

European Retina Meeting 2009 – List of Abstracts

S1: Retinal circuits and adaptation		
Oral presentations: Oct. 8 th , 14:15 - 17:15 in lecture hall		
S1-T01	<u>Botond Roska</u>	<i>Seeing with and without classical photoreceptors</i>
S1-T02	<u>Tamas Szikra</u> , Peter Barabas, Theodore M. Bartoletti, Wei Helen Huang, Abram Akopian, Wallace B. Thoreson, David Krizaj	<i>Calcium homeostasis and cone signaling are regulated by interactions between calcium stores and plasma membrane ion channels</i>
S1-T03	<u>Duco Endeman</u> , Maarten Kamermans	<i>Activation of the calcium-dependent chloride current in cones reduces feedback from horizontal cells in the goldfish retina</i>
S1-T04	<u>Gabriel C. Knop</u> , Karin Dedek, Andreas Feigenspan, Reto Weiler	<i>Anatomy and physiology of type 2 dopaminergic amacrine cells in the mouse retina</i>
S1-T05	<u>Ben Sivyer</u> , Rowland Taylor, David Vaney	<i>Uniformity detector ganglion cells in rabbit retina</i>
Poster presentations: ground floor, seminar room 0 Posters with EVEN numbers are presented on Oct. 8 th , posters with ODD numbers on Oct. 9 th .		
S1-P01	<u>Jens Duebel</u> , Volker Buskamp, David Balya, Mathias Seeliger, Peter Humphries, Martin Biel, Karl Deisseroth, Mathias Fradot, Serge Picaud, Botond Roska	<i>Expression of halorhodopsin in photoreceptors restores ON and OFF visual channels in retinal degeneration</i>
S1-P02	<u>Volker Buskamp</u> , David Balya, Jens Duebel, Mathias Fradot, Sandra Siegert, Tim Viney, Anna Claire Groner, Mathias Seeliger, Martin Biel, Peter Humphries, Didier Trono, Karl Deisseroth, Serge Picaud, Botond Roska	<i>Targeted expression of a light-sensitive chloride pump to cone photoreceptors restores ON and OFF visual pathways in retinal degeneration</i>

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S1-P03	<u>Stuart C. Mangel</u> , Yu Cao, Christophe Ribelayga	<i>Light/dark-adaptive Regulation of chloride cotransporter expression and activity mediates the horizontal cell contribution to the receptive field surround of the ON pathway.</i>
S1-P04	<u>Stuart Trenholm</u> , William H. Baldrige	<i>Feedback and pH dynamics of goldfish retinal horizontal cells</i>
S1-P05	<u>Sercan Deniz</u> , Éric Wersinger, Yannick Schwab, José Alain Sahel, Serge Picaud, Michel Roux	<i>GABAergic transmission in the mouse outer retina</i>
S1-P06	Chenyang Guo, Arlene A. Hirano, Salvatore L. Stella, Jr., Michaela Bitzer, <u>Nicholas C. Brecha</u>	<i>Guinea pig horizontal cells express GABA, the GABA synthesizing enzyme, GAD65, and the GABA vesicular transporter</i>
S1-P07	<u>XiuMei Yang</u> , Wolfram Eichler, Andreas Reichenbach, Peter Wiedemann	<i>Regulation of pigment epithelial-derived factor in retinal glial (Müller) cells</i>
S1-P08	Petra Bolte, <u>Katharina Schmidt</u> , Ulrike Janssen-Bienhold, Reto Weiler	<i>Panx2 expression in the mouse retina</i>
S1-P09	Pedro Martinez, Claudio Elgueta, Angelina Palacios, Oliver Schmachtenberg, Erick Olivares, Agustín D. Martinez, <u>Adrian G. Palacios</u>	<i>Signaling in the retina of diurnal and nocturnal rodents mediate by retinal connexin 36 gap junctions</i>
S1-P10	Maarten Kamermans, <u>Lauw Klaassen</u>	<i>Differences between zebrafish lacking connexin 55.5 and wildtype fish in horizontal cell responses to red, green and blue light flashes</i>
S1-P11	Lauw Klaassen, Jorrit van Asselt, Ziyi Sun, Jan Klooster, Trijntje Sjoerdsma, Iris Fahrenfort, Yvonne Claassen, Georg Zoidl, Ulrike Janssen-Bienhold, Dough MacMahon, Colleen Shields, <u>Maarten Kamermans</u>	<i>Expression and function of zebrafish horizontal cell connexins</i>

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S1-P12	<u>J. B. van Asselt</u> , J. Klooster, Y. Claassen, M. Kamermans	<i>Characterization of zebrafish horizontal cell connexins</i>
S1-P13	Sebastian Hermann, Viola Knostmann, Reto Weiler, <u>Ulrike Janssen-Bienhold</u>	<i>Phosphorylation of the horizontal cell-specific connexin cpCx53.8 in the fish retina: effects of light, dopamine and all-trans retinoic acid</i>
S1-P14	<u>Gerrit Hilgen</u> , Julia von Maltzahn, Klaus Willecke, Reto Weiler, Karin Dedek	<i>Subcompartmental distribution of connexin45 on OFF bipolar cells in the mouse retina</i>
S1-P15	<u>Silke Haverkamp</u> , Katharina Ondreka, Christian Puller	<i>Bipolar cells of the mammalian retina: a species comparison</i>
S1-P16	<u>Rolf Herrmann</u> , Ekaterina S. Lobanova, Timothy Hammond, Christopher Kessler, Marie E. Burns, Laura J. Frishman, Vadim Y. Arshavsky	<i>Evidence for a novel pre-synaptic mechanism regulating the light sensitivity of the photoreceptor-to-ON bipolar cell synapse</i>
S1-P17	<u>Karl Farrow</u> , Botond Roska	<i>Receptive field adaptation of a large ON ganglion cell</i>
S1-P18	<u>Sandra Siegert</u> , Brigitte Gross Scherf, Erik Cabuy, Michael B. Stadler, Botond Roska	<i>Similarity of gene expression patterns within and across retinal circuits</i>
S2: Photoreceptors and color vision		
Oral presentations: Oct. 9 th , 9:00 -12:00 in lecture hall		
S2-T01	<u>Gerald H. Jacobs</u>	<i>Linking photopigments and color vision in mammals</i>
S2-T02	Irina Solovei, Yana Feodorova, Leo Peichl, <u>Boris Joffe</u>	<i>Inverted nuclei in mammalian rod photoreceptors: organization, putative role in the retina, and significance as an evolutionary marker</i>
S2-T03	<u>Alison L. Reynolds</u> , Ross F. Collery, Maria L. Cederlund, John J. O'Connor, Breandán N. Kennedy	<i>Electroretinography of a novel zebrafish model of human cone rod dystrophy 6</i>

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S2-T04	<u>Andreas Gießl</u> , Johanna Mühlhans, Johann Helmut Brandstätter	<i>Pericentrin, a centrosomal protein related to microcephalic primordial dwarfism, identified at the basal-body complex in mammalian photoreceptor cells</i>
S2-T05	<u>Daniele Dell’Orco</u> , Henning Schmidt, Simona Mariani, Francesca Fanelli	<i>Light adaptation in rod cells under normal and altered conditions: a computational network-level analysis</i>
<p>Poster presentations: ground floor, seminar room 2 Posters with EVEN numbers are presented on Oct. 8th, posters with ODD numbers on Oct. 9th.</p>		
S2-P01	Viktória Doma, Gergely Halász, Arnold Szabó, Ágnes I. Berta, Attila Magyar, György Végvári, Pál Röhlich, Ágoston Szél, <u>Ákos Lukáts</u>	<i>Similarities and differences in the development of M/L-cones in organotypic retinal cultures of Syrian golden hamster and Norwegian rat</i>
S2-P02	<u>Leo Peichl</u> , Francisco Bozinovic ² , Alex Vielma, Catherine A. Arrese, David M. Hunt, Adrian G. Palacios	<i>Spectral tuning and retinal distribution of photoreceptors in the South American marsupial <i>Thylamys elegans</i></i>
S2-P03	<u>Brigitte Müller</u> , Martin Glösmann, Leo Peichl, Gabriel C. Knop, Cornelia Hagemann, Josef Ammermüller	<i>Daylight vision in nocturnal bats</i>
S2-P04	<i>Left open intentionally</i>	
S2-P05	<u>Jan Kremers</u> , Mirella Barboni	<i>ERG signals driven by magno- and parvocellular pathways. Variable chromatic and luminance stimulus contents</i>
S2-P06	<u>Rauscher, F G</u> , Edgar, D F, Barbur J L	<i>Differential effects of ageing on foveal and peripheral colour vision</i>
S2-P07	<u>Kristian Donner</u>	<i>Impact and origin of L-cone noise</i>
S2-P08	<u>Lorenzo Cangiano</u> , Claudia Gargini, Luca Della Santina, Ilaria Piano, Sabrina Asteriti, Luigi Cervetto	<i>The photovoltage and membrane currents of mouse rods and cones</i>

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S2-P09	<u>Konstantin E. Komolov</u> , Ivan I. Senin, Nadezda A. Kovaleva, Mathias Christoph, Valeriya A. Churumova, Ilya I. Grigoriev, Pavel P. Philippov, Karl-Wilhelm Koch	<i>Turning off light-activated rhodopsin in rod cells – critical role of a ternary protein complex</i>
S2-P10	<u>J. Atorf</u> , D. Specht, M. Maw, J.H. Brandstätter, S. tom Dieck, J. Kremers	<i>Electroretinographic recordings in a mouse model for CSNB2 featuring mutations in the Cacna1f gene</i>
S2-P11	<u>Rätscho, N.</u> , Scholten, A., Koch, K.-W.	<i>Diversity of calcium sensor systems in cones of the zebrafish retina</i>
S2-P12	<u>Scholten, A.</u> , Koch K.-W.	<i>The Ca²⁺ relay model in vertebrate cone vision</i>
S2-P13	<u>Petra Behnen</u> , Karl-Wilhelm Koch	<i>Mutations in GCAP1 involved in hereditary cone dystrophy affect Ca²⁺ - signaling</i>
S2-P14	<u>Stylianos Michalakis</u> , Xiangang Zong, Elvir Becirovic, Martin Biel	<i>Role of the N-terminus of the CNGB1a subunit in rod photoreceptor CNG channel activation</i>
S2-P15	Colette M. Maurer, Matthias Gesemann, <u>Stephan C.F. Neuhaus</u>	<i>Diverse function of glutamate transporters at the photoreceptor synapse of zebrafish</i>
S2-P16	<u>Bernd Wissinger</u> , Bo Chang, Tanja Grau, Susann Dangel, Ron Hurd, Bernhard Jurklies, Cumhuri Sener, Sten Andreasson, Helene Dollfus, Susanne Kohl, John R. Heckenlively	<i>Identification of mutations in the PDE6C gene encoding the catalytic subunit of the cone phosphodiesterase in patients with achromatopsia and the murine cpfl1 mutant</i>
S2-P17	<u>J. Kaur</u> , S. Bolz, T. van Veen, B. Arango-Gonzalez	<i>Morphological characterization of the retinal degeneration in two rat models for Retinitis Pigmentosa: P23H-1 and S334ter-3 rhodopsin mutations</i>
S2-P18	<u>B. Arango-Gonzalez</u> , J. Kaur, T. van Veen	<i>Mechanism of photoreceptor cell death in P23H-1 and S334ter-3 mutant rhodopsin transgenic rats</i>
S2-P19	<u>U. Greferath</u> , H. Goh, E. L. Fletcher, M. Murphy	<i>Mapping retinal degeneration and loss of function in Rd-FTL mice</i>

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S2-P20	<u>Ayse Sahaboglu</u> , Theo Van Veen, Francois Paquet-Durand	<i>Investigation of cGMP mediated PARP activity in retinal degeneration</i>
S2-P21	Pia C. Jores, Nasrin Soroush, Erwin van Wijk, Katharina Bauß, Tina Maerker, Dilek Kilic, Ferry Kersten, Karsten Boldt, Nora Overlack, Christian J. Glöckner, Ronald Roepman, Marius Ueffing, Hannie Kremer, <u>Uwe Wolfrum</u>	<i>The protein network related to human Usher syndrome participate in ciliary cargo delivery in vertebrate photoreceptor cells</i>
S2-P22	<u>Tobias Breuninger</u> , Christian Puller, Kevin Briggman, Silke Haverkamp, Thomas Euler	<i>Chromatic pathways in the mouse retina</i>
S2-P23	<u>Ulrike Grünert</u> , Kumiko A. Percival, Patricia R. Jusuf, Paul R. Martin	<i>Synaptic inputs onto blue-ON/yellow-OFF ganglion cells in marmoset retina</i>
S3: Development and plasticity		
Oral presentations: Oct. 9 th , 15:45 – 18:45 in lecture hall		
S3-T01	Kevin Ford, Aaron Blankenship, <u>Marla B. Feller</u>	<i>Mechanisms underlying spontaneous activity in the developing retina</i>
S3-T02	<u>Finn Hallböök</u> , Henrik Boije, Shahrzad Shirazi Fard, Per-Henrik Edqvist	<i>Are the horizontal cells the odd-ones-out in the generation of retinal neurons?</i>
S3-T03	<u>Timm Schubert</u> , Rachel M. Huckfeldt, Richard D. Palmiter, Edward D. Parker, Rachel O. Wong	<i>Development of cone photoreceptor and horizontal cell connectivity in the absence of outer retinal GABA synthesis</i>
S3-T04	<u>Theresa Puthusser</u> , Jacqueline Gayet-Primo, W. Rowland Taylor	<i>Dynamics of rod bipolar cell responses in the mouse retina</i>

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S3-P01	<u>Qing Liu</u> , Hans Peter Iseli, Niclas Lindqvist, Martin Gryga, Peter Wiedemann, Mike Francke, Andreas Reichenbach	<i>Effects of blue light scleral cross-linking on rabbit eye growth</i>
S3-P02	<u>Marita Feldkaemper</u> , Michele Vogt, Eva Burkhardt, Frank Schaeffel	<i>Effects of insulin on eye growth, retinal dopamine and spatial vision in chicks and mice Introduction</i>
S3-P03	<u>Ute Mathis</u> , Frank Schaeffel	<i>Transforming growth factor-beta in the fundal layers of the chicken eye: an immunohistochemical study</i>
S3-P04	Matthias Rieke, Florian Frohns, <u>Paul G. Layer</u>	<i>Reconstructing retinal tissue: Wnt3a regulates laminar polarity in reaggregates of neonatal Mongolian rats, and RPE promotes their differentiation</i>
S3-P05	<u>F. Frohns</u> , G. Bachmann, T. Gopenath, M. Mager, P.G. Layer	<i>Retinal spheroids as quantitative assay models of retinogenesis: on network forming roles of cholinergic amacrine and Müller cells</i>
S3-P06	<u>Veronika Luft</u> , Klaus-Dieter Fischer, Andreas Faissner	<i>Functional role of Vav3 for the regulation and differentiation of neural stem/progenitor cells in the developing visual system</i>
S3-P07	<u>Pierre Voisin</u> , Marianne Bernard	<i>Cyclic AMP-dependent regulation of rhodopsin gene transcription in cultured retinal precursor cells of chicken embryo</i>
S3-P08	<u>Arnold Szabó</u> , Dóra Végvári, Attila Magyar, Gábor Deák, Ákos Lukáts, Ágnes Ida Berta, Ágoston Szél	<i>The expression of erythropoietin and its regulation during the postnatal development of the rat retina</i>
S3-P09	<u>Mario M. Dorostkar</u> , Elena Dreosti, Benjamin Odermatt, Leon Lagnado	<i>In vivo spontaneous regenerative activity in retinal bipolar cells of developing zebrafish</i>

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S3-P10	<u>Xiangming Shi</u> , Shigang He, Thomas Euler	<i>Development of direction selective neural circuit in mouse retina during early postnatal days</i>
S3-P11	<u>Keisuke Yonehara</u> , Hiroshi Ishikane, Hiraki Sakuta, Takafumi Shintani, Kayo Nakamura-Yonehara, Nilton L. Kamiji, Shiro Usui, Masaharu Noda	<i>Genetic identification of an ON direction-selective ganglion cell subtype</i>
S3-P12	<u>David R. Copenhagen</u> , Vincent Wu, Michael Donovan, René Rentería, Travis Porco, Russell N. Van Gelder, Juliette Johnson	<i>Melanopsin-dependent light avoidance in neonatal mice</i>
S3-P13	<u>Zdeňka Bendová</u> , Kristýna Matějů, Alena Sumová	<i>Development of the immediate-early-gene c-fos and principal circadian clock gene Per1 photoinduction within the Wistar rat retina</i>
S3-P14	H. Arda, <u>U. Yinon</u> , M. Rosner	<i>Electroretinographic evidence for neuronal plasticity in the retina of developing cats</i>
S3-P15	<u>Krisztina Szabadfi</u> , Tamas Atlasz, Gabor Horvath, Peter Kiss, Monika Griecs, Jozsef Farkas, Andrea Tamas, Andrea Lubics, Dora Reglodi, Robert Gabriel	<i>Early postnatal enriched environment decreases retinal degeneration induced by monosodium glutamate treatment in rats</i>
S3-P16	<u>I. Barone</u> , E. Novelli, E. Stretto	<i>Quantitative assessment of cone photoreceptors and blood vessel distribution in retinal degeneration</i>
S3-P17	<u>Pedro de la Villa</u> , Laura Fernández-Sánchez, Isabel Varela-Nieto, Nicolás Cuenca	<i>Functional and structural retinal modifications in the IGF-1 knock-out mouse</i>
S3-P18	<u>Abrez Hussain Batcha</u> , Una Greferath, Kirstan Vessey, Jess Nithianantharajah, Anthony Hannan, Erica Fletcher	<i>Inner retinal remodeling in the R6/1 transgenic mouse model of Huntington's disease</i>

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S3-P19	<u>Tamas Atlasz</u> , Krisztina Szabadfi, Eszter Banki, Katalin Csanaky, Peter Kiss, Dora Reglodi, Peter Gonczi, Aliz Szabo, Krisztina Kovacs, Gyorgy Jr. Setalo, Ferenc Jakab, Robert Gabriel	<i>Effects of pituitary adenylate cyclase activating polypeptide in diabetic retinopathy induced by streptozotocin in rats</i>
S3-P20	Le Sun, Xu Han, <u>Shigang He</u>	<i>Activity independent development of direction-selective circuitry in the mammalian retina</i>
S4: Neural computations in the retina		
Oral presentations: Oct. 10 th , 9:00-12:00 in lecture hall		
S4-T01	<u>E. J. Chichilnisky</u>	<i>The structure of the retinal receptive field at the elementary resolution of single cones</i>
S4-T02	<u>Günther Zeck</u>	<i>Electrical imaging of the ganglion cell layer in the rabbit and mouse retina</i>
S4-T03	<u>Markus Bongard</u> , Eduardo Fernández	<i>Fragments of the visual code: color and contrast, and a little bit of movement...</i>
S4-T04	<u>Tom Baden</u> , L. Lagnado	<i>Two in one: different synaptic terminals of individual bipolar cells exhibit different signaling properties depending on their size</i>
S4-T05	Evan D. Vickers, <u>Henrique von Gersdorff</u>	<i>Light-evoked short-term synaptic plasticity in the inner retina</i>
Poster presentations: first upper floor, P01 - P08 in seminar room 6 P09 - P18 in seminar room 5 Posters with EVEN numbers are presented on Oct. 8 th , posters with ODD numbers on Oct. 9 th .		
S4-P01	<u>Martin Greschner</u> , Jonathon Shlens, Greg D. Field, Jeffrey L. Gauthier, Alexander Sher, Constantina Bakolitsa, Alan M. Litke, E. J. Chichilnisky	<i>Synchronized firing across cell types in primate retina</i>

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S4-P02	<u>Christian Mendl</u> , Tim Gollisch	<i>Neuronal population coding in the retina in the presence of miniature eye movements</i>
S4-P03	<u>Vidhyasankar Krishnamoorthy</u> , Tim Gollisch	<i>Modulation of response properties in retinal ganglion cells by remote stimulation</i>
S4-P04	<u>Daniel Bölinger</u> , Tim Gollisch	<i>Closed-loop experiments on spatial contrast integration in the retina</i>
S4-P05	<u>Malte Ahlers</u> , Viola Knostmann, Josef Ammermüller	<i>Effects of temperature on retinal ganglion cell responses</i>
S4-P06	<u>Viola Knostmann</u> , Malte Ahlers, Josef Ammermüller	<i>High speed ganglion cell responses to moving stimuli in archer fish retina</i>
S4-P07	<u>León Mauricio Juárez Paz</u> , Jutta Kretzberg	<i>Turtle retinal ganglion cells encode stimulus movement by a cell specific population code</i>
S4-P08	<u>Alexander Cerquera</u> , Jan Freund	<i>Fast decoding and reconstruction of motions using multi-electrode information from retinal ganglion cells</i>
S4-P09	<u>Thomas A. Münch</u> , Rava Azeredo da Silveira, Sandra Siegert, Tim James Viney, Gautam B. Awatramani, Botond Roska	<i>Approach sensitivity in the retina processed by a multifunctional neural circuit</i>
S4-P10	<u>D. Balya</u> , T. J. Viney, B. Roska	<i>Quantitative analysis of the relationship between morphological and electrophysiological properties of a genetically defined subpopulation of ganglion cells</i>
S4-P11	<u>Tim J. Viney</u> , Thomas A. Münch, Botond Roska	<i>Spiking in genetically-identified retinal ganglion cells is encoded by dynamic excitatory inhibitory interactions</i>
S4-P12	<u>Alexandra Tikidji-Hamburyan</u> , Sofia Polevaya, Thomas Münch	<i>The asymmetry of color differential thresholds is due to the connectivity structure in the retina</i>

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S4-P13	V. M. Vergin, K. Behrend, R. Schmidt-Hoffmann, <u>C. Mora-Ferrer</u>	<i>The ON-channel contribution to visual abilities: Temporal resolution, motion perception and wavelength discrimination</i>
S4-P14	<u>Sanjeev Kumar Kaushalya</u> , Thomas Euler, Winfried Denk	<i>Measurement of dendritic voltage gradient in starburst amacrine cells using charged fluorescent probes</i>
S4-P15	<u>Akito Ishihara</u> , Yoshimi Kamiyama, Shiro Usui	<i>Analysis of the effect of inward currents on light sensitivities in retinal cone bipolar cell with the ionic current model</i>
S4-P16	<u>Yoshimi Kamiyama</u> , Yuichiro Sakuragi	<i>A model of retinal ganglion cell spike generation based on stochastic ion channels</i>
S4-P17	<u>Sirko Straube</u> , Jutta Kretzberg	<i>The influence of intra-retinal noise on the reliability</i>
S4-P18	<u>F. Klefenz</u> , V. Hardzeyeu, A. Heß, D. Krenzer	<i>The Hough transform as a bio-inspired real-time computer vision module</i>
S5: Synaptic organization of the retina		
Oral presentations: Oct. 10 th , 14:30 - 18:00 in lecture hall		
S5-T01	<u>R.G. Gregg</u> , J.N. Pearing, P. Bojang Jr, R.D. Nobles, S.J. Heflin, Y. Shen, M. Kammermans, S. Nawy, N.S. Peachey, M.A. McCall	<i>Signaling through depolarizing bipolar cells: lessons from disease models</i>
S5-T02	<u>Christian Puller</u> , Silke Haverkamp	<i>Protocadherin beta16 is localized at AMPA and kainate receptor expressing synapses in the primate retina</i>
S5-T03	<u>McCall, M.A.</u> , Nobles, R.D., Müller, U., Betz, H.	<i>Glycine receptor subunits $\alpha 2$ & $\alpha 3$ differentially contribute to receptive field organization of ON- and OFF-center retinal ganglion cells</i>
S5-T04	<u>Tiffany M. Schmidt</u> , Paulo Kofuji	<i>Diversity of intrinsic and extrinsic influences on intrinsically photosensitive retinal ganglion cells</i>

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S5-T05	<u>K.L. Briggman</u> , M. Helmstaedter, T. Euler, W. Denk	<i>Retinal circuit reconstruction using serial block-face scanning electron microscopy</i>
<p>Poster presentations: first upper floor, seminar room 5 Posters with EVEN numbers are presented on Oct. 8th, posters with ODD numbers on Oct. 9th.</p>		
S5-P01	<u>Mrinalini Hoon</u> , Holger Taschenberger, Tobias Moser, Nils Brose, Björn Falkenburger, Frédérique Varoqueaux	<i>Functional characterization of Neuroligins 3 and 4 in the mouse retina</i>
S5-P02	<u>Stephen C. Massey</u> , Friso R. Postma, Joyce Keung, David L. Paul	<i>Cone telodendria form the substrate for photoreceptor coupling</i>
S5-P03	<u>Olivia N. Dumitrescu</u> , Francesco G. Pucci, Kwoon Y. Wong, David M. Berson	<i>Ectopic retinal ON bipolar cell synapses in the OFF inner plexiform layer: contacts with dopaminergic amacrine cells and melanopsin ganglion cells</i>
S5-P04	<u>Michael Müller</u> , Maike Köster, Hachim Zaari and Karl-Wilhelm Koch	<i>Possible interaction partners of $G\alpha_0$ in the mGluR6 pathway in on-bipolar cells of the bovine retina</i>
S5-P05	<u>Stefanie M. Jones</u> , David N. Furness, Mary J. Palmer	<i>Differential localisation and subunit composition of GABAC receptors in bipolar cell terminals of the goldfish retina</i>
S5-P06	<u>Carla J. Abbott</u> , Kumiko A. Percival, Paul R. Martin, Ulrike Grünert	<i>Bipolar and amacrine input to midget and parasol ganglion cells in marmoset retina</i>
S5-P07	<u>Stephan Sonntag</u> , Ulrike Janssen-Bienhold, Kerstin Wellershaus, Konrad Schultz, Karin Dedek, Reto Weiler, Klaus Willecke	<i>Morphological and functional consequences of inducible ablation of retinal horizontal cells in living mice</i>
S5-P08	Immanuel Landgraf, Kerstin Reim, Nils Brose, Daniel Meinhard, <u>Josef Ammermüller</u>	<i>Differential impairment of ON and OFF pathways in the mouse retina in the absence of Complexins 3 and 4</i>

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S5-P09	<u>Johanna Mühlhans</u> , Kerstin Reim, Johann Helmut Brandstätter	<i>Cellular and sub-cellular distribution of Complexins in the mouse retina</i>
S5-P10	<u>Hanna Regus-Leidig</u> , Susanne tom Dieck, Johann Helmut Brandstätter	<i>Disturbed ribbon precursor sphere formation during photoreceptor synaptogenesis in the absence of Bassoon</i>
S5-P11	<u>Jacob Menzler</u> , Günther Zeck	<i>Network oscillation in rd1 retinas</i>
S5-P12	<u>Christine Julie Schlegel</u> , Jenny Atorf, Jan Kremers, Ralf Enz, Johann Helmut Brandstätter	<i>Examining the retina of the DBA/2J mouse – a model system for retinal neurodegeneration</i>
S5-P13	<u>Luis Perez de Sevilla Mueller</u> , Michael Tri H. Do, King Wai-Yau, Shigang He, William H. Baldrige	<i>Coupling patterns of ipRGCs</i>
S5-P14	<u>Margaret Lin Veruki</u> , Leif Oltedal, Espen Hartveit	<i>Passive membrane properties of All amacrine cells</i>
S5-P15	<u>Ilaria Pelassa</u> , Benjamin Odermatt, CongJian Zhao, Leon Lagnado	<i>Clathrin dynamics in ribbon synapses of retinal bipolar cells</i>
S5-P16	<u>Hoffmann S.</u> , Prochnow N., Vroman R., Klooster J., Bunse S., Kamermans M., Dermietzel R., Zoidl G.	<i>Pannexin1 forms hemichannels in the outer retina of the zebrafish</i>
S5-P17	<u>Eva Rozsa</u> , Jozsef Vigh	<i>GLYT1 glycine transporter modulates NMDA receptor function in goldfish retina</i>
Other topics		
<p>Poster presentations: P01 – P13 ground floor, seminar room 0 P14 – P25 ground floor, seminar room 2</p> <p>Posters with EVEN numbers are presented on Oct. 8th, posters with ODD numbers on Oct. 9th.</p>		
O-P01	<u>Gamze Küser</u> , Kuyaş Buğra Bilge, Neslihan Zöhrap	<i>The involvement of SIK2 in hyperglycemia-induced AKT inactivation and insulin resistance in MIO-M1 cells</i>

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O-P02	<u>Heidrun Kuhrt</u> , Andreas Reichenbach	<i>The glia-neuron index in various vertebrate retinas – general and comparative aspects</i>
O-P03	<u>Anett Karl</u> , Andreas Bringmann, Andreas Reichenbach	<i>Acute osmotic swelling and alterations in mitochondrial potential of retinal glial (Müller) cells evoked by glutamine - implications for hepatic retinopathy</i>
O-P04	<u>Regina Linnertz</u> , Thomas Pannicke, Antje Wurm, Ianors Iandiev, Christian Steinhäuser, Peter Wiedemann, Andreas Reichenbach, Andreas Bringmann	<i>Deletion of aquaporin-4 induces osmotic swelling in retinal Müller cells</i>
O-P05	<u>E. Ulbricht</u> , S. Uhlmann, U. Zeitschel, A. Reichenbach, M. Francke	<i>Comparison of microglia cell reaction after different intravitreal stimuli</i>
O-P06	<u>Silke Agte</u> , Sabrina Matthias, Josef Käs, Andreas Reichenbach	<i>Light propagation through the vertebrate retina</i>
O-P07	<u>Engles M.</u> , Wong J.C., Hammond B.R.	<i>Attenuation of the debilitating effects of chromatic aberration by the macular pigment as measured by contrast sensitivity</i>
O-P08	<u>Tatjana C. Jakobs</u> , Richard H. Masland	<i>The architecture of astrocytes and axons in the optic nerve head of the mouse</i>
O-P09	<u>Igor I. Pushchin</u> , Yuriy A. Karetin	<i>Topography, morphology, and diversity of the retinal ganglion cells in <i>Notophthalmus viridescens</i>, a North American newt</i>
O-P10	<u>Němec P.</u> , Krejčová T., Cveková P., Benada O., Peichl L.	<i>Photoreceptor properties and ganglion cell counts in subterranean African mole-rats (<i>Rodentia, Bathyergidae</i>)</i>
O-P11	<u>Karnas D.</u> , Hicks D., Pévet P., Mordel J., Meissl H.	<i>Intrinsically photosensitive ganglion cells in the retina of the diurnal rodent, <i>Arvicanthis ansorgei</i></i>
O-P12	<u>Bryan A. Daniels</u> , William H. Baldrige	<i>D-Serine inhibition of kainate/AMPA receptors in cultured rat retinal ganglion cells</i>

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O-P13	<u>Spring Farrell</u> , Iona Raymond, Salvatore Stella, Michael Foote, Nicholas Brecha, Steven Barnes	<i>Somatostatin receptor subtype 4 signaling to voltage-gated ion channels in mammalian retinal ganglion cells</i>
O-P14	<u>Tetsuhiro Harimoto</u> , Akito Ishihara, Takeshi Kawano, Makoto Ishida, Shiro Usui	<i>Multichannel recording of the electroretinogram via a silicon whisker multi-electrode array</i>
O-P15	<u>Max Eickenscheidt</u> , Günther Zeck, Peter Fromherz	<i>Epiretinal stimulation of rabbit retina with multi-capacitor-array</i>
O-P16	<u>I. Sliesoraityte</u> , A. Bernd, A. Kurtenbach, E. Zrenner	<i>Association between retinal nerve fibre layer thickness and ganglion cell function in Retinitis Pigmentosa patients</i>
O-P17	<u>E. von Hauff</u> , K. Fuchs, J. Parisi, R. Weiler, U. Kraushaar, E. Guenther, W. Haq, T. Ladewig, E. Zrenner, N. Paul, M. Lux-Steiner	<i>The development of a chemical retinal implant using molecularly imprinted polymer layers for the selective uptake and release of glutamate</i>
O-P18	<u>Simone Schimpf-Linzenbold</u> , Sukirthini Balendran, Bernd Wissinger	<i>Identification of allelic expression differences in retinal expressed disease genes</i>
O-P19	<u>Nicole Schneider</u> , Sönke Wimmers, Christoph Fahlke	<i>Glutamate transporters in retinal neurons</i>
O-P20	<u>Simona Braams</u> , Katharina Meyer, Christof Grewer, Thomas Rauen	<i>Glutamate transporters in the mammalian retina: expression and dynamic regulation</i>
O-P21	Claudia Gargini, Luca Della Santina, Lorenzo Cangiano, Andreas Ludwig, Ilaria Piano, Sabrina Asteriti, <u>Luigi Cervetto</u>	<i>Functional properties of the hyperpolarization-activated cyclic nucleotide-gated channels (HCN) in the retina of mice</i>
O-P22	<u>Nilton L. Kamiji</u> , Kazunori Yamamoto, Masahiro Yamada, Makoto Kurokawa, Akito Ishihara, Shiro Usui	<i>Electrophysiological and immunohistochemical evidence of an A-type potassium current in the goldfish Mb1 bipolar cells</i>
O-P23	Ul-Hussain M., Dermietzel R., <u>Zoidl G.</u>	<i>Characterization of the internal IRES element of the zebrafish connexin55.5: Evidence for light-dependent cytoplasmic to nucleus signalling</i>

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O-P24	<u>Friedrich Kretschmer</u> , Malte Ahlers, Daniel Meinhart, Immanuel Landgraf, Josef Ammermüller, Jutta Kretzberg	<i>Experimental setup for the reconstruction of both eye- and head-movements during visual stimulation from a single camera video stream</i>
O-P25	Manuela Zapka, Dominik Heyers, Miriam Liedvogel, Christine Maira Hein, Svenja Engels, Gesa Feenders, Jörg Hans, Ulrike Janssen-Bienhold, Reto Weiler, Martin Wild, Erich Jarvis, <u>Henrik Mouritsen</u>	<i>The magnetic compass of migratory birds is embedded in the visual system</i>
Special lectures		
SL-T01	<u>Reto Weiler</u>	<i>Sehen und Kunst: das kunstvolle Auge</i>
SL-T02	<u>Andreas Reichenbach</u>	<i>Müller cells: important players in vertebrate retina</i>
SL-T03	<u>John Dowling</u>	<i>What can a zebrafish see with only an OFF-pathway?</i>