

European Retina Meeting 2007 – List of Abstracts

S1: Development and plasticity		
Oral presentations: Oct. 4, 14:15-17:15 in lecture hall		
S1-T01	<u>Rachel Wong</u> , Rachel Huckfeldt, Josh Morgan, Daniel Kerschensteiner	Circuit development in the vertebrate retina
S1-T02	German Pinzon-Duarte, Mary Manglapus, Gerard Daly, Viktoria Denes, <u>William J. Brunken</u>	Genetic deletion of laminin disrupts retinal development and organization
S1-T03	<u>Hanna Regus-Leidig</u> , Susanne tom Dieck, Dana Specht, Johann Helmut Brandstätter	Assembly of photoreceptor ribbon synapses from a heterogeneous population of precursor spheres
S1-T04	<u>David R. Copenhagen</u> , Ann Marie Schreiber, Vincent Wu, Michael L. Robinson, Matthew M. LaVail, Xiaorong Liu	The overlapping and distinct roles of NT-3 and BDNF in the refinement of RGC dendritic structures during postnatal development
S1-T05	Minggang Chen, Shijun Weng, Qiudong Deng, <u>Shigang He</u>	Light independent formation of a retina circuitry for coding motion directions
Poster presentations: Oct. 4, 18:30-21:00 and Oct. 5, 13:30-16:00 in R301		
S1-P01	<u>Jacqueline Reinhard</u> , Andrea Horvat Bröcker, Andreas Faissner	Protein tyrosine phosphatase MEG2 is spatial and temporal regulated in the developing retina and is expressed in the retinal stem cell niche
S1-P02	<u>Manuela Besser</u> , Andreas Faissner	Functional role of RPTP- β Isoforms in the developing mouse visual system
S1-P03	<u>Leanne Godinho</u> , Philip R. Williams, Yvonne Claassen, Elayne Provost, Steven D. Leach, Maarten Kamermans, Rachel Wong	In vivo imaging of horizontal cell precursor division in the developing zebrafish retina

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S1-P04	<u>Stefan Kustermann</u> , Herbert Hildebrandt, Sylvia Bolz, Eberhart Zrenner, Konrad Kohler	Polysialylated NCAM in persistent neurogenesis in the zebrafish retina
S1-P05	<u>Arnold Szabó</u> , Dóra Végvári, Gábor Deák, Ákos Lukáts, Ágnes Ida Berta, Ágoston Szél	The expression of erythropoietin and its receptor in the developing rat retina
S1-P06	<u>Blanca Arango-González</u> , Germán Pinzón-Duarte, Arnold Szabó, Elke Guenther, Konrad Kohler	Development of S- and M-cones in the in vivo and the in vitro rat retina
S1-P07	<u>Anika Glaschke</u> , Leo Peichl, Martin Glösmann	Thyroid hormone controls cone opsin expression in mice postnatally
S1-P08	<u>Ákos Lukáts</u> , Gergely Halász, Viktória Doma, Arnold Szabó, Ágnes Ida Berta, Pál Röhlich, Ágoston Szél	The effect of thyroid hormone substitution on M/L-cone development in in vitro organotypic retinal culture
S1-P09	<u>J. Johnson</u> , V. R. Wu, R. H. Edwards, D. R. Copenhagen	Vesicular glutamate release from photoreceptors is required for maintenance of synapses in the outer retina
S1-P10	<u>Silke Haverkamp</u> , Martin Biel, Stylianos Michalakis	Dissecting the role of rod and cone photoreceptor function in horizontal cell sprouting
S1-P11	<u>Isabella Spiwoks-Becker</u> , Holger Jastrow, Lutz Vollrath	Exposure to constant darkness results in the formation of ectopic synaptic ribbons in bipolar cell dendrites near rod cell spherules: hints for a retrograde information channel in the retina?
S1-P12	<u>Stefano Di Marco</u> , Vincent Nguyen, Rita Maccarone, Dario A Protti, Silvia Bisti	Long-term dark-rearing induces permanent morpho-functional reorganization in retinal circuits
S1-P13	<u>Elke Guenther</u> , Horst Henning, Hermine Wenzlaff, Konrad Kohler, Susanne Schmid	Light-dependent regulation of NMDA receptor contribution to excitatory synaptic currents in ganglion cells of the rat retina

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S1-P14	David M. Sherry	Reelin signaling defects disrupt the morphology and functional synaptic organization of All amacrine cells
S1-P15	<u>Timm Schubert</u> , Daniel Kerschensteiner, Thomas Misgeld, Martin Kerschensteiner, Erika D. Eggers, Jeff Lichtman, Peter Lukasiewicz, Rachel O. Wong	Developmental time courses of glycinergic and GABAergic inhibition at bipolar cell axon terminals in the mouse retina
S1-P16	<u>Stephen J. Eglén</u> , Christopher Adams, Christoph Echtermeyer, Marcus Kaiser, Jennifer Simonotto, Evelyne Sernagor	The CARMEN project: Large-scale analysis of spontaneous retinal activity during development
S1-P17	Matthias H. Hennig	Modelling spontaneous activity in the developing retina
S1-P18	<u>F. Klefenz</u> , V. Hardzeyeu	On modelling orientation selectivity by a feed forward timing neural network based on the self-learning of the hough transform
S2: Retinal Circuits I		
Oral presentations: Oct. 5, 9:00-12:00 in lecture hall		
S2-T01	Heinz Wässle	Glycinergic inhibition in the mammalian retina
S2-T02	Trisha L. Kalbaugh, Jun Zhang, <u>Jeffrey S. Diamond</u>	Subunit-specific localization and function of NMDARs in rat ganglion cells
S2-T03	Amane Koizumi, Tatjana C. Jakobs, <u>Richard H. Masland</u>	The spatial distribution of PSD95 sites upon diverse types of retinal ganglion cells follows a single generic plan
S2-T04	<u>David Balya</u> , Pamela S. Lagali, Gautam B. Awatramani	Retinal repair by circuit-specific intervention with an optical neuromodulator
S2-T05	<u>Robert F. Miller</u> , E. R. Stevens, E. C. Gustafson, M. Esguerra	Modulation of NMDA receptors in the retina through static and dynamic mechanisms of D-serine regulation

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Poster presentations: Oct. 4, 18:30-21:00 and Oct. 5, 13:30-16:00 in R401		
S2-P01	<u>Dana Specht</u> , Susanne tom Dieck, Hanna Regus-Leidig, Johann Helmut Brandstätter	Molecular aspects of cytomatrix dynamics at the photoreceptor ribbon synapse
S2-P02	<u>Arlene A. Hirano</u> , Johann Helmut Brandstätter, Nicholas C. Brecha	Evidence that horizontal cell transmitter release is mediated by a vesicular mechanism
S2-P03	<u>Andreas Feigenspan</u> , Petra Dirks, Reto Weiler	Functional expression of ether-à-gogo related gene (erg1) potassium channels in horizontal cells of the mammalian retina: implications for the modulation of photopic vision
S2-P04	<u>Gerrit Hilgen</u> , Konrad Schultz, Jennifer Shelley, Luis Pérez de Sevilla Müller, Petra Dirks, Sonja Hombach, Klaus Willecke, Reto Weiler, Ulrike Janssen-Bienhold	Localization of connexin57 in dendro-dendritic and axo-axonal gap junctions of mouse horizontal cells
S2-P05	<u>Mario Pieper</u> , Karin Dedek, Reto Weiler	Uncoupling of horizontal cells does not alter the membrane properties of bipolar cells in the mouse retina
S2-P06	<u>Iris Fahrenfort</u> , Trijntje Sjoerdsma, Jan Klooster, Maarten Kamermans	GABAergic modulation of negative feedback from horizontal cells to cones in the goldfish
S2-P07	<u>Jan Klooster</u> , Georg Zoidl, Rolf Dermietzel, Maarten Kamermans	Ultrastructural localization of Pannexin1, the ionotropic ATP receptor subunit P2X7 and the metabotropic ATP receptor P2Y2 in the zebrafish retina
S2-P08	<u>Christina Joselevitch</u> , Jan Klooster, Maarten Kamermans	Localization of metabotropic glutamate receptors in the outer plexiform layer of the goldfish retina
S2-P09	<u>Susanne tom Dieck</u> , Dana Specht, Sriparna Majumdar, Wilma Wasco, Silke Haverkamp	Mouse type 4 OFF cone bipolar cells express Calsenilin and contact rod photoreceptors

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S2-P10	<u>Nicolás Cuenca</u> , Rima Barhoum, Gema Martínez-Navarrete, Silvia Corrochano, Francisco Germain, Enrique J. de la Rosa, Pedro de la Villa	Time course of functional and structural modifications during retinal degeneration in the RD10 mouse
S2-P11	<u>Martin Glösmann</u> , Leo Peichl	Light degeneration in the rat retina - revealing a novel type of cone bipolar cell?
S2-P12	Samuel M. Wu	Rod and cone bipolar cell synaptic pathways in the mouse retina
S2-P13	<u>Wei Li</u> , Steven H. DeVries	Rapid kinetics of the rod to Off cone bipolar cell synapse in a mammalian retina
S2-P14	<u>Luis Pérez de Sevilla Müller</u> , Reto Weiler	Amacrine cells of the mouse retina
S2-P15	<u>Jan Weiss</u> , Heinz Wässle	Glycinergic input of small-field amacrine cells in the retinas of wildtype and glycine receptor deficient mice
S2-P16	<u>Sriparna Majumdar</u> , Jan Weiss, Heinz Wässle	Glycine receptors of (displaced) wide field amacrine cells of the mouse retina
S2-P17	<u>Margaret Lin Veruki</u> , Silje Bakken Gill, Espen Hartveit	Glycine receptor properties differentially shape glycinergic input to amacrine cells in the rat retina
S2-P18	<u>Jens Duebel</u> , B. Gross-Scherf, S. Siegert, B. Roska	Functional analysis of a novel amacrine cell type in the mouse retina expressing the vesicular glutamate transporter 3 (vGluT3)
S2-P19	<u>Sandra Siegert</u> , Brigitte Gross Scherf, Gensat Team, Nathaniel Heintz, Botond Roska	Selective labeling of an inner plexiform layer stratum in a novel transgenic mouse line
S2-P20	Thomas A. Münch, Sandra Siegert, Rava Azeredo da Silveira, <u>Botond Roska</u>	A looming sensitive circuit in the mammalian retina

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S2-P21	<u>Tim James Viney</u> , Kamill Balint, Daniel Hillier, Sandra Siegert, Zsolt Boldogkoi, Lynn W. Enquist, Markus Meister, Constance L. Cepko, Botond Roska	Transsynaptic tracing reveals that dopaminergic amacrine cells are presynaptic to intrinsically photosensitive melanopsin-expressing ganglion cells in the mouse retina
S2-P22	<u>Paul Witkovsky</u> , Robert Gabriel	Anatomical and neurochemical organization of dopaminergic interplexiform varicosities in rodent retinas
S2-P23	Iona D. Raymond, Angela Pool, Alex Vila, <u>Nicholas C. Brecha</u>	Thy1-CFP expressing ganglion cells in the DBA/2J mouse model of pigmentary glaucoma
S2-P24	<u>Michiel van Wyk</u> , W. Rowland Taylor, Heinz Wässle	Synaptic mechanisms shaping the light-evoked responses of A-type ganglion cells in the mouse retina
S2-P25	T. Märker, N. Overlack, E. van Wijk, R. Roepman, H. Kremer, J. Reiners, <u>Uwe Wolfrum</u>	Synaptic localization of a protein network related to the human Usher syndrome in the mammalian retina
S2-P26	<u>Mrinalini Hoon</u> , Gabriele Bauer, Annarita Patrizi, Marco Sassoè-Pognetto, Jean-Marc Fritschy, Tobias Moser, Nils Brose, Björn Falkenburger, Frédérique Varoqueaux	Morphological and functional characterization of neuroligin2 in the mouse retina
S2-P27	<u>Aleksandra Ivanovic</u> , Mrinalini Hoon, Gabriele Bauer, Frédérique Varoqueaux, Tobias Moser, Nils Brose	Deficiency of 4.1 proteins leads to mislocalisation of synapse components in the mouse retina
S2-P28	Melanie Rose, <u>Eva Dütting</u> , Ralf Enz	Band 4.1 proteins are expressed in the retina and interact with both isoforms of the metabotropic glutamate receptor type 8
S2-P29	<u>Ralf Enz</u> , Heinrich Sticht, Johann Helmut Brandstätter, Nadja Schröder, Eva Dütting, Melanie Rose	Molecular mechanisms that define the interaction between neurotransmitter receptors and protein phosphatase 1 in the mammalian retina

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S2-P30	<u>Angela Seebahn</u> , Jeannine Mohrlüder, Ralf Enz	Structure determination of metabotropic glutamate receptor C-Terminal domains
S2-P31	<u>Benjamin Cooper</u> , Monika Altwein, Johann H. Brandstätter, Frédérique Varoqueaux	All Munc13 isoforms are expressed and differentially distributed in the mouse retina
S2-P32	<u>Kevin L. Briggman</u> , H. Horstmann, W. Denk	Neural circuit reconstruction using serial block-face scanning electron microscopy
S2-P33	<u>Kamill Balint</u> , Z. Boldogkoi, T. Viney, B. Roska	Novel transsynaptic virus tools for the study of visual circuits
S3: Retinal Circuits II		
Oral presentations: Oct. 5, 16:20-18:55 in lecture hall		
S3-T01	<u>Steven H. DeVries</u> , Wei Li	Bipolar cell circuits for dichromatic color vision
S3-T02	<u>Ulrike Grünert</u> , Ildiko Telkes, Sammy S. C. S. Lee, Patricia R. Jusuf	Connectivity of OFF midget bipolar cells in the retina of the marmoset monkey
S3-T03	<u>Thorsten Hansen</u> , Lars Pracejus, Karl R. Gegenfurtner	Color perception in the peripheral visual field
S3-T04	<u>Maarten Kamermans</u> , Colleen Shields, Iris Fahrenfort, Trijntje Sjoerdsma, Jan Klooster, Yvonne Claassen	Zebrafish Cx55.5(C54X) 'knock outs' have deficits in cone-mediated vision
Poster presentations: Oct. 4, 18:30-21:00 and Oct. 5, 13:30-16:00 in R401		
S3-P01	<u>Christian Puller</u> , Silke Haverkamp	Anatomical features of the S-cone pedicle synapse

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S3-P02	<u>Brigitte Müller</u> , Martin Glösmann, Leo Peichl	Cone photoreceptors and ultraviolet vision in flower bats (Microchiroptera, Phyllostomidae)
S3-P03	<u>Tobias Breuninger</u> , Thomas Euler	Color TV for mice - Responses of mouse retinal neurons to dichromatic stimulation
S3-P04	<u>Kenkichi Fukurotani</u> , D. Thanapatay, Y. Nakashima	Cone inputs of horizontal cells in the retina of japanese dace
S3-P05	<u>Trijntje Sjoerdsma</u> , Yvonne Claassen, Colleen Shields, Maarten Kamermans	Optokinetic response properties in zebrafish Cx55.5 (C54X) 'knock outs' and WT larvae
S4: Spatio-temporal computing / coding in the retina		
Oral presentations: Oct. 6, 9:00-12:00 in lecture hall		
S4-T01	Markus Meister	Eyes smarter than scientists believed: neural computations in the retina
S4-T02	<u>Leon Lagnado</u> , Elena Dreosti, Benjamin Odermatt	Sustained and transient signals in the synaptic terminals of retinal bipolar cells imaged in vivo
S4-T03	<u>Gabe J. Murphy</u> , Fred M. Rieke	Source, properties, and impact of network variability on action potential generation in retinal ganglion cells
S4-T04	<u>Andreas Thiel</u> , I. Winzenborg, M. Greschner, J. Ammermüller, J. Kretzberg	A comparison of rate coding and latency coding based on velocity and acceleration sensitivity in turtle retinal ganglion cells
S4-T05	Jakob H. Macke, Günther Zeck, <u>Matthias Bethge</u>	Receptive fields without spike-triggering
Poster presentations: Oct. 4, 18:30-21:00 and Oct. 5, 13:30-16:00 in R303		
S4-P01	<u>Thibaud Debaecker</u> , Ryad Benosman	Bio-inspired model of visual information codification for localization: from the retina to the Lateral Geniculate Nucleus

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S4-P02	<u>Alexandre Benoit</u> , A. Caplier, B. Durette, J. Herault	From bio-inspired vision toolbox to real-time computer vision algorithms
S4-P03	<u>Barthélémy Durette</u> , A. Benoit, B. Chaix de Lavarène, D. Alleysson, J. Héroult	A biomimetic real time retinal simulation software with non separable spatiotemporal processing, chromaticity and non linear local adaptivity
S4-P04	<u>Yoshimi Kamiyama</u> , Samuel M. Wu, Shiro Usui	Simulation analysis of the band-pass filtering of the rod network
S4-P05	<u>Duco Endeman</u> , Hans van Hateren, Maarten Kamermans	Cones perform a nonlinear transformation on a natural time series of intensities
S4-P06	<u>Günther Zeck</u> , A. Lambacher, P. Fromherz	Comparison of ganglion cell recording with metal-electrode arrays and transistor-arrays (MTA)
S4-P07	<u>Benjamin Odermatt</u> , Leon Lagnado	In vivo imaging of synaptic exocytosis in the retina of zebrafish
S4-P08	<u>Elena Dreosti</u> , Benjamin Odermatt, Leon Lagnado	In vivo imaging of presynaptic calcium signals in the retina of zebrafish
S4-P09	<u>Xavier Castell</u> , Winfried Denk, Thomas Euler	'Hotspots' of visually-evoked Ca ²⁺ signaling in starburst amacrine cell dendrites
S4-P10	<u>Le Sun</u> , Susanne Hausselt, Shigang He, Winfried Denk, Thomas Euler	Probing receptive-field organization of starburst amacrine cells with motion stimuli
S4-P11	<u>Martin Greschner</u> , Greg D. Field, Jeffrey Gauthier, Alexander Sher, Jonathon Shlens, Alan M. Litke, E. J. Chichilnisky	Direction sensitivity of response modulation in small bistratified ganglion cells of primate retina
S4-P12	<u>Jutta Kretzberg</u> , Imke C. G. Reimer, Léon M. Juárez Paz, Insa Winzenborg, Andreas Thiel	Time-scales of motion encoding in retinal ganglion cells

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S4-P13	<u>Carlos Mora-Ferrer</u> , K. Behrend, R. Schmidt-Hoffmann, B. Benkner	Spatio-temporal coding in the retina: A behavioral and electrophysiological study
S4-P14	<u>Nicolas Flores-Herr</u> , Stefano Di Marco, Vincent Nguyen, Dario Protti	The effect of ionotropic glutamate channel blockers on the surround inhibition of retinal ganglion cells in the mammalian retina
S4-P15	<u>Erich Diedrich</u> , Frank Schaeffel	Spatial resolution, contrast sensitivity and defocus detection of chick retinal ganglion cells
S4-P16	<u>Michael Engles</u> , L. M. Renzi, B. R. Hammond	The influence of chromatic blurring on spatial resolution
S4-P17	<u>William K. Stell</u> , Xingwu Zhong, Jian Ge, Earl L. Smith III	Selective activation of a subpopulation of GABAergic amacrine cells by focused and defocused images in macaque retina
S5: Retinal adaptation on different levels		
Oral presentations: Oct. 5, 13:30-16:00 in lecture hall		
S5-T01	Jonathan B. Demb	Function circuitry of visual adaptation
S5-T02	<u>Pedro de la Villa</u> , Javier Vicente, Nuria Forns	Intrinsically photosensitive retinal ganglion cells: functional role in light adaptation
S5-T03	<u>Stuart C. Mangel</u> , Christophe Ribelayga, Yu Cao	A circadian clock in the retina regulates rod-cone coupling
S5-T04	<u>Oliver Biehlmaier</u> , Corinne Hodel, Thomas Labhart, Stephan C. F. Neuhauss	Mutations in the Usher1B related gene myo7a lead to light adaptation defects in zebrafish
Poster presentations: Oct. 4, 18:30-21:00 and Oct. 5, 13:30-16:00 in R302		
S5-P01	<u>Valerie C. Fleisch</u> , Helia B. Schonthaler, Johannes von Lintig, Stephan C. F. Neuhauss	In vivo evidence for a second mechanism for visual pigment recycling in the cone-dominant retina of the zebrafish

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S5-P02	<u>Nina Räscho</u> , A. Scholten, P. Behnen, S. Rinkwitz, K.W. Koch	Expression profiles of the GCAP isoforms in the zebrafish retina exhibit spatial-temporal differences
S5-P03	<u>Mathias W. Seeliger</u> , M. Biel, P. Humphries, N. Tanimoto	Functional rod-cone interaction in the outer retina
S5-P04	<u>Jennifer Trümpler</u> , Timm Schubert, Luis Pérez de Sevilla Müller, Karin Dedek, Reto Weiler	Rod and cone contributions to horizontal cell light responses in the mouse retina
S5-P05	<u>Karin Burau</u> , Benjamin Odermatt, Leon Lagnado	Spinule dynamics in the synaptic terminal of bipolar cells in the zebrafish
S5-P06	<u>Akito Ishihara</u> , Yoshimi Kamiyama, Shiro Usui	Computational study of ionic mechanism to regulate light sensitivity range of retinal bipolar cell
S5-P07	<u>Gabriel C. Knop</u> , Karin Dedek, Hannah Monyer, Reto Weiler	Investigation of individual types of wide-field amacrine cells (WFAs) in the retina of a EGFP-expressing transgenic mouse line
S5-P08	<u>Karin Dedek</u> , Chethan Pandarinath, Nazia M. Alam, Kerstin Wellershaus, Klaus Willecke, Glen T. Prusky, Sheila Nirenberg, Reto Weiler	Ganglion cell adaptability: Does the coupling of horizontal cells play a role?
S5-P09	<u>Andreas Reichenbach</u> , Kristian Franze, Jens Grosche, Serguei N. Skatchkov, Stefan Schinkinger, Christian Foja, Detlev Schild, Ortrud Uckermann, Kort Travis, Jochen Guck	Müller cells as living optical fibers in the vertebrate retina
S5-P10	<u>Valiantsin Hardzeyeu</u> , Frank Klefenz	On modelling the contrast adaptation process in the lower retina layers

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Other topics		
Oral presentation: Oct. 5, 19:15-20:00 in lecture hall		
O-T01	David I. Vaney	Birthday lecture for Reto Weiler
Oral presentation: Oct. 4, 17:30-18:15 in lecture hall		
O-T02	<u>Eberhart Zrenner</u> , R. Wilke, T. Zabel, H. Sachs, K. Bartz-Schmidt, F. Gekeler, B. Wilhelm, U. Greppmaier, A. Harscher, G. Wrobel, A. Bruckmann, H. Benav, A. Stett	Subretinal microphotodiode-arrays for providing visual orientation to blind patients
O-T03	<u>Eberhart Zrenner</u> , J. Cunha-Vaz, J. Sahel, A. Sillito, Th. Wheeler-Schilling	The European vision institute
Poster presentations: Oct. 4, 18:30-21:00 and Oct. 5, 13:30-16:00 in R304		
O-P01	<u>Alexandr V. Bazhin</u> , Dirk Schadendorf, Pavel P. Philippov, Stefan B. Eichmüller	Cancer-retina antigens as putative triggers of retinal degeneration associated with melanoma
O-P02	E. N. Grigoryan, Yu. P. Novikova, O. V. Kilina, <u>Pavel P. Philippov</u>	A new method for long-term organotypic cultivation of the adult mammalian eye tissues: Application for study of the novel antioxidant SkQ1 as a protector of the mammalian retina
O-P03	<u>Sebastian Thaler</u> , F. Schuettauf, R. Rejdak, T. J. Choragiewicz, M. Fiedorowicz, T. Zarnowski, Z. Wypych, N. Knap, M. Wozniak, P. Grieb, E. Zrenner	Effects of the antioxidants tempol, tempol-C8-acyl-ester and PBN in a rat partial optic nerve crush model
O-P04	<u>Rita Maccarone</u> , S. DiMarco, S. Romeo, J. Fisher, T. Salmon, K. Valter, S. Bisti	Saffron treatment protects photoreceptors in environmental and genetically stressed retinas

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O-P05	<u>Francesca Mazzoni</u> , E. Novelli, E. Strettoi	Effects of photoreceptors degeneration on retinal ganglion cells: The rd10/Thy1-GFP mouse
O-P06	<u>Peter K. Ahnelt</u> , Enrique J. Fernández, Boris Hermann, Boris Považay, Angelika Unterhuber, Harald Sattmann, Wolfgang Drexler	Approaching (sub-)cellular resolution in in-vivo retinal imaging with ultrahigh resolution optical coherence tomography (UHR)
O-P07	Andrew T. E. Hartwick, Claire M. Hamilton, <u>William H. Baldrige</u>	Glutamatergic calcium dynamics in mammalian retinal ganglion cells
O-P08	<u>Katja Rillich</u> , Janina Gentsch, Michael Weick, Andreas Bringmann, Andreas Reichenbach	Ca ²⁺ responses of Müller cells induced by light stimulation of photoreceptor cells
O-P09	<u>E. Ulbricht</u> , S. Uhlmann, A. Reichenbach, M. Francke	Microglia activation in two different in vivo models
O-P10	<u>Janina Gentsch</u> , E. Ulbricht, F. Makarov, J. Grosche, A. Reichenbach, M. Francke	The morpho-functional organization of the retina of the elephant nose fish (<i>Gnathonemus petersii</i>)
O-P11	<u>Colette M. Maurer</u> , Helia B. Schönthaler, Yuri Makhankov, Stephan C. F. Neuhauss	The zebrafish mutant noir
O-P12	<u>Corinne Hodel</u> , Oliver Biehlmaier, Matthias Gesemann, Stephan C. F. Neuhauss	Localization of myosinVIIa in the zebrafish outer retina
O-P13	<u>Diana Karnas</u> , Hilmar Meissl	Multimicroelectrode recordings from the retinae of wildtype and Bassoon mutant mice
O-P14	<u>Josef Ammermüller</u> , J. H. Brandstätter, N. Brose, K. Reim	Effects of Complexin III and IV depletion on the mouse electroretinogram
O-P15	Nilton L. Kamiji, Hiroshi Ishikane, Tomokatsu Kawakita, Akito Ishihara, <u>Shiro Usui</u>	A-type potassium current in the goldfish Mb1 bipolar cells

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O-P16	<u>Michel J. Roux</u> , Yannick Schwab, Sercan Deniz, Eric Wersinger, José-Alain Sahel, Serge Picaud	Mice cone photoreceptors express functional GABA receptors
O-P17	<u>Heinrich Gerding</u> , Birgit Niggemann, Ullrich Thelen	A new type of minimal invasive retinal prosthesis with electrodes penetration the eye and the discovery of slow penetration as a working principle to minimize tissue damage and reaction towards intraretinal electrodes
O-P18	<u>Zdeka Bendová</u> , Kristýna Matějů, Alena Sumová	Light induction of clock genes Per1 and Per2 and immediate-early-gene c-fos within the retina of newborn Wistar rats
O-P19	<u>S. Behnam Jameie</u> , M. Nobakht, M. Abdolrahmani, B. Roozdar, P. Tabatabai	Retinal mechanisms induces synaptic plasticity in SCN and DLGN nuclei in light deprived rat neonates: An electron & light microscopic analysis
O-P20	<u>Henrik Mouritsen</u> , Miriam Liedvogel, Gesa Feenders, Manuela Zapka, Dominik Heyers, Ulrike Janssen-Bienhold, Kazuhiro Wada, Kiminori Maeda, Kevin Henbest, Erik Schleicher, Thomas Simon, Christiane R. Timmel, Peter J. Hore, Erich Jarvis, Reto Weiler	The role of the retina in the magnetic compass of migratory birds
O-P21	<u>Malte T. Ahlers</u> , Frauke Tillmans, Thomas Bolz, Achim Bahr, Thomas Friedl, Josef Ammermüller	Effects of electromagnetic field exposure on retinal ganglion cell responses