Friday

**Plenary Hall Sessions**

### Macular Degeneration CNV

#### 7.45 – 8.23 - Session Macular Degeneration, CNV 1

- **Session David Sarraf** - Neovascular AMD: Long Term Outcomes with OCT and OCTA
- **SriniVas Sadda** - Long Term Outcomes of Neovascular AMD: Which Lesion Morphology is Best?
- **David Sarraf** - Multilayered PED: Is This the Best Anatomical Outcome of Neovascular AMD?
- **K. Bailey Freund** - Recapitulation of the Choriocapillaris: Can Type 1 Macular NV Provide Nutritional Support to the Outer Retina?

**Discussion (10')**

#### 8.23 – 8.38 - Keynote Lecture

- **Marco Zarbin** - Concepts in the Pathogenesis of Age-Related Macular Degeneration

#### 8.38 – 8.53 - Keynote Lecture

- **Eric Souied** - Pathways from CNV to fibrosis

#### 8.53 – 9.45 - Strategies for Analyzing Choriocapillaris and Choroidal Flow Impairment

- **Richard Spaide** - What is the best way to image choriocapillaris flow with optical coherence tomography angiography? Techniques and pitfalls.
- **Ruikang Wang** - Processing tips and strategies for quantifying choriocapillaris flow deficits
- **Nadia Waheed** - Common pitfalls when imaging the choriocapillaris
- **Enrico Borrelli** - Variables used to characterize choroidal perfusion: what is their relationship?
- **SriniVas Sadda** - Slab selection for visualizing the “choriocapillaris”: could deeper be better?
- **Philip J. Rosenfeld** - How do we define an abnormal choroid?

**Discussion (10')**

#### 9.45 – 10.37 - Choriocapillaris Flow Deficits in Macular Diseases

- **SriniVas Sadda** - Are choriocapillaris flow deficits associated with drusen formation?
- **Philip J. Rosenfeld** - Are choriocapillaris flow deficits associated with the formation and growth of GA (cRORA)
- **David Sarraf** - Are choriocapillaris flow deficits associated with the growth and exudation of MNV
- **Alexandra Miere, Eric Souied** – Are long-term quantitative choriocapillaris flow impairments associated with AMD?
- **Nadia Waheed** - Are macular choriocapillaris flow deficits associated with the severity of diabetic retinopathy?
- **Francesco Pichi** - Are choriocapillaris flow deficits associated with inflammatory conditions

**Discussion (10')**

**CONCLUSION**: Key points and future directions for research in macular degeneration.
10.37 – 10.52 - **Keynote Lecture**  
Richard Spaide - New ideas in imaging the choriocapillaris

10.52 – 12.02 - **Visions of Future by Industry Senior Executives**  
*Chairs: James Fujimoto, Wolfang Drexler, Bruno Lumbroso*

**Optovue** - **Jay Wei**
**Zeiss**
**Nidek**
**Topcon**
**Heidelberg Engineering** -
**Optopol** - **Arkadiusz Chalecki** - Newest OCT developments
**Mocean**
**Novartis** – **G. Panina** - Commitments and pipeline
**Centervue**
**Canon** - **Ori Zahavi**: The future with Canon

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**Friday AFTERNOON**

**Hall A**

**14.00 – 14.15 - Keynote Lecture**  
**Ruikang Wang** - How do we know we’re actually imaging choriocapillaris flow deficits?

**14.15 – 14.30 – Keynote Lecture**  
**Philip J. Rosenfeld** - Changes in the Choroid and Choriocapillaris associated with Aging and Macular Diseases

**Session Imaging 1**

**14.30 – 15.03 - OCTA: research or routine?**  
*Chairs: Yves Salomon Cohen, Quan Dong Nguyen*

**Adil El Mafthoui** - OCTA vs. RNFL and Visual field in Glaucoma
**Aniruddha Agarwal, Quan-Dong Nguyen** - OCTA vs. Fluorescein and ICG angiography in inflammatory conditions
**Gemmy Cheung** - OCTA vs. Multimodal Imaging in Complications of Pathologic Myopia
**Salomon Y Cohen** - OCTA vs. fluorescein angiography for diagnosis and follow-up of CNV in AMD

**Discussion (5’)**

**15.03 – 15.55 - Session Macular Degeneration, CNV 5**

**The Expanded Spectrum of treatment naïve non exudative Macular Neovascularization**  
*Chairs: Giuseppe Querques, Philip J Rosenfeld, Nadia K Waheed*

**Giuseppe Querques** - The Spectrum of Treatment-Naive Subclinical Macular Neovascularization
**Philip J. Rosenfeld** - Natural History of Subclinical non exudative Neovascularization in AMD
**Nadia K. Waheed** - Vascularized drusen in AMD
**Vittorio Capuano** - Quiescent Macular Neovascularization in Geographic Atrophy
Riccardo Sacconi - Quantitative analysis of Quiescent neovascularization using OCT-A
Enrico Borrelli - Quiescent Macular Neovascularization in Pachychoroid disease
Discussion (10')

**15.55 – 17.01 - Session Macular degeneration, CNV 4 Treatment**
*Chairs: Francesco Bandello, Francesco Boscia*

Francesco Viola - OCT/angio OCT
Francesco Viola - Primi risultati con Faricimab (Roche)
Francesco Bandello - Primi risultati con Conbercept
Romano Danesi - Pharmacological properties of intravitreal aVEGF agents: focus on innovative molecules
Francesco Boscia - Brolucizumab: fluid control in wAMD
Stela Vujosevic - wAMD: focus on new evidences in 2019
Francesco Viola - T&E: what to do and what to expect -
Marco Lupidi - Anti-VEGF and PCV: is it still time for PDT?
Discussion (10')

**Session Macular Degeneration, CNV 6**
**17.01 – 17.39 - Defining new vessels imaging and activity biomarkers CNV 4**
*Chairs: Marco Rispoli, David Sarraf*

Luca di Antonio - Choroidal neo vessels: imaging overview
Marco Rispoli - Quantitative vascular density changes in choriocapillaris around CNV after treatment: the dark halo
David Sarraf
K. Bailey Freund - Masqueraders of Type 3 Neovascularization
Discussion (10')

**17.39 – 18.24 - Session Dry Macular degeneration**
*Chairs: Giovanni Staurenghi, Michel Paques*

Giovanni Staurenghi - OCT classification of geographic atrophy
Elisabetta Pilotto - Müller cells and choriocapillaris in the pathogenesis of geographic atrophy secondary to age-related macular degeneration
Michel Paques - Time-lapse imaging of dry AMD
Giovanni Staurenghi - The importance of multimodal imaging to predict geographic atrophy
Sandrine A. Zweifel, C. Haensli - Choriocapillaris flow voids around geographic atrophy in patients with and without Outer Retinal Tubulations, measured with swept-source optical coherence tomography
Discussion (10')

**Friday AFTERNOON**
*Hall B*

**Choroid Disorders Pachychoroid**
**OCTA-histology correlation**
*14.00 – 14.45 - Histological Validation of OCT and OCTA Signatures*  
*Chairs: Christine A. Curcio, K. Bailey Freund*

Chandra Balaratnasingam - OCTA-histology correlation of the macular circulation
Christine A. Curcio - Imaging-histology correlations in non-neovascular AMD
Serena Fragiotta - Hyperreflective crystalline deposits in non-neovascular AMD
K. Bailey Freund - Clinical relevance of non-exudative type 1 neovascularization
Ling Chen - Clinicopathologic correlation of non-exudative type 1 neovascularization
Discussion (10')
14.45 – 15.00 - Keynote Lectures
K. Bailey Freund - Current understanding of Pachychoroid disease

15.00 – 15.45 - The Pachychoroid Disease Spectrum 1
Chairs: K. Bailey Freund, Won Ki Lee

Won Ki Lee - Retinoschisis in eyes with pachychoroid
Gemmy Cheung - Choroidal morphology in pachychoroid disease
Jay Chhablani - Consensus nomenclature for CSCR
K. Bailey Freund - 3D rendering of aneurysmal pachychoroid neovasculopathy
Hideki Koizumi - Ocular biometry in CSC
Discussion (10')

15.45 – 16.09 - The Pachychoroid Disease Spectrum 2
Chair: K. Bailey Freund

Mark Nelson - Exudative Maculopathies – Polymorphic Spectrum of Pachychoroid, Central Serous Chorioretinopathy, and Choroidal Neovascularization (CNV) – Classification, Diagnosis and Treatment
Claire Scemama-Timsit, Vivien Vasseur, Benjamin Wolff, Élise Boulanger-Scemama, Martine Mauguet-Faysse - Type 2 Neovascularization and Pachychoroid Pigment epitheliopathy: a new Association
Marco Lupidi, Daniela Fruttini, Chiara Maria Eandi, Massimo Nicolò, Diogo Cabral, Silvia Tito, Carlo Cagini, Felice Cardillo Piccolino - Chronic Neovascular Central Serous Chorioretinopathy: A Stress/Rest Optical Coherence Tomography Angiography Study
Discussion (5')

16.09 – 16.49 – CSC
Chairs: Ethan Priel, Thomas Theelen, Tok-Han Lim

Thomas Theelen, Hélène Baak, Caroline W. Klaver, Carel B. Hoyng - Accuracy of optical coherence tomography angiography in detecting subretinal neovascularization associated with central serous chorioretinopathy
Tock Han Lim - Multimodal Imaging Correlation for CSCR/Pachychoroid Spectrum
Orly Gal-Or - Choroidal neovascularization complicating Central Serous Chorioretinopathy evaluated by OCT Angiography
Ethan Priel - OCTA in CSCR – New and Multi-Modal Imaging Findings
Giovanni Staurenghi – Color AF Findings in CSCR
Discussion (5')

16.49 – 17.27 - Study of the choroid by OCT and OCT-A
Chair: Jose Maria Ruiz Moreno

Rufino Silva - The choroid in a Caucasian Population with PCV
Luis Arias - Choroid in RAP
Iñaki Flores - The choroid in pachychoroidal epitheliopathy, central serous chorioretinopathy and pachychoroidal neovasculopathy
Jay Chhablani - Study of the choroid by OCT: Choroidal Biomarkers
Discussion (10')

17.27 – 19.01 - Session OCT in inherited retinal dystrophies
Chairs: Martine Mauguet Faysse, Isabelle Meunier

Xavier Zanlonghi, B. Bocquet B, Isabelle Meunier, M. Charif, G. Lenears, C. Deletere - SSBP1 Gene: Multimodal Imaging of Optic Nerve Diseases and Fovea
Sabine Derrien, E. Laumonier, R. Lejoyeux, M. Robert, Vivienne Vasseur, AS Alonso, Martine Mauguet-Faysse - Macular Genesis in Albinism
Diabetic Retinopathy, vascular disorders

14.00 – 14.59 - Session Diabetic Retinopathy 1

**Chairs:** Edoardo Midena, Amir Kashani

- **Edoardo Midena** - Müller cells in diabetes: imaging and liquid biopsy
- **Amir Kashani** - Retinal Vascular Reactivity in Diabetic Retinopathy
- **Edoardo Midena** - OCTA in the treatment of diabetic macular edema: pearls and pitfalls
- **Luisa Friziero** - The fourth retinal capillary plexus in diabetes
- **Ana Rita Santos** - Two-year progression of diabetic retinopathy. A multimodal imaging approach
- **Zhao Yue, Yao Mudi, Tang ShuiJing, Shen Yi, Xu XiangZhang, Yan ZhiPeng, Yao Jin, Jiang Qin** - Evaluation of Optical Coherence Tomography Angiography Macular Quantitative Indicators as Prediction of Diabetic Retinopathy Stages
- **Ana Rita Santos** - Different disease pathway in the initial stages of diabetic retinopathy, identified by multimodal imaging

Discussion (10')

14.59 – 15.51 - Session Diabetic Retinopathy 2

**Classifying Diabetic Retinopathy Severity: Time to go Beyond the ETDRS system**

**Chair:** Amani Fawzi

- **Lee Jampol** - ETDRS: Historical Perspective
- **Lee Jampol** - ETDRS: Current Weaknesses
- **Nadia Waheed** - Wide angle OCTA as a potential tool for improving DR classification
- **Alain Gaudric** - Deep Dive: depth-resolved, wide-angle capillary density in healthy and diabetic eyes
- **Amani Fawzi** - Can we predict DR progression?
- **Ramin Tadayoni** - Intelligent evaluation of diabetic retinopathy

Discussion (10')
15.51 – 16.43 - Session Diabetic Retinopathy 3
Chairs: Sebastian Wolf, Khalil Falavarjani, Miho Nozaki, Sandrine Zweifel, Anna Wozniak

Sebastian Wolf - OCT-A in the diagnosis of early vascular changes in diabetic retinopathy

Khalil Falavarjani - Effect of segmentation error correction on optical coherence tomography angiography measurements in healthy subjects and diabetic macular oedema

Dana Cernohuba - Vessel density and FAZ evaluation in diabetic retinopathy at OCT A

Anna Wozniak - Macular OCT-angiography parameters in prediabetes

Maltsev DS, Kulikov AN, Burnasheva MA, Kazak AA, Chhablani J. - Structural en face optical coherence tomography imaging for identification of leaky microaneurysms in diabetic macular edema

Miho Nozaki, Aoi Kominami, Munenori Yoshida, Yuichiro Ogura - Diabetic macular edema and microaneurysms in deep capillary plexus

Discussion (10')

16.43 – 17.30 - Session Diabetic Retinopathy 4 treatment
Chairs: Edoardo Midena, Khalil Falavarjani, Angelo Minnella, Khalil Falavarjani - Changes in macular non-perfusion after anti-VEGF therapy in DME

Edoardo Midena - Factors affecting functional or anatomic outcomes when treating DME

Silvia Bini - New targets for micropulse laser in diabetic macular edema

Angelo Minnella - Valutazione morfo-funzionale in pazienti con EMD trattati con fluocinolone acetone

Haensli Christof, Fasler Katrin, Zweifel Sandrine A. - Changes of individual Diabetic Retinal Neovascularizations under Treatment with intravitreal Anti-VEGF or Laser using Optical Coherence Tomography Angiography

Martin Flores-Aguilar, Selma Alin Somilleda-Ventura, Dulce Milagros Razo Blanco-Hernández, Virgilio Lima-Gómez - High correlation between total macular thickness and ganglion cell layer thickness in subjects without diabetes and subjects with diabetes without retinopathy

Discussion (5')

Friday AFTERNOON
Hall D

14.00 – 14.47 - Ocular Inflammation, Uveitis
Chair: Moncef Khairallah, Sandrine Zweifel

Xiaoxin Li, Xuan Shi, Yi Cai, Xiangdong Luo, Shutong Liang, Philip Rosenfeld - Hyper-transmission in SD-OCT as a sign to distinguish inflammatory from neovascular lesions in myopic eyes

Moncef Khairallah, Imen Ksiaa, Hager Ben Amor, Sana Khochtali, Riadh Messaoud - Combined swept-source OCT and OCT angiography in the appraisal and management of Behçet retinal vasculitis

Sandrine A. Zweifel, J. Baur, M. Al-Sheikh, K. Fasler - Optical Coherence Tomography Angiography findings in patients with systemic lupus erythematosus

Meng Tian, Christoph Tappeiner, Martin S. Zinkernagel, Sebastian Wolf, Marion R. Munk - Evaluation of vascular changes in posterior uveitis using swept source wide-field optical coherence tomography angiography

Moncef Khairallah, Sourour Zina, Molka Khairallah, Nesrine Abroug, Anis Mahmoud - Combined swept-source OCT and OCT angiography in the appraisal and management of placoid chorioretinopathies
Joel Hanhart, Hanan Nussinovitch, Boaz Shaer Itay Magal, Philip J Hashkes, David Zadok - OCT-angiography detection of a peripapillary CNV not captured by fluorescein angiography in sarcoidosis with severe vitritis

Discussion (5’)


Chair: Albert Augustin

Albert J. Augustin - Multi-modal Imaging and OCT Angiography: what role in the diagnosis of White-Dot Syndromes?

Emiliano Di Carlo - The role of OCT Angiography in the diagnosis and management of White-Dot Syndromes complicated by choroidal neovascularization

Ester Carreno - Multifocal choroiditis with Panuveitis, Serpiginous and Serpiginous-like choroiditis: an OCT Angiography-based approach

Tito Fiore - Multi-modal Imaging and OCT Angiography evaluation of Relentless placoid chorioretinitis

Francesco Pichi - Diagnosis and management of systemic-related choroiditis with the aim of OCT Angiography and Multi-modal Imaging

Michel Puech - OCT-A and pigmented lesions: choroidal vascularization analysis

Discussion (10’)

15.39 – 16.31 - Session: Imaging Outcomes and Endpoints in Retinal Vascular Disease and Uveitis

Chairs: Diana V. Do, Itay Chowers, Quan Dong Nguyen

Yasir J. Sepah - Comparison of Foveal Avascular Zone Measurement using Optical Coherence Tomography Angiography and Fluorescein Angiography

Ruwan Silva - OCT and Adaptive Optics in Solar Maculopathy

Hoang Mai Le - Idiopathic Foveal Hypoplasia: Quantitative Analysis Using Optical Coherence Tomography Angiography

Carolyn K. Pan - OCT in Obstructive Sleep Apnea and Central Serous Chorioretinopathy

Diana V. Do - OCT Outcomes in Eyes Treated with KSI-301

Itay Chowers - OCT Assessment of the Correlation of Response to Treatment with anti-VEGF Compounds Between Fellow Eyes in Diabetic Macular Edema

Discussion (10’)

16.31 – 16.57 - OCT and Surgery 2

Jakub J. Kaluzny, Przemysław Zabel, Martyna Kaluzna, Aleksander Lamkowski, Damian Jaworski - Correlation between micropereimetry and en face OCT in eyes after pars plana vitrectomy for full thickness macular hole


Scupola, A. Greco, G. Volpe, L. Ruggeri, M.A. Blasi - Assessment of the deformation and thickness changes of neuroepithelial layer in the Epiretinal membrane using spectral-domain optical coherence tomography

Discussion (5’)

16.57 – 17.27 - Keynote Lecture

Barbara Parolini - A new way to look at myopic traction maculopathy

Myopia

17.27 – 18.05 - Pathologic Myopia and Myopic Maculopathy. Multimodal study

Chair: Jose Maria Ruiz Moreno

Francine Behar-Cohen - Rôle of MR antagonistes in dome shape macula

Suzanne Yzer - Multimodel imaging on posterior staphyloma
JM Ruiz-Moreno - OCT-A and Pathologic Myopia and Myopic Maculopathy: OCTA in myopic CNV
Jorge Ruiz-Medrano - Myopic maculopathy classification: ATN
Discussion (10')

18.05 – 18.24 - Myopia and Myopic Maculopathy
Chairs: Michel Puech, Svetlana Zhukova
Svetlana Zhukova, Tatiana Iureva - Role of short ciliary arteries in myopic choroidal neovascularization
Jean Francois Le Rouic - From Lacquer’s crack to chorioretinal atrophy. A nine-year follow-up with SD-OCT
Discussion (5')

18.24 – 19.11 - Session Vascular Disorders, blood flow
Chairs: Dmitrii Maltsev, Jay Chhablani, Sandrine Zweifel, Florence Coscas
Dmitrii Maltsev, AN Kulikov, MA Burnasheva, Jay Chhablani - Resolved paracentral acute middle maculopathy lesions in fellow eyes of patients with unilateral retinal vein occlusion
Claudia Acosta, Miguel Gloria, Alejandro Lavaque, Vania Garcia, Evelin Torres, Carlos Miguel, Ángel Rios, Magali Bueno, Juan Manuel, Jiménez Rodrigo Lechuga, Carolina Sardi
Juan Gonzalo Sanchez, Carlos Anibal Restrepo - Relationship between geographic altitude, foveal avascular zone metrics and vascular density values assessed by optical coherence tomography angiography
Wiest Maximilian, Zollinger Lukas, Zweifel Sandrine A. - Changes in Retinal Blood Flow in Study Subjects during Valsalva Maneuver
Maryam Ashraf Khorasani, Abbas Habibi, Pasha Anvari, Sharyar Ghasemizadeh, Khalil Ghasemi Falavarjani - Retinal and optic disc micro vascular changes after acute intraocular pressure elevation in healthy and diabetic patients measured by optical coherence tomography angiography
Nadhini Arumuganathan, Irene Beck, Katrin Fasler, Sandrine Anne Zweifel - Acute and subacute changes in retinal and choroidal blood flow following intravitreal anti-vegf injections
Diogo Cabral, Florence Coscas ,Agnes Glacet-Bernard, Telmo Pereira, Carlos Geraldes, Ana Papoila, Gabriel Coscas, Eric Souied - Biomarkers of peripheral nonperfusion in retinal venous occlusions using Optical Coherence Tomography Angiography
Discussion (5')

SATURDAY

Saturday MORNING
Hall A

7.45 – 8.30 - Hall A: Symposium HEIDELBERG

Vascular Anatomy and Vascular retinal disorders
8.30 – 9.08 - Foveal avascular zone
Chairs: Yali Jia, Toco Chui
Toco Y Chui - Assessment of FAZ enlargement in different stages of DR using en face OCT reflectance and OCTA
Joseph Carroll - Issues in Interpreting FAZ-Based Metrics
Yali Jia - 3D evaluation of foveal ischemia in diabetic retinopathy: method and validation
Amani Fawzi - TBD
Discussion (10')
9.08 – 9.53 - Anatomy and function of retina and capillaries

Chair: Alain Gaudric

Michel Paques - The 3D anatomy of macular capillaries
Yali Jia - Four capillary networks in diabetic retinopathy revealed by wide-field OCTA
Carlo Lavia, Alain Gaudric - Retinal capillary plexuses from the fovea to equator
Amani Fawzi - Differential regulation of the 3 capillary networks, implications in health and diabetes
David Sarraf - Pathoanatomy of the DCP and Associated Clinical Consequences

Discussion (10')

Retinal and Choroidal Flow
9.53 – 10.31 - Retinal Ischemia

Chair: Francesco Bandello

Alain Gaudric - Do Anti-VEGF really recanalize retinal capillaries?
Shoba Sivaprasad - Evaluation of capillary non-perfusion in a multicenter trial
Lee Jampol - DRCR.net - Retinal non-perfusion, perimetry and Anti-VEGF therapy
José Cunha-Vaz - Which is the best approach to proliferative diabetic retinopathy

Discussion (10')

10.31 – 11.37 - Visible light OCT

Chairs: Yali Jia, Hao Zhang

Hao Zhang - OCT oxymetry OCT oximetry (rat and human)
Vivek J. Srinivasan - OCT oxymetry
Ji Yi - OCT oxymetry
Yali Jia - Visible-light OCT angiography and oximetry in rat retina
Bernhard Baumann - Visible-light OCT
Marinko Sarunic - Visible light sensorless adaptive optics for multi-modality retinal imaging
Shuliang Jiao - Visible-light OCT-based multimodal retinal imaging
Hiroshi Ishikawa - OCT oximetry (clinical data)

Discussion (10')

11.37 – 11.52 - Keynote Lecture

Quan Dong Nguyen - Advanced Ocular Imaging in the Management of Uveitis

Imaging Wide Field Imaging
11.52 – 12.44 - 31 – 52' - Quantitative Strategies in the Evaluation of Retinal Disease using OCT/OCTA and Ultra-Wide Field Based Platforms

Chairs: David Sarraf, Justis Ehlers

Sumit Sharma - Higher Order OCT Characterization and Quantitative Feature Extraction in Diabetic Macular Edema
Justis Ehlers - Quantitative UWFA in Diabetic Eye Disease: Opportunities for New Assessment of Disease Activity
Katherine Talcott - Macular Ellipsoid Zone Integrity Quantification in Retinal Diseases
Daniel Martin - Challenges in Clinical Trials with Novel Quantification Strategies and Emerging Imaging Modalities
Francesco Pichi - Quantitative analysis of choroidal granulomas using swept source OCTA --
Sunil Srivastava - Quantitative Imaging in Uveitis

Discussion (10')

12.50 – 13.30 - Hall A: Lunch Symposium TOPCON
Saturday MORNING
Hall B

**OCT and surgery**
8.30 – 9.22 - OCT and Surgery 1
Chair: Stanislao Rizzo

Stanislao Rizzo - Intraoperative OCT: a necessary tool for the right decision?
Francesco Faraldi - Epiretinal macular membranes: the role of multimodal imaging.
Paolo Lanzetta - OCT and multimodal imaging in macular hole surgery: are there further prognostic parameters?
Francesco Boscia - OCT and multimodal imaging In Retinal Detachment
Cesare Mariotti - AMD complications: the role of multimodal imaging in surgical decision-making
Daniela Bacherini - Clinical case discussion: what is your OCT-based surgical choice?
Discussion (10')

9.22 – 10.14 - Advances in imaging technology and methods
Chair: James Fujimoto, Robert J. Zawadzki

Thomas Ach - Fundus autofluorescence: improved methods for advanced emission signal analysis
Michael Pircher - Extending the field of view in AO-OCT
Robert J. Zawadzki - Progress on cellular resolution light evoked retinal ophthalmology (aka. optoretinography). 
Kenny Yankai Tao - Multimodality handheld imaging technologies for point-of-care ophthalmic OCT and OCT-A
Eric Moult - Methods for analyzing choriocapillary impairment with OCTA
James Fujimoto - Advances in imaging speed and resolution using SS-OCT and SD-OCT
Discussion (10')

10.14 – 11.01 - Artificial Intelligence in OCT and OCTA
Chair: Yali Jia, Xincheng Yao

Aaron Lee - OCT
Hiroshi Ishikawa - AI in Glaucoma: Clinical Applications
Marinko Sarunic - Deep Learning for OCT Angiography in Diabetic Retinopathy
Xincheng Yao - OCTA Machine learning based OCTA classification of retinopathies
Linda Zangwill - AI in Glaucoma
Yali Jia - Distinguishing capillary dropout from signal reduction artifacts on OCTA
Discussion (5')

**Artificial Intelligence 2**

11.01 – 11.41 - The state-of-the-art in artificial intelligence
Chair: Ursula Schmidt Erfurth, Paolo Lanzetta

Michael Abramoff - Why does healthcare need AI? Big data and resource optimization
Ursula Schmidt-Erfurth - The dawn of artificial intelligence: An introduction to AI, machine learning, deep learning, some mentioning on applications in ophthalmology.
Bianca Gerendas - Machine learning applications to doctor-patient interactions
Daniele Veritti, Paolo Lanzetta - Behind the mask: machine morality. Ethics, moral and legal liability on AI in health care
Hrvoje Bogunovic - Breaking the black box: a responsible innovation of artificial intelligence
Discussion (5')

**Artificial Intelligence 3**

11.41 – 12.00 - Deep Learning Artificial Intelligence
Chair: Guotong Xie, Min Wang

Guotong Xie, Chuanfeng Lv, Min Wang, Qienyuan Zhou, Jay Wei, Xinghai Sun - Multiple Retinal Lesion Detection and Quantification for OCT Screening Based on Deep Learning Methods

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**CONFERENCES SECRETARIAT: A.P. MEETINGS SRL**
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Min Wang, Lilong Wang, Qienyuan Zhou, Yulia Wolfson, Xinghuai Sun, Chuanfeng Lv, Guotong Xie, Jay Wei - A study of OCT artificial intelligence screening method for ocular fundus diseases

Discussion (5’)

12.00 – 12.47 - Artificial Intelligence 4

Chairs: Marion Munk, Shin Kadomoto, Karl Csaky, Daniel Pauleikof

Marion Munk - Extraction of patient specific information in the wild
Karl Csaky - How Human Computational Analysis Input in Machine Learning Allows for Improved Detection of OCT Structures in Intermediate AMD
Shin Kadomoto, Akihito Uji, Yuki Muraoka, Makihira Tomoyuki, and Akitaka Tsujikawa - The Impact of Deep Learning Reconstruction on OCT Angiography Image
Benjamin Y. Xu - Artificial Intelligence and Automated Analysis of Anterior Segment OCT Images
Yasmine Derradji, Agata Mosinska, Emy Valk Bouman, Sandro De Zanet, Carlos Ciller, Irmela Mantel - Artificial Intelligence and Geographic Atrophy Analysis in AMD
Daniel Pauleikof - AI OCT-analysis and OCTA-quantification to differentiate CNV in exudative AMD
Discussion (5’)

12.50 – 13.35 - Hall B: Lunch Symposium MILOFTALMICA (100 BOX LUNCH)

9.15 – 10.21 - Session Imaging 2

Chairs: Theodore Leng, Michel Paques, Francine Behar Cohen, Jean Michel Muratet
Wolfgang Drexler - Towards ophthalmic spectral and swept source OCT on a chip at 840 nm
Theodore Leng - Multimodal high-resolution imaging of epiretinal membranes including adaptive optics
Michel Paques - Organization of macular capillaries: A 3D histology study
Jean Michel Muratet - Oct Angiography and non mydriatic confocal retinography
Francine Behar Cohen - Les cellules glaires de la macula
Francine Behar Cohen - L'imagerie in vivo des cellules de l'épithélium pigmentaire chez l'homme par technique TOPI
Giovanni Staurenghi - The differences between Sd-OCT and SS OCT
Timur Shaimov, Venera Shaimova, Alexey Galin, Ruslan Shaimov, Alexey Fomin - New OCT technique: from the center to the periphery
Discussion (10’)

Saturday MORNING

Hall C

Imaging

8.30 – 9.15 – 38 – 45’ - Session Imaging 1
The role of OCT-A in multimodal imaging
Chair: Giovanni Staurenghi

Mariano Cozzi
Marco Pellegrini
Alessandro Invernizzi
Anna Paola Salvetti
Giovanni Staurenghi

9.15 – 10.21 - Session Imaging 2

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Wolfgang Drexler - Towards ophthalmic spectral and swept source OCT on a chip at 840 nm
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Giovanni Staurenghi - The differences between Sd-OCT and SS OCT
Timur Shaimov, Venera Shaimova, Alexey Galin, Ruslan Shaimov, Alexey Fomin - New OCT technique: from the center to the periphery
Discussion (10’)

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Do you think all the OCTA are the same? Comparison of OCT-A images between devices

Brandon Lujan - Why do your OCT-A images look better than ours
Giovanni Staurenghi - Do you think all the OCT-A are the same?
Marion Munk - Qualitative and quantitative differences of OCTA devices from a reading center perspective
Joseph Carroll - Comparing FAZ metrics from different OCT-A devices
SriniVas Sadda - Quantitative OCT-A metrics from different OCT-A instruments

Discussion (10')

Is FA still useful in OCTA era? Session Imaging

Amani Fawzi - Diabetic Retinopathy: OCTA or FA?
David Sarraf - New diseases discovered by OCTA – PAMM
Maria Cristina Savastano - NV incidence in CSC by OCTA
Stanislao Rizzo - OCTA in epiretinal membrane removal: predictive information?
Giuseppe Querques - In which diseases is it still necessary to use FA?

Discussion (10')

Saturday MORNING

Hall D

Session Macular Degeneration, CNV

8.30 – 9.08 - Session Macular Degeneration, CNV 2

Anat Loewenstein - Early detection and home monitoring of macular degeneration
Amir Kashani - RPE Monolayer Transplantation for Severe Vision Loss Associated with Geographic Atrophy and Advanced Dry Age Related Macular Degeneration
Aude Ambresin - Reliability of SDOCT compared to angiography in the classification of choroidal neovascularization (CNV) subtypes due to wet AMD
Anat Loewenstein - Slow release devices for the management of AMD

Discussion (10')

9.08 – 9.53 - Session Macular degeneration, CNV 3

Chairs: Min Wang, Philip J. Rosenfeld, Sylvia Nghiem Buffet

Philip J. Rosenfeld - A Comparison Study of Polypoidal Choroidal Vasculopathy Imaged with Indocyanine Green Angiography and Swept Source OCT Angiography
Irmela Mantel - Determining complete atrophy on SD-OCT using a deep learning algorithm
Min Wang - Evaluating neovascularization with swept source OCT
Sylvia Nghiem Buffet - OCT angiography perpapillary vessel perfusion density in wet AMD patients with repeated anti-VEGF injections

Lisette M. Smid, Koenraad A. Vermeer, King T. Wong, José P. Martinez, Mirjam E.J. van Velthoven - Observer agreement for detection of OCT-A characteristics associated with type 3 neovascularization

Discussion (10')

9.53 – 10.12 - Macular Degeneration, CNV

Quiescent Macular Neovascularization

Donato Colantuono, Alexandra Miere, Vittorio Capuano, Riccardo Sacconi, Enrico Borrelli, Giuseppe Querques - Eric Souied - Quantitative deep capillary plexus analysis in optical coherence tomography angiography: quiescent neovascularization versus intermediate and neovascular AMD
Rita Serra, Florence Coscas, Antonio Pinna, Diogo Cabral, Gabriel Coscas, Eric H Souied - Quantitative optical coherence tomography angiography features of treatment-naïve quiescent choroidal neovascularization in age-related macular degeneration

Discussion (5’)

10.12 – 11.00  Role of Centralized Reading Amidst the Emergence of Artificial Intelligence – A Panel Discussion

Chairs: Quan Dong Nguyen, Syed Mahmood Shah

Barbara Blodi
Michael Ip, Srinivas Sadda
Brandon Lujan
Yasir J. Sepah
Nadia Waheed
Sebastian Wolf

Saturday MORNING
Hall E

8.30 – 10.25 - Quick Fire Session

Chairs: Anita Leys, Martine Maugat Faysse, Gabriele Thumann

Iannis Giannakis - Management of late occurrence of fingolimod associated macula oedema (FAME)

Francoise Belloir Furet - Dépistage de la sténose carotidienne et prévention des AVC par l’Angio Oct

Evgeny Gelman, David Zadok, Joel Hanhart - Not all symptomatic CNVs leak

Marina Banteka, Beckie MacPhee, Annegret Dahlmann-Noor, Thomas Dhanes - Octa in probable paediatric ocular sarcoidosis

Robert Steigerwaite - A case of paracentral acute middle maculopathy (PAMM) treated by prostaglandin E1

Neda Abraham, Karine Hawa - Case report: Use of OCT-A in case of naevus becoming melanoma

Nesrine Abroug, Molka Khairallah, Tarek Dridi, Wejdane Nebi, Bechir Jelliti, Sana Khochtali, Moncef Khairallah - Swept-source OCT angiography in tubercular retinal vasculitis

Amal Kadri, Imen Ksiaa, Molka Khairallah, Hager Ben Amor, Sonia Attia, Sana Khochtali, Moncef Khairallah - Swept-source OCT angiography may show chooriocapillaris flow reduction in typical Multiple Evanescent White Dot Syndrom

Imen Ksiaa, Safa Ben Aoun, Molka Khairallah, Sourour Zina, Sihem Meddeb, Sana Khochtali - Multimodal imaging of unilateral acute maculopathy related to hand, foot, and mouth disease

Sana Khochtali, Rim Kmiha, Maroua Rhomdhane, Jihene Nemria, Zohra Tritar, Bechir Jelliti, Moncef Khairallah - Swept-source OCT and OCT angiography in Purtscher retinopathy: a case report

Hager Ben Amor, Amal Kadri, Imen Ksiaa, Mosaab Mefteh, Sonia Attia, Sana Khochtali, Moncef Khairallah - Swept-source OCT and OCT angiography in acute VKH disease

Swept-source OCT and OCT angiography in punctate inner choroidopathy

Sana Khochtali, Amal Kadri, Sourour Zina, Molka Khairallah, Ofa Haj Taher, Sonia Attia, Moncef Khairallah - Swept-source OCT and OCT angiography in punctate inner choroidopathy

Nesrine Abroug, Wejdane Nabi, Mohamed Ali Gargouri, Kais Ben Abderrahim, Bechir Jelliti, Emna Saifi, Moncef Khairallah - Swept-source OCT and OCT angiography in posterior microphthalmos

Imen Ksiaa, Safa Ben Aoun, Kais Ben Abderrahim, Hager Ben Amor, Bechir Jelliti, Sana Khochtali, Moncef Khairallah - Swept-source OCT in the follow-up of patients with chronic VKH disease

Vasilieia Chatzistergiou, I Papasavvas, JA. Pournaras, J Vaudaux, A. Ambresin - Characteristics of foveal hypoplasia on OCTA

Ali Akbar Saber Moghadam, Hamid Jafarzadeh, Mojtaba Abrishami - Quantifying Micravascular and Structural Macular Changes in Active Thyroid-Associated Ophthalmopathy

Baur Joel, Wiest Maximilian, Stemmle J., Zweifel Sandrine A. - OCT-Angiography in Patients with Popper’s Maculopathy (PM)

Fatiha Karaouat, Rachid Garout - When therapeutics complicate a clinical situation

Khaled El Matri, Yousra Falfoal, Asma Hassairi, Rim Bouraoui, Ahmed Chebil, Leila El Matri - Swept source OCT Angiography in aneurysmal type 1 neovascularization

Khaled El Matri, Yousra Falfoal, Asma Hassairi, Issam Elleuch, Nebras Chaker, Leila El Matri - OCT Angiography of the choriocapillaris in Retinitis Pigmentosa


Robert D Steigerwalt Jr., Antonella Pascarella, Mauro De Angelis, Francesco Ciucci, Francesco Gaudenzi - Ultra-Low-Molecular-Weight Heparin, Fondaparinux, in Retinal Vein Occlusions

Kais Benabderrahim, Rahma Mesfar, Amira Trigui, Jamel Feki - Anterior Segment Optical Coherence Tomography in Anterior Scleritis

Kais Benabderrahim, Rahma Mesfar - Anterior Segment Optical Coherence Tomography in the follow up of Corneal Hypersensitivity Reaction

10.25 – 11.12 - Session Macular Degeneration

Chairs: Florence Coscas, Jakob Siedeckli, Giuseppe Querques, Leila El Matri, Claudio Furino

Lutsenko Nina, Rudycheva Olga, Isakova O., Krylyova T., Unguryan N, Yatsun A. - Modern capabilities of OCT-angiography in definition of diagnostic signs of retinal angiomatous proliferation

Jakob Siedeckli, Cheryl Fischer, Benedikt Schworm, Karsten Kortüm, Ricarda Schumann, Armin Wolf, Siegfried G. Priglinger - Impact of Sub-Retinal Fluid on the Long-Term Incidence of Macular Atrophy in Neovascular Age-related Macular Degeneration in anti-VEGF Treat & Extend Regimen

Maria Oliva Grassi, Claudio Furino, Nicola Recchimurzo, Giovanni Alessio - Pre-choroidal cleft in neovascular AMD: OCT and OCTA analysis during anti-VEGF treatment

Florence Coscas, Diogo Cabral, Carlos Geraldes, Ana Papoila, Gabriel Coscas, Marco Lupidi, Salomon Yves Cohen, Eric Souied - Quantitative Optical Coherence Tomography Angiography Biomarkers in a Treat-and-Extend Dosing Regimen: Clinical Validation in Treatment Naïve Neovascular Age-Related Macular Degeneration


Khaled El Matri, Yousra Falfoal, Ahmed Chebil, Zakaria Dekli, Rim Bouraoui, Leila El Matri - OCT Angiography in exudative AMD: Comparison between type 1 and type 2 CNV.

Discussion (5')

11.12 – 11.55 - Session Macular Degeneration CNV 8

Chairs: Rufino Silva, Giuseppe Querques

Giuseppe Querques - OCTA in type 3 macular neovascularization.

Rufino Silva - Polypoidal choroidal neovascularization in a Caucasian Population

Maria Luz Cachulo - Natural History of Quiescent Choroidal Neovascularization

Joao Pedro Marques - OCT-A metrics can predict early functional improvement in exudative AMD

Discussion (5')
Saturday AFTERNOON
Hall A

14.00 – 14.45 - Wide-field imaging
*Chairs:* Ursula Schmidt Erfurth, Paolo Lanzetta

**Julia Hafner** - Is the periphery relevant in staging diabetic retinopathy?
**Andreas Pollreisz** - Wide-field OCT-A imaging
**Amani Fawzi** - Which parameters are relevant in OCT-A wide-field imaging
**Lee Jampol** - Does anti-VEGF therapy improve the diabetic retinopathy score
**Valentina Sarao, Paolo Lanzetta** - How does wide-field imaging work in the clinical practice
**Ruikang Wang** - Ultrawide OCT to reach peripheral retina
**Jean Francois Korobelnik** - Comparison of wide field OCT-A and wide field color images in the screening of diabetic retinopathy

Discussion (10’)

### Glaucoma

14.45 – 15.46 - Glaucoma
*Chair:* Linda Zangwill

**Yali Jia** - Can OCT angiography replace visual field in glaucoma evaluation?
**Richard Rosen** - Parapapillary retinal and choroidal vascularity in glaucoma
**Harsha Rao** - OCTA in angle closure glaucoma: an Indian experience
**Linda Zangwill** - OCTA in Glaucoma Management: Opportunities and Challenges
**Natalia Kurisheva** - Does OCTA help in detection of glaucoma progression?
**Kyung Rim Sung** - Effect of trabeculectomy on peripapillary and macular microcirculation
**Michel Puech** - Correlation between structure and function with OCTA and electrophysiology

Discussion (5’)

15.46 – 16.24 - Glaucoma
*Chairs:* Linda Zangwill, Michel Puech

**Michel Puech, Mourtaza Aimadaly** - OCT-A of radial peripapillary vascularization and Pattern ERG in case of glaucoma patients
**Natalia Kurisheva** - Use of OCT-A in glaucoma
**Michel Puech, Charlotte Sevin, Marie Julie Bovis** - Anterior segment OCT and anterior iris root insertion in case of narrow angle

Discussion (5’)

16.24 – 16.43 - Glaucoma

**Benedetto Falsini** - Elettrofisiologia nel glaucoma
**Rachid Garout, Fatiha Karaouat** - Glaucoma and OCTA: the beginnings of a promising exploration

Discussion (5’)

16.43 – 17.35 - Definition and standardization of qualitative and quantitative OCT-A metrics
*Chair:* Marion Munk

**Dimitra Skondra** - Nomenclature and definitions of qualitative OCTA parameters
**Stela Vujosevic** - Nomenclature and discrepancies of quantitative OCT-A parameters
**Amir Kashani** - Which metrics- and when? Qualitative and quantitative OCTA metrics in retinal vascular diseases for disease activity, severity and progression
**Grace Richter** - Which metrics -and when? Qualitative and quantitative OCT metrics in glaucoma
**Francesco Pichi** - Differences and discrepancies of qualitative and quantitative parameters in inflammatory and non-inflammatory retinal vascular diseases
**Marion Munk** - Challenges of OCTA parameters in clinical trials

Discussion (10’)

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Saturday AFTERNOON
Hall B

14.00 – 15.03 - Technological Developments by Clinicians and Engineers
Chairs: Wolfgang Drexler, Philip J. Rosenfeld

Optovue - Qienyuan Zhou
Zeiss
Nidek
Topcon
Heidelberg Engineering
Optopol - Arkadiusz Chalecki
Mocean
Centervue
Canon - Ori Zahavi

Optic Nerve, Neuro Ophthalmology
15.03 – 15.55 - Optic Nerve
Chairs: Joanna Golebiewska, Ourida Ouhadj

Joanna Gołębiewska, Agnieszka Oleszczuk, Joanna Brydak-Godowska - Optical coherence tomography angiography of the peripapillary retina and superficial retinal plexus in optic disc drusen
Umur Kayabasi - Macular Ganglion Cell Analysis in Neurodegenerative Diseases. SD-OCT and OCT-A. findings in Methanol Optic Neuropathy
Rita Gama, Rute Sousa da Costa, Tânia Nom, Catarina Relha, Fábio Nascimento, Sylvia Gaspar, Carina Esteves - Differences of optic discs parameters between children and adults- An optical coherence tomography analysis
Umur Kayabasi - OCT-A. of peripapillary vessel density and retinal perfusion in compressive lesions of the optic nerves
Etienne Bodart - Clinical study of macular capillary densities in optical neuropathies
Lydia Merabtene, Ourida Ouhadj - OCT in functionnal explorations of inflammatory optic neuropathy
Discussion (10')

15.55 – 16.54 - Neuro degenerative Disorders
Chair: Albert J. Augustin

Albert J. Augustin - OCT Angiography and Multimodal Imaging in neuro-ophthalmology - Introduction
Richard Rosen - Papilledema and Pseudotumor cerebri: what role for OCT Angiography?
Umur Kayabasi - Analysis of optic disc and retinal perfusion with OCT Angiography in neurodegenerative disease
Marco Lupidi - The role of OCT and OCT Angiography in Leber’s Hereditary Optic Neuropathy
Gilda Cennamo - Assessment of optic disc perfusion in ischemic optic neuropathy
Umur Kayabasi - Correlation of retinal plaques with inner foveal thickness measurements in Alzheimer’s (SD-OCT study)
Leila El Matri - OCT Angiography findings in multiple sclerosis
Discussion (10')

16.54 – 17.46 - Angio-OCT and En Face OCT in Neuro-Ophthalmic Diseases
Chairs: Y. Joyce Liao, Randy Kardon

Heather Moss - OCT Imaging of Papilledema
Randy Kardon - OCT Angiography in Neuro-ophthalmic Diseases
Y. Joyce Liao - OCT and OCT Angiography Imaging of Optic Disc Drusen
Eric Gaier - OCT Angiography Findings in Ischemic Optic Neuropathy
Fiona Costello - OCT and OCTA in Multiple Sclerosis

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Andrew Lee - OCT in Space

Discussion (10’)

17.46 – 17.19 - Other retinal Disorders, oncology
Chair: Leonidas Zografos

Maria Grazia Sammarco, Andrea Scupola, Monica Maria Pagliara, Maria Antonietta Blasi - Multimodal Imaging of Intraocular Tumors

Ouirida Ouhadj, Merriem Benmeriem, Lydia Merabtene, Amine Haddad, Mahfoud Belabdellouahab - Intravitreal injection of Melphalan and Retinoblastoma

Gabriela Grimaldi, Ranjan Rajendram, Catherine Egan - Multimodal longitudinal imaging features of a case of bilateral neoplastic serous macular detachment

Marco Pellegrini - EFI-OCTA nello studio della retinopatia da radiazioni

Discussion (5’)

Saturday AFTERNOON
Hall C

14.00 – 14.52 - OCT Anterior segment
Chair: Michel Puech

Karine Hawa, Neda Abraham - Use of OCT Casia 2 for lens equator analysis: a new tool for ELP and IOI calculation

Michel Puech - Use of OCT Casia 2 for anterior and posterior lens curvature measurement

Christophe Baudouin, Emmanuelle Brasnu - OCT-A and ocular surface analysis

Neda Abraham, Karine Hawa - OCT-A of the iris

Dan Reinstein, Marine Gobbe - Corneal epithelial mapping and keratoconus diagnosis

Adil El Maftouhi - Epithelium mapping and Dry eyes

Discussion (10’)

14.52 – 16.00 - Session Imaging 7
Chairs: Ourida Ouhhadj, Xavier Zanlonghi, Mojtaba Abrishami, Ioannis P. Theocharis

Amira Hamzaoui, Ourida Ouhadj - Discordant OCT results Vs GCC: what to do? Which retain?

Gabriela Grimaldi, Ranjan Rajendram, Angela Rees, Catherine Egan - Retinal findings in patients with sickle cell retinopathy evaluated with colour ultra-wide field retinography and optical coherence tomography angiography

Marine Sourdril, Xavier Zanlonghi, Tanguy Bizeau, Chloé Werner, Anais Werner, Nadja Rousseau - 100 OCT HRA consecutive in children under 5 years old with rare disease

Mojtaba Abrishami - Effects of Fatigue on Image Quality of Optical Coherence Tomography Angiography


Xincheng Yao, Taeyoon Son, Minhaj Alam, Jennifer I. Lim, and Devrim Toslak - Near infrared OCT oximetry and geometric feature analysis guided artery-vein classification in OCTA

Xincheng Yao, Taeyoon Son, Tae-Hoon Kim - Functional OCT monitoring of retinal neurovascular response and hyaloid vascular regression in wild-type and retinal degeneration mice

Mojtaba Abrishami - Multimodal Imaging in Posterior Microphthalmos

Ioannis P. Theocharis - A Structural OCT-based unifying concept of the etiology of macula disease

Discussion (5’)

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14.00 – 15.10 – Young Ophthalmologists Retinal Imaging Society (YORIS)

*Pupil vs teacher*

**Chair:** Enrico Borrelli, Daniela Bacherini, Rodolfo Mastropasqua

**Mariacristina Savastano vs Marco Rispoli**
* Dark Halo

**Marco Lupidi vs Florence Coscas**
* Neovascular AMD: OCTA is enough in the diagnosis and treatment • There is still place for dye angiography in neovascular AMD

**Vittorio Capuano vs Giuseppe Querques**
* Quiescent neovascularization: OCTA is fundamental for their diagnosis • Structural OCT is a useful tool for the identification of quiescent neovascularizations

**Adrian Au vs David Sarraf**
* The importance of OCTA in retinal vein occlusions • Don’t forget the structural OCT

**Riccardo Sacconi vs Francesco Bandello**
* Fundus autofluorescence is important for the prognosis of eyes with GA • OCTA is important for the prognosis of eyes with GA

**Daniele Veritti vs Paolo Lanzetta**
* Small gauge vitrectomy: is there a real difference between 27 and 25? Yes/No

**Marco Nassisi vs SriniVas Sadda**
* OCTA best predicts the progression of intermediate AMD eyes • Structural OCT is the most important tool to predict the progression of eyes with intermediate AMD

*Image gallery Joe Carroll, Brandon Lujan*