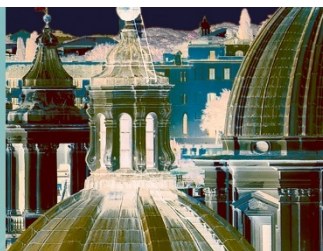


# 6<sup>TH</sup> INTERNATIONAL CONGRESS ON OCT ANGIOGRAPHY AND ADVANCES IN OCT



## Rome

December 14 and 15, 2018

Ergife Palace Hotel

Via Aurelia, 619

## Minor changes may still occur

**SIMULTANEOUS TRANSLATION ENGLISH, FRENCH, ITALIAN IN  
THE PLENARY HALL AND IN HALLS A AND B**

**HALLS C – D and E: Official language: ENGLISH**

## FRIDAY DECEMBER 14

### 8.00 – 8.45 – **ADVANCED OPTOVUE SYMPOSIUM** – HALL A

*Moderator: Bruno Lumbroso*

**Bruno Lumbroso** – Introduction

**Eric Souied** – Detection and classification of CNV with OCTA

**Amani Fawzi** – OCTA signal in atrophy: CNV or residual choroidal vessels?

**Bruno Lumbroso** – How to determine CNV activity with OCT and OCTA? Long- term follow-up

**Marco Rispoli** – The role of OCTA in dry AMD

**Salomon Yves Cohen** – How does OCTA fit in the everyday imaging armamentarium? And how can it guide treatment decisions?

### 8.00 – 8.45 – **HEIDELBERG SYMPOSIUM** – HALL B

*Moderator: Giovanni Staurenghi*

**Giovanni Staurenghi** - SD-OCT vs SS-OCT: pros and cons?

**Edoardo Midena** - OCTA in macular degeneration

**Marco Lupidi** - Pearls and pitfalls

**Manuele Micheleffi** – RFNL vs macula vs ONH for diagnosing Glaucoma with OCT

# FRIDAY MORNING

## HALL A+B

### 1. AMD 1

*Chairs: Daniel Pauleikhoff, David Sarraf, Eric, Souied, Srinivas Sadda, Nadia K. Waheed, Salomon Yves Cohen*

**9.00 - Daniel Pauleikhoff** - Pigment epithelial detachment in exudative AMD

**9.07 - Nadia K. Waheed** - Evolutive changes in wet AMD

**9.14 - Aude Ambresin** - Influence of structural OCT characteristics in the detection of CNV due to AMD using OCT Angiography

**9.21 - Florence Coscas, Diogo Reis Cabral, Gabriel Coscas, Eric Souied** - 3D OCT Angiography biomarkers in AMD

**9.28** - Discussion

### Key Note Lecture

*Chair: Bruno Lumbroso*

**9.33 - David Sarraf** - RAP: advanced retinal imaging of Type 3 NV

### 2. CLASSIFICATION OF ATROPHY AND NEOVASCULARIZATION IN AMD

*Chairs: David Sarraf, Eric Souied*

**9.53 - Adnan Tufail** - OCT classification of atrophy in AMD

**10.00 - K. Bailey Freund** - OCT classification of NV in AMD

**10.07 - David Sarraf** - OCTA classification of NV in AMD

**10.14** - Discussion

### 3. ADVANCED RETINAL IMAGING OF PED

*Chairs: David Sarraf, Daniel Pauleikhoff*

**10.19 - Adrian Au** - 3D OCTA volumetric analysis of the progression of vascularized serous PED

**10.26 - David Sarraf** - OCT and OCTA evaluation of the mechanism of RPE tears associated with PED

**10.33 - Daniel Pauleikhoff, Frederic Gunnemann** - OCTA analysis to assess the response of ped and rpe-tears to Anti VEGF therapy

**10.40** - Discussion

### 10.45 - Key Note Lecture

*Chair: David Sarraf*

**Eric Souied** - Non exudative asymptomatic CNV detected by OCTA

### 11.05 - Key Note Lecture

*Chair: Quan Dong Nguyen*

**Philip J. Rosenfeld** - Advances in choriocapillaris imaging (techniques) and imaging of the choriocapillaris in AMD

### 11.25 - ROUND TABLE: OCTA AND EVERYDAY OPHTHALMOLOGY TODAY

*Philip J. Rosenfeld, Bruno Lumbroso, Caroline Bauman, Karl Csaky, Murata Toshinori*

How has OCTA has changed clinical management

**11.45 - Presentation of the  
“Bruno Lumbroso Lecture” that will be given Saturday morning**  
*Quan Dong Nguyen*

**11.50 - Keynote Lecture**  
*Chair: David Sarraf*  
**K. Bailey Freund** - Update on Pachychoroid disease

**4. VISIONS OF FUTURE BY INDUSTRY SENIOR EXECUTIVES**  
*Chairs: James G. Fujimoto, Bruno Lumbroso*

**12.10** - Optovue - **Jay Wei**  
**12.17**- Zeiss - **Angelo Rago** - Transforming patient care, a future look at imaging  
**12.24** - Nidek - **Riccardo Ferraris de Gaspare** - Nidek’s vision on future of technology in ophthalmology  
**12.31**- Topcon - **Carl Glittenberg**  
**12.38** - Heidelberg Engineering - **Tilman Otto** - OCTA: improving its accuracy and expanding its clinical utility  
**12.45** - Optopol - **Arkadiusz Chalecki** - Newest OCT developments  
**12.51** - Canon - **Ori Zahavi**: The future with Canon

**13.05 – 13.50 NIDEK LUNCH SYMPOSIUM**  
*(Lunch boxes available for the first 250 attendees)*

**New technologies and clinical application: widefield multimodal imaging and vascular quantitative analysis**  
*Leonardo Mastropasqua, Giovanni Staurenghi, Nadia Waheed*

**12.56 – 14.00 – Lunch break**

**FRIDAY AFTERNOON**

**HALL A**

**5. OTHER CNV**  
*Chairs: Martine Mauget-Fayssse, Benjamin Wolff, Yves Salomon Cohen, Elisabetta Pilotto*

**14.00** - **Sabine Derrien, Elise Scemama-Boulanger, Elsa Laumonier, Benjamin Wolff, Flore DeBats, Vivien Vasseur, Martine Mauget-Fayssse** - Choroidal new vessels in hereditary dystrophies  
**14.07** - **Elisabetta Pilotto** - Retinal function in vascularized fovea  
**14.14** - **Yves Salomon Cohen** - Vascular remodelling of myopic choroidal neovascularization treated with Ranibizumab  
**14.21** - Discussion

**6. APPLICATIONS OF PROJECTION-RESOLVED OCTA**  
*Chair: David Huang, Min Wang*

- 14.26 - David Huang** - Classification of choroidal neovascularization using projection-resolved OCTA
- 14.33 - David Huang** - Unequal flow alteration in retinal plexuses in different conditions – evidence against series circuit model of retinal blood flow
- 14.40 - David Huang** - Early detection of diabetic retinopathy with projection-resolved OCTA
- 14.47 - Amani Fawzi** - Plexus-specific manifestations of retinal diseases
- 14.54 - Min Wang** - Clinical application of 3D PAR of OCT Angiography
- 15.01** - Discussion

## 7. EXUDATIVE CNV AMD

*Chair: Rufino Silva, Roberto Gallego-Pinazo, Marco Lupidi*

- 15.06 - Rosa Dolz-Marco** - Checklist of neurodegenerative changes in patients with AMD
- 15.13 - Roberto Gallego-Pinazo** - Relevance of the tomographic classification of CNV in patients with AMD
- 15.20 - Miguel Raimundo** - Sensitivity and specificity of a fully non-invasive approach (OCT+OCTA) for the diagnosis of wet AMD
- 15.27 - João Pedro Marques** - Nonexudative CNV in AMD
- 15.34 - Marco Lupidi** - Hemodynamics of choroidal Cnvs in AMD
- 15.41 - Rufino Silva** - OCTA in type 3 CNV and fellow eyes
- 15.48 - Massimo Nicolò** - Early diagnosis of RAP with swept-source OCT and Angio-OCT
- 15.55** – Discussion

## 8. NON-EXUDATIVE CHOROIDAL NEOVASCULARIZATION

*Chairs: David Huang, Nadia K. Waheed, Philip J. Rosenfeld*

- 16.00 - David Huang** - Non-exudative CNV is a precursor to exudation
- 16.07 - Nadia K. Waheed** - Vacularized drusen in age-related macular degeneration
- 16.14 - Philip J. Rosenfeld** - OCTA imaging of subclinical non-exudative macular neovascularization
- 16.21 - Daniel Martin** - Clinical trial of prophylactic anti-angiogenic therapy in high risk age-related macular degeneration
- 16.28** - Discussion

## 9. MORPHOLOGY-AND OCTA

*Chairs: Barbara Blodi, Thomas Theelen*

- 16.33 - Thomas Theelen, Vivian Schreu, Artin Domanian, Bart J. Liefers Venhuizen, Freerk G., B. Jeroen Klevering, Eiko K. de Jong, Carel B. Hoyng** - Morphological and topographical appearance of microaneurysms on Optical Coherence Tomography Angiography
- 16.40 - Barbara Blodi** - Quantification of drusen dynamics using Optical Coherence Tomography (OCT)
- 16.47 - Ioannis P. Theocharis** - Drusen tectonics and mechanical interpretation of posterior pole kinetics
- 16.54 - Vivien Vasseur, Anne Sophie Alonso, Sabine Derrien, Sophie Thevenin, Laurence Salomon, Martine Mauget-Faÿsse** - *En face* OCT interdigitation zone analysis
- 17.01** - Discussion

## 10. PATHWAYS OF DISEASE AND PHENOTYPES OF PROGRESSION IN DIABETIC RETINOPATHY

*Chairs: José Cunha Vaz, Anat Loewenstein, Francesco Bandello*

- 17.06 - Edoardo Midena** - Neurodegeneration
- 17.13 - Isabel Pires** - Retinal edema
- 17.20 - Mariacristina Parravano** - Microvascular changes

**17.27 - José Cunha Vaz** - Microaneurysms turnover

**17.34 - Tiago M. Rodrigues** - Peripapillary and macular neurovascular coupling in early diabetic retinopathy

**17.41** - Discussion

## **11. DIABETIC RETINOPATHY 1**

*Chairs: Francesco Bandello, Nadia K. Waheed, Anat Loewenstein*

**17.46 - Sobha Sivaprasad** - Imaging and management of PDR

**17.53 - José Cunha-Vaz** - Biomarkers of diabetic retinopathy progression and treatment response

**18.00 - Patricia Udaondo, Omer Trivizki** - Steroids or VEGF for diabetic retinopathy - imaging parameters and clinical use

**18.07- Dafna Goldenberg** - OCT and OCTA in diabetic macular edema

**18.14 - Marco Lupidi, Felice Cardillo-Piccolino, Anna Caricato, Gabriel Coscas, Carlo Cagini** - OCT Angiography assessment of retinal neovascularizations in proliferative diabetic retinopathy

**18.21 - Caroline Baumal** - Features of proliferative diabetic retinopathy

**18.28 - Lisa Toto** - OCTA vascular changes and aqueous humor cytokine level changes after intravitreal injection of Aflibercept for diabetic macular edema

**18.35** - Discussion

**18.40 - End of the sessions**

**19.50 - Bruno Lumbroso cocktail for the speakers**

**19.00 - 21.00 - ZEISS Event "Experiencing OCT/OCTA after the theory during the day"**

# **HALL B**

## **12. NORMAL RETINA AND VASCULAR DISORDERS**

*Chairs: Richard Rosen, Dimitra Skondra, Leopold Schmetterer, Suqin Yu*

**14.00 - Dimitra Skondra, Chun Ba** - Differences in macular vascular microenvironment between black and white subjects using Optical Coherence Tomography Angiography

**14.07 - Suqin Yu, Xinxin Li, Xun Xu** - Quantitative analysis of vessel density in patients with PAMM lesions using 3D PAR OCTA

**14.14 - Sandrine Zweifel** - Pilot- Project for the detection of retinal arterial (micro) emboli after transcatheter aortic valve implantation using OCTA and Fluorescence Angiography

**14.21 - Leopold Schmetterer, Jacqueline Chua, Bingyao Tan, Calvin Woon, Loong Chin** - Impact of systemic hypertension on choriocapillaris flow voids using Optical Coherence Tomographic Angiography

**14.28** - Discussion

## **13. TELANGIECTASIA 1**

*Chairs: Daniel Pauleikhoff, Ethan Priel*

**14.33 - Daniel Pauleikhoff** - Progression of vascular changes in OCT-A in macular Teleangiectasis type 2

**14.40 - Ethan Priel** - OCTA in Mac Tel – New and complementary multi-modal imaging findings

**14.47** - Discussion

## **14. TREATMENT AMD AND VASCULAR DISORDERS 1**

*Chair: Edoardo Midena*

- 14.52 - Sandro Saviano** - Aflibercept monotherapy for PCV: the PLANET study
- 14.59 - Mariacristina Parravano** - Diabetic retinopathy with or without DME: new treatment options
- 15.06 - Edoardo Midena** - Recent advances for Aflibercept in AMD
- 15.13** - Discussion

## **15. THE PILLARS FOR AN OPTIMAL MANAGEMENT OF MACULOPATHY**

*Chairs: Giovanni Staurenghi, Benjamin Wolff, Maurizio Battaglia Parodi*

- 15.18 - Giovanni Staurenghi** - Introduction
- 15.23 - Enrico Peiretti** - Maculopathies: a correct approach for a chronic disease
- 15.30 - Maurizio Battaglia Parodi, Alessandro Arrigo** - Proven efficacy and safety: from clinical studies to real practice
- 15.37 - Angelo Minnella** - The importance of early diagnosis and early treatment in the clinical practice: the Luminous study
- 15.44 - Michele Reibaldi** - Clinical and organizational appropriateness: an indispensable combination
- 15.51 - Benjamin Wolff** - The experience of a center of excellence
- 15.58** - Discussion

## **16. NEURO OPHTHALMOLOGY 1**

*Chairs: Albert Augustin, Richard Rosen*

- 16.03 - Albert Augustin** - OCT Angiography and *En face* OCT in neuro ophthalmology, update
- 16.10 - Richard Rosen** - The role of OCT A in the diagnosis and management of Optic Neuropathies
- 16.17 - Umur Kayabasi** - Arteritic vs. non arteritic anterior ischemic optic neuropathy: vascular analysis of the optic nerve head
- 16.24 - Gilda Cennamo** - Assessment of the peripapillary vascular network in hereditary Optic Neuropathies
- 16.31 - Marco Lupidi** - OCTA in the evaluation of optic neuritis during the course of Multiple Sclerosis
- 16.38 - Dilraj Grewal** - Retinal microvasculature and neurodegenerative changes among Alzheimer's disease, mild cognitive impairment, and controls
- 16.45** - Discussion

## **17. ANGIO-OCT AND OCT IN NEURO OPHTHALMIC DISEASES**

*Chairs: Y. Joyce Liao, Randy Kardon, Quan Dong Nguyen*

- 16.50 - Randy Kardon** - OCTA and OCT structure-function correlation and laser speckle blood flow
- 16.57 - Y. Joyce Liao** - OCT analysis of vascular changes in optic neuropathies
- 17.04 - Heather Moss** - Retinal vessels in states of high intracranial pressure
- 17.11 - Min Wang** - OCTA imaging in neuro ophthalmic diseases
- 17.18 - Shannon Beres** - OCT and OCTA imaging in pediatric neuro ophthalmology
- 17.25 - Isabella Grumbach** - Deep learning approaches to vascular analysis
- 17.32** - Discussion

## **18. TREATMENT AMD AND VASCULAR DISORDERS 2**

*Chairs: Martine Mauget Fajÿsse, Rosangela Lattanzio, Ugo Menchini*

- 17.37 - Rosangela Lattanzio** - Fluocinolone acetonide in DME: real world experience
- 17.44 - Giacomo Panozzo** - Dexamethasone intravitreal implant at the time of cataract surgery in eyes with DME

**17.51 - Marco Lupidi** - Shall we stay, or shall we switch? Continued Anti-VEGF therapy versus early switch to dexamethasone implant in refractory diabetic macular edema

**17.58 - Ryo Kubota** - Positive diabetic retinopathy outcomes with Emixustat

**18.05 - Ana Rita Santos, Dalila Alves, Jay C. Wang, Inês Laíns, Rufino Silva, João Figueira, José G. Cunha-Vaz** - Choroidal predictors for visual response to Anti-VEGF treatment in DME patients, using Swept Source OCT

**18.12 - Pavol Kusenda** - Treat and extend vs. fixed regimen for the treatment of wet age-related macular degeneration in treatment-naïve patients – Twelve-month real-life outcomes

**18.19 - Ryo Kubota** - A novel oral therapy for Stargardt disease

**18.26** - Discussion

**18.31 – End of the sessions**

## HALL C

### 19. OTHER RETINAL DISORDERS 1

*Chairs: Martine Mauget-Faÿsse, Benjamin Wolff, Jinfeng Qu*

**14.00 - Jinfeng Qu, Xiaoxin Li** - Coherence Tomographic Angiography in acute macular neuroretinopathy

**14.07 - Claire Scemama-Timsit, Elise Scemama-Boulanger, Elsa Laumonier, Sabine Derrien, Vivien Vasseur, Cédric Lamirel, Martine Mauget-Faÿsse** - Retinal OCT as a marker in patients with dominant atrophy and Wolfram syndrome

**14.14 - Martine Mauget-Faÿsse, Vivien Vasseur, Romain Deschamps** - Acute macular neuropathy, a new risk factor

**14.21 - Céline Giraud, Catherine Favard, Vivien Vasseur, Benjamin Wolff, Martine Mauget-Faÿsse** - OCT-A PCV classification

**14.28 - Joseph Carroll** - OCTA imaging in congenital achromatopsia

**14.35 - Ugo Introini** - Focal choroidal excavation

**14.42** - Discussion

### 20. OTHER RETINAL DISORDERS 2

*Chairs: Martine Mauget-Faÿsse, Joseph Carroll, Luisa Pierro, Marco Lupidi*

**14.47 - Luisa Pierro** - High Hyperreflective Spikes, HFS, a new SDOCT foveal abnormality sign

**14.54 - Alessio Cerquaglia, Marco Lupidi, Carlo Cagini** - New-insights on ocular Sarcoidosis: an OCT Angiography assessment

**15.01 - Catherine Favard, Eric Frau, Sarah Tick, Martine Mauget-Faÿsse** - Contribution of SSOCT and SSOCT-Angiography to the analysis of Circumscribed Choroidal Hemangiomas

**15.08 - Moaetz Billah Mekki, Amine Taibi, Mourad Abdelbaki, Hadi Chakkor, Mohamed Karim Belkacem Chabani, Ramzeddine Belaoudmou, Said Yahiaoui, Okba Titah** - Relation between the Angio OCT macular density map (AOMDM) in patient with coronary disease versus healthy persons

**15.15** - Discussion

### 21. AMD 2

*Chairs: Vittorio Capuano, Marco Rispoli, Yusuf Durlu*

**15.20 - Rita Serra, Florence Coscas, Diogo Cabral, Marco Lupidi, Jean François Boulet, Gabriel Coscas, Eric Souied** - Long-term progression of treatment-naïve quiescent choroidal neovascularization in intermediate age-related macular degeneration, by multimodal imaging and Optical Coherence Tomography Angiography

**15.27 - Vittorio Capuano, Giuseppe Querques, Eric Souied, Francesco Bandello** - Pigment epitheliumdetachment *dimple* as a result of hyperreflective sub-retinal membrane

**15.34 - Iori Wada, Shintaro Nakao, Yoshihiro Kaizu, Muneo Yamaguchi, Mitsuru Arima, Keihiro Ishikawa, Kumiko Kano, Satomi Shiose, Yuji Oshima, Tatsuro Ishibashi, Koh-Hei Sonoda** - The evaluation of disease activity in exudative age-related macular degeneration using *En face* hyperreflective foci

**15.41 - Vittorio Capuano, Giuseppe Querques, Eric Souied, Francesco Bandello** - Vascular remodelling in geographic atrophy secondary to non-exudative AMD

**15.48 - Marco Lupidi, Felice Cardillo-Piccolino, Gabriel Coscas, Carlo Cagini** - Hemodynamic variations in choroidal neovascular lesions

**15.55 - Yusuf Durlu** - OCT and OCT Angiography findings in asymptomatic patients with exudative age-related macular degeneration

**16.02** - Discussion

## **22. TREATMENT AMD AND VASCULAR DISORDERS 3**

*Chairs: Mate Streho, Luca Di Antonio, Daniela Bacherini, Ana Rita Santos*

**16.07 - Maté Streho, Violaine Caillaux, Charlotte Sevin, Marie Julie Bovis** - OCT-A follow-up of radial peripapillary vascularisation during IVI for AMD treatment

**16.14 - Maria Oliva Grassi, Claudio Furino, Recchimurzo Nicola, Alessio Giovanni** - Retinal vessel analysis on OCTA immediately after Anti-Vegf intravitreal injection

**16.21 - Claudio Furino, Grassi Maria Oliva, Montepara Alfonso, Alessio Giovanni** - CNVs other than AMD: characteristics and therapy

**16.28 - Luca Di Antonio** - OCTA vascular changes after Aflibercept intravitreal injection in treatment-naive myopic CNV

**16.35** - Discussion

## **23. AMD 7**

*Chairs: Ursula Schmidt-Erfurth, Alexandra Miere, Martin Michl*

**16.40 - Martin Michl, Bianca S. Gerendas, Xiaofeng Hu, Sebastian M. Waldstein, Amir Sadeghipour, Ursula Schmidt-Erfurth** - The degree of foveal photoreceptor disruption in treatment-naive neovascular age-related macular degeneration and diabetic macular edema

**16.47 - Alexandra Miere, Giuseppe Querques** - Sub-retinal pigment epithelium multilaminar hyperreflectivity is often seen at the onset of type 3 neovascularization

**16.54 - Joana Providência, Miguel Raimundo, João Pedro Marques, Rufino Silva** - OCT Angiography biomarkers in neovascular age-related macular degeneration

**17.01 - Florence Coscas, Diogo Ries Cabral, Gabriel Coscas, Eric Souied** - OCT Angiography biomarkers in remission nAMD

**17.08 - Karim Raafat** - Value of OCT angiography in detecting CNV complicating macular dystrophies and degeneration

**17.15** - Discussion

## **24. NON EXUDATIVE; QUIESCENT CNV, OTHER CNV -PCV**

*Chairs: Leila El Matri, Benjamin Wolff, Adil El Maftouhi, Fenghua Wang*

**17.20 - Fenghua Wang, Qivu Bo, Philp J. Rosenfeld, Xiaodong Sun** - Polyps in polypoidal choroidal vasculopathy appear as vascular structures using Swpt-Source OCTA

**17.27 - Fenghua Wang, Qivu Bo, Philp J. Rosenfeld, Xiaodong Sun** - Polyps in polypoidal choroidal vasculopathy appear as vascular structures using Swpt-Source OCTA

**17.34 - Benjamin Wolff, Laurent Castelnovo, Sarah Mrejen, Vivien Vasseur, Guillaume Michel, Martine Maugé-Fayssé** - Subretinal OCTA hyper reflective signal in central serous chorioretinopathy: newvessels or not?

**17.41 - Adil El Maftouhi** - Non exudative CNV in OCTA: new insight?



**17.48 - Leila El Matri** - OCT - Angiography in quiescent choroidal neovascularisation not related to AMD

**17.55 - Karim Raafat** - The role of OCT Angiography in non-exudative "silent" choroidal neovascularization (CNV)

**18.02 - Isil Sayman Muslubas, Serra Arf, Mumin Hocaoglu** - Membrane patterns in eyes with choroidal neovascularization on Optical Coherence Tomography Angiography

**18.09 - Zeinab El Sanabary** - Diagnosis of RAP by OCTA

**18.16** - Discussion

**18.21 - End of the sessions**

## HALL D

### 25. QUANTITATIVE OCTA

*Chairs: Richard Rosen, Amir Kashani*

**14.00 - Daniel Pauleikhof** - Mathematical characterization of CNV in AMD with OCT Angiography

**14.07 - Amir Kashani** - Quantitative OCTA metrics for assessing DR progression

**14.14 - Diogo Reis Cabral, Florence Coscas, Telmo Pereira, Alexandre Pedinielli, Alexandra Miere, Alexandre Sellam, Sandra Barrão, Gabriel Coscas, Eric Souied** - Quantitative OCT Angiography for neovascular age related macular degeneration: six months follow-up study

**14.21 - Marion Munk** - Cataract significantly influences quantitative measurements on swept-source Optical Coherence Tomography Angiography imaging

**14.28** - Discussion

### 26. MEASUREMENTS OF CAPILLARY DROP OUT IN DIABETIC RETINOPATHY

*Chairs: José Cunha Vaz, Richard Rosen, Carlo Cagini*

**14.33 - Simon Bello** - New methodologies to identify focal capillary closure

**14.40 - Giuseppe Querques** - Morphofunctional analysis of the retina in type 1 diabetic patients without complications after 30 years of disease

**14.47 - Richard Rosen** - Capillary drop-out in diabetic retinopathy

**14.54 - Benedicte Dupas** - Preservation of visual acuity despite significant macular capillary drop out in diabetic retinopathy

**15.01 - José Cunha Vaz** - Capillary dropout and disease severity

**15.08** - Discussion

### 27. VESSEL DENSITY: RELIABILITY AND LIMITATIONS

*Chairs: Alain Gaudric, David Sarraf, José Cunha Vaz, Joseph Carroll*

**15.13 - Ramin Tadayoni, Aude Couturier** - Comparison between capillary perfusion on UWF FA and capillary flow detection of WF SwS OCTA

**15.20 - Nadia K. Waheed** - Quantifying microvascular changes in diabetic eyes

**15.27 - Benedicte Dupas** - Accelerated loss of retinal capillaries in ischemic maculopathy

**15.34 - Richard Rosen** - FAZ metrics or vessel density: what are the best parameters to measure capillary non-perfusion?

**15.41 - Khalil Falavarjani, David Sarraf** - FAZ and macular vascular density after Anti VEGF for CME

**15.48** - Discussion

## 28. QUANTITATIVE ANALYSIS

*Chairs: Richard Rosen, Suqin Yu, Carlo Cagini*

**15.53 - Lisette Smid, Chantal Willems, Mirjam van Velthoven, Koen Vermeer -**

Quantitative analysis of RAP lesion size on OCTA images

**16.00 - Ana Catarina Rodrigues, Diogo Cabral, Telmo Pereira, Hemaxi Narotamo, Marta Vila-Franca, Paulo Rosa, Sandra Barrão, Florence Coscas -** Quantitative automatic analysis of choroidal neovascularization blood flow aspect

**16.07 - Richard Rosen, Srinivas Sadda, Barbara Blodi -** Factors in developing normative OCTA databases

**16.14 - Toco Chui, Richard Rosen, Amani Fawzi, Mahnaz Shahidi, Barbara Blodi -** Image metrics and biomarkers in OCTA imagery

**16.21 -** Discussion

## 29. PEDIATRICS

*Chairs: Xavier Zanlonghi, José M<sup>a</sup> Ruiz Moreno, Ourida Ouhadj, Lejla Vajzovic*

**16.26 - María Alarcón, Bachar Kudsieh, Esther Casado, José M<sup>a</sup> Ruiz Moreno -** Macular and peripapilar vascular changes measured by OCTA in children with optic nerve drusen

**16.33 - Isa Sobral -** OCTA in Amblyopia

**16.40 - Lejla Vajzovic -** Portable Optical Coherence Tomography Angiography: a new tool for evaluating retinal diseases in infants and children

**16.47 - Rachid Chigara, Amine Haddad, Youcef Ouldbouamama, Imadeddine Nabil Taibi, Ourida Ouhadj -** Intravitreal anti-VEGF monotherapy in retinopathy of prematurity management, a case series of our first10 eyes

**16.54 - Camelia Margareta Bogdanici, Marina Cidu, Otilia Obada -** OCT examination for emetropic and amblyopic children

**17.01 - Rita Gama, Joana G. Costa, Rute S. Costa, Catarina Relha, Nuno Eirô -** Megalopapilla: difference between children and adults

**17.08** Discussion

**17.15 - End of the sessions**

# SATURDAY - MORNING

## HALL A

### 8.00 - 8.45 - OPTOVUE SYMPOSIUM IMAGE INTERPRETATION

*Moderator: Bruno Lumbroso*

**Bruno Lumbroso -** Introduction

**Adil El Maftouhi -** OCTA pre and per-acquisition tips: when to dilate the pupil? How to acquire images in the periphery and of the anterior segment? Etc.

**Marco Rispoli -** If it isn't blood flow then what is it? Differentiating hyperreflective materials and suspended particles in motion from Erythrocytes movement

**Alexandra Miere -** D PAR: Rip projection artifacts

**Luca Di Antonio -** Post acquisition image interpretation routine: segmentation check and editing, ruling out artifacts, quantifications, etc.

### 30. ADVANCES IN OCT/OCTA TECHNOLOGY 1

*Chairs: James G. Fujimoto, Ravi Jonnal*

- 8.50 - **Claude Boccara** - Cellular resolution imaging of the eye structures by full field OCT
- 8.57 - **Ravi Jonnal** - Measuring photoreceptor morphology and function with adaptive optics OCT
- 9.04 - **Micheal Pircher** - Micro-Angiography through adaptive optics optical coherence tomography
- 9.11 - **Yoshiaki Yasuno, Shuichi Makita** - Simplified polarization sensitive for simultaneous imaging of RPE and vascular abnormalities
- 9.18 - **James G. Fujimoto** - Advances in speed and resolution in SS-OCT and SD-OCT
- 9.25 - Discussion

### 31. ADVANCES IN OCT/OCTA TECHNOLOGY 2

*Chairs: James G. Fujimoto, Ruikang Wang*

- 9.30 - **Ruikang Wang** - Quantitative imaging of choriocapillaris using swept source OCTA
- 9.37 - **Yoshiaki Yasuno, Shinnosuke Azuma, Deepa Kasaragod** - Segmentation of retinal tissue using polarization sensitive OCT
- 9.44 - **Eric Moulton** - Variable interscan time analysis OCTA for assessing retinal and choriocapillaris vasculature
- 9.51 - **Peter Koch** - A compact full-field OCT device for home-care applications
- 9.58 - **Kenny Tao Yuankai** - Intraoperative OCT
- 10.05 Discussion

#### 10.10 - "Bruno Lumbroso Lecture 2018"

**SrinaVas Satta**

*Chair: Quan Dong Nguyen*

### 32. TECHNOLOGICAL DEVELOPMENTS BY CLINICIANS AND ENGINEERS

*Chairs: James G. Fujimoto, Wolfgang Drexler, Philip J. Rosenfeld*

- 10.30 - Optovue - **Quienyuan Zhou** - AngioVue version 2018.0 Software performance study
- 10.37 - Zeiss - **Mary Durbin** - Practical aspects of artificial intelligence in ophthalmic imaging
- 10.44 - Nidek - **Riccardo Ferraris de Gaspare** - Updates on Nidek OCT, OCT-A and multimodal imaging
- 10.51 - Topcon - **Charles Reisman** - Latest advances in OCT and OCT-Angiography
- 10.58 - Heidelberg Engineering - **Rosa Dolz-Marco** - Visualization of microstructures: resolution and algorithms matter
- 11.05 - Canon - **Ori Zahavi** - State of the art OCTA imaging
- 11.12 - Eidon - **Marco U. Morales** - Besides OCT, confocal technology in retinal imaging
- 11.19 - Optopol - **Arkadiusz Chalecki** - All in one - New OCT standard
- 11.26 - Maculogix - **Gregory Jackson** - Diagnose and treat AMD early

### 33. HISTOLOGICAL VALIDATION OF OCT SIGNATURES IN AMD

*Chairs: Christine A. Curcio, K. Bailey Freund*

- 11.31 - **Christine A. Curcio** - Optimizing tissue recovery, preparation, and microscopy of human donor eyes for imaging-histology correlations in AMD
- 11.38 - **Rosa Dolz-Marco** - Clinicopathologic correlation of geographic atrophy in AMD
- 11.41 - **Daniela Ferrara** - What did we learn about GA from clinicopathologic correlation?
- 11.48 - **Miaoling Li** - Clinicopathologic correlation of aneurysmal type 1 neovascularization (aka PCV) in AMD
- 11.55 - **Belinda C.S. Leong** - RPE migration in AMD

**12.02- Serena Fragiotta** - Eye-tracked OCT identifies the origin of highly reflective cholesterol crystals in non-neovascular AMD

**12.09** - Discussion

### **34. HISTOLOGY WORTH PAYING ATTENTION TO, FOR OCT**

*Chair: Christine A. Curcio*

**12.14- Gerard A. Luty** - Choriocapillaris health and degeneration at different stages of AMD

**12.21 - Dennis M. Dacey** - A connectomics approach to understanding variation in human foveal morphology

**12.28 - Andreas Pollreisz** - Reflective organelles in human RPE visualized via volume electron microscopy

**12.35- Benjamin S. Sajdak** - Imaging-histology correlations in cone-dominated retinas

**12.42** - Discussion

**12.47 - 14.15 - Lunch break**

**12.55 - 13.40 - TOPCON LUNCH SYMPOSIUM**

*(Lunch boxes available for the first 250 attendees)*

## **HALL B**

**8.00 -8.45 - ZEISS SYMPOSIUM**

**OCT-A cases routine to extreme**

*Speakers: Philip J. Rosenfeld, Marion Munk, Giuseppe Querques*

### **35. CONTROVERSIES REGARDING THE NORMAL CIRCULATION**

*Chair: Srinivas Sadda, Joseph Carroll*

**8.50 - David Huang** - Organization and nomenclature for the retinal circulation

**8.57 - David Sarraf** - The retinal capillaries are organized in series.

**9.04 - Srinivas Sadda** - New insights into the retinal circulation revealed by high-resolution OCT-A

**9.11 - Joseph Carroll** - Foveal avascular zone metrics variability in Optical Coherence Tomography Angiography

**9.18** - Discussion

### **36. IMAGING 1**

*Chairs: Carl Glittenberg, Leonardo Mastropasqua, Paolo Lanzetta, Jean-Michel Muratet, Suqin Yu*

**9.23 - Carl Glittenberg** - Fusing Swept Source OCT-A flow data with structural Swept Source OCT data to increase diagnostic quality

**9.30 - Leonardo Mastropasqua** - Widefield swept-source OCT Angiography in diabetic retinopathy

**9.37 - Jean-Michel Muratet** - Oct Angiography and non midiatric confocal retinography

**9.44 - Rishard Rami Weitz** - New recent innovations in the field wide-field retinal imaging

**9.51 - Akihito Uji** - High contrast OCT angiography imaging using image averaging

**9.58 - Bartosz Sikorski** - Biometry and Keratometry OCT in clinical practice

**10.05-** Discussion

## **10.10 - "Bruno Lombroso Lecture 2018"**

**SrinaVas Sadda**

*Chair: Quan Dong Nguyen*

### **37. WIDE FIELD IMAGING**

*Chairs: Paolo Lanzetta, Anat Loewenstein, Ursula Schmidt-Erfurth*

- 10.30 - Daniele Veritti** - Fundus imaging with true-color automated confocal widefield scanner and true-color ultra-widefield retinal camera
- 10.37 - Srinivas Sadda** - Wide-field OCT angiography in diabetic retinopathy
- 10.44** - Discussion

### **38. ARTIFICIAL INTELLIGENCE IN RETINAL IMAGING 1 (INCLUDING OCTA AND OCT)**

*Chairs: Caroline Baumal, Anat Loewenstein*

- 10.49 - Ursula Schmidt-Erfurth** - The future of AI in retina
- 10.56 - Hrvoje Bogunovic** - Fluid and function – an analysis by AI
- 11.03 - Karl Csaky** - Human computational analysis input in machine learning of OCT images
- 11.10 - Sunny Virmani** (*form Google Life Sciences*) - AI in retinal imaging
- 11.17** - Discussion

### **39. ARTIFICIAL INTELLIGENCE IN RETINAL IMAGING 2**

*Chairs: Ursula Schmidt-Erfurth, Paolo Lanzetta, Anat Loewenstein*

- 11.22 - Harald Schnidar** - Dermatology-diagnosis by artificial intelligence
- 11.29 - Bianca S. Gerendas** - Automated diabetes screening
- 11.36 - Ralf Huss** - Digital pathology: the definiens model
- 11.43 - Daniel Rückert** - Digital brain analysis for Alzheimer's disease
- 11.50 - Jens Thygesen** - RetinaLyze: artificial intelligence - Impact on screening and diagnostics now and in the future
- 11.57 - Valentina Sarao** - Artificial intelligence and diabetic retinopathy screening
- 12.04** - Discussion

### **40. RETINAL VESSEL PATTERN AND DENSITY RELIABILITY AND LIMITATIONS**

*Chairs: Alain Gaudric, K. Bailey Freund*

- 12.09 - Michel Paques** - 3D organization of retinal capillary in pigs on confocal microscopy
- 12.16 - David Huang** - What is the right segmentation to isolate the 4 retinal capillary layers?
- 12.23 - Alain Gaudric, Carlo Lavia** - Normal vessel density in the macula, using projection artifact removal
- 12.30 - Matthias Salas** - Role of AO OCTA in the assessment of retinal capillary anatomy
- 12.37 - K. Bailey Freund** - Venous collaterals in sequelae of BRVO
- 12.44 - Mary Durbin** - Repeatability of quantitative measurements of the choriocapillaris based on OCTA
- 12.51 - Valérie Krivosic** - Familial retinal arterial tortuosity
- 12.58** - Discussion

**13.03 - 14.15 - Lunch break**

**HALL C**

### **41. OCT ANGIOGRAPHY AND WHITE DOT SYNDROMES**

*Chair: Albert Augustin, Ciro Tamburrelli*

**8.50 - Albert Augustin** - Update: OCT Angiography and multi-modal imaging in the diagnosis of White Dot-Syndromes

**8.57 - Carreño Ester** - Acute posterior multifocal placoid pigment epitheliopathy and birdshot: multi-modal evaluation with the aim of OCT Angiography

**9.04 - Emiliano Di Carlo** - The role of OCT Angiography in the management of punctate Inner choroidopathy and serpiginous choroiditis

**9.11 - Francesco Pichi** - Multi-modal imaging approach to multiple evanescent White Dot Syndrome

**9.18** - Discussion

## **42. NEURO OPHTHALMOLOGY 2**

*Chairs: Albert Augustin, Amar Ailem, Gilda Cennamo, Luciano Cerulli*

**9.23 - Amar Ailem** - Neuropathies optiques inflammatoires et OCT

**9.30 - Umur Kayabashi** - Novel SD-OCT and OCT-A findings in Alzheimer's, Parkinson's and MS

**9.37 - Gilda Cennamo** - OCTA detects retinal vascular alterations in different phases of Multiple Sclerosis

**9.44 - João Pedro Marques** - Peripapillary and macular neurovascular coupling in dominant Optic Atrophy

**9.51** - Discussion

## **43. MACULAR EDEMA**

*Chairs: Amir Kashani, Michel Paques*

**9.56 - Amir Kashani** - Retinal vascular changes associated with macular edema

**10.03 - Michel Paques** - Photoreceptor misalignment: a common complication of macular edema

**10.10 - Edoardo Midena** - The pathophysiology of early diabetic retinopathy the integration of OCTA and retinal function tests

**10.17 - Marion Munk** - The impact of GCL cysts in DME

**10.24** - Discussion

## **44. SURGERY**

*Chairs: Stanislao Rizzo, Frank Becquet, Jean-François Le Rouic, Gabriele Thumann, Barbara Parolini*

**10.29 - Stanislao Rizzo** - Macular hole: an integrated evaluation with OCT Angiography and microperimetry

**10.36 - Michael Engelbert, Talia Kaden, Belinda Leoung** - Swept Source OCT *En-face* imaging of vitreous reveals topographic relationship of premacular bursa, Cloquet's canal, prevascular vitreous fissures and cisterns

**10.43 - Frank Becquet, Sandra Delaunay, Jean-François Le Rouic, Idriss Badat, Elisabeth Hermouet-Leclerc, Caroline Pousset-Decré, Pascal Peronnet** - Inverted flap technique postoperative features of retinal surface after inverted flap, foveal sparing or free ILM patch technique for macular hole repair

**10.50 - Nesrine Abroug, Imen Ksaa, Wejdane Nabi, Sana Sayadi, Bechir Jelliti, Sana Khochtali, Moncef Khairallah** - Perifoveal vascular changes after successful rhegmatogenous retinal detachment repair: A SS OCT Angiography study

**10.57 - Barbara Parolini** - Possible classification and treatment of traction myopic maculopathy

**11.04 - Gabriele Thumann** - The "Ala Octa" incident: serious retinal toxicities after using a European-wide approved perfluorooctane

**11.11 - Heijan J. Ng, Diederik Feilzer, Ellen C. La Heij, Koenraad A. Vermeer** - Repeatability of vessel density measurement with OCTA in patients after retinal detachment surgery

11.18 - Discussion

## 45. ONCOLOGY

*Chairs: Leonidas Zografos, Michel Puech, Emilio Balestrazzi, Aldo Caporossi*

**11.23 - Leonidas Zografos** - OCT-Angiography guided treatment of irradiation induced maculopathy. Long term results and new treatment planning

**11.30 - Neda Abraham, Karine Hawa, Michel Puech** - Small choroidal pigmented lesions: OCT-A and ultrasound imaging correlation

**11.37 - Sofia Sousa Mano, Filipa Teixeira Joaquim, Prates Canela, Filomena Pinto** - Optical coherence tomography of circumscribed choroidal hemangioma

**11.44 - Sofia Sousa Mano, Raquel Esteves Marques, Ana Fonseca, Fátima Campos Filomena Pinto** - Spectral-domain optical coherence tomography of retinal hamartomas in tuberous sclerosis

11.53 - Discussion

## 46. IMAGING 2

*Chairs: Leonardo Mastropasqua, Paolo Lanzetta, Jean Michel Muratet*

**11.58 - Tianwei Qian, Tianyu Cheng, Hao Zhou, Xiaoli Yu, Suqin Yu, Xun Xu** - Clinical applications of wide-angle OCT Angiography in retinal vascular diseases using montage angiogram model

**12.03 - Pasquale Viggiano, Federica Evangelista, Enrico Borrelli, Leonardo Mastropasqua** - Wide field Optical Coherence Tomography Angiography of the choriocapillaris in healthy eyes

**12.10 - Rishard Rami Weitz** - Time elapsed studies of retinal vasculature using AO SLO - What do they tell us?

**12.17 - Tunde Peto** - Assessing retinal vascular biomarkers for Alzheimer's disease using ultra-widefield imaging

**12.24 - Sobha Sivaprasad** - What is the significance of the peripheral vascular anomalies on ultra-widefield fluorescein angiography

**12.31 - Philipp Roberts** - Imaging of the RPE using widefield and eyetracking

12.38 - Discussion

**12.43 - 14.30 Lunch break**

# HALL D

## 47. CLINICAL OCT ANGIOGRAPHY TODAY

*Chairs: Lee Jampol, Amani Fawzi, Pascal Peronnet, Ugo Menchini*

**8.50 - Lee Jampol, Amani Fawzi, Al Fayed** - Is OCT Angiography a requirement for care of patients at the present moment

**8.57 - Omar Trabelsi** - iOCT in 2018: advantages and limits

**9.04 - Pascal Peronnet, Jean-François Le Rouic** - Two-year management of age-related macular degeneration without Angiography

**9.11 - Ajit K. Thakur** - OCTA- An important diagnosing tool for chorioretinal pathology': a case series from Nepal

9.18 - Discussion

## 48. OCT/OCTA AS AN ENDPOINT FOR CLINICAL TRIALS

*Chairs: Caroline Baumal, Karl Csaky, Philip J. Rosenfeld*

**9.23 - Philip J. Rosenfeld** - OCTA in prospective clinical studies (get all the reading centers involved and investigators)

9.30 - Discussion

## 49. IMAGING OUTCOMES AND ENDPOINTS IN RETINAL VASCULAR DISEASE AND UVEITIS CLINICAL STUDIES

*Chairs: Vishali Gupta, Itay Chowers, Diana V. Do, Quan Dong Nguyen, Tien Ying Wong*

- 9.35 - **Diana V. Do** - OCT outcomes in patients with neovascular AMD treated with Brolucizumab
- 9.42 - **Elisabetta Miserocchi** - Multimodal outcomes for vitreoretinal lymphoma
- 9.49 - **Darius Moshfeghi** - Pseudo geographic atrophy in chronic VEGF-inhibition in macular degeneration
- 9.56 - **Quan Dong Nguyen** - Posterior segment inflammatory outcomes in the STOP-UVEITIS Study
- 10.03 - **Ruwan Silva** - Intra-operative OCT outcomes in patients with maculopathies
- 10.10 - **Vishali Gupta** - Imaging outcomes in ocular tuberculosis
- 10.17 - **Rupesh Agarwal** - Imaging changes in choroid as outcomes of uveitis clinical trials
- 10.24 - Discussion

## 50. IMAGING PEARLS FROM READING CENTERS ON RETINAL DISEASES IN CLINICAL TRIALS

*Moderators: Quan Dong Nguyen, Philip J. Rosenfeld*

- 10.29 - **Barbara Blodi** - Neovascular AMD
- 10.36 - **Nadia K. Waheed** - Geographic atrophy
- 10.43 - **Yasir J. Sepah** - Diabetic retinopathy
- 10.50 - **Sebastian Wolf** - Diabetic macular edema
- 10.57 - **Michael Ip, Srinivas Sadda** - Retinal vein occlusion
- 11.04 - Discussion

## 51. PACHYCHOROID-CSC

*Chairs: K. Bailey Freund, Royce W. S. Chen, Joanna Golebiewska, Irmela Mantel, Maddalena Quaranta El Maftouhi*

- 11.09 - **Royce W. S. Chen** - OCT-Angiographic distinctions between neovascular age-related macular degeneration and central serous retinopathy
- 11.16 - **Joanna Gołębiewska, Joanna Brydak-Godowska, Monika Turczyńska** - Correlation between choroidal neovascularization shown by OCT - Angiography and choroidal thickness in patients with chronic central serous chorioretinopathy
- 11.23 - **Elisabeth Hermouet, Jean-François Le Rouic** - Multimodal imaging of peripapillary pachychoroid syndrome
- 11.30 - **Attila Kovács, Rozsa Degi** - Was this really wet AMD I treated? – case reports of pachychoroid neovasculopathies
- 11.37 - **Khaled Romdhane, Irmela Mantel** - Intravitreal anti-VEGF injections for choroidal neovascularisation complicating central serous chorioretinopathy: treatment outcomes assessed on multimodal imaging including Optical Coherence Tomography Angiography
- 11.44 - **Monia Cheour, Meriem Ouederni, Hela Sassi, Fehmy Nefaa, Mouna Bellaaj, Jihen Brour** - OCT Angiography monitoring of choroidal neovascularisation in chronic central serous chorioretinopathy after anti-VEGF treatment
- 11.51 - **Dmitrii Maltsev, Alexei Kulikov, Jay Chhablani** - Optical coherence tomography-guided identification of leakage point in central serous chorioretinopathy: a base for fluorescein Angiography-free focal laser photocoagulation
- 11.58 - **Rim Maalej, Imène Zhioua Braham, Mejdi Boukari, Hela Kaouel, Ilhem Mili Boussem, Imen Ammous, Raja Zhioua** - Optical Coherence Tomography Angiography in an atypical case of central serous chorioretinopathy complicated by retinal neovascularisation
- 12.05 - **Mark Nelson** - Type 1 occult membrane, pachychoroid spectrum of disease, and CNV



**12.12 - Maddalena Quaranta El Maftouhi** - Follow up of Pachychoroid after PDT in CSC by OCTA

**12.19 - Eleni Nikolopoulou, M. Lorusso, L. Micelli Ferrari, Tommaso Micelli Ferrari** - Changes in choriocapillary flow after treatment in patients with pachychoroid pigment epitheliopathy

**12.26** - Discussion

**12.31 - 14.15 Lunch break**

## HALL E

### 52. QUICK FIRE

*Anita Leys, Martine Mauget Faÿsse, Gabriele Thumann*

**8.50 - Sara Vaz-Pereira, Luís Collaço** - Multimodal imaging of retinal arteriovenous malformation in Wyburn-Mason syndrome

**8.55 - Sandrine Zweifel** - Swept source Optical Coherence Tomography findings in patients with Fabry disease

**9.00 - Kaïs BenAbderrahim** - Corneal lesions caused by desert truffles

**9.05 - Inge Sarens, Julie Jacobs, Anita Leys** - A heavy smoker with bilateral nAMD at age 60

**9.10 - Corinne Dot, Hussam El Chehab, Mathis Thibaud, David Bellocq, Emilie Agard, Laurent Kodjikian** - Multimodal imaging and swept-source OCT-A in choroidal osteoma complicated by quiescent neovascularization: a case study

**9.15 - Hela Sassi, Jihen Brouer, Meriem Ouederni, Asma Hassairi, Monia Cheour** - The use of multimodal imaging in the monitoring of acute posterior multifocal placoid pigment epitheliopathy

**9.20 - Fatiha Karaouat, Rachid Garout** - IRVAN or IRAA Syndrome? That is the question

**9.25 - Nagihan Uğurlu, Ayşe Güzin Taşlıpınar Uzel, İlker Kocamış, Fatma Yülek, Demet Özdaş, Ahmet Şengün, Reyhan Ersoy, Bekir Çakır** - Assessing foveal avascular zone and vessel density in paracentral acute middle maculopathy

**9.30 - Helene Nicolai, Julie Jacobs, Anita Leys** - Correlation of ICGA and OCTA in PCV with pulsating aneurysms before and after PDT

**9.35 - Abdolrahimzadeh Solmaz, Fenicia Vito** - Topical Bromfenac for intraretinal edema associated with exudative age related macular degeneration

**9.40 - Amar Ailem** - Inflammatory optic neuropathies and OCT

### 53. TELANGIECTASIA 2

*Chairs: Daniel Pauleikhoff, Ethan Priel, Thomas Theelen, Leila El Matri, Constantin Pournaras*

**9.45 - Bernardes João, Miguel Raimundo, Cláudia Farinha, Maria da Luz Cachulo, Isabel Pires, João Figueira, Rufino Silva** - Qualitative and quantitative OCT Angiography characterization of macular telangiectasia type 1

**9.52 - Zhao Yue, Yao Jin** - Quantitative OCT Angiography in the evaluation of anti-VEGF treatment effect in macular telangiectasia type 1

**9.59 - Thomas Theelen, Anita de Breuk, Vivian Schreur, Michel Teussink, Carel Hoyng** - Vascular flow changes in macular telangiectasia type 2 in Optical Coherence Tomography Angiography

**10.06 - Elena Pedanova, Dmitry Buryakov** - Macular Telangiectasia 2, retinal angiomatous proliferation (RAP) or branch retinal vein occlusion (BRVO)? Use of multimodal imaging for differential diagnosis

**10.13 - Nina Lutsenko, Olga Rudycheva, Oxana Isakova, Tatyana Kyrylova, Natalya Unguryan** - Our experience of Optical Coherence Tomography-Angiography in the diagnosis of type 2 macular telangiectasia

**10.20 - M. Giray Ersöz, Murat Karacorlu** - Macular telangiectasia type 2: acircularity index and quantitative assessment of foveal avascular zone using Optical Coherence Tomography Angiography

**10.27 - Constantin Pournaras** - OCT-A guided focal photocoagulation of perifoveal telangiectasias

**10.33 - Rania Estawro** - Monitoring macular telangiectasia type 2 by OCTA

**10.39** - Discussion

#### **54. PERIPAPILLARY VASCULARIZATION -GLAUCOMA 3**

*Chairs: Michel Puech, Svetlana Zhukova*

**10.46 - Gyu-Nam Kim, Eun-Ji Lee, Tae-Woo Kim** - Dynamic range of the peripapillary retinal vessel density for detecting glaucomatous visual field damage: comparison with the circumpapillary retinal nerve Fiber layer thickness

**10.53 - Michel Puech, Mourtaza Aimadaly** - OCT-A and radial peripapillary vascularisation in glaucoma: structure and function analysis

**11.00 - Svetlana Zhukova, Tatiana Iureva** - Assessment of the condition of the Zinn-Haller arterial ring vessels as an additional diagnosis criterion for Glaucoma associated with Myopia

**11.07 - Etienne Bodart** - Relationship between intra-ocular pressure and macular and papillary retinal capillary flows

**11.14 - Meriem Ouederni, Insaf Mrad, Hela Sassi, Monia Cheour** - Assessment and variability of the iridocorneal angle: an anterior segment Optical Coherence Tomography study

**11.21** - Discussion

#### **55. OCTA EVALUATION OF THE CHORIOCAPILLARIS**

*Chairs: David Sarraf, Enrico Borrelli, Srinivas Sadda*

**11.26 - David Sarraf** - Pathoanatomical considerations in evaluation of the choriocapillaris and choroid

**11.33 - Jay Duker** - Vista imaging of the choroid in AMD

**11.40 - Enrico Borrelli** - Swept Source OCTA evaluation of the choriocapillaris in AMD

**11.47 - Srinivas Sadda** - Future directions in the evaluation of the choroid

**11.53** - Discussion

#### **56. IMAGING 3**

*Chair: Luca Di Antonio*

**11.58 - Kaushal Vairagi, Pooja Gupta, Amit Pandey, Umesh K Tiwari, Samir K Mondal** - Extended depth of focus and high lateral resolution in Optical Coherence Tomography imaging using deep seated negative axicon

**12.05 - Ahmad Masoomi, Houshang Faghihi, Poursan Fadaka, Masoud Mirghorbani, Mojtaba Abrishami** - Corneal lubrication effects on image quality of OCT Angiography

**12.10** - Discussion

**12.15 - End of the sessions**

**SATURDAY AFTERNOON**

## HALL A

### 57. PATHOPHYSIOLOGICAL MECHANISMS IN THE RETINAL CAPILLARY PLEXUS

*Chairs: David Sarraf, Michel Paques, David Huang*

- 14.15 - **Ramin Tadayoni** - Physiological considerations in understanding ischemia progression in the retinal capillary plexus
- 14.22 - **Michel Paques** - Arterial inflow and venous outflow in the retinal capillary plexus
- 14.29 - **David Sarraf** - The ischemic cascade in the retinal capillary plexus
- 14.36 - **Francesco Pichi** - Cilio artery insufficiency always causes PAMM
- 14.43 - Discussion

### 58. MULLER CELL IN MACULAR DISEASE

*Chair: David Sarraf*

- 14.48 - **Christine A. Curcio** - Muller Cell in macular disease: clinicopathologic concepts and correlations
- 14.55 - **Andrea Govetto** - The Muller Cell and the development of macular tractional disorders: an experimental model of mechanical force transmission
- 15.02 - **Giulia Corradetti** - Muller cell footplates: can they be detected with *En face* OCT?
- 15.09 - **Eduardo Navajas** - Progression of inner retinal dimples after ILM removal
- 15.16 - **David Sarraf** - Summary of the clinical implications of Muller cell maculopathy
- 15.23 - **Jean Pierre Hubschmann** - Microcystic degeneration in CRVO and how it impacts the prognosis in CRVO associated CME
- 15.30 - Discussion

### 59. CORRELATION BETWEEN IMAGING AND MOLECULAR BIOMARKERS

*Chairs: Yasir J. Sepah, Aniruddha Agarwal, Quan Dong Nguyen*

- 15.35 - **Alessandro Invernizzi** - Imaging biomarkers in White dot syndromes
- 15.42 - **Aniruddha Agarwal** - OCT-Angiography for choroiditis
- 15.49 - **Yasir J. Sepah** - Correlation between interleukin levels in the anterior chamber fluid and anatomic response in DME subjects treated with Ranibizumab
- 15.56 - **Itay Chowers** - Fundus autofluorescence patterns and genetics in retinal degenerations
- 16.03 - **Syed Mahmood Shah** - Imaging and molecular biomarkers in retinitis pigmentosa
- 16.10 - **Vinit Mahajan** - Imaging and molecular biomarkers in inherited maculopathies
- 16.17 - Discussion

### 60. CLINICAL APPLICATIONS OF ADAPTIVE OPTICS OPHTHALMOSCOPY – WHAT ARE THE LATEST?

*Chairs: Alfredo Dubra, Don Miller, Quan Dong Nguyen*

- 16.22 - **Robert Zawadzki** - Functional OCT in retinal imaging in basic science
- 16.29 - **Ravi Jonnal** - Human photoreceptor morphology and function revealed with adaptive-optics OCT
- 16.36 - **Alfredo Dubra** - How reflectance and multiple scattering Adaptive Optics Ophthalmoscopy can help to interpret clinical OCT
- 16.43 - **Michael Pircher** - Adaptive Optics Optical Coherence Tomography: from basic research to clinical applications
- 16.50 - **Don Miller** - Imaging the cells that die in glaucoma
- 16.57 - Discussion

**17.38 - End of the sessions**

## HALL B

### 62. CHOROID 1 STUDY BY SS OCT AND OCTA

*Chair: José M<sup>a</sup> Ruiz Moreno*

- 14.15 - Francine Behar-Cohen, Rufino Silva, Luis Arias, Jorge Ruiz-Medrano, Flores Iñaki** - Choroid in CSCR
- 14.22 - Rufino Silva** - Choroid in polypoidal vasculopathy
- 14.29 - Luis Arias** - Choroid in RAP
- 14.36 - Jorge Ruiz-Medrano** - Choroid in atrophic AMD
- 14.43 - José M<sup>a</sup> Ruiz Moreno, Jorge Ruiz-Medrano, Juan Manuel López-Villalta** - Vascular density study by OCTA: age related changes
- 14.50 - Ignacio Flores-Moreno, José M<sup>a</sup> Ruiz Moreno** - Choroid study by SS-OCT and A-OCT in myopic choroidal neovascularization
- 14.57** - Discussion

### 63. OCTA IN GLAUCOMA 1

*Chairs: David Huang, Linda Zangwill, Natalia I. Kuryшева, Richard Rosen, Gabor Hollo*

- 15.02 - David Huang** - Simulating visual field with OCTA
- 15.09 - David Huang** - Localizing Glaucoma damage with OCTA
- 15.16 - Linda Zangwill** - Utility of OCTA from early to late Glaucoma
- 15.23 - Natalia I. Kuryшева** - OCTA in prediction of glaucoma progression
- 15.30 - Richard Rosen** - Quantitative OCTA for Glaucoma assessment
- 15.37 - Gabor Hollo** - Detecting Glaucoma progression with OCTA
- 15.44 - Tomita Goji** - Focal macular ERG and OCTA in early Glaucoma
- 15.51** - Discussion

### 64. OCTA IN GLAUCOMA 2

*Chairs: David Huang, Linda Zangwill, Michel Puech, Natalia I. Kuryшева, Sanja Sefić Kasumović*

- 15.56 - Sanja Sefić Kasumović, Aida Kasumović, Tarik Halimić, Nesina Avdagić** - Assessment of perfused peripapillary capillaries and PCD maps in Glaucoma patients
- 16.03 - Umur Kayabashi** - Detection of pre-perimetric POAG by OCT macular ganglion cell complex analysis and OCT-A of optic nerve fiber layer. A comparison of both methods
- 16.10 - Theodoros Filippopoulos, Sotiria Palioura** - Filtration bleb wound healing monitoring with anterior segment Optical Coherence Tomography (OCT) and OCT Angiography after guarded trabeculectomy
- 16.17 - Lila Hafiz** - Interest of macula exploration in Glaucoma patients
- 16.24 - Zahaf Amine** - OCTA macular vessel density in patients with Primary Open Angle Glaucoma
- 16.28** - Discussion

### 65. TECHNOLOGY

*Chairs: Adrian Podoleanu, Francine Behar-Cohen*

- 16.33 - Adrian Podoleanu, Adrian Bradu, Manuel Marques, Ramona Cernat** - Progress in the fast display of *en-face* OCT images
- 16.40 - Timothe Laforest, Dino Carpentras, Mathieu Künzi, Laura Kowalczyk, Francine Behar-Cohen, Christophe Moser** - Cellular resolution retinal pigment epithelium imaging with transscleral optical phase imaging (TOPI)
- 16.47** - Discussion

**16.52 - End of the sessions**

## HALL C

### 66. OCTA AND BEYOND MULTIMODAL IMAGING IN UVEITIS: INSIGHTS INTO PATHOLOGY FROM TECHNOLOGY

*Chair: Marion Munk*

- 14.15 - Amir Kashani** - Longitudinal analysis of retinal vascular changes in subjects with Uveitis
- 14.22 - Dilraj Grewal** - Deep Learning Algorithm for the Diagnosis of Birdshot Chorioretinitis Using Fundus Photographs
- 14.29 - Francesco Pichi** - Wide-field OCTA analysis of leakage in retinal vasculitis
- 14.36 - Michal Kramer** - Inflammatory chorioretinopathies: what have we learned from OCT-A
- 14.43 - Debra Goldstein** - Imaging in the assessment of disease activity in Birdshot
- 14.50 - Elisabetta Pilotto** - Imaging inflammatory biomarkers: response to different treatments
- 14.57** - Discussion

### 67. HEREDITARY DISORDERS- RARE DISORDERS

*Chairs: Isabelle Meunier, Daniela Bacherini, Luca Di Antonio*

- 15.02 - Isabelle Meunier** - OCT semiology in hereditary retinal dystrophies in early aging
- 15.09 - Daniela Bacherini, Andrea Sodi, Gianni Virgili, Stanislao Rizzo** - OCT Angiography in retinitis pigmentosa
- 15.16 - Luca Di Antonio** - OCTA findings in X-linked retinoschisis
- 15.23** - Discussion

### 68. INFLAMMATION 1

*Chairs: Moncef Khairallah, Vishali Gupta, Anna Wozniak, Martine Mauget-Fajssse, Marion Munk*

- 15.28 - Sourour Zina, Nesrine Abroug, Hajer Ben Amor, Anis Mahmoud, Sonia Zaouali, Sonia Attia, Moncef Khairallah** - Swept-source OCT Angiography and uveitic cystoid macular edema
- 15.33 - Spoorti Krishna Reddy Mandadi, Navya Cherukuri, Bhavik Panchal, Shreyansh Doshi, Avinash Pathengay** - OCT Angiography in post-fever vasculitis
- 15.40 - Catalina Dumitrescu** - Review of OCT and OCTA role in Susac syndrome
- 15.47 - Martine Mauget-Fajssse, Vivien Vasseur, Romain Deschamps** - Acute macular neuropathy: a new risk factor
- 15.54** - Discussion

### 69. INFLAMMATION 2

*Chairs: Moncef Khairallah, Vishali Gupta, Anna Wozniak, Martine Mauget-Fajssse, Marion Munk*

- 15.59 - Imen Ksaa, Sana Khochtali, Marouane Lahderi, Nesrine Abroug, Bechir Jelliti, Sonia Attia, Moncef Khairallah** - Swept source OCTA findings in patients with systemic lupus erythematosus
- 16.06 - Sana Khochtali, Amal Kadri, Sourour Zina, Imen Ksaa, Bechir Jelliti, Sonia Attia, Moncef Khairallah** - Swept source OCT and OCTA in toxoplasmic retinochoroiditis
- 16.13 - Sumit Sharma - Arthi Venkat, Peter K. Kaiser, Ashley Balascoe, Kimberly Baynes, Careen Lowder, Sunil Srivastava** - The use of Swept Source OCTA in patients with uveitis and retinal vasculitis
- 16.20** - Discussion

## HALL D

### 70. ONCOLOGY OPTIC DISC

*Chairs: Leonidas Zografos, Jakub Kaluzny, Cerulli Luciano*

**14.15 - Michel Paques, Sarah Tick** - Radiation retinopathy and choroidopathy: new insights from multimodal imaging

**14.22 - Raffaele Parrozzani** - OCTA peripapillary circulation in radiation retinopathy

**14.29 - Jakub J. Kaluzny, Przemysław Zabel, Martyna Gębska Toloczko, Karolina Suwała, Monika Wilkosc Debczynska, Aleksander Araszkiwicz, Martyna Kaluzna** - OCTA of the optic nerve head and macula in patients with Alzheimer's disease and Glaucoma

**14.36 - Neringa Jurkute Adnan Tufail, Pearse A. Keane, Andrew Webster, Patrick Yu-Wai-Man, Peter M. Maloca** - In vivo vessel volume quantification in Leber's hereditary optic neuropathy (LHON) during the disease conversion and progression

**14.43 - Leonidas Zografos** - Iris ICG-Angiography in the diagnosis and management of anterior segment intra-ocular tumor

**14.50** - Discussion

### 71. MICROVASCULATURE

*Chairs: Vivien Vasseur, Zhao Yue, Monica Varano, Lisa Toto*

**14.55 - Zhao Yue, Sun Guang Li, Yao Jin** - Quantitative OCT Angiography for FAZ measurements in ischemic branch retinal vein occlusion as predictive factors for visual prognosis

**15.02 - Rita Laiginhas, Pedro Pereira Rodrigues, João Chibante-Pedro, Manuel Falcão** - OCT Angiography repeatability - evaluation of three approaches for microvasculature quantification

**15.09 - Marta Alonso Plasencia, Abreu González R, Díaz Rodríguez R, Alberto Pestano M, Gil Hernández MA** - Foveal avascular zone parameters in diabetic eyes and healthy subjects measured by Optical Coherence Tomography Angiography

**15.16 - Dmitrii Maltsev, Alexei Kulikov, Maria Burnasheva** - Personalized analysis of foveal avascular zone with Optical Coherence Tomography Angiography

**15.23** - Discussion

### 72. VASCULAR OCCLUSION

*Chairs: Royce Chen, Alexandra Miere, Mojtaba Abrishami, Kotaro Tsuboi*

**15.28 - Mojtaba Abrishami** - OCT Angiography of retinal artery occlusion

**15.35 - Kotaro Tsuboi** - Retina vasculature and structural changes by projection-resolved OCTA in branch retinal vein occlusion

**15.42 - Alexandra Miere, Florence Coscas, Eric Souied** - Retinal vein occlusion longitudinal Analysis of quantitative biomarkers using Optical Coherence Tomography Angiography

**15.49 - Sen Piyali, Joan Nunez Do Rio, Carlo Di Nunzio, Sobba Sivaprasad** - Optical Coherence Tomography Angiography: association of disorganization of retinal inner layers with quantitative microvascular analysis in central retinal vein occlusion

**15.56** - Discussion

### 73. VASCULAR DISORDERS

*Chairs: Royce Chen, Alexandra Miere, Mojtaba Abrishami*

**16.01 - Royce Chen** - OCT-Angiography in adolescent sickle cell retinopathy

**16.08 - David Cordeiro Sousa, Inês Leal, Susana Moreira, Patrícia Dionísio, Sónia do Vale, Ana S. Silva-Herdade, Miguel ARB Castanho, Luís Abegão Pinto, Carlos Marques-Neves** - OCT-Angiography study of the retinal vascular autonomic response to the Handgrip test

16.15 - Discussion

16.20 - End of the sessions

## HALL E

### 74. RETINAL LEAKAGE

*Chair: José Cunha Vaz*

**14.15 - João Pedro Marques** - OCT-Leakage. A non-invasive alternative to Fluorescein Angiography

**14.22 - José Cunha-Vaz** - OCT-leakage. Role in the characterization of retinal edema

**14.29 - Claudia Farinha** - OCT-Leakage in neovascular AMD. Identification of CNV activity

14.36 - Discussion

### 75. DIABETIC RETINOPATHY 2

*Chairs: Nadia K. Waheed, José M<sup>a</sup> Ruiz Moreno, Caroline Baumal, José Cunha Vaz*

**14.41 - José Cunha Vaz** - Fluocinolone Acetonide: current indications and outcomes

**14.48 - Malvika Arya, Marco Bonini Filho, Carl B. Rebhun, Eric M. Moulton, Byung Kun Lee, A. Yasin Alibhai, Andre J. Witkin, Caroline R. Baumal, Jay S. Duker, James G. Fujimoto, Nadia K. Waheed** - Analysis of relative blood flow speeds in vascular changes of diabetic retinopathy using variable Interscan time analysis OCT Angiography

**14.55 - Akihiro Ishibazawa, Lucas R. De Pretto, A. Yasin Alibhai, Malvika Arya, Osama Soror, Chris Or, Almyr Sabrosa, Caroline Baumal, Andre Witkin, Akitoshi Yoshida, Jay S. Duker, James G. Fujimoto, Nadia K. Waheed** - Arterial or venous contribution for retinal non-perfusion in diabetic retinopathy observed using OCT Angiography

**15.02 - José M<sup>a</sup> Ruiz-Moreno, Javier Iturria, Elena Almazán** - OCTA findings of early neurovascular damage in diabetics patients without diabetic retinopathy and non proliferative diabetic retinopathy

**15.09 - Raja Zhioua, Imène Zhioua Braham** - Analysis of the vitreomacular interface in treatment-naïve patients with diabetic macular edema: Swept-Source Optical Coherence Tomography study

15.16 - Discussion

### 76. DIABETIC RETINOPATHY 3

*Chairs: Nadia K. Waheed, José M<sup>a</sup> Ruiz Moreno, Maria Cristina Savastano*

**15.21 - Imène Zhioua Braham** - OCT-Angiography findings in diabetic patients with and without diabetic macular edema: a comparative study

**15.28 - Gholamali Naderian, Amirhashayar Naderian, Keihan Ghavahi Kashani** - OCT Angiography in Comparison with standard colour fundus photo to diagnose diabetic retinopathy

**15.35 - Hela Kaoual, Imène Zhioua Braham** - Correlation between microvascular abnormalities and severity of diabetic retinopathy using Optical Coherence Tomography Angiography

**15.42 - Marta Alonso Plasencia, Abreu González R, Afonso Rodríguez A, Alberto Pestano M, Gil Hernández MA** - Structure-function correlation using OCT Angiography and microperimetry in diabetic retinopathy

**15.49 - Nihal Hassan** - Correlation between chorioidal thickness and OCT -A in diabetic patients using Triton Swept source OCT

15.56 - Discussion

16.01 - End of the sessions

IMAGE GALLERY AWARDS

*Joe Carroll, Brandon Lujan*