERNOON SYMPOSIUM SING IMT:**  
**Implantable Miniature Telescope for Late-Stage AMD**  
*Chair: ALFONSO SAVASTANO*



- 16:30 **Adrian Hernandez** - Accurate Patient Selection Delivers Better Outcomes for SING IMT
- 16:37 **Mario Romano, Irene Nepita** - The technology behind the SING IMT performance
- 16:44 **Pantelis A. Papadopoulos** - SING IMT: Similar to a cataract procedure to improve vision in patients with late stage-AMD
- 16:51 **Boris Stanzel** - Accelerating the Learning Curve of SING IMT Surgery
- 16:58 **Mario Toro** - SING IMT Retrospective Study: Results at 3 Months
- 17:05 **All** - Panel Discussion

**17.15-18.00 PEDIATRIC VITREORETINAL SURGERY**  
*Chair: CARL CLAES*

- 17:15 **Ehab El Rayes** - Management of pediatric retinal detachments in genetic syndrome, tips and tricks
- 17:22 **Philip Ferrone** - Stickler syndrome
- 17:32 **Marco Mura** - Surgical treatment of ischemic vitreoretinopathies
- 17:42 **Carl Claes** - Pediatric VR Interface
- 17:52 Discussion

**CARAVAGGIO ROOM**

**09.30-10.30 ADVANCED THEORETICAL-PRACTICAL COURSE OF IMAGING FOR ORTHOPTISTS: ADVANCES IN TECHNIQUES, DIAGNOSIS AND SHARED MANAGEMENT OF PATIENTS WITH RETINOPATHIES. PATRONAGE OF: AIOrAO. FNO TSRM-PSTRP**  
*President: CARLA BLENGIO, DANIELA FIORE*  
*Organizators: ROBERTA MATTEI, CHIARA FEDELI, GIORGIO PLACIDI*  
*Ophthalmologists: FRANCESCO FARALDI, MARIA CRISTINA SAVASTANO*  
*Moderators: GIULIO PIANA, ERICA SCARICA*  
*Panel: GIORGIO PLACIDI, CARLO PERILLO, ELISA DE SIENA, ILARIA BIAGINI, MARIANO COZZI*





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**CARAVAGGIO ROOM**

- 9:30 **Giorgio Placidi** - Pathognomonic ERGs in Inherited Retinal Dystrophies
- 9:38 **Carlo Perillo** - Multimodal imaging in every day clinical practice
- 9:46 **Matteo Giarletti** - The importance of image quality in clinical practice and in clinical trials
- 9:54 Discussion
- 10:00 **Elisa De Siena** - The academic study course of a Study Coordinator and Clinical Research Associate (CRA). My personal experience
- 10:08 **Ilaria Biagini** - The Role of the Orthoptist in the coordination of clinical trials
- 10:16 **Mariano Cozzi** - Data collection for clinical application and clinical trials
- 10:24 Discussion

**10.30-11.15 MEET THE EXHIBITORS AT THE EXPO AREA**

**11.15-12.30 SYMPOSIUM POLO NAZIONALE IPOVISIONE.  
VISION REHABILITATION: IS TODAY THE FUTURE?  
Chairs: FILIPPO AMORE, SIMONA TURCO**



- 11:15 **Silvio P. Mariotti** - Vision Rehabilitation: innovation to overcome barriers and deliver Universal Health Care
- 11:25 **Gianfrancesco Villani** - Tele-medicine and Tele-rehabilitation
- 11:35 **Maria Aparecida Onuky Haddad** - High-tech devices
- 11:45 **Valeria Silvestri** - Vision Rehabilitation experience after retinal prosthesis implant
- 11:55 **Gianni Virgili** - How to measure the effectiveness of vision rehabilitation
- 12:05 Q&A

**12.30-13.15 LUNCH SYMPOSIUM: DIABETIC RETINOPATHY:  
FROM PATHOPHYSIOLOGY TO TREATMENT  
Chairs: FRANCESCO BANDELLO, JOSÉ GARCÍA-ARUMÍ, ANAT LOEWENSTEIN**



- 12:30 **Stefano Del Prato** - Pathophysiology of Diabetic Retinopathy
- 12:40 **Francesco Boscia** - Diabetic Retinopathy as neurovascular disease
- 12:50 **Mariacristina Parravano** - Treatment of incipient Diabetic Retinopathy: clinical evidence with Citicoline and Vitamin B12 eye drops
- 13:00 **Francesco Bandello** - Take home messages
- 13:10 Discussion

**14.40-15.30 ARTIFICIAL INTELLIGENCE: APPLICATION TO DIABETIC RETINOPATHY  
Coordinator: EDOARDO MIDENA, PAOLO LANZETTA**

- 14:40 **Valentina Sarao** - Fundus color photography and artificial intelligence
- 14:50 **Luisa Frizziero** - Diabetic macular edema biomarkers and AI: the theory
- 15:00 **Marco Lupidi** - Diabetic macular edema biomarkers and AI: the practice
- 15:10 **Majda Hadziahmetovic** - AI-powered remote screening for diabetic retinopathy: Are we there yet?
- 15:20 Discussion

**15.30-17.30 OCULAR ONCOLOGY  
Chairs: EMILIO BALESTRAZZI, MARIA ANTONIETTA BLASI, BERTIL DAMATO, EDOARDO MIDENA**

- 15:30 **Carol Shields** - Uveal melanoma: updated treatment
- 15:40 **Bertil Damato** - Pros and Cons of endoresection for uveal melanoma
- 15:50 **Martina Angi** - Polymorphic manifestations of ocular metastases from cutaneous melanoma



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**CARAVAGGIO ROOM**

- 15:57 **Carmela Grazia Caputo, Claudia Fossataro** - Diagnostic ultrasound imaging in ocular oncology
- 16:04 **Heinrich Heimann** - Biopsy of small choroidal tumours: results and complications
- 16:11 **Monica Pagliara** - Resolution of exudative retinal detachment after brachytherapy treatment for uveal melanoma
- 16:18 **Antonia Jousen** - Large Uveal melanoma: a comprehensive approach to maintain eye and vision
- 16:25 **Andrea Scupola** - Endoresection: surgical technique, tips and tricks
- 16:32 **Edoardo Midena** - Radiation retinopathy: treatment options
- 16:39 **David Sarraf** - Advanced OCT Analysis of Biopsy Proven Vitreoretinal Lymphoma
- 16:46 **Chiara Eandi** - OCT/OCTA biomarkers for anti-VEGF treatment in radiation maculopathy
- 16:53 **Cinzia Mazzini** - Liquid biopsy in uveal melanoma
- 17:00 **Maria Grazia Sammarco** - Ultra-wide-field imaging in uveal melanoma
- 17:07 **Marco Pellegrini** - OCT-A in ocular oncology
- 17:14 Discussion

**MICHELANGELO ROOM**

**8.15-10.05 INHERITED RETINAL DISEASES - FREE PAPERS**  
*Chairs: SUBER HUANG, ALEXANDRA MIERE, BART LEROY*

- 8:15 **Mayank Bansal** - Retinal dystrophies: landscape of genetic mutations in the indian subcontinent
- 8:19 Discussion
- 8:21 **Leonardo Bottazzi** - Understanding the propensity to undergo genetic testing in patients affected by inherited retinal diseases: a twelve-item questionnaire
- 8:25 Discussion
- 8:27 **Kwame Baffour-Awuah** - Loss of nasal retinal sensitivity may negatively impact ability to read across the etdrs letter chart
- 8:31 Discussion
- 8:33 **Giovanni Romualdi** - Multimodal ultra wide field and retro mode imaging in a benign concentric annular macular dystrophy
- 8:37 Discussion
- 8:39 **Roberta Rissotto** - Spectral-domain optical coherence tomography analysis in syndromic and nonsyndromic forms of retinitis pigmentosa due to ush2a genetic variants
- 8:43 Discussion
- 8:45 **Clemente Marialodice** - Longitudinal study of disease course in patients with x-linked retinitis pigmentosa due to rpgr gene mutations
- 8:49 Discussion
- 8:51 **Francesca Lamanna** - Multimodal imaging characterization of different phenotypes of abca4-related retinopathy
- 8:55 Discussion
- 8:57 **Lorenzo Bianco** - Müller cells in choroideremia: an oct-based quantitative study
- 9:01 Discussion
- 9:03 **Marco Nassisi** - Early ocular phenotype and progression of cobalamin c deficiency: experience of an italian centre.
- 9:07 Discussion
- 9:09 **Alessandro Arrigo** - Characterizing macular edema in retinitis pigmentosa towards quantitative multimodal imaging.
- 9:13 Discussion
- 9:15 **Catherine Favard** - Interest of oct-a analysis for the diagnosis of best disease choroidal new-vessels.
- 9:19 Discussion
- 9:21 **Luca Mautone** - Diurnal changes of macular anatomy and sensitivity in x-linked juvenile retinoschisis
- 9:25 Discussion



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**MICHELANGELO ROOM**

- 9:27 **Alessandro Berni** - Macular inner neurodegeneration may predict the response to idebenone in patients with Leber's hereditary optic neuropathy
- 9:31 Discussion
- 9:33 **Borna Šaric** - Subretinal gene therapy: surgical pearls
- 9:37 Discussion
- 9:39 **Francesco Farinaro** - Retinal changes after voretigene neparvovec treatment in children with rpe65-related inherited retinal dystrophy
- 9:43 Discussion
- 9:45 **Rita Ehrlich** - Long-term clinical evaluation of retinitis pigmentosa (rp) patients implanted with a novel epiretinal prosthetic device – interim results
- 9:49 Discussion
- 9:51 **Imran Yusuf** - Gene therapy rescues photoreceptor function, morphology and survival in a pre-clinical model of cdhr1-associated retinal degeneration
- 9:55 Discussion
- 9:57 Panel Discussion

**10.05-10.30 ARTIFICIAL INTELLIGENCE - FREE PAPERS**  
*Chairs: GIANNI VIRGILI, URSULA SCHMIDT-ERFURTH*

- 10:05 **Cem Kesim** - Henle's fiber layer segmentation with deep learning algorithms
- 10:09 Discussion
- 10:11 **Gustavo Melo** - Real-time diagnosis of diabetic retinopathy by a handheld retinal camera, artificial intelligence and simultaneous specialist confirmation: closing the gap
- 10:15 Discussion
- 10:17 **Matteo Airdi** - Deep-learning prediction of geographic atrophy progression: a model-free, transformer-based approach to fundus autofluorescence imaging
- 10:21 Discussion
- 10:23 **Emanuele Crincoli** - New artificial intelligence analysis for prediction of long-term visual improvement after epiretinal membrane surgery
- 10:27 Discussion
- 10:29 Panel Discussion

**11.15-13.00 VASCULAR RETINAL DISEASES + INFLAMMATORY AND INFECTIOUS DISEASES - FREE PAPERS**  
*Chairs: BARUCH KUPPERMANN, QUAN DONG NGUYEN, EMANUELA INTERLANDI, LUCA CIMINO*

- 11:15 **Federico Giannuzzi** - Structural and functional ophthalmological follow-up of a preterm population: report at six years of age
- 11:19 Discussion
- 11:21 **Krivovic Valerie** - Anomalies of the retinal capillary plexuses in adult Coats disease on oct angiography
- 11:25 Discussion
- 11:27 **Pasquale Loiudice** - Choroidal vascularity index in central and branch retinal vein occlusion
- 11:31 Discussion
- 11:33 **Claudio Furino** - Auriga 24-month, real-world results from treatment-naïve patients with macular edema secondary to rvo treated with intravitreal aflibercept in italy
- 11:37 Discussion
- 11:39 **Marco Pellegrini** - Risk of retinal vein occlusion following covid-19 vaccination: a self-controlled case series
- 11:43 Discussion
- 11:45 **Mahmood Mekkawy** - Bilateral macular retinitis
- 11:49 Discussion
- 11:51 **Emanuela Interlandi** - Intraocular tuberculosis: a challenging case mimicking wet age-related macular degeneration
- 11:55 Discussion



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**MICHELANGELO ROOM**

- 11:57 **Maamouri Rym** - Swept source oct and swept source oct angiography findings in a case of cytomegalovirus retinitis
- 12:01 Discussion
- 12:03 **Muhammad Hassan** - Utilization of automated deep learning approach towards detection of ocular toxoplasmosis using fundus photographs
- 12:07 Discussion
- 12:09 **Shaikha Aljneibi** - Automated quantification of uveitis keratic precipitates by use of sd-oct
- 12:13 Discussion
- 12:15 **Maria Paola Dolci** - Adaptive optics imaging characteristics of varicella zoster virus nodular periarteritis
- 12:19 Discussion
- 12:21 **Vivian Paraskevi Douglas** - The epidemiology and risk factors for the progression of sympathetic ophthalmia in the united states: an IRIS® registry analysis
- 12:25 Discussion
- 12:27 **Maria Vittoria Cicinelli** - Punctate inner choroidopathy/idiopathic multifocal choroiditis-like lesions in unrelated retinal diseases
- 12:31 Discussion
- 12:33 **Chiara Mapelli** - Optical coherence tomography angiography microvascular alterations in patients with juvenile systemic lupus erythematosus
- 12:37 Discussion
- 12:39 **Roberta Rissotto** - Sarcoid uveitis: an intriguing challenger
- 12:43 Discussion
- 12:45 **Isabel Sendino Tenorio** - Of intravenous methylprednisolone in refractory and severe pediatric uveitis
- 12:49 Discussion
- 12:51 Panel discussion

**14.15-16.21 MACULAR SURGERY - FREE PAPERS**  
**Chairs: TOM WILLIAMSON, ENRICO PEIRETTI, MATTEO CEREDA**

- 14:15 **Ioannis Theocharis** - The moving eye. A review of the unifying biomechanical hypothesis on the pathogenesis of macula disorders
- 14:19 Discussion
- 14:21 **Tom H Williamson** - Digital image warping to measure and correct metamorphopsia in vitreoretinal disorders.
- 14:25 Discussion
- 14:27 **Roberta Rissotto** - Vitreous composition modification after transpalpebral electrical stimulation of the eye: biochemical analysis
- 14:31 Discussion
- 14:33 **Elena Grossini** - Membrane blue dual protects retinal pigment epithelium cells and ganglion cells cultured in both physiologic conditions and in the presence of uvb through the modulation of the mitochondrial function and of the redox balance
- 14:37 Discussion
- 14:39 **Miroslav Stamenkovic** - Foveal avascular zone area changes and oct angiography after 27 g pars plana vitrectomy for idiopathic epiretinal membrane
- 14:43 Discussion
- 14:45 **Stefano Mercuri** - Analysis of supra-rpe granular deposits in full thickness macular holes using adaptive optics imaging
- 14:49 Discussion
- 14:51 **Lorenzo Motta** - Autologous anterior lens capsule flap and serum transplant in managing idiopathic and refractory full thickness macular holes
- 14:55 Discussion
- 14:57 **Marco Anastasi** - Efficacy of autologous pure plasma rich in platelet (p-prp) for the treatment of large full-thickness macular holes



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**MICHELANGELO ROOM**

- 15:01 Discussion
- 15:03 **Lorenzo Iuliano** - Inverted internal limiting membrane flap for small-sized (<250 micron) full thickness macular hole: anatomical and functional outcome
- 15:07 Discussion
- 15:09 **Ihab Abdelaziz** - Perfluorocarbon liquid-assisted vitreo-dissection in eyes with firmly adherent posterior hyaloid
- 15:13 Discussion
- 15:15 **Matteo Mario Carlà** - Treatment of recurrent high myopic macular hole and associated retinal detachment with human amniotic membrane
- 15:19 Discussion
- 15:21 **Federica Fossataro** - Spontaneous closure of full-thickness macular hole after vitrectomy for retinal detachment: evidence of ellipsoid zone restoration
- 15:25 Discussion
- 15:27 **Heloise Torres-Villaros** - Postoperative outcomes of idiopathic epiretinal membrane associated with intraretinal cystoid spaces with or without preoperative leakage on fa
- 15:31 Discussion
- 15:33 **Bianca Pacini** - Surgical management of epiretinal membrane with wide retinal fibrosis secondary to ocular toxoplasmosis: a case report
- 15:37 Discussion
- 15:39 **Clara Rizzo** - A case of cilioretinal artery occlusion: diagnostic procedures
- 15:43 Discussion
- 15:45 **Raphael Kilian** - Refractive error after combined phaco-vitrectomy: a multicentric study
- 15:49 Discussion
- 15:51 **Silvia Ferrara** - Refractive outcome in combined phacovitrectomy: anterior segment oct assessment and corrective factor for iol power calculation improvement
- 15:55 Discussion
- 15:57 **Mahmut Dogramaci** - Comparative study of commonly used intraocular forceps
- 16:01 Discussion
- 16:03 **Mohamed El-Ashry** - Surgical management for optic disc pit maculopathy - a new approach
- 16:07 Discussion
- 16:09 **Alessandra Scampoli** - Treatment of maculopathy associated with optic disk pit by human amniotic membrane patch: a one-year results
- 16:13 Discussion
- 16:15 **Luca Landini** - Management of recurrent optic disc pit-associated maculopathy with human amniotic membrane graft
- 16:19 Discussion

**17.15-17.50 SURGICAL TECHNIQUES AND INNOVATIONS - FREE PAPERS**  
*Chairs: ASMINA CEHAJIC-KAPETANOVIC, FRANCESCO BARCA, ANDREA GOVETTO*

- 17:15 **Ashish Markan** - Does the timing of the vitreoretinal surgery impact your surgical performance? - A simulator-based study
- 17:19 Discussion
- 17:21 **Gustavo Huning** - Custom 3d digital filters
- 17:25 Discussion
- 17:27 **Jasmina Cehajic-Kapetanovic** - Robot-assisted subretinal drug delivery: first-in-human study
- 17:31 Discussion
- 17:33 **Paola Sasso** - Imt-samsara implant: from screening to rehabilitation our preliminary experience
- 17:37 Discussion
- 17:39 **Francesco Barca** - Safety outcomes of 25 and 27-gauge 20000 cuts-per-minute pars plana vitrectomy
- 17:43 Discussion



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**FRIDAY DECEMBER 9**

**MICHELANGELO ROOM**

17:45 **Matteo Ripa** - Comparison of pain experience in patients undergoing sub-tenon's anaesthesia versus peribulbar anaesthesia during elective vitreoretinal surgery  
17:49 Discussion

**17.50-18.15 INTRAOCULAR LENSES - FREE PAPERS**  
*Chairs: GIANLUCA BESOZZI, GUSTAVO HUNING, ANDREA SCUPOLA*

17:50 **Nina Lutsenko** - Assessment the morphological state of the posterior capsule in posterior subcapsular cataract using anterior oct  
17:54 Discussion  
17:56 **Valentina Folegani** - Iol implantation in patients without capsular support: a comparison between yamane's technique and carlevale sutureless scleral fixation iol  
18:00 Discussion  
18:02 **Carla Danese** - Case series of carlevale iol implantation with modified technique and associated procedures  
18:06 Discussion  
18:08 **Gianluca Besozzi** - Outcomes of four-points goretex scleral fixation in patients with luxated 1-piece-4-holes iol and low endothelial cell count  
18:12 Discussion

**BERNINI ROOM**

**10.30-13.10 ORTHOPTIST DRY LAB**  
**Practical Section: Advanced Practical Course of Imaging for Orthoptists (AMD, RP, vitreoretinal interface, diabetic retinopathy and glaucoma)**



**RAFFAELLO ROOM**

**10.30-13.10 ORTHOPTIST DRY LAB**  
**Practical Section: Advanced Practical Course of Imaging for Orthoptists (AMD, RP, vitreoretinal interface, diabetic retinopathy and glaucoma)**



**14.00-18.00 IMAGING LAB**  
*Organizer: EDOARDO MIDENA*  
*Coordinator: ELISABETTA PILOTTO*  
*Instructors: LUISA FRIZZIERO, GIULIA MIDENA, TOMMASO TORRESIN*



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**FRIDAY DECEMBER 9**

**LEONARDO ROOM**

**09.00-18.15 3D SURGERY WET LAB**



9.00-11.00 GROUP A  
*Teachers: ANDREA GOVETTO, MATTEO CEREDA*

11.15-13.15 GROUP B  
*Teachers: MARCO COASSIN, RODOLFO MASTROPASQUA*

14.00-16.00 GROUP C  
*Teachers: UMBERTO LORENZI, MATTEO FORLINI*

16.15-18.15 GROUP D  
*Teachers: LUCA VENTRE, VINCENZO FERRARA*



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# SATURDAY DECEMBER 10

## CAVALIERI 2 ROOM

### 08.30-09.30 **WET AMD: IMAGING** Chairs: *K. BAILEY FREUND, PHILIP J. ROSENFELD, SOBHA SIVAPRASAD*

- 8:30 *Enrico Borrelli* - Deep learning to quantify clinical features in patients with age-related macular degeneration
- 8:35 *Maria Cristina Savastano* - Enface advanced imaging in exudative AMD
- 8:40 *Rosa Dolz-Marco* - High dynamic range of optical coherence tomography applied to AMD
- 8:45 Discussion
- 8:50 *Anat Loewenstein* - Potential of Home OCT guided treatment of nAMD
- 8:55 *Sandrine Zweifel* - Macular neovascularization lesion type and vision outcomes in nv AMD
- 9:00 Discussion
- 9:05 *K. Bailey Freund* - Clinicopathologic Correlations of Type 3 MNV
- 9:10 *Chiara Eandi* - Early OCTA changes of Type3 macular neovascularization following brolucizumab intravitreal injections
- 9:15 *Sobha Sivaprasad* - Quantitative autofluorescence in AMD
- 9:20 Discussion

### 09.30-10.30 **WET AMD: PATHOGENETIC INSIGHTS** Chairs: *LAWRENCE YANNUZZI, SRINIVAS SADDA, CHRISTINE A. CURCIO*

- 9:30 *Baruch Kuppermann* - The Role of Mitochondrial Genetics in Age Related Macular Degeneration
- 9:35 *Richard Spaide* - Inflammatory Cell Activity in Neovascular Age-Related Macular Degeneration
- 9:40 Discussion
- 9:45 *Rufino Silva* - Rare variants in CFH and phenotypic implications in Age-related Macular Degeneration in the Coimbra Eye Study
- 9:50 *Daniel Pauleikhoff* - Is MNV in nAMD a positive biological response? Analysis of long-term anti-VEGF-therapy
- 9:55 *Quan Dong Nguyen* - Inflammation in Retinal Vascular Diseases: The Role of IL-6 in Neovascular AMD
- 10:00 Discussion
- 10:05 *Amani Fawzi* - 3D imaging of neovascular lesions in AMD: 3D lesion complexity on OCTA and its implications
- 10:10 *Srinivas Sadda* - OCT risk factors for progression to neovascular AMD
- 10:15 *Sobha Sivaprasad* - Dark adaptation in AMD
- 10:20 Discussion

### 10.30-11.15 **BREAKFAST SYMPOSIUM: Aflibercept: a game changer in the past, present and future of retinal diseases** Moderators: *ROSANGELA LATTANZIO, EDOARDO MIDENA*

- 10:30 Moderators - Opening remarks
- 10:32 *Enrico Borrelli* - How aflibercept changed our clinical practice
- 10:42 Discussion
- 10:46 *Edoardo Midena* - Retinal diseases revisited after 10 years
- 10:56 Discussion





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**CAVALIERI 2 ROOM**

11:00 **Monica Zurria** - Bayer in Ophthalmology: A vision for the future  
11:10 Discussion and Conclusions

**11.15-12.15 WET AMD: TREATMENT**

**Chairs: FRANCESCO BANDELLO, JEAN-FRANCOIS KOROBELNIK, DANIEL PAULEIKHOFF, FEDERICO RICCI**

11:15 **Daniel Pauleikhoff** - Remodelling and growth of MNV under long-term anti-VEGF-therapy - a repair mechanism?  
11:20 **Francesco Boscia** - Observe and plan regimen of anti-vegf injections for wet AMD  
11:25 **Francesco Viola** - Two years real-life treatment outcomes of Polypoidal Choroidal Vasculopathy versus Type 1 Macular Neovascularization in Caucasians. Fight Retinal Blindness! Italian registry  
11:30 Discussion  
11:35 **Usha Chakravarthy** - Incidence of Fibrosis and Atrophy on SD OCT in treated neovascular AMD and associations with visual acuity: 7 year findings from the IVAN trial  
11:40 **Alessandro Invernizzi** - Brolucizumab real world data: FRB! Register  
11:45 **Alfredo Pece** - Retina Group Project: personal experience on a large cohort of patients treated with Brolucizumab  
11:50 Discussion  
11:55 **Angelo Minnella** - Update on future treatments: Aflibercept 8 mg  
12:00 **Jean-Francois Korobelnik** - Biosimilars in wet AMD: why to use or not use them?  
12:05 **Sebastian Wolf** - My experience after 15 years of anti-VEGF use  
12:10 Discussion

**12.15-13.30 WET AMD: NEW HORIZONS Under the Patronage of ASRS**

**Chairs: CARL AWH, PHILIP FERRONE, CARL D. REGILLO**



12:15 **Carl Awh** - Overview of Emerging Treatments for Neovascular AMD  
12:24 **Aleksandra Rachitskaya** - Update on Port Delivery System  
12:33 **Philip Ferrone** - 2 Year Results of Faricimab in Neovascular AMD from the Tenaya/Lucerne Studies  
12:42 **Susan Bressler** - Anti-VEGF Biosimilars and Biologics: Similarities and Differences  
12:51 **TBD** - Gene therapy for wet AMD, presenting the interim results of RegenxBio trials  
13:00 **Carl D. Regillo** - EYP-1901 DAVIO Phase 1: 12 month study results for nAMD  
13:09 **Caroline Baumal** - New approach in wet-AMD treatment: Efficacy and safety of dual inhibition of VEGF-C/-D and VEGF-A with OPT-302 combination therapy  
13:18 Discussion

**13.30-14.15 LUNCH SYMPOSIUM**

**Moderators: STANISLAO RIZZO, FRANCESCA SIMONELLI**



13:30 **Massimo Nicoló** - The importance of keeping the retina dry  
**Brolucizumab's two years clinical experience**  
13:35 **Francesco Boscia** - Gemelli Polyclinic of Rome and Bari Polyclinic - pooled analysis  
13:40 **Michele Reibaldi** - Le Molinette Clinic in Turin  
**Patient stories from clinic to surgery**  
13:45 **Leonardo Colombo** - Experience of the San Paolo Hospital team, Milan  
13:50 **Vittoria Murro** - Experience of the AOU Careggi team, Florence



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**CAVALIERI 2 ROOM**

**Gene therapy with Voretigene Neparvovec: long-term results**

- 13:55 **Francesco Testa** - Perspective of the clinician
- 14:00 **Michele Della Corte** - Perspective of the vitreoretinal surgeon
- 14:05 Discussion

**14.15-15.15 SPONSORED SESSION - VISIONS OF FUTURE BY INDUSTRY SENIOR EXECUTIVES**

- 14:15 **Roger Lopez** - Visions of Future - Alcon
- 14:22 **Lorenzo Santini** - The Making of a Visionary Industry Leader - Bausch&Lomb
- 14:29 **Christopher Mody** - Uncovering more insights with richer image detail and improved clinical workflow - Heidelberg
- 14:36 **Adel Bencheikh** - Canon Medical Beyond Ophthalmology - Canon
- 14:43 **Robert Gibson** - Driving Discovery: Research and Innovation in retinal imaging - ZEISS
- 14:50 **Bruno Lumbroso, Emanuele Lanterna** - TOWARD PI TECHNOLOGY
- 14:57 **Arkadiusz Chalecki** - Upcoming OCT standards - Optopol
- 15:04 **Dhaval Desai** - IVERICBIO

**15.15-16.30 DRY AMD 1: IMAGING**  
**Chairs: FRANK HOLZ, GIUSEPPE QUERQUES**

- 15:15 **Philip J. Rosenfeld** - Predicting low luminance visual acuity deficits based on central foveal SS-OCTA imaging in nonexudative AMD
- 15:21 **Eric Moult** - Image-Driven Modeling for Understanding Geographic Atrophy Growth
- 15:27 **Giuseppe Querques** - Sub-retinal pigment epithelium tubules in non-neovascular age-related macular degeneration
- 15:33 Discussion
- 15:38 **Christine A. Curcio** - Neuroanatomy links rod-mediated dark adaptation and drusen biology in AMD
- 15:44 **Riccardo Sacconi** - Choroidal changes in non-exudative age-related macular degeneration
- 15:50 **Frank Holz** - Photoreceptor degeneration as OCT-imaging biomarker in dry AMD: an AI-based analysis
- 15:56 Discussion
- 16:01 **Daniele Veritti** - Incident Geographic Atrophy in Wet Age-related Macular Degeneration
- 16:07 **Philip J. Rosenfeld** - The onset and progression of persistent choroidal hypertransmission defects: A novel clinical trial endpoint for studying intermediate AMD
- 16:13 **André Romano** - Virtual Reality Microperimetry - New Era of Functional Retinal Assessment
- 16:19 **Ursula Schmidt-Erfurth** - Conversion from intermediate to advanced AMD: First events in the PINNACLE study
- 16:25 Discussion

**16.30-17.15 AFTERNOON SYMPOSIUM**  
**GEOGRAPHIC ATROPHY: ARE WE ENTERING A NEW ERA?**

- 16:30 **Stela Vujosevic** - Welcome and introduction
- 16:40 **Caroline Baumal** - Recent Phase 3 clinical trial results: Where do we stand today?
- 16:55 **Usha Chakravarthy** - Morphology and function: Convergence and divergence in Geographic Atrophy
- 17:05 **All** - Panel discussion
- 17:15 **Stela Vujosevic** - Close

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**CAVALIERI 2 ROOM**

**17.15-18.30 DRY AMD 2: TREATMENT**  
*Chairs: LYNDON DA CRUZ, AMIR H. KASHANI, STEVEN D. SCHWARTZ*

- 17:15 **Frank Holz** - Emerging treatments for geographic atrophy due to age-related macular degeneration
- 17:22 **Jean-Francois Korobelnik** - Potential challenges with the treatment of geographic atrophy
- 17:29 **Ursula Schmidt-Erfurth** - Effects of complement – inhibition on geographic atrophy:  
OCT-analysis of phase III pegcetacoplan trials
- 17:36 **Carl D. Regillo** - Gather2 avacincaptad 12 month study results
- 17:43 Discussion
- 17:52 **Steven D. Schwartz** - Submacular surgery for gene and cell therapy
- 17:59 **Steve Charles** - Cell based therapy for geographic atrophy
- 18:06 **Lyndon Da Cruz** - Cellular therapy - treating the untreatable in retina.
- 18:13 **Amir H. Kashani** - Induced Pluripotent Stem Cell-Derived RPE for Treatment of Advanced Dry Age  
Related Macular Degeneration: Early Pilot Studies
- 18:20 Discussion

**CAVALIERI 1 ROOM**

**08.00-12.45 LIVE SURGERY**  
*Moderators from operatory theatre: STEVE CHARLES, DONALD J. D'AMICO, CLAUS ECKARDT, GAURAV K. SHAH*  
*Moderators from Auditorium: CLAUDIO AZZOLINI, FRANCESCO BARCA, FABIO FIORMONTE, TAMER MAHMOUD, CARL D. REGILLO, TOM WILLIAMSON, LEJLA VAJZOVIC, STEFANO DE CILLÀ*

**SURGEONS**

**Rome:** MATTEO CEREDA, JOSÉ GARCÍA-ARUMÍ, CESARE MARIOTTI, LUIGI CARETTI, CARL CLAES, RODOLFO MASTROPASQUA, MARCO PILERI, TOMMASO ROSSI, MARIO ROMANO, ERNESTO BALI, ALFONSO SAVASTANO, KHALID AL-SABTI, EHAB EL RAYES, TOMASO CAPOROSSI  
**Paris:** GEORGES CAPUTO  
**Tel Aviv:** ADIEL BARAK

**12.45-13.30 RETINAWs**  
*President: KOUROUS A. REZAEI*  
*Chairs: J. FERNANDO AREVALO, DANIELE TOGNETTO, ALEKSANDRA RACHITSKAYA, ERNESTO BALI, ANAT LOEWENSTEIN, EHAB EL RAYES, VINCENZO FERRARA, FABIO PATELLI, PAULO STANGA, PETER SZURMAN*

**13.30-14.15 LUNCH SYMPOSIUM: SUPRACHOROIDAL DELIVERY FOR OCULAR THERAPEUTICS: CORTICOSTEROID AND BEYOND**  
*Course Director: QUAN DONG NGUYEN*

**BAUSCH + LOMB**

- 13:30 **Quan Dong Nguyen** - Introduction to the Course: Goals and Objectives
- 13:33 **Marc De Smet** - Suprachoroidal Delivery: A New Approach for Ocular Therapeutics
- 13:39 **Christopher Or** - Suprachoroidal Triamcinolone Acetonide for Non-infectious -Associated Macular Edema
- 13:45 **Aniruddha Agarwal** - Treatment of Macular Edema Due to Noninfectious Uveitis: Beyond Corticosteroids
- 13:50 **Diana V. Do** - Suprachoroidal Triamcinolone in Noninfectious Uveitis: Case Presentations and Discussion
- 14:00 **Quan Dong Nguyen** - Practical Experience: Introduction



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**CAVALIERI 1 ROOM**

**14.15-15.15 SURGICAL INNOVATIONS - Under the Patronage of RWC**  
Chairs: TAREK HASSAN, KOUROUS A. REZAEI, STANISLAO RIZZO



RETINA WORLD CONGRESS

- 14:15 **Lyndon Da Cruz** - Robotics in retinal surgery: New innovations and potential
- 14:21 **Virgilio Morales Cantòn** - New instrumentation in diabetic vitrectomies
- 14:27 **Tarek Hassan** - A New Frontier for Safe Surgical Instrumentation: Non-sticky Intraocular Instruments
- 14:33 Discussion
- 14:39 **Albert Augustin** - Vitrectomy following implantation the Samsara Telescope
- 14:45 **Robert Maclaren** - Surgical pearls for the administration of Voretigene Neparvovec and other gene therapies for retinal disease
- 14:51 **Ehab El Rayes** - A novel delivery system for Drug, Gene and stem cell therapy via suprachoroidal approach
- 14:57 **Marc De Smet** - Visualization and monitoring of drug deposits after suprachoroidal cannulation
- 15:03 **Paulo Stanga** - Limited Vitrectomy for Vitreous Opacities and Vision Degrading Myodesopsia: New Imaging and Functional Testing with Surgical Results
- 15:09 Discussion

**15.15-16.30 ERM-LMH - Under the Patronage of GIVRE**  
Chairs: CESARE MARIOTTI, MARCO ANDREA PILERI



Gruppo Italiano di Chirurgia Vitreoretinica

- 15:15 **Rodolfo Mastropasqua** - Choroidal vascularity index changes in vitreomacular surgery: comparison between idiopathic and diabetic epiretinal membrane
- 15:20 **Mario Romano** - Intraretinal changes and displacement: biomarker in macular tractional disease
- 15:25 **Francesco Faraldi** - Swept-source OCT reduces the risk of axial length measurement errors in eyes with cataract and epiretinal membranes
- 15:30 Discussion
- 15:35 **Tom Williamson** - Measurement of metamorphopsia with image warping allows correction of digital sight in surgical retinal disease
- 15:40 **Marta Figueroa** - New international classifications of lamellar macular holes and surgical outcomes
- 15:45 **Ricarda G. Schumann** - New Insights From Lamellar Macular Holes With Epiretinal Proliferation
- 15:50 **Ferdinando Bottoni** - Lamellar macular hole: are there new possibilities to detect the loss of foveal tissue?
- 15:55 Discussion
- 16:00 **Michele Reibaldi** - Vitrectomy with highly concentrated autologous platelet-rich plasma in degenerative lamellar macular hole: a prospective trial
- 16:05 **Marco Coassin** - Surgical outcomes of tractional vs degenerative lamellar macular holes
- 16:10 **Andrea Govetto** - Centripetal versus conventional peeling in epiretinal membranes: early postoperative OCT signs of foveal mechanical stress
- 16:15 **Tamer Mahmoud** - Membrane peel and release in macular holes and epiretinal membranes
- 16:20 **Cesare Mariotti** - Transconjunctival nonvitrectomizing macular surgery in patients with epiretinal membrane: Ten years follow up a Prospective Randomized Study
- 16:25 Discussion

**16.30-17.20 3D SESSION**  
Chairs: VIRGILIO MORALES CANTON, STEVE CHARLES, DAVID CHOW, CARL CLAES, CLAU ECKARDT, ANAT LOEWENSTEIN, ROGER LOPEZ

- 16:30 **Adria Valls** - Alcon Ngenuity 3D system
- 16:35 **David Chow** - Maximizing Performance of 3D surgery systems
- 16:40 **Benedikt Wurm** - Bausch+Lomb & Heidelberg Engineering: Fully-digital Surgical Visualization Platform
- 16:45 **Segev Eran** - Beyeonics' 3D system
- 16:50 **Anat Loewenstein** - Innovative Beyeonics' helmet system, based on pilot head mount display PPV ERM peeling surgeries results



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**CAVALIERI 1 ROOM**

- 16:55 **Frank Deubel** - Zeiss Artevo 3D system
- 17:00 **Marco Mura** - My experience with 3D visualization: advantages and disadvantages
- 17:05 **Lejla Vajzovic** - Update on 3D surgical visualization systems and Intraoperative OCT
- 17:10 **Carlo La Spina, Claudio Panico** - Heads up 3D surgery. Safety outcomes and technological review after 2 years of day-to-day use
- 17:15 Discussion

**17.20-18.35 SURGERY: FIX THAT RETINA**  
*Chairs: DAVID CHOW, KOUROUS A. REZAEI*  
**Team Gladiators:**  
*LEJLA VAJZOVIC, LUIGI CARETTI, KAZUAKI KADONOSONO*  
**Team Spartans:**  
*CARL CLAES, STRATOS GOTZARIDIS, VIRGILIO MORALES CANTON*  
**Team Immortals:**  
*GRAZIA PERTILE, YUSUKE OSHIMA, JAY CHHABLANI*

**BELLE ARTI ROOM**

**08.30-09.15 SYSTEMATIC INTERPRETATION OF OCT**  
*Chair: SRINIVAS SADDA*

- 8:30 **Srinivas Sadda** - Strategies for acquiring and viewing OCT images
- 8:45 **Enrico Borrelli** - My approach to the basic interpretation of OCT
- 9:00 **David Sarraf** - New signs on OCT images that you should not miss

**09.15-10.30 IMAGING: EVOLVING TECHNIQUES**  
*Chairs: JOSEPH CARROLL, USHA CHAKRAVARTHY*

- 9:15 **Mario Romano** - Advanced data integration and analyses: clinical applications
- 9:21 **Richard Rosen** - Stalking the Wild Hyalocyte: EnFace OCT and Adaptive Optics Insights into the Cellular Dynamics and Morphology in Vitreous Cortex Macrophages in the Living Eye
- 9:31 **Marco Lupidi** - Microstructural assessment of retinal structure and perfusion with variable A-scan rate Spectralis OCT
- 9:37 **Usha Chakravarthy** - Agreement between the double layer sign on SD OCT and detection of vascular complexes on OCTA
- 9:43 **Joseph Carroll** - Structure-function correlations using AOSLO techniques
- 9:49 Discussion
- 10:00 **Michael Pircher** - Polarization sensitive optical coherence tomography and its clinical applications
- 10:06 **Richard Spaide** - Improved Imaging the Vitreous with Boosted Optical Coherence Tomography
- 10:12 **Daniela Bacherini** - Peripheral ultra-widefield OCT in peripheral retinal degenerations
- 10:18 Discussion

**10.30-11.15 BREAKFAST SYMPOSIUM: CHANGING PATIENT MANAGEMENT USING WIDE FIELD OCT: CASE STUDIES**



- 10:30 **Ali Erginay** - Retina as seen by Xephilio
- 10:40 **Prithvi Ramtohal** - En face Ultrawidefield OCT of the vortex vein system in central serous chorioretinopathy
- 10:50 **Andrea Govetto** - Morphological analysis of rhegmatogenous retinal pathology and peripheral vitreoretinal interface abnormalities by means of wide-field OCT: insight on pathophysiology and clinical relevance
- 11:00 **Barbara Parolini** - Advantages of widefield imaging in the follow-up of difficult surgical cases



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**BELLE ARTI ROOM**

**11.15-12.15 PEDIATRIC RETINA**

*Chairs: MARY ELIZABETH HARTNETT, DOMENICO LEPORE, DARIUS M. MOSHFEGHI*

- 11:15 *Mary Elizabeth Hartnett* - Molecular basis of to restore normal vascular development
- 11:21 Discussion
- 11:24 *Domenico Lepore* - Beyond the future The new ICROP
- 11:30 Discussion
- 11:33 *Giulia Amorelli* - New imaging technique in pediatric ophthalmology
- 11:39 Discussion
- 11:42 *Darius M. Moshfeghi* - Optimization of ROP treatment technique
- 11:48 Discussion
- 11:51 *Peter Campbell* - AI in pediatric retina
- 11:57 Discussion
- 12:00 *Carl Claes* - Neonatal vitreoretinal interface
- 12:06 Discussion
- 12:09 Closing remarks

**12.15-13.30 ARTIFICIAL INTELLIGENCE**

*Chairs: DARIUS M. MOSHFEGHI, MARION MUNK, RAMIN TADAYONI, SEBASTIAN WOLF*

- 12:15 *Suber Huang* - Beyond AI - Human-Centered Computing in Ophthalmology
- 12:21 *Carol Cheung* - Deep Learning for Diabetic Retinal Disease: What is new?
- 12:27 *Sebastian Wolf* - Prediction of anti-VEGF treatment demand using machine learning and AI
- 12:33 *Marion Munk* - Machine learning to predict development of macular atrophy in patients with nAMD
- 12:39 Discussion
- 12:49 *Roy Schwartz* - Insights on reticular pseudodrusen using AI
- 12:55 *Kazuaki Kadosono* - Surgical images enhanced with AI
- 13:01 *Maria Cristina Savastano, Emanuele Crincoli* - AI in vitreoretinal interface disorders
- 13:07 *Tom Williamson* - Artificial intelligence in the identification of risk factors for failed rhegmatogenous retinal detachment surgery
- 13:13 *Ramin Tadayoni* - A pragmatic assessment of uses and impacts of AI in our practice
- 13:19 Discussion

**13.30-14.15 LUNCH SYMPOSIUM:  
State of the Art Gene Therapy Symposium**  
*Chair: PETER KAISER*



- 13:30 *Bart Leroy* - Gene Therapy for Inherited Retinal Diseases (IRD)
- 13:36 *Robert Maclaren* - Surgical Considerations for Gene Therapy
- 13:42 *Nadia Waheed* - Gene Therapy for Atrophic AMD
- 13:48 Discussion
- 13:52 *Lejla Vajzovic* - Suprachoroidal and subretinal Gene Therapy Strategies for retinal vascular diseases
- 13:58 *Peter Kaiser* - Intravitreal Gene Therapy for retinal vascular diseases
- 14:04 *Francine Behar Cohen* - Non-viral gene therapy for the treatment of retinal diseases
- 14:10 Discussion

**14.15-15.15 VISION ACADEMY SYMPOSIUM: THINGS ABOUT ANTI-VEGF INJECTIONS THAT WE USUALLY DON'T TALK ABOUT**  
*Chairs: FRANCESCO BANDELLO, ANAT LOEWENSTEIN*



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**BELLE ARTI ROOM**

- 14:15 **Ian Pearce** - Introduction to the Vision Academy
- 14:20 **Francesco Bandello** - Impact of anti-VEGF on IOP and optic nerve
- 14:30 **Anat Loewenstein** - Non-adherence or non-persistence to intravitreal injection therapy for neovascular age-related macular degeneration
- 14:40 Q&A

**SUSPENDING TREATMENT PANEL DEBATE**

**Moderator: IAN PEARCE**

**Panel: FRANCESCO BANDELLO, ANAT LOEWENSTEIN, SEBASTIAN WOLF, DAVID WONG**

- 14:45 **David Wong** - Suspending anti-VEGF treatment in cases of futility
- 14:55 **Sebastian Wolf** - Suspending anti-VEGF treatment in case of success
- 15:05 **All** - Discussion and Q&A

**15.15-16.30 MYOPIA**

**Chairs: TERESIO AVITABILE, BARBARA PAROLINI, ADNAN TUFAIL**

- 15:15 **Adnan Tufail** - Myopia-associated CNV
- 15:21 **Tamer Mahmoud** - How to measure myopic macular holes? Inaccuracy and implications
- 15:27 **José Maria Ruiz Moreno** - Study of dilated choroidal veins and their influence in choroidal neovascularization in highly myopic eyes by OCTA.
- 15:33 Discussion
- 15:38 **Teresio Avitabile** - Morphological parameters of myopic choroidal neovascularization as predictive factors of anti-VEGF treatment response
- 15:44 **Darius M. Moshfeghi** - Myopia Spectrum Disorder and Variation of Findings Within Different Phenotypes
- 15:50 **Giacomo Panozzo** - Surgery for Myopic Traction Maculopathy: when and how.
- 15:56 Discussion
- 16:01 **Ugo Introini** - Anti-VEGF treatment of myopic macular neovascularization: long-term visual outcome and related risk factors
- 16:07 **Khalid Al Sabti** - How to Overcome Surgical Challenges in Myopic Macular Holes with Very Long Axial lengths
- 16:13 **Kazuaki Kadosono** - A new surgical technique for myopic traction maculopathy
- 16:19 **Barbara Parolini, Veronika Matello, Matteo Ripa, Lorenzo Motta, Rino Frisina** - Long term results of macular buckle for MTM stage 3a,b and Stage 4a,b
- 16:25 Discussion

**16.30-17.30 UVEITIS SYMPOSIUM: THE ARTS OF DIAGNOSING AND MANAGING POSTERIOR UVEITIS  
SESSION 1: POTPOURRI OF UVEITIC ENTITIES**

**Moderator: QUAN DONG NGUYEN**

**Panel: LUCA CIMINO, HASSAN AL-DIBHI, CHRISTOPHER OR**

- 16:30 **Antonio Ciardella** - Bilateral Acute Retinal Necrosis (BARN) during the Coronavirus Pandemic
- 16:37 **Wataru Matsumiya** - Many Faces of Uveitis in the Era of COVID and COVID Vaccination
- 16:44 **Hassan AlDibhi** - Diagnostic Pars Plana Vitrectomy in Uveitic Masquerading Syndromes
- 16:51 **Maria Vittoria Cicinelli** - Efficacy of 0.19 mg Fluocinolone Acetonide Implant in Non-infectious Posterior Uveitis
- 16:58 **Jeffrey L. Goldberg** - New Insights into Inflammatory Glaucoma
- 17:05 **Aniruddha Agarwal** - Managing Mycobacterium tuberculosis Chorioretinitis
- 17:12 Panel Discussion: Best Approaches in Managing Uveitic Macular Edema



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**BELLE ARTI ROOM**

**17.30-18.30 UVEITIS SYMPOSIUM: THE ARTS OF DIAGNOSING AND MANAGING POSTERIOR UVEITIS  
SESSION 2: CLINICAL PEARLS IN THE DIAGNOSIS OF UVEITIS**  
Moderator: **QUAN DONG NGUYEN**  
Panel: **ANIRUDDHA AGARWAL, ANTONIO CIARDELLA**

- 17:30 **Luca Cimino** - The Usefulness of Aqueous Humor Analysis in Uveitis
- 17:37 **Marion Munk** - Choriocapillaris and Choroidal Metrics in Posterior Uveitis
- 17:44 **Yasir J. Sepah** - Imaging Markers in Autoimmune Retinopathy
- 17:51 **Theodore Leng** - Machine Learning in Retina: A Case with Diabetic Retinopathy
- 17:58 **Murat Hasanreisoglu** - Machine Learning in Uveitis: A Case with Ocular Toxoplasmosis
- 18:05 **Christopher Or** - Applying Electroretinographic Evaluation in the Diagnosis and Management of Uveitis
- 18:12 Panel Discussion: Challenging Cases in Uveitis

**ELLISSE ROOM**

**08.30-09.30 INTRODUCTION AND PRACTICAL COURSE IN USING AN AUTOMATED AI-BASED FLUID  
MONITOR IN CLINICAL ROUTINE**  
Coordinator: **URSULA SCHMIDT-ERFURTH**  
Instructors: **PAOLO LANZETTA, DORUK OKCUOGLU, GREGOR REITER,  
AMIR SADHEGIPOUR, URSULA SCHMIDT-ERFURTH**

- 8:30 **Jennifer Arnold** - Fluid management in the FRB real world registry
- 8:40 **Daniel Barthelmes** - Fluid monitor in the FRB real world registry
- 8:50 **Paolo Lanzetta** - A hands-on lecture on automated fluid monitor
- 9:00 **Doruk Okcuoglu** - The technology behind the tool
- 9:10 **Gregor Reiter** - AI in prospective use
- 9:20 **Amir Sadeghipour** - What is coming next!

**09.30-10.30 THE HENLE FIBER LAYER AND ITS RELEVANCE TO IMAGING MACULAR DISEASE**  
Coordinator: **K. BAILEY FREUND**  
Chairs: **K. BAILEY FREUND, DAVID SARRAF**

- 9:30 **Christine A. Curcio** - Neuroanatomy of the Henle Fiber Layer (HFL)
- 9:40 **Prithvi Ramtohum** - The OCT Angular Sign of HFL Hyperreflectivity (ASHH)
- 9:50 **David Sarraf** - PAMM and AMN: Is the HFL The Missing Link?
- 10:00 **K. Bailey Freund** - HFL: New Findings from High-Resolution OCT
- 10:10 **Caroline Baumal** - HFL hemorrhage: clinical features and pathogenesis
- 10:20 Discussion

**10.30-11.15 BREAKFAST SYMPOSIUM: RECENT ADVANCES IN MULTIMODAL  
IMAGING AND ARTIFICIAL INTELLIGENCE IN OPHTHALMOLOGY**

- 10:30 **Srinivas Sadda** - Artificial Intelligence in Ophthalmology: Deep Learning Assessment of Ultra-Widefield Retinal Imaging
- 10:40 **Paulo Stanga** - Multi Wavelength Ultra Widefield Imaging with Integrated Navigated SS-OCT in the Retina Clinic: Real Life Benefits
- 10:50 **Giuseppe Querques** - Analysis of peripheral retina visualization, acquisition time, and image chromaticity on UWF





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**ELLISSE ROOM**

11:00 **Luca Cimino** - Ultra Widefield imaging in uveitis  
11:10 Discussion

**11.15-12.15 ACQUIRED VITELLIFORM LESIONS: ETIOLOGIES AND PATHWAYS**  
Coordinator: **DAVID SARRAF**

11:15 **David Sarraf** - Vitelliform Lesions: One Pathway Unifies Many Etiologies  
11:19 **Srinivas Sadda** - Vitelliform Lesions in AMD  
11:27 **Giuseppe Querques** - Vitelliform Lesions Associated with Leptochoroid and Pseudodrusen  
11:35 **David Sarraf** - Vitelliform Lesions Associated with Pachychoroid and Pachyvittelliform Maculopathy  
11:39 **Elodie Bousquet** - Vitelliform Lesions Caused by Traction Maculopathy  
11:47 **Claudio Iovino** - Vitelliform Lesions Caused by Toxic Medications  
11:55 **K. Bailey Freund** - Vitelliform Lesions: Findings from High-Resolution OCT  
12:03 **Christine A. Curcio** - Acquired vitelliform lesions: insights from new histopathology  
12:11 Discussion

**12.15-13.30 IS MNV IN nAMD A PHYSIOLOGICAL REPAIR MECHANISM WITH PATHOLOGICAL OUTCOME?**  
Coordinator: **DANIEL PAULEIKHOFF**  
Co-Chair: **RICHARD SPAIDE**

12:15 **Christine A. Curcio** - Nonexudative MNV supporting Outer Retina in Age-Related Macular Degeneration: A Clinicopathologic Correlation  
12:26 **Giuseppe Querques** - Quiescent MNV in nAMD  
12:37 Discussion  
12:47 **Srinivas Sadda** - OCTA characteristics of type 1 MNV in nAMD under anti-VEGF therapy - supporting aspects for the outer retina?  
12:58 **Daniel Pauleikhoff** - Continuous growth of MNV under longterm anti-VEGF therapy - characteristics and clinical implications  
13:09 **Richard Spaide** - New techniques and predictive aspects of inflammatory cell mapping in nAMD  
13:20 Discussion

**13.30-14.15 LUNCH SYMPOSIUM**



13:30 **Alessandro Invernizzi** - High-Res OCT imaging in Vascular Diseases  
13:45 **Srinivas Sadda** - High-Res OCT imaging of biomarkers of Dry AMD  
14:00 **K. Bailey Freund** - New Imaging Findings from High-Res OCT

**14.15-15.15 NEW INSIGHTS INTO AGE-RELATED CHORIO-RETINAL DEGENERATION**  
Chairs: **MARIACRISTINA PARRAVANO, GIUSEPPE QUERQUES, RICCARDO SACCONI**

14:15 **Riccardo Sacconi** - Treatment-naive quiescent vs non-exudative MNVs  
14:23 **David Sarraf** - Exudation Vs Transudation  
14:31 **Mariacristina Parravano** - Basal laminar deposits: a common finding in foveal-sparing reticular pseudodrusen  
14:39 **Srinivas Sadda** - The aging choroid  
14:47 **Giuseppe Querques** - Subclinical age-related angioid streaks with pseudodrusen  
14:55 **Serena Fragiotta** - Analysis of precursors for GA development and progression - a novel OCT based phenotype classification  
15:03 Discussion



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**ELLISSE ROOM**

**15.15-16.30 IVEG COURSE CONTROVERSIES ON INTRAVITREAL THERAPIES**  
*Chairs: BARUCH KUPPERMANN, PAOLO LANZETTA, ANAT LOEWENSTEIN*

- 15:15 **Paolo Lanzetta** - An introduction to the Intravitreal Expert Group – IVEG
- 15:20 **Anat Loewenstein** - The pros and cons of bilateral same-day treatment
- 15:28 Discussion
- 15:34 **Daniele Veritti** - The ideal setting: office, ambulatory surgery room or OR?
- 15:42 Discussion
- 15:48 **Sobha Sivaprasad** - Is it time to delegate certified nurses?
- 15:56 Discussion
- 16:02 **Baruch Kuppermann** - When OCT angiography shows non-exudative MNV and OCT does not reveal any fluid anti-VEGF treatment should be administered. Why yes, why not
- 16:10 Discussion
- 16:16 **Valentina Sarao** - Will intravitreal injections remain the gold standard?
- 16:24 Discussion

**16.30-17.15 CHOROID**  
*Chairs: ALAIN GAUDRIC, JOSÉ MARIA RUIZ MORENO, RICHARD SPAIDE*

- 16:30 **K. Bailey Freund** - Pachychoroid Disease: Patterns of Choroidal Venous Insufficiency Revealed with WF SS-OCT and UWF ICGA
- 16:35 **Alain Gaudric** - Choroidal veins topography on ultra wide field OCT/OCTA in healthy subjects
- 16:40 **José Maria Ruiz Moreno** - Choroidal vascularity index as biomarker vs. choroidal thickness in acute central serous chorioretinopathy
- 16:45 **Adnan Tufail** - Macular Curvature and Dome-Shaped Macular Configuration associations
- 16:50 **Francine Behar Cohen** - Corticoids and Central serous chorioretinopathy: a complex link
- 16:55 **Jay Chhablani** - Central Serous Chorioretinopathy - learning from recent imaging
- 17:00 **Giuseppe Querques** - No-Dose PDT for Central Serous Chorioretinopathy
- 17:05 Discussion

**17.15-18.15 AUTOFLUORESCENCE COURSE ("FLUORETINA")**  
*Chair: MARCO PELLEGRINI, ALESSANDRO INVERNIZZI*

- 17:15 **Alessandro Invernizzi** - What fluoresce in the fundus
- 17:23 **Elisabetta Pilotto** - Near infrared autofluorescence
- 17:31 **Mariano Cozzi** - Quantitative autofluorescence and Color autofluorescence
- 17:39 **Sandrine Zweifel** - The clinical use of autofluorescence 1
- 17:47 **Marco Pellegrini** - The clinical use of autofluorescence 2
- 17:55 **Alessandro Invernizzi** - The clinical use of autofluorescence 3
- 18:03 Discussion

**CARAVAGGIO ROOM**

**14.15-15.15 HAND-ON PRACTICE WITH SUPRACHOROIDAL MICROINJECTORS ON HUMAN-LIKE EYE MODELS**  
*Chair: QUAN DONG NGUYEN*



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**CARAVAGGIO ROOM**

**15.15-16.00 INSTRUCTIONAL COURSE: PROLIFERATIVE VITREORETINOPATHY, SURGICAL MANAGEMENT AND IMPROVED TECHNIQUES**  
*Chair: JOSÉ GARCÍA-ARUMÍ*

- 15:15 *José García-Arumí* - Introduction
- 15:18 *Ehab El Rayes* - Vitreomacular interface epiretinal membranes management
- 15:28 *Thomas Wolfensberger* - Retinotomy-Retinectomy in PVR. When and how?
- 15:38 *José García-Arumí* - Membrane peeling: staining and PFCL. Viscodissection in closed funnel
- 15:48 *Stanislao Rizzo* - Endotamponades in PVR
- 15:58 All - Discussion

**16.00-17.10 VIDEO SESSION – FREE PAPERS**  
*Chairs: FABIO PATELLI, MATTEO FORLINI*

- 16:00 *Alberto La Mantia* - Modified perfluorocarbon liquid/internal limiting membrane interface staining in myopic macular hole retinal detachment
- 16:03 Discussion
- 16:05 *Maurizio Postorino* - Innovative intrascleral fixation technique for iol dislocations in cv
- 16:08 Discussion
- 16:10 *Paolo Chelini* - Surgical treatment in globe ruptures
- 16:13 Discussion
- 16:15 *Malek Yassine* - Endoillumination assisted phacoaspiration with transcapsular iris shelf technique for extraction of an intra ocular foreign body
- 16:18 Discussion
- 16:20 *Kanmin Xue* - Treating postoperative hypotony by ciliary body membrane removal
- 16:23 Discussion
- 16:25 *Mayank Bansal* - Subretinal injections in challenging cases of subretinal hemorrhage
- 16:28 Discussion
- 16:30 *Mohammad Alhazzazi* - PPV for dropped capsular tension ring followed by scleral fixated IOL in Marfan girl
- 16:33 Discussion
- 16:35 *Mayank Bansal* - Myopic traction maculopathy with ectopia lentis: ilm peel and sfiol
- 16:38 Discussion
- 16:40 *Adel AlAkeely* - Macular hole related retinal detachment in persistent fetal vasculature
- 16:43 Discussion
- 16:45 *Amândio Rocha-Sousa* - Yamane iol scleral fixation in a microphthalmic eye with persistent fetal vasculature and iris hypoplasia
- 16:48 Discussion
- 16:50 *Amanda le* - Surgical management of subfoveal hard exudates and serous retinal detachment in a patient with familial exudative vitreoretinopathy (fevr)
- 16:53 Discussion
- 16:55 *Ana Filipa Moleiro, Amândio Rocha-Sousa* - How to approach subretinal fluid? – a challenging surgical case
- 16:58 Discussion
- 17:00 *Ana Maria Varosanec* - Another obscure optic disc anomaly?
- 17:03 Discussion
- 17:05 *Giulio Salerno* - Box-carring of the blood column in retinal artery occlusion: a video case report
- 17:08 Discussion



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**MICHELANGELO ROOM**

**8.15-10.30**     **DIABETIC RETINOPATHY - FREE PAPERS**  
*Chairs: ELISABETTA PILOTTO, FLORENCE COSCAS, JOSÉ CUNHA-VAZ*

- 8:15     **Roberta Spinetta** - Diabetic retinopathy screening: data from a new centre
- 8:19     Discussion
- 8:21     **Luisa Frizziero** - Comparison of 50° handheld fundus camera versus ultra-widefield table-top fundus camera for diabetic retinopathy detection and grading
- 8:25     Discussion
- 8:27     **Elias Khalili Pour** - Automated machine learning-based classification of proliferative and non-proliferative diabetic retinopathy using optical coherence tomography angiography vascular density maps
- 8:31     Discussion
- 8:33     **Ana Almeida** - Combination of ultra-wide-field colour fundus photography and optical coherence tomography angiography demonstrate different subtypes of non-proliferative diabetic retinopathy
- 8:37     Discussion
- 8:39     **Jose Cunha-Vaz** - Vessel density metrics using swept-source octa discriminates severity staging of npdr - the chart study
- 8:43     Discussion
- 8:45     **Ana Santos** - Characterization of two-year progression of different phenotypes of nonproliferative diabetic retinopathy
- 8:49     Discussion
- 8:51     **Ana Santos** - Non-invasive characterization of intraretinal microvascular abnormalities with widefield swept source octa imaging
- 8:55     Discussion
- 8:57     **Couturier Aude** - Retinal non-perfusion area measured with widefield oct-angiography in diabetic retinopathy with or without neovascularization
- 9:01     Discussion
- 9:03     **Alessandro Berni** - Confocal multicolor signal depends on perfusion characteristics of retinal microaneurysms in diabetic retinopathy as detected by octa
- 9:07     Discussion
- 9:09     **Reza Mirshahi** - Colocalization of ellipsoid zone disruption in enface oct with capillary non-perfusion on different retinal vascular layers and choriocapillaris of diabetic patients
- 9:13     Discussion
- 9:15     **Elisabetta Pilotto** - Retinal microvascular and neuronal changes in adolescents with type 1 diabetes
- 9:19     Discussion
- 9:21     **José Cunha-Vaz** - Abnormal fluid accumulation in the diabetic retina quantification using oct-leakage
- 9:25     Discussion
- 9:27     **Alessio Antropoli** - High resolution/high speed (hr/hs) gap: a novel quantitative metric in optical coherence tomography angiography
- 9:31     Discussion
- 9:33     **Paola Marolo** - Retinal thickness deviation: a new oct parameter for assessing diabetic macular edema
- 9:37     Discussion
- 9:39     **Florence Coscas** - Treatment-naïve diabetic macular edema: preliminary results from the clinical study "fovea".
- 9:43     Discussion
- 9:45     **Hamid Riazi Esfahani** - Evaluation of the additive effect of interferon 2b with monthly intravitreal injection of bevacizumab in refractory diabetic macular edema
- 9:49     Discussion
- 9:51     **Maria Vadalà** - Preoperative dexamethasone intravitreal implant in diabetic macular edema patients undergoing phacoemulsification: the catadex study
- 9:55     Discussion
- 9:57     **Hamid Riazi Esfahani** - Comparison of the effect of pan-retinal photocoagulation versus intravitreal anti-vascular endothelial growth factor injection on the foveal vasculature using optical coherence tomography angiography



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**MICHELANGELO ROOM**

- 10:01 Discussion
- 10:03 **Salvatore Parrulli** - Multimodal imaging features of retinal neovascularizations (nvs) in proliferative diabetic retinopathy (pdr) in response to 3 anti-vegf injections
- 10:07 Discussion
- 10:09 **Gustavo Melo** - A silicone oil-free syringe tailored for intravitreal injection of biologics
- 10:13 Discussion
- 10:15 **Edward Barayev** - Postoperative complications of combined phacoemulsification and pars plana vitrectomy in diabetic retinopathy patients
- 10:19 Discussion
- 10:21 **Adel Alakeely** - Complications of combined vitrectomy and phacoemulsification in vitrectomy for diabetic retinopathy
- 10:25 Discussion

**11.15-12.00 OCULAR INVOLVEMENT IN SYSTEMIC DISEASES: BIOMARKERS? - FREE PAPERS**  
*Chairs: SANDRINE ZWEIFEL, DANIELA BACHERINI, FRANCESCO FARALDI*

- 11:15 **Matteo Menean** - Imaging biomarkers of leukemic choroidopathy
- 11:19 Discussion
- 11:21 **Giovanni Cuffaro** - Octa findings in migraine patients with and without aura
- 11:25 Discussion
- 11:27 **Donghyun Jee** - Association of age-related macular degeneration on alzheimer or parkinson disease
- 11:31 Discussion
- 11:33 **Tommaso Torresin** - Hyperreflective retinal foci in multiple sclerosis
- 11:37 Discussion
- 11:39 **Dimitrios Tsigkos** - The use of oct-a in the detection of pathological peripapillary microcirculation and the evaluation of its treatment.
- 11:43 Discussion
- 11:45 **Marco Gioia** - Assessment of choroidal thickness in multiple system atrophy and parkinson's disease.
- 11:49 Discussion

**12.00-12.35 CSC PACHYCOROID - FREE PAPERS**  
*Chairs: SIBEL DEMIREL, MASSIMO NICOLÒ, STELA VUJOSEVIC,*

- 12:00 **Blanca Eslava** - Choroidal thickness in healthy eyes measured by ultra-widefield optical coherence tomography.
- 12:04 Discussion
- 12:06 **Sibel Demirel** - The frequency of intervortex anastomosis in central serous chorioretinopathy and fellow eyes; does the size of anastomotic vessels matter for the diagnosis?
- 12:10 Discussion
- 12:12 **Rita Serra** - Central serous chorioretinopathy in a caucasian cohort: an optical coherence tomography angiography study
- 12:16 Discussion
- 12:18 **Jakob Siedlecki** - Progression of pachychoroid neovascularopathy into aneurysmal type 1 choroidal neovascularization or polypoidal choroidal vasculopathy
- 12:22 Discussion
- 12:24 **Pietro Marolda** - Central serous chorioretinopathy treatment with oral indometacyn and eye drops
- 12:28 Discussion
- 12:30 Panel Discussion



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**MICHELANGELO ROOM**

**12.35-13.25 OCULAR TUMORS - FREE PAPERS**

*Chairs: MARTINA ANGI, ANTONIA JOUSSEN, CINZIA MAZZINI, MARIA ANTONIETTA BLASI*

- 12:35 **Antonella Guglielmi** - Circumscribed choroidal hemangioma associated with peripheral choroidal lesions
- 12:39 Discussion
- 12:41 **Amanda le** - Retinal vasoproliferative tumours have varied clinical course requiring tailored management
- 12:45 Discussion
- 12:47 **Francesco Sabatino** - Vitreous biopsy and macular chorioretinal biopsy for differentiating viral retinitis and vitreoretinal lymphoma
- 12:51 Discussion
- 12:53 **Vlatka Brzovic Šaric** - Treatment of small choroidal tumors with diode laser - a case study
- 12:57 Discussion
- 12:59 **Laura Di Leo** - Endoresection via pars plana vitrectomy and adjuvant ruthenium brachytherapy for uveal melanoma: a single center case series
- 13:03 Discussion
- 13:05 **Giulia Midenà** - Choroidal vascular changes secondary to ocular irradiation
- 13:09 Discussion
- 13:11 **Hamid Riazi Esfahani** - Evaluation of radiation maculopathy after treatment of choroidal melanoma with ruthenium-106 using optical coherence tomography angiography
- 13:15 Discussion
- 13:17 Final discussion

**14.15-15.55 RETINAL DETACHMENT- FREE PAPERS**

*Chairs: MATTEO FORLINI, TOMMASO ROSSI, KHALID AL SABTI*

- 14:15 **Giuseppe Maria Albanese** - Comparison between scleral buckling and vitrectomy in the onset of cystoid macular edema and epiretinal membrane after rhegmatogenous retinal detachment repair
- 14:19 Discussion
- 14:21 **Francesco Pignatelli** - Combined dexamethasone intravitreal implant and silicone removal for the treatment of macular edema after complex regmathogenous retinal detachment
- 14:25 Discussion
- 14:27 **Ahmed Habib** - Surgical technique for repair of retinal detachment with extensive pvr (closed funnel configuration) in children and young adults
- 14:31 Discussion
- 14:33 **Lucas Soares** - Intravitreal methotrexate infusion avoids postoperative proliferative vitreoretinopathy in uncomplicated primary retinal detachment
- 14:37 Discussion
- 14:39 **Tommaso Rossi** - Silicone oil tamponade removal: which technique is more effective? An x-ray photoemission spectroscopy study
- 14:43 Discussion
- 14:45 **Tommaso Rossi** - Do daily activities impact gas tamponade - retina contact after pars plana vitrectomy? An experimental and computational fluid dynamics study
- 14:49 Discussion
- 14:51 **Matteo Forlini** - Heavy silicone oil extraction: evaluation of a mixed 25/23 gauge sutureless approach
- 14:55 Discussion
- 14:57 **Inês Lopes** - incidence of retinal detachment after silicone oil removal in eyes after severe postoperative endophthalmitis
- 15:01 Discussion
- 15:03 **Giacomo Visioli** - Does choroidal thickness predict persistent subretinal fluid after rhegmatogenous retinal detachment repair? A retrospective study with fellow eye comparison.
- 15:07 Discussion
- 15:09 **Chiara Vivarelli** - Oct angiography evaluation of macular plexuses following primary rhegmatogenous retinal detachment surgery: impact of surgical technique and tamponade choice



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**SATURDAY DECEMBER 10**

**MICHELANGELO ROOM**

- 15:13 Discussion
- 15:15 **Anastasia Vlachou** - Peripapillary changes of rnflt after successful treatment for rrd
- 15:19 Discussion
- 15:21 **Luca Landini** - Massive subretinal haemorrhage
- 15:25 Discussion
- 15:27 **Francesco Sabatino** - Outcomes of pars plana vitrectomy for treatment of retinal detachment associated with full thickness macular hole following intravitreal tissue plasminogen activator and gas injection for treatment of submacular haemorrhage
- 15:31 Discussion
- 15:33 **Rodrigo Anguita** - rhegmatogenous retinal detachment in choroidal melanoma: clinical features and surgical outcomes
- 15:37 Discussion
- 15:39 **Aniruddha Agarwal** - Management of a 2-year-old child with macular fold and extensive retinoschisis with pars plana vitrectomy and inner flap retinectomy
- 15:43 Discussion
- 15:45 **Nataliia Grubnyk** - Vitrectomy for war eye injuries
- 15:49 Discussion

**15.55-16.25 MYOPIA - FREE PAPERS**  
*Chairs: FABRIZIO GIANANTI, STRATOS GOTZARIDIS, YUSUKE OSHIMA*

- 15:55 **Mariluz Puertas** - Posterior staphyloma as hallmark of pathologic myopia and severe pathologic myopia
- 15:59 Discussion
- 16:01 **Mariluz Puertas** - Impact of posterior staphyloma on myopic maculopathy and visual prognosis
- 16:05 Discussion
- 16:07 **Marco Battista** - Optical coherence tomography potential solo role in the differentiation between myopic macular hemorrhages due to macular neovascularization or to spontaneous bruch's membrane rupture
- 16:11 Discussion
- 16:13 **Elena Almazán-Alonso** - Assessment of an artery-vein complex (avc) in myopic choroidal neovascularization with oct-a. Role in myopic neovascularization activity.
- 16:17 Discussion
- 16:19 **Lamberto La Franca** - Long-term incidence and risk factors of macular fibrosis, macular atrophy, and macular hole in eyes with myopic neovascularization
- 16:23 Discussion

**17.15-18.10 OPTIC NERVE - GLAUCOMA**  
*Chairs: GILDA CENNAMO, CESARE MARIOTTI, ALFONSO SAVASTANO*

- 17:15 **Gilda Cennamo** - Octa study of choroidal vasculature in open angle glaucoma patients
- 17:19 Discussion
- 17:21 **Radina Kirkova** - Perfusion changes in optic disc in glaucoma patients – an optic coherence tomography-angiography study
- 17:25 Discussion
- 17:27 **Ana Filipa Moleiro, Amândio Rocha-Sousa** - The influence of topical mydriatics on peripapillary and macular microvasculature measured by optical coherence tomography angiography in healthy subjects and diabetic patients without diabetic retinopathy
- 17:31 Discussion
- 17:33 **Ferdinando Cione** - Optic nerve drusen evaluation: a comparison between ultrasound and oct
- 17:37 Discussion
- 17:39 **Rita Gama** - Small-sized discs and oct normative databases in children
- 17:43 Discussion



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**SATURDAY DECEMBER 10**

**MICHELANGELO ROOM**

- 17:45 **Francesco Dragotto** - Nanophthalmos: beyond the lens
- 17:49 Discussion
- 17:51 **Eamonn Fahy** - Glaucoma following pars plana vitrectomy: a case series and review of the literature
- 17:55 Discussion
- 17:57 **Marko Zlatanovic** - Combined surgery of phacoemulsification, vitrectomy and implantation of ahmed's valve in the treatment of neovascular glaucoma
- 18:01 Discussion
- 18:03 **Eamonn Fahy** - Ocular decompression retinopathy: a rare complication of glaucoma drainage surgery
- 18:07 Discussion

**BERNINI ROOM**

**09.30-18.30 DRY LAB FOR AUTOMATED FLUID MONITORING**  
 Hands on instruction for using an AI-based monitor tool in the management of neovascular AMD in clinical practice  
*Coordinator: URSULA SCHMIDT-ERFURTH*  
*Team: DORUK OKCUOGLU, CHRISTINA BOHRN*

**RAFFAELLO ROOM**

**14.00-18.00 IMAGING LAB**  
*Organizer: EDOARDO MIDENA*  
*Coordinator: ELISABETTA PILOTTO*  
*Instructors: LUISA FRIZZIERO, GIULIA MIDENA, TOMMASO TORRESIN*

**LEONARDO ROOM**

- 09.00-13.15 3D SURGERY WET LAB**
- 9.00-11.00 GROUP A  
*Teachers: ANDREA SCUPOLA, ANTONIO BALDASCINO*
- 11.15-13.15 GROUP B  
*Teachers: LORENZO DE ANGELIS, TITO FIORE*



**14.15-16.00 3D ADVANCED COURSE**  
*Chair: DAVID CHOW*

- 16.15-18.15 3D SURGERY WET LAB**
- 16.15-18.15 GROUP C  
*Teachers: FRANCESCO BARCA, LORENZO BENI*





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# SUNDAY DECEMBER 11

## CAVALIERI 2 ROOM

### 08.30-09.30 HOW THE NEW TECHNOLOGIES IMPROVED THE UNDERSTANDING OF DIABETIC RETINOPATHY Chairs: MARIACRISTINA PARRAVANO, MONICA VARANO Moderators: ANAT LOEWENSTEIN, STELA VUJOSEVIC

- 8:30 **Tunde Peto** - Challenges of DR classification
- 8:38 **Mariacristina Parravano** - Is functional testing useful in DR
- 8:46 **Anat Loewenstein** - OCT biomarkers of treatment response in DME
- 8:54 Discussion
- 9:00 **Stela Vujosevic** - Microvascular abnormalities on OCTA in DR
- 9:08 **Serena Fragiotta** - OCTA biomarkers in treatment response
- 9:16 **Patricia Udaondo, Eliana Costanzo** - Choroidal involvement in DR/DME
- 9:24 Discussion

### 09.30-10.45 BIOMARKERS Chairs: FRANCINE BEHAR COHEN, DAVID HUANG, EDOARDO MIDENA

- 9:30 **Francine Behar Cohen** - Systemic biomarkers for Central Serous chorioretinopathy
- 9:35 **Joseph Carroll** - Relative sensitivity of OCTA-based retinal vasculature metrics
- 9:40 **Roberto Dell'Omo** - The role of OCT imaging in rhegmatogenous retinal detachment
- 9:45 **David Huang** - Automated segmentation of macular fluid volume as a treatment indicator for diabetic macular edema
- 9:50 **Cesare Mariotti** - Automated assessment of retinal biomarkers before and after idiopathic ERM removal by 27G PPV
- 9:55 **Edoardo Midena** - Intraocular liquid biopsy in AMD and diabetic retinopathy: adding Omics to imaging
- 10:00 Discussion
- 10:05 **Elisabetta Pilotto** - Hyper-reflective Retinal Foci as in vivo imaging biomarker of microglia activation
- 10:10 **Khalil G. Falavarjani** - Retinal and optic nerve microvascular changes in response to acute change in blood and intraocular pressure
- 10:15 **Lisa Toto** - Choroidal imaging biomarkers in macular neovascularization
- 10:20 **Stela Vujosevic** - Multimodal retinal imaging as biomarker for cerebrovascular and cardiovascular disease in patients with diabetes mellitus
- 10:25 **Sandrine Zweifel** - Ocular and systemic findings in post-COVID-19 patients
- 10:30 **Majda Hadziahmetovic** - Risk factors for the development and progression of diabetic retinopathy in pregnancy
- 10:35 Discussion

### 10.45-11.45 HISTOLOGICAL VALIDATION OF OCT SIGNATURES IN AMD Chairs: CHRISTINE A. CURCIO, K. BAILEY FREUND

- 10:45 **K. Bailey Freund** - Clinical application of insights from histology
- 10:55 **Christine A. Curcio** - Neovascular AMD and its precursor deposits, viewed through clinicopathologic correlation
- 11:05 **Prithvi Ramtohol** - Cellular activity in neovascular AMD in histology and HR-OCT
- 11:15 **Thomas Ach** - Histology and OCT shines new light on fundus autofluorescence and RPE cell biology
- 11:25 **Andreas Pollreis** - Outer retinal reflective bands at subcellular resolution: photoreceptor-RPE interactions via volume electron microscopy
- 11:35 Discussion



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**SUNDAY DECEMBER 11**

**CAVALIERI 2 ROOM**

**11.45-12.45 IMAGING COURSE: WHAT'S NEW IN RETINAL IMAGING?**

*Chairs: ENRICO BORRELLI, ROSA DOLZ-MARCO, RODOLFO MASTROPASQUA, RICCARDO SACCONI, DANIELA BACHERINI*



- 11:45 **Vittorio Capuano** - New modalities of retinal visualization in cases of media opacity
- 11:52 **Rosa Dolz-Marco** - Outer retinal reflective structures and aging changes using High Res OCT
- 11:59 **Carlo Lavia** - High resolution OCTA analysis of three retinal capillary plexuses from the fovea to the periphery
- 12:06 **Rossella D'Aloisio** - What's new in multimodal imaging: inflammatory biomarkers in retinal vascular diseases
- 12:13 **Ersöz Giray** - Impact of social media on sharing retinal imaging
- 12:20 **Claudio Iovino** - OCTA of the iris: current limitations and future perspectives
- 12:27 **Alexandra Miere** - Deep learning applications in retinal imaging
- 12:34 **Daniela Bacherini** - Adaptive Optics Retinal Imaging: Emerging Clinical Applications
- 12:41 Discussion

**BELLE ARTI ROOM**

**08.30-09.30 MYOPIC TRACTION MACULOPATHY: SURGICAL INDICATIONS AND TECHNIQUES**

*Coordinator: MARTA FIGUEROA*

- 8:30 **Andrea Govetto** - Pathophysiology of MTM
- 8:41 **Grazia Pertile** - Surgical Approach and Indications in MTM
- 8:52 **Marta Figueroa** - Lamellar Holes in The Context of MTM
- 9:03 **Mario Romano** - Full-thickness Macular Holes in High Myopic Eyes: Surgical Management
- 9:14 Discussion

**09.30-11.15 RETINAL DETACHMENT 2: MANAGING COMPLICATIONS**

*Chairs: VINCENZA BONFIGLIO, JOSÉ GARCÍA-ARUMÍ, MARCO MURA, FRANCESCO FARALDI*

- 9:30 **Tomaso Caporossi** - Human Amniotic Membrane In Retinal Detachment With Proliferative
- 9:35 **José García-Arumí** - Silicone oil retention sutures in severe PVR
- 9:40 **Heinrich Heimann** - Surgical treatment of exudative retinal detachments
- 9:45 **Umberto Lorenzi** - Macular complication after scleral buckle surgery. When to re-detach the retina?
- 9:50 **Marco Mura** - Management of retinal detachment with pvr
- 9:55 **Athanasios Nikolakopoulos** - Retina detachment treatment in multiple tears zipper syndrome and posterior vitreous base misplacement special considerations
- 10:00 Discussion
- 10:05 **Emilio Rapizzi** - Efficacy and safety of pars plana vitrectomy and filtered air in the management of complex rhegmatogenous retinal detachment
- 10:10 **Tommaso Rossi** - Silicone Oil removal techniques: which is better?
- 10:15 Agostino Vaiano - Ocular hypotony
- 10:20 **Vincenza Bonfiglio** - Subretinal fluid drainage during vitrectomy for the primary repair of rhegmatogenous retinal detachment: comparative study
- 10:25 **Hassan AlDibhi** - The Role of SB with Small Gauge Vitrectomy
- 10:30 **Tito Fiore** - In vivo visualization of the photoreceptors using Spectralis High Magnification Module (HMM) imaging in retinal detachment
- 10:35 Discussion
- 10:40 **Stratos Gotzaridis** - Reduce the surgical time by not completely drain the subretinal fluid in retinal detachment cases
- 10:45 **Yusuke Oshima** - Subretinal fluid injection for the treatment of idiopathic macular hole complicated with focal retinal detachment



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**BELLE ARTI ROOM**

- 10:50 **Vincenzo Ferrara** - Interface Vitrectomy and management of the Vitreous Base
- 10:55 **Francesco Barca** - Risk of retinal detachment recurrence after macular surgery in eyes previously treated with 360° encircling band
- 11:00 **Enrico Peiretti** - Minivit trial a new way to do vitrectomy in rhegmatogenous retinal detachment
- 11:05 Discussion

**11.15-12.15 RETINAL PROSTHESIS**  
*Chairs: STANISLAO RIZZO, GRAZIA PERTILE, RICHARD GISBERT*

- 11:15 **Stanislao Rizzo** - A new system to restore sight in RP patient
- 11:21 **Fabio Patelli** - Vision surgical systems for low vision AMD patients
- 11:27 **Marco Andrea Pileri** - Artificial vision in AMD: subretinal microchip implantation in geographic atrophy (GA). Surgical approach of the PRIMAvera project
- 11:33 **Richard Gisbert** - Functional results after implantation of a Retina Chip: what are the Limitations?
- 11:41 Discussion
- 11:49 **Yannick Le Mer** - Restoration of central vision in geographic atrophy with PRIMA chip
- 11:55 **Alfonso Savastano** - Real-life experience results using the SING (Smaller-Incision New-Generation) implantable miniature telescope (IMT)
- 12:01 **Grazia Pertile** - Liquid retina
- 12:07 Discussion

**12.15-13.15 IOLs AND SCLERAL FIXATED IOLs**  
*Chairs: STRATOS GOTZARIDIS, PAOLO LANZETTA, DANIELE TOGNETTO*

- 12:15 **Vincenzo Ferrara** - Lost IOLs: logic and technique of strategies
- 12:20 **Fabrizio Giansanti** - Enhanced monofocal lenses in combined cataract and macular pucker surgery: useful or useless choice?
- 12:25 **Stratos Gotzaridis** - Five years experience of placing Cerlevalle intraocular lenses
- 12:30 Discussion
- 12:35 **Paolo Lanzetta** - Combined transconjunctival sutureless 25-ga vitrectomy and scleral fixation of intraocular lens
- 12:40 **Yusuke Oshima** - Surgical tips and outcomes of IOL intrascleral fixation for the treatment of dislocated IOL and crystalline lens
- 12:45 **Fabio Patelli** - Secondary IOL implant, which is the best option
- 12:50 Discussion
- 12:55 **Emilio Rapizzi** - Evaluation of visual outcomes and complications of a suture-less scleral fixation IOL
- 13:00 **Claudia Fossataro** - Catcher Pole scleral fixation for repositioning of dislocated IOL in vitreous chamber
- 13:05 **Daniele Tognetto** - Sutureless scleral fixation IOL: pitfalls and solutions
- 13:10 Discussion

**CARAVAGGIO ROOM**

**09.15-10.15 OPERATING ROOM STAFF COURSE**

- 09:15 **Stefano Pepe** - The intra-operative Complications in Retinal Surgery
- 09:30 **Camilla Scognamiglio, Maddalena Camposeo** - La gestione Infermieristica nel trattamento del retinoblastoma: l'esperienza dell'Ospedale pediatrico Bambino Gesù
- 09:45 **Rossana Addei** - Percorsi pre, intra e post-operatori
- 10:00 Discussion and practical insights



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