

Satellite Symposium

Vision and Visions: Current Concepts and Future Challenges in Retinal Research

October 2-3, 2017

Hanse-Wissenschaftskolleg, Institute for Advanced Study, Delmenhorst, Germany

The goal of the meeting is to bring together the leading retina experts to intensify the discussion on future challenges and evolving concepts of the field at a time of great methodological advances.

Program:

Monday, October 2nd 2017:

12:00 - 14:00: **Welcome Reception**

Session 1:

14:00 - 14:30: Heinz Wässle (Frankfurt am Main, Germany)
“The Discovery of Ganglion Cell Types of the Mammalian Retina: from 1854 to 2017”

14:30 - 15:00: Richard Masland (Boston, USA)
“The Diversity of Retinal Neurons: History and Prospects”

15:00 - 15:30: John E. Dowling (Cambridge, USA)
“Reconstructing the Human Fovea Using Connectomic Methods”

15:30 - 16:00: Coffee Break

Session 2:

16:00 - 16:30: Thomas Euler (Tübingen, Germany)
“What the Mouse’s Eye Tells the (Rest of) the Mouse’s Brain”

16:30 - 17:00: Maureen McCall (Louisville, Kentucky, USA)
“The Role of Glycinergic Inhibition in the Visual Responses of Retinal Ganglion Cells”

17:00 - 17:30: Silke Haverkamp (Frankfurt, Germany)
“Glycinergic Inhibition in the Central Primate Retina”

18:00 - 19:30 Dinner

Special Lecture:

20:00: David Vaney (Brisbane, Australia)
“Vision and Visions”

Tuesday, October 3rd 2017:

Session 3:

9:00 – 9:30: Maarten Kamermans (Amsterdam, Netherlands)
„The Astonishing Complexity of Outer Retinal Processing“

9:30 – 10:00: Nicholas Brecha (Los Angeles, USA)
„Horizontal Cell Feedback and Feedforward Signaling in the Mammalian Retina“

10:00 – 10:30: Johann Helmut Brandstätter (Erlangen/Nürnberg, Germany)
“Signal Transmission and Adaptation at the First Synapse in the Visual System”

10:30 – 11:00: Coffee Break

Session 4:

11:00 – 11:30: Stephen Massey (Houston, Texas, USA)
“Photoreceptor Coupling in the Retina”

11:30 – 12:00: William Baldrige (Halifax, Canada)
“A Fishy Business: The Many Actions of Dopamine in the Teleost Retina”

12:00 – 12:30: Stuart Mangel (Columbus, Ohio, USA)
"Dopamine Modulation of GABA_A-Receptor-Mediated Horizontal Cell Feedback and Feedforward Signaling"

12:30 – 14:00: Lunch

Session 5:

14:00 – 14:30: Marla Feller (Berkeley, California, USA)
“Activity-Dependent Modulation of Gap Junctions in Developing Retina”

14:30 – 15:00: William Stell (Calgary, Canada)
“Ocular Growth and Refractive Development as a Manifestation of Retinal Circuit Functions”

15:00 – 15:30: Peter Lukasiewicz (St. Louis, Missouri, USA)
“Signaling in the Healthy and Diseased Retina”

15:30 – 16:00: Coffee Break

Session 6:

16:00 – 16:30: Enrica Strettoi (Pisa, Italy)
“New Laboratory Approaches to Challenge Inherited
Photoreceptor Degeneration”

16:30 - 17:00: Eberhart Zrenner (Tübingen, Germany)
„Restoring Lost Vision with Electronic Retinal Prosthesis“

17:00: Concluding Remarks

Satellite meeting venue: The meeting will take place at the Hanse-Wissenschaftskolleg, Institute for Advanced Study in Delmenhorst, in Northern Germany (www.h-w-k.de). The nearest airport is Bremen which can be reached in thirty minutes and offers direct flights to Paris.

Registration: Participation in the satellite symposium is free but registration is required. Please note that the number of participants is limited. To register please contact: mdaniel@h-w-k.de. An evening cultural program including dinner on the 3rd of October 2017 can be booked for a fee of 75 €. Hotel reservations can be made by the Hanse-Wissenschaftskolleg upon request.

Organizers of the satellite symposium:

Ulrike Janssen-Bienhold, Karin Dedek and Martin Greschner