

# Ian A Meinertzhagen

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/5543755/ian-a-meinertzhagen-publications-by-citations.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	The draft genome of <i>Ciona intestinalis</i> : insights into chordate and vertebrate origins. <i>Science</i> , <b>2002</b> , 298, 2157-67	33.3	1354
112	Axonal transport of mitochondria to synapses depends on Milton, a novel <i>Drosophila</i> protein. <i>Neuron</i> , <b>2002</b> , 36, 1063-77	13.9	489
111	A visual motion detection circuit suggested by <i>Drosophila</i> connectomics. <i>Nature</i> , <b>2013</b> , 500, 175-81	50.4	471
110	Endophilin mutations block clathrin-mediated endocytosis but not neurotransmitter release. <i>Cell</i> , <b>2002</b> , 109, 101-12	56.2	267
109	Synaptic organization of the mushroom body calyx in <i>Drosophila melanogaster</i> . <i>Journal of Comparative Neurology</i> , <b>2002</b> , 445, 211-26	3.4	225
108	The neural substrate of spectral preference in <i>Drosophila</i> . <i>Neuron</i> , <b>2008</b> , 60, 328-42	13.9	213
107	A connectome and analysis of the adult central brain. <i>ELife</i> , <b>2020</b> , 9,	8.9	213
106	The extraretinal eyelet of <i>Drosophila</i> : development, ultrastructure, and putative circadian function. <i>Journal of Neuroscience</i> , <b>2002</b> , 22, 9255-66	6.6	187
105	Synaptic circuits and their variations within different columns in the visual system of <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 13711-6	11.5	166
104	<i>Drosophila</i> VAP-33A directs bouton formation at neuromuscular junctions in a dosage-dependent manner. <i>Neuron</i> , <b>2002</b> , 35, 291-306	13.9	166
103	Synaptic circuits of the <i>Drosophila</i> optic lobe: the input terminals to the medulla. <i>Journal of Comparative Neurology</i> , <b>2008</b> , 509, 493-513	3.4	163
102	The functional organisation of glia in the adult brain of <i>Drosophila</i> and other insects. <i>Progress in Neurobiology</i> , <b>2010</b> , 90, 471-97	10.9	153
101	A slowed classical pathway rather than kiss-and-run mediates endocytosis at synapses lacking synaptojanin and endophilin. <i>Cell</i> , <b>2005</b> , 123, 521-33	56.2	152
100	The larval ascidian nervous system: the chordate brain from its small beginnings. <i>Trends in Neurosciences</i> , <b>2001</b> , 24, 401-10	13.3	141
99	The protocadherin Flamingo is required for axon target selection in the <i>Drosophila</i> visual system. <i>Nature Neuroscience</i> , <b>2003</b> , 6, 557-63	25.5	138
98	Wiring economy and volume exclusion determine neuronal placement in the <i>Drosophila</i> brain. <i>Current Biology</i> , <b>2011</b> , 21, 2000-5	6.3	133
97	<i>Drosophila</i> tan encodes a novel hydrolase required in pigmentation and vision. <i>PLoS Genetics</i> , <b>2005</b> , 1, e63	6	129

96	Altered synaptic development and active zone spacing in endocytosis mutants. <i>Current Biology</i> , <b>2006</b> , 16, 591-8	6.3	128
95	Experience-dependent developmental plasticity in the optic lobe of <i>Drosophila melanogaster</i> . <i>Journal of Neuroscience</i> , <b>1997</b> , 17, 1493-504	6.6	124
94	The CNS connectome of a tadpole larva of ( <i>L.</i> ) highlights sidedness in the brain of a chordate sibling. <i>ELife</i> , <b>2016</b> , 5,	8.9	120
93	Development and structure of synaptic contacts in <i>Drosophila</i> . <i>Seminars in Cell and Developmental Biology</i> , <b>2006</b> , 17, 20-30	7.5	118
92	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> , <b>2004</b> , 271, 239-62	3.1	109
91	The comprehensive connectome of a neural substrate for 'ON' motion detection in. <i>ELife</i> , <b>2017</b> , 6,	8.9	109
90	tan and ebony genes regulate a novel pathway for transmitter metabolism at fly photoreceptor terminals. <i>Journal of Neuroscience</i> , <b>2002</b> , 22, 10549-57	6.6	104
89	Migratory neuronal progenitors arise from the neural plate borders in tunicates. <i>Nature</i> , <b>2015</b> , 527, 371-404	10.4	98
88	The neurobiology of the ascidian tadpole larva: recent developments in an ancient chordate. <i>Annual Review of Neuroscience</i> , <b>2004</b> , 27, 453-85	17	92
87	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> , <b>2003</b> , 213, 303-13	1.8	92
86	Activity-independent prespecification of synaptic partners in the visual map of <i>Drosophila</i> . <i>Current Biology</i> , <b>2006</b> , 16, 1835-43	6.3	87
85	Glutamate, GABA and acetylcholine signaling components in the lamina of the <i>Drosophila</i> visual system. <i>PLoS ONE</i> , <b>2008</b> , 3, e2110	3.7	84
84	Comprehensive analysis of the ascidian genome reveals novel insights into the molecular evolution of ion channel genes. <i>Physiological Genomics</i> , <b>2005</b> , 22, 269-82	3.6	83
83	Candidate neural substrates for off-edge motion detection in <i>Drosophila</i> . <i>Current Biology</i> , <b>2014</b> , 24, 1062-70	7.0	81
82	Cholinergic circuits integrate neighboring visual signals in a <i>Drosophila</i> motion detection pathway. <i>Current Biology</i> , <b>2011</b> , 21, 2077-84	6.3	81
81	Neurons of the ascidian larval nervous system in <i>Ciona intestinalis</i> : I. Central nervous system. <i>Journal of Comparative Neurology</i> , <b>2007</b> , 501, 316-34	3.4	78
80	Endophilin promotes a late step in endocytosis at glial invaginations in <i>Drosophila</i> photoreceptor terminals. <i>Journal of Neuroscience</i> , <b>2003</b> , 23, 10732-44	6.6	78
79	Basigin (EMMPRIN/CD147) interacts with integrin to affect cellular architecture. <i>Journal of Cell Science</i> , <b>2005</b> , 118, 2649-60	5.3	77

78	Synaptic organization in the adult <i>Drosophila</i> mushroom body calyx. <i>Journal of Comparative Neurology</i> , <b>2009</b> , 517, 808-24	3.4	76
77	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> , <b>2012</b> , 520, 3509-27	3.4	73
76	Neurons of the ascidian larval nervous system in <i>Ciona intestinalis</i> : II. Peripheral nervous system. <i>Journal of Comparative Neurology</i> , <b>2007</b> , 501, 335-52	3.4	67
75	Mitochondria are redistributed in <i>Drosophila</i> photoreceptors lacking <i>milton</i> , a kinesin-associated protein. <i>Journal of Comparative Neurology</i> , <b>2003</b> , 463, 372-88	3.4	66
74	Different classes of input and output neurons reveal new features in microglomeruli of the adult <i>Drosophila</i> mushroom body calyx. <i>Journal of Comparative Neurology</i> , <b>2012</b> , 520, 2185-201	3.4	63
73	The dynamics of signaling at the histaminergic photoreceptor synapse of arthropods. <i>Progress in Neurobiology</i> , <b>2007</b> , 82, 202-27	10.9	63
72	Ebony protein in the <i>Drosophila</i> nervous system: optic neuropile expression in glial cells. <i>Journal of Comparative Neurology</i> , <b>2002</b> , 452, 93-102	3.4	63
71	<i>Drosophila</i> <i>dscam</i> proteins regulate postsynaptic specificity at multiple-contact synapses. <i>Neuron</i> , <b>2010</b> , 67, 761-8	13.9	54
70	Transcriptional orchestration of the regulated secretory pathway in neurons by the bHLH protein DIMM. <i>Current Biology</i> , <b>2010</b> , 20, 9-18	6.3	53
69	Comparisons between the ON- and OFF-edge motion pathways in the brain. <i>ELife</i> , <b>2019</b> , 8,	8.9	47
68	A Connectome of the Adult <i>Drosophila</i> Central Brain		46
67	Immunocytochemical localization of synaptic proteins to photoreceptor synapses of <i>Drosophila melanogaster</i> . <i>Journal of Comparative Neurology</i> , <b>2010</b> , 518, 1133-55	3.4	44
66	Charcot-Marie-Tooth 2B mutations in <i>rab7</i> cause dosage-dependent neurodegeneration due to partial loss of function. <i>ELife</i> , <b>2013</b> , 2, e01064	8.9	44
65	Organization and metamorphosis of glia in the <i>Drosophila</i> visual system. <i>Journal of Comparative Neurology</i> , <b>2012</b> , 520, 2067-85	3.4	43
64	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> , <b>2003</b> , 466, 299-313	3.4	43
63	Peripheral synapses at identified mechanosensory neurons in spiders: three-dimensional reconstruction and GABA immunocytochemistry. <i>Journal of Neuroscience</i> , <b>1999</b> , 19, 298-310	6.6	41
62	Mapping chromatic pathways in the <i>Drosophila</i> visual system. <i>Journal of Comparative Neurology</i> , <b>2016</b> , 524, 213-27	3.4	40
61	Synaptic connections of PDF-immunoreactive lateral neurons projecting to the dorsal protocerebrum of <i>Drosophila melanogaster</i> . <i>Journal of Comparative Neurology</i> , <b>2010</b> , 518, 292-304	3.4	40

60	Differential adhesion determines the organization of synaptic fascicles in the <i>Drosophila</i> visual system. <i>Current Biology</i> , <b>2014</b> , 24, 1304-1313	6.3	39
59	A glial variant of the vesicular monoamine transporter is required to store histamine in the <i>Drosophila</i> visual system. <i>PLoS Genetics</i> , <b>2008</b> , 4, e1000245	6	39
58	Neurotransmitter regulation of circadian structural changes in the fly's visual system. <i>Microscopy Research and Technique</i> , <b>1999</b> , 45, 96-105	2.8	39
57	The synaptic vesicle SNARE neuronal Synaptobrevin promotes endolysosomal degradation and prevents neurodegeneration. <i>Journal of Cell Biology</i> , <b>2012</b> , 196, 261-76	7.3	38
56	The white gene of <i>Drosophila melanogaster</i> encodes a protein with a role in courtship behavior. <i>Journal of Neurogenetics</i> , <b>2008</b> , 22, 243-76	1.6	38
55	Cyclical expression of Na <sup>+</sup> /K <sup>+</sup> -ATPase in the visual system of <i>Drosophila melanogaster</i> . <i>Journal of Insect Physiology</i> , <b>2009</b> , 55, 459-68	2.4	36
54	The peripheral nervous system of the ascidian tadpole larva: Types of neurons and their synaptic networks. <i>Journal of Comparative Neurology</i> , <b>2018</b> , 526, 583-608	3.4	32
53	Importin-beta11 regulates synaptic phosphorylated mothers against decapentaplegic, and thereby influences synaptic development and function at the <i>Drosophila</i> neuromuscular junction. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 5253-68	6.6	31
52	Visualization of synaptic markers in the optic neuropils of <i>Drosophila</i> using a new constrained deconvolution method. <i>Journal of Comparative Neurology</i> , <b>2001</b> , 429, 277-88	3.4	30
51	The genetic analysis of functional connectomics in <i>Drosophila</i> . <i>Advances in Genetics</i> , <b>2012</b> , 80, 99-151	3.3	29
50	From form to function: the ways to know a neuron. <i>Journal of Neurogenetics</i> , <b>2009</b> , 23, 68-77	1.6	28
49	Brain plasticity in Diptera and Hymenoptera. <i>Frontiers in Bioscience - Scholar</i> , <b>2010</b> , 2, 268-88	2.4	28
48	Of what use is connectomics? A personal perspective on the connectome. <i>Journal of Experimental Biology</i> , <b>2018</b> , 221,	3	28
47	The metabolism of histamine in the <i>Drosophila</i> optic lobe involves an ommatidial pathway: Glutamine recycles through the retina. <i>Journal of Experimental Biology</i> , <b>2012</b> , 215, 1399-411	3	27
46	Morphological and functional effects of altered cysteine string protein at the <i>Drosophila</i> larval neuromuscular junction. <i>Synapse</i> , <b>2007</b> , 61, 1-16	2.4	26
45	Photoreceptor neurons find new synaptic targets when misdirected by overexpressing runt in <i>Drosophila</i> . <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 828-41	6.6	24
44	Overexpressing temperature-sensitive dynamin decelerates phototransduction and bundles microtubules in <i>Drosophila</i> photoreceptors. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 14199-210	6.6	24
43	A resource for the antennal lobe provided by the connectome of glomerulus VA1v. <i>ELife</i> , <b>2018</b> , 7,	8.9	24

42	Circuit Homology between Decussating Pathways in the <i>Ciona</i> Larval CNS and the Vertebrate Startle-Response Pathway. <i>Current Biology</i> , <b>2017</b> , 27, 721-728	6.3	22
41	Control of Synaptic Specificity by Establishing a Relative Preference for Synaptic Partners. <i>Neuron</i> , <b>2019</b> , 103, 865-877.e7	13.9	22
40	Histamine Recycling Is Mediated by CarT, a Carcinine Transporter in <i>Drosophila</i> Photoreceptors. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005764	6	22
39	High-Probability Neurotransmitter Release Sites Represent an Energy-Efficient Design. <i>Current Biology</i> , <b>2016</b> , 26, 2562-2571	6.3	22
38	The organisation of invertebrate brains: cells, synapses and circuits. <i>Acta Zoologica</i> , <b>2010</b> , 91, 64-71	0.8	20
37	Basigin/EMMPRIN/CD147 mediates neuron-glia interactions in the optic lamina of <i>Drosophila</i> . <i>Glia</i> , <b>2007</b> , 55, 1542-53	9	20
36	Organization of efferent peripheral synapses at mechanosensory neurons in spiders. <i>Journal of Comparative Neurology</i> , <b>2000</b> , 420, 195-210	3.4	20
35	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> , <b>2013</b> , 173, 257-63	9.3	19
34	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> , <b>2008</b> , 105, 8968-73	11.5	18
33	The Fly Brain Atlas. <i>Annual Review of Cell and Developmental Biology</i> , <b>2019</b> , 35, 637-653	12.6	16
32	Neuronal identity: the neuron types of a simple chordate sibling, the tadpole larva of <i>Ciona intestinalis</i> . <i>Current Opinion in Neurobiology</i> , <b>2019</b> , 56, 47-60	7.6	15
31	A common evolutionary origin for the ON- and OFF-edge motion detection pathways of the <i>Drosophila</i> visual system. <i>Frontiers in Neural Circuits</i> , <b>2015</b> , 9, 33	3.5	15
30	Sidekick is required in developing photoreceptors to enable visual motion detection. <i>Development (Cambridge)</i> , <b>2018</b> , 145,	6.6	14
29	Connectome studies on <i>Drosophila</i> : a short perspective on a tiny brain. <i>Journal of Neurogenetics</i> , <b>2016</b> , 30, 62-8	1.6	13
28	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> , <b>1998</b> , 46, 263-73	3.4	12
27	Transcriptional Feedback Links Lipid Synthesis to Synaptic Vesicle Pools in <i>Drosophila</i> Photoreceptors. <i>Neuron</i> , <b>2019</b> , 101, 721-737.e4	13.9	10
26	Neuronal Glutamatergic Synaptic Clefts Alkalinize Rather Than Acidify during Neurotransmission. <i>Journal of Neuroscience</i> , <b>2020</b> , 40, 1611-1624	6.6	10
25	A Connectome and Analysis of the Adult <i>Drosophila</i> Central Brain		10

24	Co-localization of Gamma-Aminobutyric Acid and Glutamate in Neurons of the Spider Central Nervous System. <i>Cell and Tissue Research</i> , <b>2015</b> , 362, 461-79	4.2	9
23	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> , <b>2014</b> , 28, 291-301	1.6	7
22	En bloc preparation of Drosophila brains enables high-throughput FIB-SEM connectomics		7
21	The Organization of the Second Optic Chiasm of the Optic Lobe. <i>Frontiers in Neural Circuits</i> , <b>2019</b> , 13, 65	3.5	6
20	Biologically inspired EM image alignment and neural reconstruction. <i>Bioinformatics</i> , <b>2011</b> , 27, 2216-23	7.2	6
19	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> , <b>2018</b> , 526, 653-662	3.4	6
18	Three-dimensional ultrastructural organization of the ommatidium of the minute parasitoid wasp <i>Trichogramma evanescens</i> . <i>Arthropod Structure and Development</i> , <b>2019</b> , 48, 35-48	1.8	5
17	Eutely, cell lineage, and fate within the ascidian larval nervous system: determinacy or to be determined?. <i>Canadian Journal of Zoology</i> , <b>2005</b> , 83, 184-195	1.5	5
16	Morphology of Invertebrate Neurons and Synapses <b>2019</b> , 246-284		5
15	A connectome is not enough - what is still needed to understand the brain of Drosophila?. <i>Journal of Experimental Biology</i> , <b>2021</b> , 224,	3	3
14	Tailbud Embryogenesis and the Development of the Neurohypophysis in the Ascidian <i>Ciona intestinalis</i> <b>2001</b> , 137-141		3
13	Organization and metamorphosis of glia in the Drosophila visual system. <i>Journal of Comparative Neurology</i> , <b>2012</b> , 520, Spc1-Spc1	3.4	2
12	Author response: The comprehensive connectome of a neural substrate for DN motion detection in Drosophila <b>2017</b> ,		2
11	The anatomical organization of the compound eye's visual system1-19		1
10	Perspective: A New Era of Comparative Connectomics <b>2017</b> , 509-518		1
9	Drosophila tan encodes a novel hydrolase required in pigmentation and vision. <i>PLoS Genetics</i> , <b>2005</b> , preprint, e63	6	1
8	Control of Synaptic Specificity by Limiting Promiscuous Synapse Formation. <i>SSRN Electronic Journal</i> ,	1	1
7	Control of synaptic specificity by limiting promiscuous synapse formation		1

- 6 The world of the identified or digital neuron. *Journal of Neurogenetics*, **2018**, 32, 149-154 1.6 1
- 5 **Drosophila Connectome 2013**, 1-6
- 4 Ultrastructural 3D reconstruction of the smallest known insect photoreceptors: The stemmata of a first instar larva of Strepsiptera (Hexapoda). *Arthropod Structure and Development*, **2021**, 62, 101055 1.8
- 3 Mapping chromatic pathways in the *Drosophila* visual system. *Journal of Comparative Neurology*, **2016**, 524, Spc1-Spc1 3-4
- 2 Novel type of sub-retinal pigment shield in the miniaturized compound eye of *Trichogramma evanescens*. *Journal of Comparative Neurology*, **2020**, 528, 167-174 3-4
- 1 **Connectome, Drosophila 2022**, 963-967