

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)
Paul, Friedemann (Germany)
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)
Starengi, Giovanni (Italy)
Yu, SeungYoung (Korea)
Zeit, Oliver (Germany)

Program Friday

May 26, 2023 ■ 9:00–19:00

08:45 **Welcome Note** (Prof. Antonia Joussen, Dr. Stephan Schulz)

Glaucoma/Optic Neuropathies 1

Moderators: Christian Mardin, Don Hood

09:00 The Future of Research in Glaucoma (Prof. Harry Quigley)

09:20 Impact of Baseline Classification on Estimated Rates of Glaucomatous Neuroretinal Rim and Nerve Fibre Layer Change (Prof. Balwantray Chauhan)

09:40 Pearls and Pitfalls of Imaging in Glaucoma Diagnosis and Progression (Prof. Sanjay Asrani)

10:00 Artificial Intelligence and OCTA in Glaucoma Management (Julia Schottenhamml, M.Sc.)

10:20 Free Paper or Panel Discussion

10:30  **Break**

Retina 1 – High-Resolution OCT

Moderators: James Fujimoto, Giovanni Staurengi

11:00 Volume Electron Microscopy Supports Mitochondria as Reflectivity Sources in High-Resolution OCT of Human Retina (Prof. Christine A. Curcio)

11:20 High-Resolution OCT in Age-Related Macular Disease (Prof. Frank G. Holz)

11:40 High-Resolution OCT Imaging in Vascular Diseases (Dr. Alessandro Invernizzi)

12:00 Outer Retina and RPE in High Myopia... More Than Myopic CNV (Prof. Roberto Gallego-Pinazo)

12:20 Free Paper or Panel Discussion

12:30  **Lunch Break**

Retina 2

Moderators: Srinivas R. Sadda, Frank G. Holz

13:30  **Keynote Lecture** Clinic and Science in nAMD: A Complementary Relationship (Prof. Daniel Pauleikhoff)

13:50 Pachychoroid Update – Diagnosis and Therapy (Prof. Siegfried Priglinger)

14:10 Intra-Operative OCT in Pediatric Retinal Surgery (Prof. Chetan K. Patel)

14:30 Imaging Biomarkers in Neovascular AMD (Prof. Sandra Liakopoulos)

14:50 Free Paper or Panel Discussion

15:00  **Break**

Artificial Intelligence

Moderators: Ursula Schmidt-Erfurth, Friedemann Paul

15:30 Future of Retinal Imaging (Dr. David Brown)

15:50 How AI-Based Fluid Monitoring Will Change Disease Management in Neovascular AMD (Prof. Ursula Schmidt-Erfurth)

16:10 The Use of AI Algorithms to Improve Diagnostic Accuracy in Neuroinflammation/ Neuroophthalmology (Prof. Friedemann Paul)

16:30 Retinal Phenotype and Molecular Features of Neovascular AMD: Novel Insights Through AI-Based Big Data Analyses (Prof. Oliver Zeitz)

16:50 Free Paper or Panel Discussion

17:00  **Break**

Oncology

Moderators: Antonia Joussen, Heinrich Heimann

17:30 Imaging in Ophthalmic Oncology (Prof. Antonia Joussen)

17:50 Improving the Diagnostic Accuracy of Eye and Orbital Lesions on MR Images (PD Dr. Katharina Erb-Eigner)

18:10 Imaging of Benign Intraocular Tumors (Prof. Heinrich Heimann)

18:30 Free Papers

18:50 Free Paper or Panel Discussion

19:00 **End of Day 1**

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Program Saturday

May 27, 2023 ■ 09:00–15:00

08:45 Welcome Note (Dr. 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 (Prof. James Fujimoto)

09:20 Observation of Posterior Vitreous Microstructure with High-Res OCT (Dr. Yoko Miura)

09:40 High-Resolution OCT Imaging of Atrophic Lesions Associated with AMD (Dr. Srinivas R. Sadda)

10:00 High-Resolution OCT: What Do We Miss? (Prof. Giovanni Staurenghi)

10:20 Free Paper or 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 (Prof. SeungYoung Yu)

11:20 ORCID – Observations on Outer Retina Choroid Interface in Degeneration (Prof. Faruque Ghanchi)

11:40 Dynamic Optical Coherence Tomography Technique (Dr. Peter Maloca)

12:00 Distinctive FLIO Signatures for Four Neuro-Degenerative Diseases: Leber's Hereditary Optic Neuropathy, Parkinson's, Alzheimer's, Multiple Sclerosis (Dr. 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 (Dr. Axel Petzold)

13:50 Use of Deviation Maps in Differential Diagnosis of Optic Neuropathies (Prof. Christian Mardin)

14:10 SPECTRALIS OCTA Findings in LHON and ADOA (Dr. Karsten Hufendiek)

14:30 "Save the Donut" – Understanding Progression of Macular Damage (Prof. Don Hood)

14:50 Free Paper or Panel Discussion

15:00 **End of Day 2**