Gerrit Hilgen

List of Publications by Year
in descending order

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28 papers	936 citations	567144 15 h-index	552653 26 g-index
34 all docs	34 docs citations	34 times ranked	1111 citing authors

#	Article	IF	Citations
1	Disrupted alternative splicing for genes implicated in splicing and ciliogenesis causes PRPF31 retinitis pigmentosa. Nature Communications, 2018, 9, 4234.	5.8	158
2	Human-Induced Pluripotent Stem Cells Generate Light Responsive Retinal Organoids with Variable and Nutrient-Dependent Efficiency. Stem Cells, 2018, 36, 1535-1551.	1.4	149
3	Unsupervised Spike Sorting for Large-Scale, High-Density Multielectrode Arrays. Cell Reports, 2017, 18, 2521-2532.	2.9	93
4	Systematic Comparison of Retinal Organoid Differentiation from Human Pluripotent Stem Cells Reveals Stage Specific, Cell Line, and Methodological Differences. Stem Cells Translational Medicine, 2019, 8, 694-706.	1.6	71
5	Decellularised extracellular matrix-derived peptides from neural retina and retinal pigment epithelium enhance the expression of synaptic markers and light responsiveness of human pluripotent stem cell derived retinal organoids. Biomaterials, 2019, 199, 63-75.	5.7	53
6	Connexin57 is expressed in dendroâ€dendritic and axoâ€axonal gap junctions of mouse horizontal cells and its distribution is modulated by light. Journal of Comparative Neurology, 2009, 513, 363-374.	0.9	46
7	All amacrine cells discriminate between heterocellular and homocellular locations when assembling connexin36-containing gap junctions. Journal of Cell Science, 2014, 127, 1190-202.	1.2	42
8	Rank Order Coding: a Retinal Information Decoding Strategy Revealed by Large-Scale Multielectrode Array Retinal Recordings. ENeuro, 2016, 3, ENEURO.0134-15.2016.	0.9	36
9	Human iPSC differentiation to retinal organoids in response to IGF1 and BMP4 activation is line- and method-dependent. Stem Cells, 2020, 38, 195-201.	1.4	36
10	Pan-retinal characterisation of Light Responses from Ganglion Cells in the Developing Mouse Retina. Scientific Reports, 2017, 7, 42330.	1.6	35
11	Subcellular distribution of connexin45 in OFF bipolar cells of the mouse retina. Journal of Comparative Neurology, 2011, 519, 433-450.	0.9	33
12	Transplanted Pluripotent Stem Cell-Derived Photoreceptor Precursors Elicit Conventional and Unusual Light Responses in Mice With Advanced Retinal Degeneration. Stem Cells, 2021, 39, 882-896.	1.4	32
13	Lack of the Sodium-Driven Chloride Bicarbonate Exchanger NCBE Impairs Visual Function in the Mouse Retina. PLoS ONE, 2012, 7, e46155.	1.1	28
14	Non-parametric Physiological Classification of Retinal Ganglion Cells in the Mouse Retina. Frontiers in Cellular Neuroscience, 2018, 12, 481.	1.8	24
15	Dampening Spontaneous Activity Improves the Light Sensitivity and Spatial Acuity of Optogenetic Retinal Prosthetic Responses. Scientific Reports, 2016, 6, 33565.	1.6	22
16	Human Retinal Organoids Provide a Suitable Tool for Toxicological Investigations: A Comprehensive Validation Using Drugs and Compounds Affecting the Retina. Stem Cells Translational Medicine, 2022, 11, 159-177.	1.6	18
17	Room temperature shipment does not affect the biological activity of pluripotent stem cell-derived retinal organoids. PLoS ONE, 2020, 15, e0233860.	1.1	14
18	Encoding of Tactile Stimuli by Mechanoreceptors and Interneurons of the Medicinal Leech. Frontiers in Physiology, 2016, 7, 506.	1.3	13

#	Article	IF	Citations
19	Higher Network Activity Induced by Tactile Compared to Electrical Stimulation of Leech Mechanoreceptors. Frontiers in Physiology, 2018, 9, 173.	1.3	5
20	A super-resolution approach for receptive fields estimation of neuronal ensembles. BMC Neuroscience, 2015, 16, .	0.8	4
21	Receptive field estimation in large visual neuron assemblies using a super-resolution approach. Journal of Neurophysiology, 2022, 127, 1334-1347.	0.9	4
22	A novel approach to the functional classification of retinal ganglion cells. Open Biology, 2022, 12, 210367.	1.5	4
23	Effects of Touch Location and Intensity on Interneurons of the Leech Local Bend Network. Scientific Reports, 2018, 8, 3046.	1.6	3
24	Segmentation of Retinal Ganglion Cells From Fluorescent Microscopy Imaging. , 2017, , .		3
25	Removing bleaching artifacts from voltage sensitive dye recordings with ICA. BMC Neuroscience, 2013, 14, .	0.8	1
26	Automatic Segmentation of Neurons from Fluorescent Microscopy Imaging. Communications in Computer and Information Science, 2018, , 121-133.	0.4	1
27	Connexin45 colocalization patterns in the plexiform layers of the developing mouse retina. Journal of Anatomy, 2023, 243, 258-264.	0.9	1
28	Human iPSC-Derived RPE and Retinal Organoids Reveal Impaired Alternative Splicing of Genes Involved in Pre-mRNA Splicing in <i>PRPF31</i> Autosomal Dominant Retinitis Pigmentosa Type 11. SSRN Electronic Journal, 0, , .	0.4	0