

Ian A Meinertzhagen

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5543755/ian-a-meinertzhagen-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113
papers

8,404
citations

46
h-index

91
g-index

123
ext. papers

9,873
ext. citations

7.8
avg, IF

5.89
L-index

#	Paper	IF	Citations
113	Connectome, <i>Drosophila</i> 2022 , 963-967		
112	A connectome is not enough - what is still needed to understand the brain of <i>Drosophila</i> ?. <i>Journal of Experimental Biology</i> , 2021 , 224,	3	3
111	Ultrastructural 3D reconstruction of the smallest known insect photoreceptors: The stemmata of a first instar larva of Strepsiptera (Hexapoda). <i>Arthropod Structure and Development</i> , 2021 , 62, 101055	1.8	
110	Neuronal Glutamatergic Synaptic Clefts Alkalinize Rather Than Acidify during Neurotransmission. <i>Journal of Neuroscience</i> , 2020 , 40, 1611-1624	6.6	10
109	A connectome and analysis of the adult central brain. <i>ELife</i> , 2020 , 9,	8.9	213
108	Novel type of sub-retinal pigment shield in the miniaturized compound eye of <i>Trichogramma evanescens</i> . <i>Journal of Comparative Neurology</i> , 2020 , 528, 167-174	3.4	
107	Neuronal identity: the neuron types of a simple chordate sibling, the tadpole larva of <i>Ciona intestinalis</i> . <i>Current Opinion in Neurobiology</i> , 2019 , 56, 47-60	7.6	15
106	Transcriptional Feedback Links Lipid Synthesis to Synaptic Vesicle Pools in <i>Drosophila</i> Photoreceptors. <i>Neuron</i> , 2019 , 101, 721-737.e4	13.9	10
105	Control of Synaptic Specificity by Establishing a Relative Preference for Synaptic Partners. <i>Neuron</i> , 2019 , 103, 865-877.e7	13.9	22
104	The Fly Brain Atlas. <i>Annual Review of Cell and Developmental Biology</i> , 2019 , 35, 637-653	12.6	16
103	Three-dimensional ultrastructural organization of the ommatidium of the minute parasitoid wasp <i>Trichogramma evanescens</i> . <i>Arthropod Structure and Development</i> , 2019 , 48, 35-48	1.8	5
102	The Organization of the Second Optic Chiasm of the Optic Lobe. <i>Frontiers in Neural Circuits</i> , 2019 , 13, 65	3.5	6
101	Comparisons between the ON- and OFF-edge motion pathways in the brain. <i>ELife</i> , 2019 , 8,	8.9	47
100	Morphology of Invertebrate Neurons and Synapses 2019 , 246-284		5
99	The peripheral nervous system of the ascidian tadpole larva: Types of neurons and their synaptic networks. <i>Journal of Comparative Neurology</i> , 2018 , 526, 583-608	3.4	32
98	Sidekick is required in developing photoreceptors to enable visual motion detection. <i>Development (Cambridge)</i> , 2018 , 145,	6.6	14
97	A resource for the antennal lobe provided by the connectome of glomerulus VA1v. <i>ELife</i> , 2018 , 7,	8.9	24

96	From two to three dimensions: The importance of the third dimension for evaluating the limits to neuronal miniaturization in insects. <i>Journal of Comparative Neurology</i> , 2018 , 526, 653-662	3.4	6
95	Of what use is connectomics? A personal perspective on the connectome. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	28
94	The world of the identified or digital neuron. <i>Journal of Neurogenetics</i> , 2018 , 32, 149-154	1.6	1
93	Circuit Homology between Decussating Pathways in the Ciona Larval CNS and the Vertebrate Startle-Response Pathway. <i>Current Biology</i> , 2017 , 27, 721-728	6.3	22
92	Perspective: A New Era of Comparative Connectomics 2017 , 509-518		1
91	The comprehensive connectome of a neural substrate for 'ON' motion detection in. <i>ELife</i> , 2017 , 6,	8.9	109
90	Author response: The comprehensive connectome of a neural substrate for ON motion detection in Drosophila 2017 ,		2
89	Mapping chromatic pathways in the Drosophila visual system. <i>Journal of Comparative Neurology</i> , 2016 , 524, 213-27	3.4	40
88	Connectome studies on Drosophila: a short perspective on a tiny brain. <i>Journal of Neurogenetics</i> , 2016 , 30, 62-8	1.6	13
87	The CNS connectome of a tadpole larva of (L.) highlights sidedness in the brain of a chordate sibling. <i>ELife</i> , 2016 , 5,	8.9	120
86	High-Probability Neurotransmitter Release Sites Represent an Energy-Efficient Design. <i>Current Biology</i> , 2016 , 26, 2562-2571	6.3	22
85	Mapping chromatic pathways in the Drosophila visual system. <i>Journal of Comparative Neurology</i> , 2016 , 524, Spc1-Spc1	3.4	
84	Co-localization of Gamma-Aminobutyric Acid and Glutamate in Neurons of the Spider Central Nervous System. <i>Cell and Tissue Research</i> , 2015 , 362, 461-79	4.2	9
83	Migratory neuronal progenitors arise from the neural plate borders in tunicates. <i>Nature</i> , 2015 , 527, 371-404	10.4	98
82	Synaptic circuits and their variations within different columns in the visual system of Drosophila. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13711-6	11.5	166
81	A common evolutionary origin for the ON- and OFF-edge motion detection pathways of the Drosophila visual system. <i>Frontiers in Neural Circuits</i> , 2015 , 9, 33	3.5	15
80	Histamine Recycling Is Mediated by CarT, a Carcinine Transporter in Drosophila Photoreceptors. <i>PLoS Genetics</i> , 2015 , 11, e1005764	6	22
79	Differential adhesion determines the organization of synaptic fascicles in the Drosophila visual system. <i>Current Biology</i> , 2014 , 24, 1304-1313	6.3	39

78	The irre cell recognition module (IRM) protein Kirre is required to form the reciprocal synaptic network of L4 neurons in the Drosophila lamina. <i>Journal of Neurogenetics</i> , 2014 , 28, 291-301	1.6	7
77	Candidate neural substrates for off-edge motion detection in Drosophila. <i>Current Biology</i> , 2014 , 24, 1062-70	3.0	81
76	A visual motion detection circuit suggested by Drosophila connectomics. <i>Nature</i> , 2013 , 500, 175-81	50.4	471
75	An endocrine disruptor, bisphenol A, affects development in the protochordate <i>Ciona intestinalis</i> : hatching rates and swimming behavior alter in a dose-dependent manner. <i>Environmental Pollution</i> , 2013 , 173, 257-63	9.3	19
74	Charcot-Marie-Tooth 2B mutations in rab7 cause dosage-dependent neurodegeneration due to partial loss of function. <i>ELife</i> , 2013 , 2, e01064	8.9	44
73	Drosophila Connectome 2013 , 1-6		
72	The synaptic vesicle SNARE neuronal Synaptobrevin promotes endolysosomal degradation and prevents neurodegeneration. <i>Journal of Cell Biology</i> , 2012 , 196, 261-76	7.3	38
71	Age-related plasticity in the synaptic ultrastructure of neurons in the mushroom body calyx of the adult honeybee <i>Apis mellifera</i> . <i>Journal of Comparative Neurology</i> , 2012 , 520, 3509-27	3.4	73
70	Different classes of input and output neurons reveal new features in microglomeruli of the adult Drosophila mushroom body calyx. <i>Journal of Comparative Neurology</i> , 2012 , 520, 2185-201	3.4	63
69	Organization and metamorphosis of glia in the Drosophila visual system. <i>Journal of Comparative Neurology</i> , 2012 , 520, 2067-85	3.4	43
68	Organization and metamorphosis of glia in the Drosophila visual system. <i>Journal of Comparative Neurology</i> , 2012 , 520, Spc1-Spc1	3.4	2
67	The genetic analysis of functional connectomics in Drosophila. <i>Advances in Genetics</i> , 2012 , 80, 99-151	3.3	29
66	The metabolism of histamine in the Drosophila optic lobe involves an ommatidial pathway: Alanine recycles through the retina. <i>Journal of Experimental Biology</i> , 2012 , 215, 1399-411	3	27
65	Wiring economy and volume exclusion determine neuronal placement in the Drosophila brain. <i>Current Biology</i> , 2011 , 21, 2000-5	6.3	133
64	Cholinergic circuits integrate neighboring visual signals in a Drosophila motion detection pathway. <i>Current Biology</i> , 2011 , 21, 2077-84	6.3	81
63	Biologically inspired EM image alignment and neural reconstruction. <i>Bioinformatics</i> , 2011 , 27, 2216-23	7.2	6
62	The organisation of invertebrate brains: cells, synapses and circuits. <i>Acta Zoologica</i> , 2010 , 91, 64-71	0.8	20
61	Importin-beta11 regulates synaptic phosphorylated mothers against decapentaplegic, and thereby influences synaptic development and function at the Drosophila neuromuscular junction. <i>Journal of Neuroscience</i> , 2010 , 30, 5253-68	6.6	31

60	The functional organisation of glia in the adult brain of <i>Drosophila</i> and other insects. <i>Progress in Neurobiology</i> , 2010 , 90, 471-97	10.9	153
59	<i>Drosophila</i> dscam proteins regulate postsynaptic specificity at multiple-contact synapses. <i>Neuron</i> , 2010 , 67, 761-8	13.9	54
58	Transcriptional orchestration of the regulated secretory pathway in neurons by the bHLH protein DIMM. <i>Current Biology</i> , 2010 , 20, 9-18	6.3	53
57	Synaptic connections of PDF-immunoreactive lateral neurons projecting to the dorsal protocerebrum of <i>Drosophila melanogaster</i> . <i>Journal of Comparative Neurology</i> , 2010 , 518, 292-304	3.4	40
56	Immunocytochemical localization of synaptic proteins to photoreceptor synapses of <i>Drosophila melanogaster</i> . <i>Journal of Comparative Neurology</i> , 2010 , 518, 1133-55	3.4	44
55	Brain plasticity in Diptera and Hymenoptera. <i>Frontiers in Bioscience - Scholar</i> , 2010 , 2, 268-88	2.4	28
54	Photoreceptor neurons find new synaptic targets when misdirected by overexpressing runt in <i>Drosophila</i> . <i>Journal of Neuroscience</i> , 2009 , 29, 828-41	6.6	24
53	Overexpressing temperature-sensitive dynamin decelerates phototransduction and bundles microtubules in <i>Drosophila</i> photoreceptors. <i>Journal of Neuroscience</i> , 2009 , 29, 14199-210	6.6	24
52	Cyclical expression of Na ⁺ /K ⁺ -ATPase in the visual system of <i>Drosophila melanogaster</i> . <i>Journal of Insect Physiology</i> , 2009 , 55, 459-68	2.4	36
51	Synaptic organization in the adult <i>Drosophila</i> mushroom body calyx. <i>Journal of Comparative Neurology</i> , 2009 , 517, 808-24	3.4	76
50	From form to function: the ways to know a neuron. <i>Journal of Neurogenetics</i> , 2009 , 23, 68-77	1.6	28
49	The neural substrate of spectral preference in <i>Drosophila</i> . <i>Neuron</i> , 2008 , 60, 328-42	13.9	213
48	Central projections of photoreceptor axons originating from ectopic eyes in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 8968-73	11.5	18
47	A glial variant of the vesicular monoamine transporter is required to store histamine in the <i>Drosophila</i> visual system. <i>PLoS Genetics</i> , 2008 , 4, e1000245	6	39
46	The white gene of <i>Drosophila melanogaster</i> encodes a protein with a role in courtship behavior. <i>Journal of Neurogenetics</i> , 2008 , 22, 243-76	1.6	38
45	Synaptic circuits of the <i>Drosophila</i> optic lobe: the input terminals to the medulla. <i>Journal of Comparative Neurology</i> , 2008 , 509, 493-513	3.4	163
44	Glutamate, GABA and acetylcholine signaling components in the lamina of the <i>Drosophila</i> visual system. <i>PLoS ONE</i> , 2008 , 3, e2110	3.7	84
43	Basigin/EMMPRIN/CD147 mediates neuron-glia interactions in the optic lamina of <i>Drosophila</i> . <i>Glia</i> , 2007 , 55, 1542-53	9	20

42	Neurons of the ascidian larval nervous system in <i>Ciona intestinalis</i> : I. Central nervous system. <i>Journal of Comparative Neurology</i> , 2007 , 501, 316-34	3.4	78
41	Neurons of the ascidian larval nervous system in <i>Ciona intestinalis</i> : II. Peripheral nervous system. <i>Journal of Comparative Neurology</i> , 2007 , 501, 335-52	3.4	67
40	Morphological and functional effects of altered cysteine string protein at the <i>Drosophila</i> larval neuromuscular junction. <i>Synapse</i> , 2007 , 61, 1-16	2.4	26
39	The dynamics of signaling at the histaminergic photoreceptor synapse of arthropods. <i>Progress in Neurobiology</i> , 2007 , 82, 202-27	10.9	63
38	Altered synaptic development and active zone spacing in endocytosis mutants. <i>Current Biology</i> , 2006 , 16, 591-8	6.3	128
37	Activity-independent prespecification of synaptic partners in the visual map of <i>Drosophila</i> . <i>Current Biology</i> , 2006 , 16, 1835-43	6.3	87
36	Development and structure of synaptic contacts in <i>Drosophila</i> . <i>Seminars in Cell and Developmental Biology</i> , 2006 , 17, 20-30	7.5	118
35	Eutely, cell lineage, and fate within the ascidian larval nervous system: determinacy or to be determined?. <i>Canadian Journal of Zoology</i> , 2005 , 83, 184-195	1.5	5
34	A slowed classical pathway rather than kiss-and-run mediates endocytosis at synapses lacking synaptojanin and endophilin. <i>Cell</i> , 2005 , 123, 521-33	56.2	152
33	Comprehensive analysis of the ascidian genome reveals novel insights into the molecular evolution of ion channel genes. <i>Physiological Genomics</i> , 2005 , 22, 269-82	3.6	83
32	<i>Drosophila tan</i> encodes a novel hydrolase required in pigmentation and vision. <i>PLoS Genetics</i> , 2005 , 1, e63	6	129
31	Basigin (EMMPRIN/CD147) interacts with integrin to affect cellular architecture. <i>Journal of Cell Science</i> , 2005 , 118, 2649-60	5.3	77
30	<i>Drosophila tan</i> encodes a novel hydrolase required in pigmentation and vision. <i>PLoS Genetics</i> , 2005 , preprint, e63	6	1
29	The neurobiology of the ascidian tadpole larva: recent developments in an ancient chordate. <i>Annual Review of Neuroscience</i> , 2004 , 27, 453-85	17	92
28	The central nervous system of the ascidian larva: mitotic history of cells forming the neural tube in late embryonic <i>Ciona intestinalis</i> . <i>Developmental Biology</i> , 2004 , 271, 239-62	3.1	109
27	Endophilin promotes a late step in endocytosis at glial invaginations in <i>Drosophila</i> photoreceptor terminals. <i>Journal of Neuroscience</i> , 2003 , 23, 10732-44	6.6	78
26	A genomewide survey of developmentally relevant genes in <i>Ciona intestinalis</i> . X. Genes for cell junctions and extracellular matrix. <i>Development Genes and Evolution</i> , 2003 , 213, 303-13	1.8	92
25	Mitochondria are redistributed in <i>Drosophila</i> photoreceptors lacking <i>milton</i> , a kinesin-associated protein. <i>Journal of Comparative Neurology</i> , 2003 , 463, 372-88	3.4	66

24	Synaptic connections of cholinergic antennal lobe relay neurons innervating the lateral horn neuropile in the brain of <i>Drosophila melanogaster</i> . <i>Journal of Comparative Neurology</i> , 2003 , 466, 299-313 ³⁻⁴	43
23	The protocadherin Flamingo is required for axon target selection in the <i>Drosophila</i> visual system. <i>Nature Neuroscience</i> , 2003 , 6, 557-63	25.5 138
22	tan and ebony genes regulate a novel pathway for transmitter metabolism at fly photoreceptor terminals. <i>Journal of Neuroscience</i> , 2002 , 22, 10549-57	6.6 104
21	The extraretinal eyelet of <i>Drosophila</i> : development, ultrastructure, and putative circadian function. <i>Journal of Neuroscience</i> , 2002 , 22, 9255-66	6.6 187
20	Synaptic organization of the mushroom body calyx in <i>Drosophila melanogaster</i> . <i>Journal of Comparative Neurology</i> , 2002 , 445, 211-26	3-4 225
19	Ebony protein in the <i>Drosophila</i> nervous system: optic neuropile expression in glial cells. <i>Journal of Comparative Neurology</i> , 2002 , 452, 93-102	3-4 63
18	The draft genome of <i>Ciona intestinalis</i> : insights into chordate and vertebrate origins. <i>Science</i> , 2002 , 298, 2157-67	33-3 1354
17	Endophilin mutations block clathrin-mediated endocytosis but not neurotransmitter release. <i>Cell</i> , 2002 , 109, 101-12	56.2 267
16	<i>Drosophila</i> VAP-33A directs bouton formation at neuromuscular junctions in a dosage-dependent manner. <i>Neuron</i> , 2002 , 35, 291-306	13.9 166
15	Axonal transport of mitochondria to synapses depends on milton, a novel <i>Drosophila</i> protein. <i>Neuron</i> , 2002 , 36, 1063-77	13.9 489
14	Visualization of synaptic markers in the optic neuropils of <i>Drosophila</i> using a new constrained deconvolution method. <i>Journal of Comparative Neurology</i> , 2001 , 429, 277-88	3-4 30
13	The larval ascidian nervous system: the chordate brain from its small beginnings. <i>Trends in Neurosciences</i> , 2001 , 24, 401-10	13-3 141
12	Tailbud Embryogenesis and the Development of the Neurohypophysis in the Ascidian <i>Ciona intestinalis</i> 2001 , 137-141	3
11	Organization of efferent peripheral synapses at mechanosensory neurons in spiders. <i>Journal of Comparative Neurology</i> , 2000 , 420, 195-210	3-4 20
10	Peripheral synapses at identified mechanosensory neurons in spiders: three-dimensional reconstruction and GABA immunocytochemistry. <i>Journal of Neuroscience</i> , 1999 , 19, 298-310	6.6 41
9	Neurotransmitter regulation of circadian structural changes in the fly's visual system. <i>Microscopy Research and Technique</i> , 1999 , 45, 96-105	2.8 39
8	A rapid method for combined laser scanning confocal microscopic and electron microscopic visualization of biocytin or neurobiotin-labeled neurons. <i>Journal of Histochemistry and Cytochemistry</i> , 1998 , 46, 263-73	3-4 12
7	Experience-dependent developmental plasticity in the optic lobe of <i>Drosophila melanogaster</i> . <i>Journal of Neuroscience</i> , 1997 , 17, 1493-504	6.6 124

6	The anatomical organization of the compound eye's visual system1-19		1
5	Control of Synaptic Specificity by Limiting Promiscuous Synapse Formation. <i>SSRN Electronic Journal</i> ,	1	1
4	Control of synaptic specificity by limiting promiscuous synapse formation		1
3	A Connectome of the Adult Drosophila Central Brain		46
2	A Connectome and Analysis of the Adult Drosophila Central Brain		10
1	En bloc preparation of Drosophila brains enables high-throughput FIB-SEM connectomics		7