

European Retina Meeting 2009 – Program

Wednesday, Oct. 7th

20:00 - 21:30 Public lecture (in German): Reto Weiler (PFL, lecture hall)
Sehen und Kunst: das kunstvolle Auge

Thursday, Oct. 8th

13:00 - open **Registration** at the Meeting's office

13:30 Poster rooms open – please put up posters

14:00 - 14:15 Welcome

Symposium 1 – *Retinal circuits and adaptation*

Chaired by Thomas Euler & Maarten Kamermans

14:15 - 15:05 Keynote speaker: Botond Roska
Seeing with and without classical photoreceptors

15:05 - 15:30 Tamas Szikra
Calcium homeostasis and cone signaling are regulated by interactions between calcium stores and plasma membrane ion channels

15:30 - 15:45 Coffee break

15:45 - 16:10 Duco Endeman
Activation of the calcium-dependent chloride current in cones reduces feedback from horizontal cells in the goldfish retina

16:10 - 16:35 Gabriel C. Knop
Anatomy and physiology of type 2 dopaminergic amacrine cells in the mouse retina

16:35 - 17:00 Ben Sivyer
Uniformity detector ganglion cells in rabbit retina

17:00 - 17:15 Discussion

17:15 - 17:30 Break

17:30 - 20:00 **Posters (1)**
Posters with EVEN numbers are presented.
With drinks & snacks; the rest of the evening is free (no dinner provided).

21:00 - 22:30 For interested participants: Show of the movie *In Search of Memory* (Eric Kandel), Cinema Casablanca

Friday, Oct. 9th

8:30 Poster rooms open

Symposium 2 – Photoreceptors and color vision

Chaired by Karl-Wilhelm Koch & Leo Peichl

09:00 - 09:50 Keynote speaker: Gerald H. Jacobs
Linking photopigments and color vision in mammals

09:50 - 10:15 Boris Joffe
Inverted nuclei in mammalian rod photoreceptors: organization, putative role in the retina, and significance as an evolutionary marker

10:15 - 10:30 Coffee break

10:30 - 10:55 Alison L. Reynolds
Electroretinography of a novel zebrafish model of human cone rod dystrophy 6

10:55 - 11:20 Andreas Gießl
Pericentrin, a centrosomal protein related to microcephalic primordial dwarfism, identified at the basal-body complex in mammalian photoreceptor cells

11:20 - 11:45 Daniele Dell'Orco
Light adaptation in rod cells under normal and altered conditions: a computational network-level analysis

11:45 - 12:00 Discussion

12:00 - 13:30 Lunch break (not organized)

13:30 - 15:30 **Posters (2)**
Posters with ODD numbers are presented

15:30 - 15:45 Coffee break

Symposium 3 – Development and plasticity

Chaired by Silke Haverkamp & Helmut Brandstätter

15:45 - 16:35 Keynote speaker: Marla B. Feller
Mechanisms underlying spontaneous activity in the developing retina

16:35 - 17:00 Finn Hallböök
Are the horizontal cells the odd-ones-out in the generation of retinal neurons?

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Friday, Oct. 9th - continued

- 17:00 - 17:15 Coffee break
- 17:15 - 17:40 Timm Schubert
Development of cone photoreceptor and horizontal cell connectivity in the absence of outer retinal GABA synthesis
- 17:40 - 18:05 Theresa Puthussery
Dynamics of rod bipolar cell responses in the mouse retina
- 18:05 - 18:20 Discussion
- 18:20 - 18:45 Break
- 18:45 - 19:30 Special lecture: Andreas Reichenbach
Müller cells: important players in vertebrate retina
- 20:00 Organized dinner in the ballroom of Oldenburg Castle
Address: Schlossplatz 26, 26122 Oldenburg

Saturday, Oct. 10th

Symposium 4 – Neural computations in the retina

Chaired by Jutta Kretzberg & Josef Ammermüller

- 09:00 - 09:50 Keynote speaker: E. J. Chichilnisky
The structure of the retinal receptive field at the elementary resolution of single cones
- 09:50 - 10:15 Günther Zeck
Electrical imaging of the ganglion cell layer in the rabbit and mouse retina
- 10:15 - 10:30 Coffee break
- 10:30 - 10:55 Markus Bongard
Fragments of the visual code: color and contrast, and a little bit of movement...
- 10:55 - 11:20 Tom Baden
Two in one: different synaptic terminals of individual bipolar cells exhibit different signaling properties depending on their size

Saturday, Oct. 10th - continued

- 11:20 - 11:45 Henrique von Gersdorff
Light-evoked short-term synaptic plasticity in the inner retina
- 11:45 - 12:00 Discussion
- 12:00 - 13:30 Lunch break (not organized)
ALL posters should be taken down.
- 13:30 - 14:15 Special lecture: John E. Dowling
What can a zebrafish see with only an OFF-pathway?
- 14:15 - 14:30 Break

Symposium 5 – Synaptic organization of the retina

Chaired by Karin Dedek & Andreas Feigenspan

- 14:30 - 15:20 Keynote speaker: Ronald G. Gregg
Signaling through depolarizing bipolar cells: lessons from disease models
- 15:20 - 15:45 Christian Puller
Protocadherin beta16 is localized at AMPA and kainate receptor expressing synapses in the primate retina
- 15:45 - 16:10 Maureen A. McCall
Glycine receptor subunits $\alpha 2$ & $\alpha 3$ differentially contribute to receptive field organization of ON- and OFF-center retinal ganglion cells
- 16:10 - 16:25 Break
- 16:25 - 16:50 Tiffany A. Schmidt
Diversity of intrinsic and extrinsic influences on intrinsically photosensitive retinal ganglion cells
- 16:50 - 17:15 Kevin L. Briggman
Retinal circuit reconstruction using serial block-face scanning electron microscopy
- 17:15 - 18:00 Best student poster award, final discussion, suggestions, critics
- 18:00 Departure