

20th International SPECTRALIS® Symposium (ISS)

May 26–27, 2023

AXICA ■ Berlin Congress
and Conference Center

ISS 2023 ■ Course Director

Joussen, Antonia (Germany)

ISS 2023 ■ Faculty Speakers

Asrani, Sanjay (USA)
Brown, David (USA)
Chauhan, Balwantray (Canada)
Curcio, Christine A. (USA)
Erb-Eigner, Katharina (Germany)
Fujimoto, James (USA)
Gallego-Pinazo, Roberto (Spain)
Ghanchi, Faruque (UK)
Heimann, Heinrich (UK)
Holz, Frank G. (Germany)
Hood, Don (USA)
Hufendiek, Karsten (Germany)
Invernizzi, Alessandro (Italy)
Liakopoulos, Sandra (Germany)
Maloca, Peter (Switzerland)
Mardin, Christian (Germany)
Miura, Yoko (Germany)
Patel, Chetan K. (UK)
Pauleikhoff, Daniel (Germany)
Petzold, Axel (UK)
Priglinger, Siegfried (Germany)
Quigley, Harry (USA)
Sadda, Srinivas R. (USA)
Schmidt-Erfurth, Ursula (Austria)
Schottenhamml, Julia (Germany)
Sergott, Robert (USA)
Staurenghi, Giovanni (Italy)
Yu, SeungYoung (South Korea)
Zeit, Oliver (Germany)
Zimmermann, Hanna (Germany)

Program Friday

May 26, 2023 ■ 9:00–19:00

08:45 Welcome Note (Antonia Joussen, Stephan Schulz)

Glaucoma/Optic Neuropathies 1

Moderators: Karsten Hufendiek, Don Hood

- 09:00** The Future of Research in Glaucoma (Harry Quigley)
- 09:20** Impact of Baseline Classification on Estimated Rates of Glaucomatous Neuroretinal Rim and Nerve Fibre Layer Change (Balwantray Chauhan)
- 09:40** Pearls and Pitfalls of Imaging in Glaucoma Diagnosis and Progression (Sanjay Asrani)
- 10:00** Artificial Intelligence and OCTA in Glaucoma Management (Julia Schottenhamml)
- 10:20** Minimally Invasive Micro Sclerostomy (MIMS) Procedure In Advanced Glaucoma Patients (Meishar Meisel)

10:30  **Break**

Retina 1 – High-Resolution OCT

Moderators: James Fujimoto, Giovanni Staurenghi

- 11:00** Volume Electron Microscopy Supports Mitochondria as Reflectivity Sources in High-Resolution OCT of Human Retina (Christine A. Curcio)
- 11:20** High-Resolution OCT in Age-Related Macular Disease (Frank G. Holz)
- 11:40** High-Resolution OCT Imaging in Vascular Diseases (Alessandro Invernizzi)
- 12:00** Outer Retina and RPE in High Myopia... More Than Myopic CNV (Roberto Gallego-Pinazo)
- 12:20** Improved OCTA Visualization of Macular NV Secondary to AMD by Next-Gen TruTrack (Alessandro Arrigo)

12:30  **Lunch Break**

Retina 2

Moderators: SeungYoung Yu, Frank G. Holz

- 13:30** **Keynote Lecture:** Clinic and Science in nAMD: A Complementary Relationship (Daniel Pauleikhoff)
- 13:50** Pachychoroid Update – Diagnosis and Therapy (Siegfried Priglinger)
- 14:10** Intra-Operative OCT in Pediatric Retinal Surgery (Chetan K. Patel)
- 14:30** Imaging Biomarkers in Neovascular AMD (Sandra Liakopoulos)
- 14:50** Complement Inhibition for Geographic Atrophy and Fundus Autofluorescence Imaging (Almut Wittich)

15:00  **Break**

Artificial Intelligence

Moderators: Ursula Schmidt-Erfurth, Hanna Zimmermann

- 15:30** Future of Retinal Imaging (David Brown)
- 15:50** How AI-Based Fluid Monitoring Will Change Disease Management in Neovascular AMD (Ursula Schmidt-Erfurth)
- 16:10** The Use of AI Algorithms to Improve Diagnostic Accuracy in Neuroinflammation/Neuroophthalmology (Hanna Zimmermann)
- 16:30** Retinal Phenotype and Molecular Features of Neovascular AMD: Novel Insights Through AI-Based Big Data Analyses (Oliver Zeitz)
- 16:50** Panel Discussion

17:00  **Break**

Oncology & More

Moderators: Antonia Joussen, Heinrich Heimann

- 17:30** Imaging in Ophthalmic Oncology (Antonia Joussen)
- 17:50** Improving the Diagnostic Accuracy of Eye and Orbital Lesions on MR Images (Katharina Erb-Eigner)
- 18:10** Imaging of Benign Intraocular Tumors (Heinrich Heimann)
- 18:30** Ocular Movements Related Stress on the Posterior Pole as the Operative Event of Macula Diseases. The Future Role of OCT on Macula Biomechanical Study. (Ioannis Theocharis)
- 18:40** Seven-Year Follow-Up of Outer Retina-Retinal Pigment Epithelium & Choroid in Patients with Central Serous Chorioretinopathy (Eung Suk Kim)
- 18:50** Panel Discussion
- 19:00** **WELCOME RECEPTION with Drinks & Food!**

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Program Saturday

May 27, 2023 ■ 9:00–15:10

08:45 Welcome Note (Stephan Schulz)

Retina 3 – High-Resolution OCT

Moderators: David Brown, Christine A. Curcio

- 09:00** Advances in High-Resolution SD-OCT and High-Speed SS-OCTA (James Fujimoto)
- 09:20** Observation of Posterior Vitreous Microstructure with High-Res OCT (Yoko Miura)
- 09:40** High-Resolution OCT Imaging of Atrophic Lesions Associated with AMD (Srinivas R. Sadda)
- 10:00** High-Resolution OCT: What Do We Miss? (Giovanni Staurenghi)
- 10:20** Panel Discussion
- 10:30**  **Break**

Retina 4

Moderators: Sandra Liakopoulos, Siegfried Priglinger

- 11:00** Topographic Progression of Geographic Atrophy and Visual Acuity in Korean Patients with Non-Exudative AMD (SeungYoung Yu)
- 11:20** ORCID – Observations on Outer Retina Choroid Interface in Degeneration (Faruque Ghanchi)
- 11:40** Dynamic Optical Coherence Tomography Technique (Peter Maloca)
- 12:00** Distinctive FLIO Signatures for Four Neuro-Degenerative Diseases: Leber's Hereditary Optic Neuropathy, Parkinson's, Alzheimer's, Multiple Sclerosis (Robert Sergott)
- 12:20** Structural OCT Activity Signs in Macular Neovascularization (Mariano Cozzi)
- 12:30**  **Lunch Break**

Glaucoma/Optic Neuropathies 2

Moderators: Balwantray Chauhan, Sanjay Asrani

- 13:30** Eye-Opening Insights Into the Brain (Axel Petzold)
- 13:50** Use of Deviation Maps in Differential Diagnosis of Optic Neuropathies (Christian Mardin)
- 14:10** SPECTRALIS OCTA Findings in LHON and ADOA (Karsten Hufendiek)
- 14:30** "Save the Donut" – Understanding Progression of Macular Damage (Don Hood)
- 14:50** The Ontario Neurodegenerative Disease Research Initiative (ONDRI) SD OCT Dataset (Wendy Hatch)
- 15:00** Longitudinal Change in Retinal Thickness in Parkinson's Disease: Initial Results of the Ontario Neurodegenerative Disease Research Initiative (ONDRI) (Christopher Hudson)
- 15:10** **End of Day 2**

>>> We very much look forward to seeing you again in person!



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