



IC^{OR} 2021

9^o International Congress on OCT
and OCT angiography in Rome

SPECIAL EVENT
FLORetina
LIVE SURGERY AND SYMPOSIA

December
17 and 18, 2021
Rome - Cavalieri
Congress Center

Preliminary Program 1.0 July 31st, 2021 - FRIDAY

IC^{OR} Hall

FLORetina Hall

BELLE ARTI HALL

CARAVAGGIO HALL

NON EXUDATIVE MNV

Chair: Eric Souied

- 8:00 **Nadia Waheed** - Vascularized drusen and long term follow up
8:07 **Giuseppe Querques** - Incidence and nature of neovascularization in the fellow eye of patients with exudative Type 3 MNV: a long term analysis in the era of advanced
8:14 **Eric Souied** - Asymptomatic CNV in the fellow eye
8:21 **Alexandra Miere** - Nascent Type 3
8:28 Discussion

NEOVASCULAR VS EXUDATIVE AMD - IS THIS IMPORTANT FOR FUTURE THERAPIES?

Chair: Daniel Pauleikhoff

- 8:38 **David Sarraf** - Spectrum of exudative non-neovascular AMD (NEAD)
8:45 **Richard Spaide** - Spectrum of neovascular AMD (MNV) and imaging biomarkers
8:52 **Alain Gaudric** - MacTel Type 2 by OCT and OCTA
8:59 **Daniel Pauleikhoff** - Transformation of MNV during anti-VEGF therapy - what are future challenges?
9:06 Discussion
9:13 **Stanislao Rizzo** - **Advanced treatments for vision**
9:20 **Stanislao Rizzo** - Introduction to José Alain Sahel

9:23 OPTOGENETICS TODAY AND TOMORROW

GUEST OF HONOR: José Alain Sahel

UPDATE ON EXUDATIVE MACULOPATHY

Chairs: Marco Rispoli, Giuseppe Querques

- 9:38 **Anat Loewenstein** - Update on treatment of diabetic macular edema
9:45 **David Sarraf** - Intravitreal Brolucizumab Therapy: Can Ultra Widefield FA Identify Patients at Risk of Severe Vision Loss?
9:52 **Eric Souied** - Brolucizumab: the French experience
9:59 **Srinivas Sadda** - SHRM and PED in the HAWK and HARRIER Studies
10:06 **Marion Munk** - Personal experience on early drying effect
10:13 Discussion

LIVE SURGERIES





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10:20 COFFEE BREAK

**BREAK SYMPOSIUM
OCT-A INNOVATIONS: DEEPER,
WIDER, FASTER, AND MORE INTELLIGENT**
Moderator: Edoardo Midena



- 10:20 *Giovanni Staurenghi* - When UWF Fluorescein Angiography support OCTA
- 10:35 *Giuseppe Querques* - Ultra-widefield Fluorescein Angiography
- 10:50 *Barbara Parolini* - Fundus imaging without compromises
- 11:05 Discussion

ARTIFICIAL INTELLIGENCE 1

Chair: Anat Loewenstein

Moderators: Dafna Goldenberg, Dinah Zur

- 11:20 *Ursula Schmidt-Ehrfurt* - The current and future status of Artificial Intelligence in Retina
- 11:27 *Usha Chakravarthy* - Impact of macular fluid volume fluctuations on visual acuity during anti-VEGF therapy in eyes with nAMD
- 11:34 *Eric Souied* - Artificial Intelligence to Stratify Severity of Age-Related Macular Degeneration (AMD) and Predict Risk of Progression to Late AMD
- 11:41 *Roy Schwartz* - How to identify reticular pseudodrusen in the large UK biobank?
- 11:48 *Sobha Sivaprasad* - Detection of Diabetic Retinopathy from Ultra-Widefield Scanning Laser Ophthalmoscope Images: A Multicenter Deep Learning Analysis
- 11:55 *Peter Campbell* - Deep Learning for the Diagnosis of Stage in Retinopathy of Prematurity: Accuracy and Generalizability across Populations and Cameras
- 12:02 Discussion

HIGHLIGHTS ON OCTA

Chair: Yali Jia

- 12:12 *Jennifer Sun* - OCTA Projection Artifact Removal: Impact on Capillary Density and Interaction with Diabetic Retinopathy Severity

LIVE SURGERIES

10:00 - 10:40 MEET
THE EXPERT
 NOVARTIS

12:00 - 12:40 MEET
THE EXPERT
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- 12:19 **Amani Fawzi** - 3D-PROCTA application to CNV: what we learned about lesion complexity
- 12:26 **Xiaoyan Ding** - Quantitative projection-resolved outer retinal angiogram in determining activity of myopic CNV
- 12:33 **Toco Y Chui** - Dynamics of Microvascular Intermittent Flow in Sickle Cell Retinopathy Revealed by Serial OCTA
- 12:40 **Yali Jia** - Deep learning-based signal-independent assessment of macular avascular area on OCTA
- 12:47 **Joseph Carroll** - Use and Interpretation of OCTA Imaging
- 12:54 Discussion

BRUNO LUMBROSO LECTURE

- 13:04 **Quan Dong Nguyen** - Introduction to Bruno Lumbroso Lecture
- 13:07 **James Fujimoto** - BRUNO LUMBROSO LECTURE

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LIVE SURGERIES

BELLE ARTI HALL

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13:30 LUNCH

LUNCH SYMPOSIA

LUNCH SYMPOSIUM **DEX IMPLANT BENEFITS IN DME PATIENTS' MANAGEMENT**

Chairs: Francesco Bandello, Edoardo Midena

- 13:35 **Francesco Bandello, Edoardo Midena** - Introduzione
- 13:40 **Edoardo Midena** - The inflammatory rationale behind DME
- 13:55 **Stela Vujosevic** - Clinical case 1
- 14:05 **Marco Lupidi** - Clinical case 2
- 14:15 **J. Chhablani** - Practical consideration: what we have learned in 5 years
- 14:25 Discussion
- 14:30 **END OF THE SYMPOSIUM**

13:35 - 14:30 LUNCH SYMPOSIUM

13:35 - 14:30 LUNCH SYMPOSIUM

 ALFA INTES

ADVANCES IN IMAGING TECHNOLOGY

Chair: James Fujimoto

- 14:35 **Richard Rosen** - Multimodal Cellular Imaging of Macular Hyalocytes: Clinical OCT with Adaptive Optics SLO Interpretation
- 14:42 **Ravi Jonnal** - Human photoreceptor optoretinography: methods and mechanisms
- 14:49 **Michael Pircher** - Challenges in adaptive optics OCT imaging

14:35- 15:25 SYMPOSIUM

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- 14:56 **Hao Zhang** - Recent progress in clinical visible-light OCT
- 15:03 **Yali Jia** - Wide-field & high-resolution OCTA in retinal diseases
- 15:10 **Siyu Chen** - Ultrahigh speed SS-OCT and OCTA for retinal and anterior eye imaging
- 15:17 Discussion

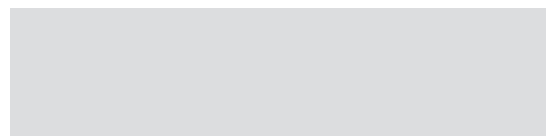
MACULOPATHIES: THE BAD CASES, THE RIGHT APPROACH


Chair: Paolo Lanzetta

Moderators: Anat Loewenstein, Ursula Schmidt-Erfurth

- 15:27 **Paolo Lanzetta** - Subfoveal hemorrhage during wet age-related macular degeneration
- 15:34 **Jay Chhablani** - Macular telangiectasia type 1
- 15:41 **Yves Salomon Cohen** - Florid diabetic retinopathy and macular edema
- 15:48 **Ramin Tadayoni** - Optic disc pit maculopathy
- 15:55 **Nadia Waheed** - Management of high risk eyes against conversion to exudative age-related macular degeneration
- 16:02 **Daniele Veritti** - Retinitis pigmentosa-associated cystoid macular edema
- 16:09 Discussion

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SYMPOSIUM  **Bayer**
**UNLOCKING THE POTENTIAL FOR Q16
DOSING FOR YOUR PATIENTS: FLEXIBILITY,
LONG-TERM EFFICACY, AND SAFETY OF
AFLIBERCEPT**

Moderators: Francesco Bandello, Francesco Faraldi

- 15:30 **Francesco Bandello, Francesco Faraldi**
Introductions and welcome
- 15:33 **Lisa Toto** - Durability that works:
Proactive, extended dosing in wAMD
- 15:41 Q&A - **Francesco Bandello,
Francesco Faraldi, Lisa Toto**
- 15:45 **Elisabetta Pilotto** - Fluid in nAMD:
A pragmatic approach
- 15:54 Q&A - **Francesco Bandello,
Francesco Faraldi, Elisabetta Pilotto**
- 15:58 **Sebastian Waldstein** - What is on the
horizon for ophthalmology?
- 16:07 Q&A - **Francesco Bandello,
Francesco Faraldi, Sebastian Waldstein**
- 16:11 **Francesco Bandello, Francesco Faraldi**
Summary and closepigmentosa-
associated cystoid macular edema
- 16:04 Discussion

16:20 COFFEE BREAK

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BREAK SYMPOSIA

16:20 -17:15 BREAK SYMPOSIUM



BREAK SYMPOSIUM EXPERT IN CONVERSATION: THE JOURNEY OF VEGF



Moderatori: Stanislao Rizzo, Francesco Bandello, Giovanni Staurenghi

16:25 *Stela Vujosevic, Paolo Lanzetta*
Advancing our understanding of the angioprotein pathway
Pro vs cons on why targeting two signaling pathways for the treatment of DME and nAMD?

16:40 *Francesco Viola, Giuseppe Querques*
Transforming long-term vision: innovations in technology
Pro vs cons on anti-VEGF continuous delivery in nAMD

17:00 **END OF THE SYMPOSIUM**

**16:50- 17:10
MEET THE EXPERT**



CONTROVERSIES AND CHALLENGES IN RETINA: DEBATES OF THE YEAR

Chair: Quan Dong Nguyen

The Debaters

Diana V. Do, Judy E. Kim, Darius M. Moshfeghi, Quan Dong Nguyen, Yasir J. Sepah

THE QUESTIONS:

- 17:15 Should Anti-VEGF Therapy Be First-Line Treatment for NPDR?
- 17:22 Televote
- 17:25 Should All Fluids Be Eliminated in the Management of Neovascular AMD?
- 17:32 Televote
- 17:35 Is OCTA Helpful and Necessary for the Busy Retina Specialists?
- 17:42 Televote

SYMPOSIUM **Apellis** RECENT ADVANCES AND KEY LEARNINGS IN GEOGRAPHIC ATROPHY

Panel: Giovanni Staurenghi, Adnan Tufail, Srinivas Sadda

- 17:30 *Giovanni Staurenghi* - Introduction
- 17:32 *Adnan Tufail* - Understanding GA and the role of complement
- 17:44 Panel discussion
- 17:49 *Srinivas Sadda* - Key learnings from previous trials in GA
- 18:01 Panel discussion





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THE EYE AS A WINDOW TO SYSTEMIC DISEASES

Chair: Sandrine Zweifel

- 17:45 **Mario Damiano Toro** - Microvascular impairment in systemic sclerosis
- 17:52 **Maria Cristina Savastano** - Are eyes the window to COVID-19?
- 17:59 **Sandrine Zweifel** - At the pulse of time: machine vision in retinal videos
- 18:06 **Tien Y Wong** - Assessment of cardiovascular disease risk via the measurement of retinal-vessel calibre
- 18:13 **Pearse Keane, Srinivas Sadda** - Alzheimer's Disease, Dementia and the Eye / Retinal imaging in Alzheimer's and neurodegenerative diseases
- 18:20 **Alessandro Invernizzi** - Ocular manifestations of infectious diseases
- 18:27 Discussion

18:37 END OF THE SESSIONS

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- 18:06 **Giovanni Staurenghi** - Recent advances in GA clinical trials
- 18:18 Panel discussion and Q&A
- 18:23 **Giovanni Staurenghi** - Summary and close

18:25 END OF THE SESSIONS

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RETINAL IMAGING IN DIABETIC MACULAR EDEMA AND DIABETIC RETINOPATHY

Chairs: Francesco Bandello, Giuseppe Querques

- 8:00 **Anat Loewenstein** - Baseline imaging biomarkers in diabetic macular edema
- 8:07 **Francesco Bandello** - Long-term visual outcomes in DME patients treated with anti-VEGF
- 8:14 **Ramin Tadayoni** - The role of OCTA in diabetic retinopathy and diabetic macular edema
- 8:21 **SriniVas Sadda** - The importance of a widefield assessment in diabetic retinopathy
- 8:28 **Ursula Schmidt-Erfurth** - Deep learning to quantify diabetic macular edema
- 8:35 **Stela Vujosevic** - Fundus autofluorescence has a role in diabetic retinopathy and diabetic macular edema
- 8:42 Discussion

ALTERED CHOROID-ASSOCIATED MACULAR DISEASES

Chair: José María Ruiz Moreno

- 8:52 **Suzanne Yzer** - Image subfoveal staphylomas complicated by subretinal fluid by OCTA
- 8:59 **Francine Behar-Cohen** - Hyperpermeability in CSCR- correlation with OCT findings
- 9:06 **Jay Chhablani** - OCTA in Central Serous Chorioretinopathy
- 9:13 **Rufino Silva** - Polypoidal Choroidal Vasculopathy and OCTA
- 9:20 **José M. Ruiz-Moreno** - Myopic maculopathy: poor prognostic findings in OCT and OCTA
- 9:27 Discussion

UP DATE ON NEW TREATMENTS

- 9:34 **Caroline Baumal** - Dry AMD
- 9:40 **Angelo Maria Minnella** - Exudative AMD
- 9:46 **Amani Fawzi** - Macular Vascular Diseases

VISIONS OF FUTURE BY INDUSTRY AND ENGINEERS

- 9:52 OPTOPOL
- 9:59 OPTOPOL

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FREE PAPERS

- 9:00** **Mojtaba Abrishami, Kiana Hassanpour, Seyedeh Maryam Hosseini** - Peripapillary Nerve Fiber Layer Thickness and Optic Nerve Head Parameters in Patients Recovered from COVID-19: A Longitudinal Study
- 9:05** **Mojtaba Abrishami, Kiana Hassanpour, Seyedeh Maryam Hosseini** - Macular Vessel Density Reduction in Patients Recovered from COVID-19; A Longitudinal Optical Coherence Tomography Angiography Study
- 9:10** **Thomas Theelen, Timo Mulders, Patty Dhooge, Carel B. Hoyng** Automated Photoreceptor Counting on Retinal High Magnification Images in Healthy and Pathological Conditions
- 9:15** **Hamid Riazi, Ahmad Mirshahi, Kaveh Fadakar, Reza Mirshahi, Elias Khalili Pour, Nazanin Ebrahimiadib, Fariba Ghassemi, Hassan Khojasteh, Fatemeh Bazvand, Sepideh Ghods, Hamid Riazi-Esfahani, Hooshang Faghihi** Alterations in Choroidal Vascular Parameters Following Pan-retinal Photocoagulation Using Enhanced-Depth Imaging Optical Coherence Tomography
- 9:20** **Hamid Riazi, Hooshang Faghihi, Elias Khalili Pour, Alireza Mahmoudi, Nazanin Ebrahimiadib, Kaveh Fadakar, Fariba Ghassemi, Ahmad Mirshahi, Alireza Khodabande, Hassan Khojasteh, Fatemeh Bazvand, Golnaz Gharehbaghi, Mohammadreza Mehrabi Bahar, Hamid Riazi-Esfahani** - Choroidal Features in Two Types of Flat Irregular Pigment Epithelial Detachment Associated with Chronic Central Serous Chorioretinopathy: Avascular versus Vascularized





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- 10:06 ZEISS
- 10:13 ZEISS
- 10:20 **Daniele Mantovano** - Establishing the next level of eye care
- 10:27 **Riccardo Ferraris de Gaspare** - Symbiosis between Technology and Society

10:34 COFFEE BREAK

WIDE FIELD OCTA : VALUE AND LIMITATIONS IN DETECTING CAPILLARY NON-PERFUSION

Chair: Alain Gaudric

- 11:09 **Nadia Waheed** - Progress and limitations in measuring capillary density with WF OCTA : what can we expect in a near future?
- 11:16 **Marion Munk** - Repeatability of Wide-field Optical Coherence Tomography Angiography in Normal Retina
- 11:23 **Edoardo Midena** - Wide field multimodal imaging in retinal disorders
- 11:30 **Lucas De Pretto** - Controlling for Artifacts in Widefield Optical Coherence Tomography Angiography Measurements of Non-Perfusion Area
- 11:37 **Francesco Pichi** - Wide-field optical coherence tomography angiography for the detection of proliferative diabetic retinopathy
- 11:44 **Marco Pellegrini, Giovanni Staurenghi** - Comparison of wide field OCTA with extended field imaging and fluorescein angiography
- 11:51 **Aude Couturier** - Comparison of vascular density loss in the midperiphery and macula in WF OCTA to assess the severity of diabetic retinopathy
- 11:58 Discussion
- 12:05 **Giuseppe Querques** - Ultra-Widefield imaging in everyday clinical practice

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9:25 Elias Khalili Pour, Roya Arian, Tahereh Mahmoudi, Hamid Riazi-Esfahani, Rahele Kafieh, Hooshang Faghihi, Ahmad Mirshahi, Fariba Ghassemi, Alireza Khodabande Automatic Choroid Vascularity Index Calculation in Optical Coherence Tomography Images low contrast sclerochoroidal junction Using Deep Learning

9:30 Elias Khalili Pour, Mohammad Zarei, Tahereh Mahmoudi, Hamid Riazi-Esfahani, Behnam Mousavi, Nazanin Ebrahimiadib, Mehdi Yaseri, Hossein Arabalibeik Automated measurement of iris surface smoothness using anterior segment optical coherence tomography

9:35 Ioannis Theocharis, Nikos Lagaros - Model analysis of the posterior pole mechanics simulating ocular movements

9:40 Zeinab Elsanabary - Value of En-Face Reflectance Images & structural OCT scans in the Interpretation of OCTA

9:45 Zeinab Elsanabary - OCTA versus FA for Evaluating the Retinal and Choroidal Microvascular Changes in Sarcoid and Tuberculous Posterior Uveitis

9:50 Nihal Adel Hassan, Dina Osama - OCT angiogram using swept source Optical Coherence Tomography in patients of systemic lupus erythematosus

9:55 Maria Vittoria Cicinelli, Alessandro Rabiolo, Giovanni Montesano, Alessandro Marchese, Costanza Barresi, Ugo Introini, Maurizio Battaglia Parodi, Francesco Bandello - Prognostic implications of repair tissue proliferation in eyes with retinal pigment epithelium tears

10:00 Gilda Cennamo, Daniela Montorio - Octa findings in amyotrophic lateral sclerosis





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ARTIFICIAL INTELLIGENCE 2

Chair: Ursula Schmidt-Erfurth

- 12:12 *Ursula Schmidt-Erfurth* - Managing AMD using Artificial Intelligence tools
- 12:19 *Hrvoje Bogunovic* - Genetic Algorithm and Artificial Intelligence: Disease activity and prediction of progression
- 12:26 *Anat Loewenstein* - Fluid monitoring at home
- 12:33 *Gregor Reiter* - Guiding therapy of neovascular AMD in the real world
- 12:40 *Barbara Blodi* - Humans versus Artificial Intelligence: pros and cons
- 12:47 *David Huang* - OCTA and Artificial Intelligence
- 12:54 Discussion
- 13:04 *Domenico Lepore* - Introduction to Darius M. Mosfeghi
- 13:08 *Darius M. Moshfeghi* - Initial Results from the Longitudinal Retinopathy of Prematurity (LONG-ROP). Study of telemedicine comparison to investigator recall of patient findings

13:30-14:30 LUNCH SYMPOSIUM

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LIVE SURGERIES

**13:30-14:30 LUNCH SYMPOSIUM
RETINAWS**

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14:30 END OF THE MEETING

IMAGE GALLERY

Joseph Carroll, Brandon Lujan

Most interesting OCT or OCT Angiography images will roll through on a monitor in the exhibit area throughout the meeting and will be seen daily by all participants. Dr. Joseph Carroll and Dr. Brandon Lujan will select a winner from the submitted cases to receive a prize at the close of the meeting.

