

Volker Hartenstein

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172
papers

40,554
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183
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54,793
ext. citations

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7
L-index

#	Paper	IF	Citations
172	Fiji: an open-source platform for biological-image analysis. <i>Nature Methods</i> , 2012 , 9, 676-82	21.6	27799
171	The Embryonic Development of <i>Drosophila melanogaster</i> 1985 ,		698
170	TrakEM2 software for neural circuit reconstruction. <i>PLoS ONE</i> , 2012 , 7, e38011	3.7	564
169	Systematic determination of patterns of gene expression during <i>Drosophila</i> embryogenesis. <i>Genome Biology</i> , 2002 , 3, RESEARCH0088	18.3	487
168	The <i>Drosophila sine oculis</i> locus encodes a homeodomain-containing protein required for the development of the entire visual system. <i>Neuron</i> , 1994 , 12, 977-96	13.9	458
167	A systematic nomenclature for the insect brain. <i>Neuron</i> , 2014 , 81, 755-65	13.9	407
166	The development of cellular junctions in the <i>Drosophila</i> embryo. <i>Developmental Biology</i> , 1994 , 161, 563-96	3.6	385
165	The Embryonic Development of <i>Drosophila melanogaster</i> 1997 ,		380
164	Specification of <i>Drosophila</i> hematopoietic lineage by conserved transcription factors. <i>Science</i> , 2000 , 288, 146-9	33.3	378
163	Thicker than blood: conserved mechanisms in <i>Drosophila</i> and vertebrate hematopoiesis. <i>Developmental Cell</i> , 2003 , 5, 673-90	10.2	317
162	Global analysis of patterns of gene expression during <i>Drosophila</i> embryogenesis. <i>Genome Biology</i> , 2007 , 8, R145	18.3	307
161	Early neurogenesis in wild-type <i>Drosophila melanogaster</i> . <i>Wilhelm Roux's Archives of Developmental Biology</i> , 1984 , 193, 308-325		271
160	An integrated micro- and macroarchitectural analysis of the <i>Drosophila</i> brain by computer-assisted serial section electron microscopy. <i>PLoS Biology</i> , 2010 , 8, e1000502	9.7	247
159	CATMAID: collaborative annotation toolkit for massive amounts of image data. <i>Bioinformatics</i> , 2009 , 25, 1984-6	7.2	222
158	G-TRACE: rapid Gal4-based cell lineage analysis in <i>Drosophila</i> . <i>Nature Methods</i> , 2009 , 6, 603-5	21.6	222
157	A Hedgehog- and Antennapedia-dependent niche maintains <i>Drosophila</i> haematopoietic precursors. <i>Nature</i> , 2007 , 446, 320-4	50.4	221
156	Neuronal determination without cell division in <i>Xenopus</i> embryos. <i>Neuron</i> , 1991 , 6, 499-515	13.9	214

155	A genome-wide resource for the analysis of protein localisation in <i>Drosophila</i> . <i>ELife</i> , 2016 , 5, e12068	8.9	193
154	The embryonic development of the <i>Drosophila</i> visual system. <i>Cell and Tissue Research</i> , 1993 , 273, 583-98	4.2	189
153	The neuroendocrine system of invertebrates: a developmental and evolutionary perspective. <i>Journal of Endocrinology</i> , 2006 , 190, 555-70	4.7	185
152	Blood cells and blood cell development in the animal kingdom. <i>Annual Review of Cell and Developmental Biology</i> , 2006 , 22, 677-712	12.6	179
151	Early neurogenesis in <i>Xenopus</i> : the spatio-temporal pattern of proliferation and cell lineages in the embryonic spinal cord. <i>Neuron</i> , 1989 , 3, 399-411	13.9	176
150	The hematopoietic stem cell and its niche: a comparative view. <i>Genes and Development</i> , 2007 , 21, 3044-60	2.6	163
149	Evidence for a fruit fly hemangioblast and similarities between lymph-gland hematopoiesis in fruit fly and mammal aorta-gonadal-mesonephros mesoderm. <i>Nature Genetics</i> , 2004 , 36, 1019-23	36.3	163
148	The behaviour of <i>Drosophila</i> adult hindgut stem cells is controlled by Wnt and Hh signalling. <i>Nature</i> , 2008 , 454, 651-5	50.4	148
147	Early neurogenesis of the <i>Drosophila</i> brain. <i>Journal of Comparative Neurology</i> , 1996 , 370, 313-29	3.4	140
146	Embryonic origin and differentiation of the <i>Drosophila</i> heart. <i>Roux's Archives of Developmental Biology</i> , 1994 , 203, 266-280		137
145	Control of early neurogenesis of the <i>Drosophila</i> brain by the head gap genes <i>tll</i> , <i>otd</i> , <i>ems</i> , and <i>btd</i> . <i>Developmental Biology</i> , 1997 , 182, 270-83	3.1	128
144	The pattern of proliferation of the neuroblasts in the wild-type embryo of <i>Drosophila melanogaster</i> . <i>Roux's Archives of Developmental Biology</i> , 1987 , 196, 473-485		121
143	Specification and development of the pars intercerebralis and pars lateralis, neuroendocrine command centers in the <i>Drosophila</i> brain. <i>Developmental Biology</i> , 2007 , 302, 309-23	3.1	120
142	Fate-mapping in wild-type <i>Drosophila melanogaster</i> . <i>Wilhelm Roux's Archives of Developmental Biology</i> , 1985 , 194, 181-195		115
141	Morphogenesis and proliferation of the larval brain glia in <i>Drosophila</i> . <i>Developmental Biology</i> , 2005 , 283, 191-203	3.1	113
140	Neural lineages of the <i>Drosophila</i> brain: a three-dimensional digital atlas of the pattern of lineage location and projection at the late larval stage. <i>Journal of Neuroscience</i> , 2006 , 26, 5534-53	6.6	111
139	Studying <i>Drosophila</i> embryogenesis with P-lacZ enhancer trap lines. <i>Roux's Archives of Developmental Biology</i> , 1992 , 201, 194-220		108
138	Early development of the <i>Drosophila</i> brain: III. The pattern of neuropile founder tracts during the larval period. <i>Journal of Comparative Neurology</i> , 2003 , 455, 417-34	3.4	103

137	Recurrent Circuitry for Balancing Sleep Need and Sleep. <i>Neuron</i> , 2018 , 97, 378-389.e4	13.9	97
136	Visual Input to the Drosophila Central Complex by Developmentally and Functionally Distinct Neuronal Populations. <i>Current Biology</i> , 2017 , 27, 1098-1110	6.3	96
135	Role of DE-cadherin in neuroblast proliferation, neural morphogenesis, and axon tract formation in Drosophila larval brain development. <i>Journal of Neuroscience</i> , 2003 , 23, 3325-35	6.6	96
134	Early pattern of neuronal differentiation in the Xenopus embryonic brainstem and spinal cord. <i>Journal of Comparative Neurology</i> , 1993 , 328, 213-31	3.4	95
133	Spatial expression of transcription factors in Drosophila embryonic organ development. <i>Genome Biology</i> , 2013 , 14, R140	18.3	87
132	Morphological diversity and development of glia in Drosophila. <i>Glia</i> , 2011 , 59, 1237-52	9	86
131	Flatworm stem cells and the germ line: developmental and evolutionary implications of macvasa expression in <i>Macrostomum lignano</i> . <i>Developmental Biology</i> , 2008 , 319, 146-59	3.1	86
130	Hematopoiesis at the onset of metamorphosis: terminal differentiation and dissociation of the Drosophila lymph gland. <i>Development Genes and Evolution</i> , 2011 , 221, 121-31	1.8	84
129	Embryonic development of the Drosophila brain. I. Pattern of pioneer tracts. <i>Journal of Comparative Neurology</i> , 1998 , 402, 10-31	3.4	84
128	The evolution of early neurogenesis. <i>Developmental Cell</i> , 2015 , 32, 390-407	10.2	82
127	To be or not to be a flatworm: the acoel controversy. <i>PLoS ONE</i> , 2009 , 4, e5502	3.7	81
126	Development of the insect stomatogastric nervous system. <i>Trends in Neurosciences</i> , 1997 , 20, 421-7	13.3	76
125	The development of the Drosophila larval brain. <i>Advances in Experimental Medicine and Biology</i> , 2008 , 628, 1-31	3.6	73
124	Embryonic development of the Drosophila brain. II. Pattern of glial cells. <i>Journal of Comparative Neurology</i> , 1998 , 402, 32-47	3.4	65
123	Early development of the Drosophila brain: IV. Larval neuropile compartments defined by glial septa. <i>Journal of Comparative Neurology</i> , 2003 , 455, 435-50	3.4	65
122	The blood/vascular system in a phylogenetic perspective. <i>BioEssays</i> , 2006 , 28, 1203-10	4.1	63
121	Dpp and Hh signaling in the Drosophila embryonic eye field. <i>Development (Cambridge)</i> , 2001 , 128, 4691-4704	6.4	63
120	Concomitant requirement for Notch and Jak/Stat signaling during neuro-epithelial differentiation in the Drosophila optic lobe. <i>Developmental Biology</i> , 2010 , 346, 284-95	3.1	62

119	The embryonic development of the triclad Schmidtea polychroa. <i>Development Genes and Evolution</i> , 2005 , 215, 109-31	1.8	62
118	Evolution of sensory structures in basal metazoa. <i>Integrative and Comparative Biology</i> , 2007 , 47, 712-23	2.8	61
117	Early development of the Drosophila brain: V. Pattern of postembryonic neuronal lineages expressing DE-cadherin. <i>Journal of Comparative Neurology</i> , 2003 , 455, 451-62	3.4	61
116	The exceptional stem cell system of Macrostomum lignano: screening for gene expression and studying cell proliferation by hydroxyurea treatment and irradiation. <i>Frontiers in Zoology</i> , 2007 , 4, 9	2.8	54
115	Embryonic development and metamorphosis of the scyphozoan Aurelia. <i>Development Genes and Evolution</i> , 2008 , 218, 525-39	1.8	54
114	Sensillum development in the absence of cell division: the sensillum phenotype of the Drosophila mutant string. <i>Developmental Biology</i> , 1990 , 138, 147-58	3.1	54
113	Embryonic development of the stomatogastric nervous system in Drosophila. <i>Journal of Comparative Neurology</i> , 1994 , 350, 367-81	3.4	53
112	Embryonic development of the Drosophila corpus cardiacum, a neuroendocrine gland with similarity to the vertebrate pituitary, is controlled by sine oculis and glass. <i>Developmental Biology</i> , 2004 , 274, 280-94	3.1	52
111	Stem cells and lineages of the intestine: a developmental and evolutionary perspective. <i>Development Genes and Evolution</i> , 2013 , 223, 85-102	1.8	50
110	Development of the Drosophila entero-endocrine lineage and its specification by the Notch signaling pathway. <i>Developmental Biology</i> , 2011 , 353, 161-72	3.1	50
109	Development-based compartmentalization of the Drosophila central brain. <i>Journal of Comparative Neurology</i> , 2010 , 518, 2996-3023	3.4	50
108	Embryonic origin of the imaginal discs of the head of Drosophila melanogaster. <i>Roux's Archives of Developmental Biology</i> , 1993 , 203, 60-73		50
107	The embryonic development of the flatworm Macrostomum sp. <i>Development Genes and Evolution</i> , 2004 , 214, 220-39	1.8	49
106	The Drosophila larval visual system: high-resolution analysis of a simple visual neuropil. <i>Developmental Biology</i> , 2011 , 358, 33-43	3.1	48
105	Embryonic origin of the Drosophila brain neuropile. <i>Journal of Comparative Neurology</i> , 2006 , 497, 981-983	3.4	48
104	sine oculis in basal Metazoa. <i>Development Genes and Evolution</i> , 2004 , 214, 342-51	1.8	48
103	Hematopoiesis and hematopoietic organs in arthropods. <i>Development Genes and Evolution</i> , 2013 , 223, 103-15	1.8	47
102	Early development, pattern, and reorganization of the planula nervous system in Aurelia (Cnidaria, Scyphozoa). <i>Development Genes and Evolution</i> , 2008 , 218, 511-24	1.8	47

101	Embryonic development in the primitive bilaterian <i>Neochildia fusca</i> : normal morphogenesis and isolation of POU genes <i>Brn-1</i> and <i>Brn-3</i> . <i>Development Genes and Evolution</i> , 2002 , 212, 55-69	1.8	47
100	Identifying neuronal lineages of <i>Drosophila</i> by sequence analysis of axon tracts. <i>Journal of Neuroscience</i> , 2010 , 30, 7538-53	6.6	46
99	Eye evolution at high resolution: the neuron as a unit of homology. <i>Developmental Biology</i> , 2009 , 332, 70-9	3.1	45
98	The <i>Drosophila</i> neural lineages: a model system to study brain development and circuitry. <i>Development Genes and Evolution</i> , 2010 , 220, 1-10	1.8	45
97	Postembryonic lineages of the <i>Drosophila</i> brain: I. Development of the lineage-associated fiber tracts. <i>Developmental Biology</i> , 2013 , 384, 228-57	3.1	42
96	Development of the rhopalial nervous system in <i>Aurelia</i> sp.1 (Cnidaria, Scyphozoa). <i>Development Genes and Evolution</i> , 2009 , 219, 301-17	1.8	42
95	Patterns of growth, axonal extension and axonal arborization of neuronal lineages in the developing <i>Drosophila</i> brain. <i>Developmental Biology</i> , 2009 , 335, 289-304	3.1	42
94	Structure of the central nervous system of a juvenile acoel, <i>Symsagittifera roscoffensis</i> . <i>Development Genes and Evolution</i> , 2010 , 220, 61-76	1.8	42
93	Early embryogenesis of planaria: a cryptic larva feeding on maternal resources. <i>Development Genes and Evolution</i> , 2006 , 216, 667-81	1.8	42
92	Interaction between EGFR signaling and DE-cadherin during nervous system morphogenesis. <i>Development (Cambridge)</i> , 2002 , 129, 3983-3994	6.6	41
91	Gene expression patterns in primary neuronal clusters of the <i>Drosophila</i> embryonic brain. <i>Gene Expression Patterns</i> , 2007 , 7, 584-95	1.5	40
90	Neuronal Constituents and Putative Interactions Within the Ellipsoid Body Neuropil. <i>Frontiers in Neural Circuits</i> , 2018 , 12, 103	3.5	40
89	The proteoglycan Trol controls the architecture of the extracellular matrix and balances proliferation and differentiation of blood progenitors in the <i>Drosophila</i> lymph gland. <i>Developmental Biology</i> , 2013 , 384, 301-12	3.1	39
88	Genetic control of intestinal stem cell specification and development: a comparative view. <i>Stem Cell Reviews and Reports</i> , 2012 , 8, 597-608	6.4	39
87	Tracheal development in the <i>Drosophila</i> brain is constrained by glial cells. <i>Developmental Biology</i> , 2007 , 302, 169-80	3.1	39
86	Postembryonic lineages of the <i>Drosophila</i> brain: II. Identification of lineage projection patterns based on MARCM clones. <i>Developmental Biology</i> , 2013 , 384, 258-89	3.1	37
85	Initial neurogenesis in <i>Drosophila</i> . <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2013 , 2, 701-215.9		37
84	Boule-like genes regulate male and female gametogenesis in the flatworm <i>Macrostomum lignano</i> . <i>Developmental Biology</i> , 2011 , 357, 117-32	3.1	37

83	A novel tissue in an established model system: the <i>Drosophila</i> pupal midgut. <i>Development Genes and Evolution</i> , 2011 , 221, 69-81	1.8	37
82	Conserved role of the <i>Vsx</i> genes supports a monophyletic origin for bilaterian visual systems. <i>Current Biology</i> , 2008 , 18, 1278-87	6.3	35
81	The role of DE-cadherin during cellularization, germ layer formation and early neurogenesis in the <i>Drosophila</i> embryo. <i>Developmental Biology</i> , 2004 , 270, 350-63	3.1	35
80	Expression profile of the cadherin family in the developing <i>Drosophila</i> brain. <i>Journal of Comparative Neurology</i> , 2008 , 506, 469-88	3.4	34
79	Evolutionary origin of rhopalia: insights from cellular-level analyses of Otx and POU expression patterns in the developing rhopalial nervous system. <i>Evolution & Development</i> , 2010 , 12, 404-15	2.6	33
78	Origin and development of neuropil glia of the <i>Drosophila</i> larval and adult brain: Two distinct glial populations derived from separate progenitors. <i>Developmental Biology</i> , 2015 , 404, 2-20	3.1	32
77	The emergence of patterned movement during late embryogenesis of <i>Drosophila</i> . <i>Developmental Neurobiology</i> , 2007 , 67, 1669-85	3.2	32
76	Neurobiology of the basal platyhelminth <i>Macrostomum lignano</i> : map and digital 3D model of the juvenile brain neuropile. <i>Development Genes and Evolution</i> , 2007 , 217, 569-84	1.8	32
75	Compartmentalization of the precheliceral neuroectoderm in the spider <i>Cupiennius salei</i> : development of the arcuate body, optic ganglia, and mushroom body. <i>Journal of Comparative Neurology</i> , 2010 , 518, 2612-32	3.4	31
74	<i>Drosophila</i> cortex and neuropile glia influence secondary axon tract growth, pathfinding, and fasciculation in the developing larval brain. <i>Developmental Biology</i> , 2009 , 334, 355-68	3.1	30
73	Subdivision and developmental fate of the head mesoderm in <i>Drosophila melanogaster</i> . <i>Development Genes and Evolution</i> , 2006 , 216, 39-51	1.8	30
72	Neuroblast lineage-specific origin of the neurons of the <i>Drosophila</i> larval olfactory system. <i>Developmental Biology</i> , 2013 , 373, 322-37	3.1	28
71	Migration of <i>Drosophila</i> intestinal stem cells across organ boundaries. <i>Development (Cambridge)</i> , 2013 , 140, 1903-11	6.6	27
70	Embryonic development of the nervous system of the rhabdocoel flatworm <i>Mesostoma lingua</i> (Abilgaard, 1789). <i>Journal of Comparative Neurology</i> , 2000 , 416, 461-74	3.4	25
69	Neuronal fiber tracts connecting the brain and ventral nerve cord of the early <i>Drosophila</i> larva. <i>Journal of Comparative Neurology</i> , 2009 , 515, 427-40	3.4	24
68	Arborization pattern of engrailed-positive neural lineages reveal neuromere boundaries in the <i>Drosophila</i> brain neuropil. <i>Journal of Comparative Neurology</i> , 2009 , 517, 87-104	3.4	24
67	Antagonistic relationship between Dpp and EGFR signaling in <i>Drosophila</i> head patterning. <i>Developmental Biology</i> , 2003 , 263, 103-13	3.1	24
66	Interaction between EGFR signaling and DE-cadherin during nervous system morphogenesis. <i>Development (Cambridge)</i> , 2002 , 129, 3983-94	6.6	24

65	The chimerical and multifaceted marine acoel <i>Symsagittifera roscoffensis</i> : from photosymbiosis to brain regeneration. <i>Frontiers in Microbiology</i> , 2014 , 5, 498	5.7	23
64	The convergence of Notch and MAPK signaling specifies the blood progenitor fate in the <i>Drosophila</i> mesoderm. <i>Developmental Biology</i> , 2011 , 353, 105-18	3.1	23
63	The <i>Macrostomum lignano</i> EST database as a molecular resource for studying platyhelminth development and phylogeny. <i>Development Genes and Evolution</i> , 2006 , 216, 695-707	1.8	23
62	Neuroblast lineage identification and lineage-specific Hox gene action during postembryonic development of the subesophageal ganglion in the <i>Drosophila</i> central brain. <i>Developmental Biology</i> , 2014 , 390, 102-15	3.1	22
61	Spatio-temporal pattern of neuronal differentiation in the <i>Drosophila</i> visual system: A user's guide to the dynamic morphology of the developing optic lobe. <i>Developmental Biology</i> , 2017 , 428, 1-24	3.1	21
60	Developmental analysis of the dopamine-containing neurons of the <i>Drosophila</i> brain. <i>Journal of Comparative Neurology</i> , 2017 , 525, 363-379	3.4	21
59	Lineage-based analysis of the development of the central complex of the <i>Drosophila</i> brain. <i>Journal of Comparative Neurology</i> , 2011 , 519, 661-89	3.4	21
58	A Conserved Developmental Mechanism Builds Complex Visual Systems in Insects and Vertebrates. <i>Current Biology</i> , 2016 , 26, R1001-R1009	6.3	20
57	Structure and development of the subesophageal zone of the <i>Drosophila</i> brain. II. Sensory compartments. <i>Journal of Comparative Neurology</i> , 2018 , 526, 33-58	3.4	19
56	The urbilaterian brain revisited: novel insights into old questions from new flatworm clades. <i>Development Genes and Evolution</i> , 2013 , 223, 149-57	1.8	19
55	Digital three-dimensional models of <i>Drosophila</i> development. <i>Current Opinion in Genetics and Development</i> , 2004 , 14, 382-91	4.9	19
54	Embryonic development of the nervous system of the temnocephalid flatworm <i>Craspedella pedum</i> . <i>Journal of Comparative Neurology</i> , 2001 , 434, 56-68	3.4	19
53	Role of FGFR signaling in the morphogenesis of the <i>Drosophila</i> visceral musculature. <i>Developmental Dynamics</i> , 2004 , 231, 342-8	2.9	18
52	Homologies between vertebrate and invertebrate eyes. <i>Results and Problems in Cell Differentiation</i> , 2002 , 37, 219-55	1.4	18
51	Structure and development of the subesophageal zone of the <i>Drosophila</i> brain. I. Segmental architecture, compartmentalization, and lineage anatomy. <i>Journal of Comparative Neurology</i> , 2018 , 526, 6-32	3.4	17
50	The embryonic development of the bodywall and nervous system of the cestode flatworm <i>Hymenolepis diminuta</i> . <i>Cell and Tissue Research</i> , 2003 , 311, 427-35	4.2	17
49	Development of neural lineages derived from the sine oculis positive eye field of <i>Drosophila</i> . <i>Arthropod Structure and Development</i> , 2003 , 32, 303-17	1.8	17
48	A visual pathway for skylight polarization processing in. <i>ELife</i> , 2021 , 10,	8.9	17

47	Metamorphosis of the <i>Drosophila</i> visceral musculature and its role in intestinal morphogenesis and stem cell formation. <i>Developmental Biology</i> , 2016 , 420, 43-59	3.1	16
46	Mitochondrial dynamics regulates <i>Drosophila</i> intestinal stem cell differentiation. <i>Cell Death Discovery</i> , 2018 , 4, 17	6.9	16
45	Lineage-associated tracts defining the anatomy of the <i>Drosophila</i> first instar larval brain. <i>Developmental Biology</i> , 2015 , 406, 14-39	3.1	15
44	The embryonic development of the temnocephalid flatworms <i>Craspedella pedum</i> and <i>Diceratocephala boschmai</i> . <i>Cell and Tissue Research</i> , 2001 , 304, 295-310	4.2	15
43	Connecting the nervous and the immune systems in evolution. <i>Communications Biology</i> , 2018 , 1, 64	6.7	15
42	Pattern, time of birth, and morphogenesis of sensillum progenitors in <i>Drosophila</i> . <i>Microscopy Research and Technique</i> , 1997 , 39, 479-91	2.8	14
41	Development of the anterior visual input pathway to the <i>Drosophila</i> central complex. <i>Journal of Comparative Neurology</i> , 2017 , 525, 3458-3475	3.4	13
40	A conserved plan for wiring up the fan-shaped body in the grasshopper and <i>Drosophila</i> . <i>Development Genes and Evolution</i> , 2017 , 227, 253-269	1.8	13
39	A map of brain neuropils and fiber systems in the ant <i>Cardiocondyla obscurior</i> . <i>Frontiers in Neuroanatomy</i> , 2014 , 8, 166	3.6	13
38	Structural and Developmental Disparity in the Tentacles of the Moon Jellyfish <i>Aurelia</i> sp.1. <i>PLoS ONE</i> , 2015 , 10, e0134741	3.7	13
37	Conserved genetic pathways controlling the development of the diffuse endocrine system in vertebrates and <i>Drosophila</i> . <i>General and Comparative Endocrinology</i> , 2010 , 166, 462-9	3	13
36	Hydroxyurea-mediated neuroblast ablation establishes birth dates of secondary lineages and addresses neuronal interactions in the developing <i>Drosophila</i> brain. <i>Developmental Biology</i> , 2015 , 402, 32-47	3.1	12
35	Bazooka mediates secondary axon morphology in <i>Drosophila</i> brain lineages. <i>Neural Development</i> , 2011 , 6, 16	3.9	12
34	Neurotransmitter Classification from Electron Microscopy Images at Synaptic Sites in <i>Drosophila</i>		12
33	Developmentally Arrested Precursors of Pontine Neurons Establish an Embryonic Blueprint of the <i>Drosophila</i> Central Complex. <i>Current Biology</i> , 2019 , 29, 412-425.e3	6.3	11
32	Identification of Dopaminergic Neurons That Can Both Establish Associative Memory and Acutely Terminate Its Behavioral Expression. <i>Journal of Neuroscience</i> , 2020 , 40, 5990-6006	6.6	10
31	Functional brain regeneration in the acoel worm <i>Symsagittifera roscoffensis</i> . <i>Biology Open</i> , 2015 , 4, 1688-95	8.95	10
30	<i>Drosophila</i> E-cadherin and its binding partner Armadillo/ beta-catenin are required for axonal pathway choices in the developing larval brain. <i>Developmental Biology</i> , 2009 , 332, 371-82	3.1	10

29	Structure and spatial pattern of the sensilla of the body segments of insect larvae. <i>Microscopy Research and Technique</i> , 1997 , 39, 470-8	2.8	10
28	An efficient promoter trap for detection of patterned gene expression and subsequent functional analysis in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 17813-7	11.5	10
27	Patterns of growth and tract formation during the early development of secondary lineages in the <i>Drosophila</i> larval brain. <i>Developmental Neurobiology</i> , 2016 , 76, 434-51	3.2	10
26	Origins of glial cell populations in the insect nervous system. <i>Current Opinion in Insect Science</i> , 2016 , 18, 96-104	5.1	10
25	Origin and dynamic lineage characteristics of the developing <i>Drosophila</i> midgut stem cells. <i>Developmental Biology</i> , 2016 , 416, 347-60	3.1	9
24	Cell tracking supports secondary gastrulation in the moon jellyfish <i>Aurelia</i> . <i>Development Genes and Evolution</i> , 2016 , 226, 383-387	1.8	8
23	Modeling the Developing <i>Drosophila</i> Brain: Rationale, Technique, and Application. <i>BioScience</i> , 2008 , 58, 823-836	5.7	8
22	bHLH proneural genes as cell fate determinants of entero-endocrine cells, an evolutionarily conserved lineage sharing a common root with sensory neurons. <i>Developmental Biology</i> , 2017 , 431, 36-47 ¹	3.1	7
21	Genetic Dissection of Hematopoiesis Using <i>Drosophila</i> as a Model System. <i>Advances in Developmental Biology (Amsterdam, Netherlands)</i> , 2007 , 259-299		6
20	Hexapoda: A <i>Drosophila</i> View of Development 2015 , 1-91		5
19	Introduction to insect sensory organs as a model system in sensory physiology and developmental biology. <i>Microscopy Research and Technique</i> , 1997 , 39, 467-9	2.8	5
18	The Muscle Pattern of <i>Drosophila</i> 2006 , 8-27		5
17	Regulation of cell adhesion in the <i>Drosophila</i> embryo by phosphorylation of the cadherin-catenin-complex. <i>Cell and Tissue Research</i> , 2006 , 324, 157-66	4.2	5
16	Genetic analysis of early neurogenesis: dedicated to the scientific contributions of Jose A. Campos-Ortega (1940-2004). <i>Developmental Dynamics</i> , 2006 , 235, 2003-8	2.9	4
15	Expression-Based Cell Lineage Analysis in Through a Course-Based Research Experience for Early Undergraduates. <i>G3: Genes, Genomes, Genetics</i> , 2019 , 9, 3791-3800	3.2	4
14	The role of cell lineage in the development of neuronal circuitry and function. <i>Developmental Biology</i> , 2021 , 475, 165-180	3.1	4
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4	An atlas of the developing Tribolium castaneum brain reveals conservation in anatomy and divergence in timing to Drosophila melanogaster.. <i>Journal of Comparative Neurology</i> , 2022 ,	3.4	1
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2	The Central Nervous System of Invertebrates 2016 , 173-235		0
1	Serial electron microscopic reconstruction of the drosophila larval eye: Photoreceptors with a rudimentary rhabdomere of microvillar-like processes. <i>Developmental Biology</i> , 2019 , 453, 56-67	3.1	