

HEIDELBERG
2025

INTERNATIONAL **SPECTRALIS**[®] SYMPOSIUM **AND BEYOND**

ISS 2025 | PROGRAM EXCERPT

Holz, Frank
Course Director
Imaging, pathogenesis and treatment
of retinal/macular diseases

Csaky, Karl
Structure-Function Correlates using
HighRes OCT Images

Curcio, Christine
Histology Update Supporting Retinal Software
and Revised Nomenclature for $\leq 3 \mu\text{m}$ OCT

Sarda, Sri
High Resolution OCT of Atrophic AMD
and its Association with AMD

degenerative Diseases:

OUR BEST PROGRAM

**HEIDELBERG
ENGINEERING**



ACADEMY

Scientific Program: Friday, June 13

09:45 Welcome Note: *Prof. Frank G. Holz | Germany*

SESSION 1: Oculomics S. Satta | G. Staurenghi

- 10:00 Oculomics: Mechanistic and biomarker discovery
Siegfried Wagner | UK
- 10:15 Eyes on health: Unlocking systemic insights with multimodal retinal imaging in the NICOLA study
Ruth Hogg | UK
- 10:30 An eye on neurodegenerative diseases: Challenging the dogma
Rayaz Malik | Qatar
- 10:45 Ocular signs and symptoms of cognitive impairment and neurodegeneration
Robert P. Finger | Germany
- 11:00 The eye as a window to the kidney: Old concepts, better tools and new horizons
Neeraj Dhaun | UK
- 11:15 Break

SESSION 2: High-Res OCT B. Chauhan | L. Schmetterer

- 11:45 Histology update supporting review software and revised nomenclature for <3 µm OCT
Christine Curcio | USA
- 12:00 Structure-function correlates using High-Res OCT images
Karl Csaky | USA
- 12:15 New insights in diabetic maculopathy using High-Res OCT
Thomas Ach | Germany
- 12:30 High-Res OCT of atrophic and precursor lesions in AMD
Srinivas Satta | USA
- 12:45 First experience of a new high-resolution imaging platform
Giovanni Staurenghi | Italy
- 13:00 Lunch Break | **iOCT live**

SESSION 3: New Technology F. G. Holz | A. Tufail

- 14:30 Advancing laser precision: OCT-guided selective retina therapy
Christian Burri | Switzerland
- 14:45 In vivo functional imaging of single retinal ganglion cells with two-photon imaging
Balwantray Chauhan | Canada
- 15:00 Prolonged ORG recordings from inner and outer retina
Leopold Schmetterer | Austria
- 15:15 FLIO and the brain – making the invisible visible: Silent disease progression for Alzheimer's, Parkinson's, Multiple Sclerosis
Robert Sergott | USA
- 15:30 More than an OCT image – holographic OCT for imaging retinal function
Gereon Hüttmann | Germany
- 15:45 Break

SESSION 4: AMD | GA K. Csaky | R. P. Finger

- 16:15 Impact of macular neovascularization development on GA progression
Mariano Cozzi | Italy
- 16:30 Imaging-based progression markers in intermediate AMD – results from the MACUSTAR study
Frank G. Holz | Germany
- 16:45 Functional assessments and structure-function correlation in intermediate AMD – analysis of MACUSTAR data
Adnan Tufail | UK
- 17:00 Masqueraders of exudation and neovascularization in AMD
Roberto Gallego-Pinazo | Spain
- 17:15 Using OCT determined anatomical features as endpoints in clinical trials in intermediate AMD
Robyn Guymer | Australia
- 17:30 Re-imagining two wavelength autofluorescence for macular xanthophyll carotenoids, proven beneficial agents for AMD
Christine Curcio | USA

KEYNOTE SESSION

- 17:45 **A journey into space: „Völlig losgelöst!“**
NASA | USA
- 18:30 End of Scientific Program

EVENING EVENT: COME WITH US ON BOARD!

Join us for a dinner cruise on the river Neckar and enjoy magnificent views of historic Heidelberg.

- 19:00 Bus departure Congress Center (west entrance)
- 19:30 Boat **Queen Silvia** available for boarding at the pier:
📍 Neckarstaden 25 | 69117 Heidelberg



- 20:00 Boat departure for dinner cruise on river Neckar
- 22:15 Return bus shuttle to congress hotels
- 23:15 Return bus shuttle to congress hotels

Scientific Program: Saturday, June 14

09:00 Welcome Note: *Prof. Frank G. Holz | Germany*

SESSION 5: Artificial Intelligence R. Gallego-Pinazo | S. Yu

- 09:30 Analyzing FLIO data from the AI-READI project
Aaron Y. Lee | USA
- 09:45 AI in fluorescence lifetime imaging ophthalmoscopy (FLIO) data analysis-toward retinal metabolic diagnostic
Yoko Miura | Germany
- 10:00 Fluid in nAMD and GA
Ursula Schmidt-Erfurth | Austria
- 10:15 AI-based evaluation of dry AMD biomarkers
Srinivas Satta | USA
- 10:30 Break

SESSION 6: Retina A. Loewenstein | U. Schmidt-Erfurth

- 11:00 The use of OCT and OCTA in sickle cell retinopathy
James Talks | UK
- 11:15 OCT based outcome measures in paediatric gene therapy
Robert Henderson | UK
- 11:30 Differentiating pachychoroid atrophy from geographic atrophy using fundus autofluorescence
SeungYoung Yu | South Korea
- 11:45 A rollercoaster ride: sit back and fasten your seatbelt
Gabriella De Salvo | UK
- 12:00 Hyperreflective vitreous opacities in children: A key to avoiding misdiagnosis in OCT interpretation
Dinah Zur | Israel
- 12:15 Discovering new dimensions with the SeeLuma™ fully digital visualization platform
Sunil Warriar | Australia
- 12:30 Lunch Break | **iOCT live**

SESSION 7: Distributed Care F. G. Holz | J. Talks

- 14:00 Remote patient monitoring in AMD management
Anat Loewenstein | Israel
- 14:15 Looking across the gap: Retinal imaging between community and hospital
Baljean Dhillon | UK
- 14:30 The power of Medisoft – linking to UK Biobank
Anthony Khawaja | UK
- 14:45 Extreme telemedicine during long-duration spaceflight
Steven Laurie | USA
- 15:00 Panel Discussion: Meeting needs of service requirements
- 15:15 Multimodal imaging – still relevant in precision diagnosis
Ethan Priel | USA
- 15:30 End of Scientific Program



Course Director:

Professor Frank G. Holz
University Eye Hospital Bonn

Registration & More Information

Please visit the ISS website www.he-academy.com/iss for more information about:

- Event registration
- Boat trip reservation
- Company tour
- Hotel recommendations
- Call for posters



Company Tour | Thursday and Saturday

We would like to invite you to a 30-minute tour of our company building on:

Thursday, June 12 | 16:00 – 18:00

Saturday, June 14 | 16:00 – 18:00


The tour starts every 15 minutes from the main entrance of Heidelberg Engineering SkyLabs tower:
Max-Jarecki-Straße 8, 69115 Heidelberg



Please register for the company tour during the event registration process.

Venue and Travel Information

Heidelberg Congress Center (HCC)

 Czernyring 20, 69115 Heidelberg | Germany

Arrival by Car

The parking garage **P21** (Goepfert-Mayer-Straße 2, 69115 Heidelberg) is located directly under the Congress Center.

When entering P21, your number plate will be recorded by camera. At the end of your parking time, enter your license plate number at the pay station and pay in cash, by EC card or PayPal, not credit card!

Arrival by Public Transportations

The HCC is a 2-minute walk from the main railway station **Heidelberg Hauptbahnhof** directly via the south exit/the pedestrian bridge into **Bahnstadt**.

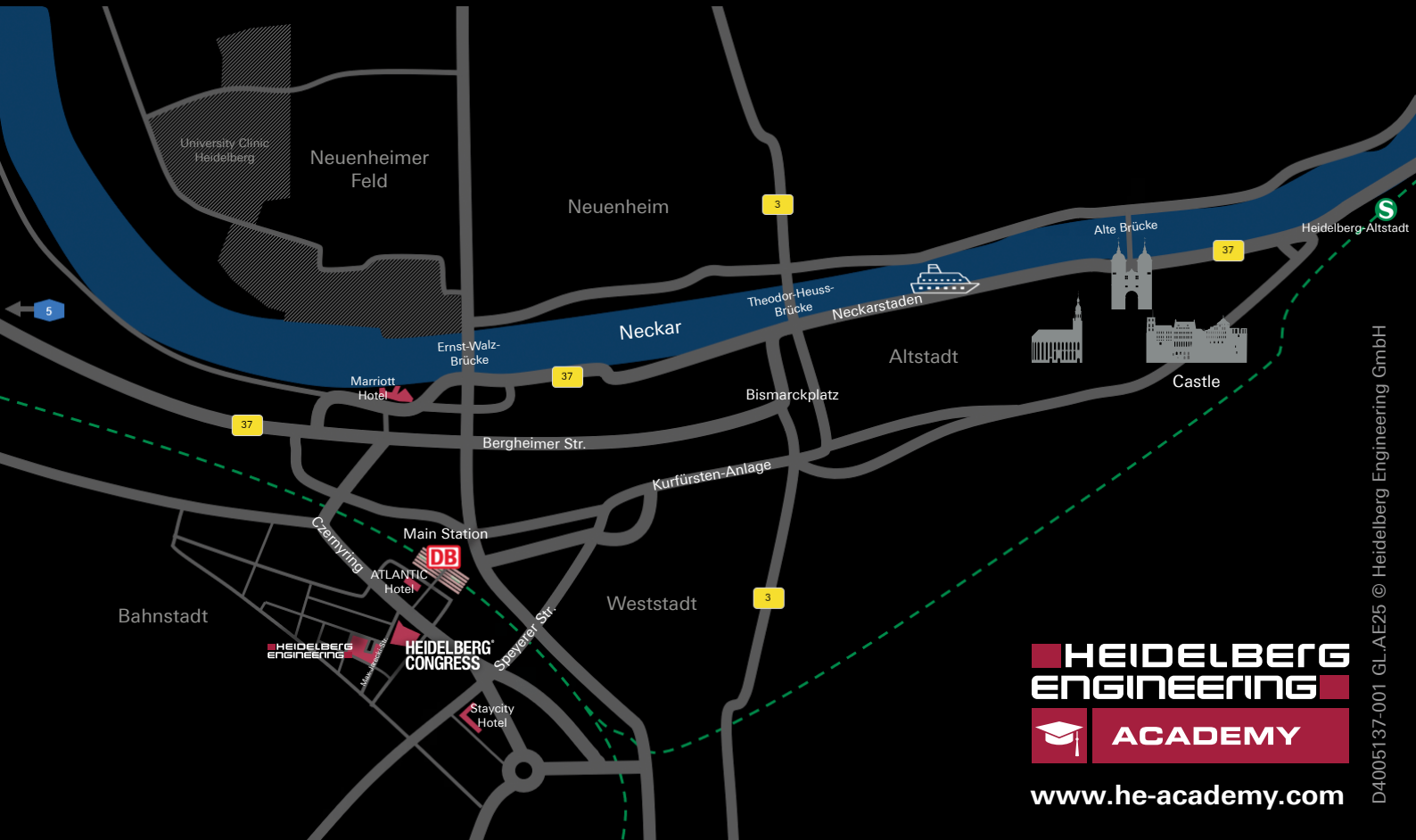
Tram lines 22 and 26 as well as bus lines 28, 34 and 721 stop at **Heidelberg Hauptbahnhof Süd** in front of the HCC.

Arrival from Frankfurt International Airport (FRA)

FRA is located 80 km from Heidelberg, approx. 1 hour drive by train (www.bahn.de), car or taxi.

Shuttle service and private transfer: www.tls-heidelberg.de

Public shuttle service: www.frankfurt-airport-shuttles.de



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