

# Hannes E BÃ¼low

## List of Publications by Year in descending order

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44  
papers

2,837  
citations

236925

25  
h-index

265206

42  
g-index

50  
all docs

50  
docs citations

50  
times ranked

3156  
citing authors

#	ARTICLE	IF	CITATIONS
1	Whole-animal connectomes of both <i>Caenorhabditis elegans</i> sexes. <i>Nature</i> , 2019, 571, 63-71.	27.8	534
2	The Molecular Diversity of Glycosaminoglycans Shapes Animal Development. <i>Annual Review of Cell and Developmental Biology</i> , 2006, 22, 375-407.	9.4	317
3	Differential Sulfations and Epimerization Define Heparan Sulfate Specificity in Nervous System Development. <i>Neuron</i> , 2004, 41, 723-736.	8.1	236
4	Heparan sulfate proteoglycan-dependent induction of axon branching and axon misrouting by the Kallmann syndrome gene <i>kal-1</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 6346-6351.	7.1	155
5	<i>Heparan sulfate 6-O-sulfotransferase 1</i> , a gene involved in extracellular sugar modifications, is mutated in patients with idiopathic hypogonadotropic hypogonadism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11524-11529.	7.1	153
6	A <i>C. elegans</i> CLIC-like Protein Required for Intracellular Tube Formation and Maintenance. <i>Science</i> , 2003, 302, 2134-2137.	12.6	146
7	Skin-Derived Cues Control Arborization of Sensory Dendrites in <i>Caenorhabditis elegans</i> . <i>Cell</i> , 2013, 155, 308-320.	28.9	144
8	Intrinsic and Extrinsic Mechanisms of Dendritic Morphogenesis. <i>Annual Review of Physiology</i> , 2015, 77, 271-300.	13.1	123
9	Differential Functions of the <i>C. elegans</i> FGF Receptor in Axon Outgrowth and Maintenance of Axon Position. <i>Neuron</i> , 2004, 42, 367-374.	8.1	91
10	A Non-Cell-Autonomous Role of BEC-1/BECN1/Beclin1 in Coordinating Cell-Cycle Progression and Stem Cell Proliferation during Germline Development. <i>Current Biology</i> , 2017, 27, 905-913.	3.9	88
11	Extracellular Sugar Modifications Provide Instructive and Cell-Specific Information for Axon-Guidance Choices. <i>Current Biology</i> , 2008, 18, 1978-1985.	3.9	64
12	<i>C. elegans bicd-1</i> , homolog of the <i>Drosophila</i> dynein accessory factor <i>Bicaudal D</i> , regulates the branching of PVD sensory neuron dendrites. <i>Development (Cambridge)</i> , 2011, 138, 507-518.	2.5	58
13	Muscle- and Skin-Derived Cues Jointly Orchestrate Patterning of Somatosensory Dendrites. <i>Current Biology</i> , 2016, 26, 2379-2387.	3.9	51
14	The Proprotein Convertase KPC-1/Furin Controls Branching and Self-avoidance of Sensory Dendrites in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2014, 10, e1004657.	3.5	42
15	The Adhesion Molecule KAL-1/anosmin-1 Regulates Neurite Branching through a SAX-7/L1CAM/EGL-15/FGFR Receptor Complex. <i>Cell Reports</i> , 2015, 11, 1377-1384.	6.4	40
16	Diverse roles for glycosaminoglycans in neural patterning. <i>Developmental Dynamics</i> , 2018, 247, 54-74.	1.8	40
17	TIAM-1/GEF can shape somatosensory dendrites independently of its GEF activity by regulating F-actin localization. <i>ELife</i> , 2019, 8, .	6.0	40
18	Deciphering functional glycosaminoglycan motifs in development. <i>Current Opinion in Structural Biology</i> , 2018, 50, 144-154.	5.7	39

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19	Analyses of the CYP11B gene family in the guinea pig suggest the existence of a primordial CYP11B gene with aldosterone synthase activity. <i>FEBS Journal</i> , 2002, 269, 3838-3846.	0.2	36
20	Distinct 3-O-Sulfated Heparan Sulfate Modification Patterns Are Required for <i>kal-1</i> Dependent Neurite Branching in a Context-Dependent Manner in <i>Caenorhabditis elegans</i> . <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 541-552.	1.8	35
21	Directional Trans-Synaptic Labeling of Specific Neuronal Connections in Live Animals. <i>Genetics</i> , 2015, 200, 697-705.	2.9	34
22	Complex Cooperative Functions of Heparan Sulfate Proteoglycans Shape Nervous System Development in <i>Caenorhabditis elegans</i> . <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 1859-1870.	1.8	33
23	Direct visualization of specifically modified extracellular glycans in living animals. <i>Nature Methods</i> , 2012, 9, 477-479.	19.0	32
24	It's All in Your Mind: Determining Germ Cell Fate by Neuronal IRE-1 in <i>C. elegans</i> . <i>PLoS Genetics</i> , 2014, 10, e1004747.	3.5	30
25	Coordination of Heparan Sulfate Proteoglycans with Wnt Signaling To Control Cellular Migrations and Positioning in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2017, 206, 1951-1967.	2.9	28
26	Development and maintenance of neuronal architecture at the ventral midline of <i>C. elegans</i> . <i>Current Opinion in Neurobiology</i> , 2003, 13, 70-78.	4.2	27
27	The PAPS transporter PST-1 is required for heparan sulfation and is essential for viability and neural development in <i>C. elegans</i> . <i>Journal of Cell Science</i> , 2009, 122, 4492-4504.	2.0	26
28	Genetic Analysis of the Heparan Modification Network in <i>Caenorhabditis elegans</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 16824-16831.	3.4	25
29	Reduced Insulin/Insulin-Like Growth Factor Receptor Signaling Mitigates Defective Dendrite Morphogenesis in Mutants of the ER Stress Sensor IRE-1. <i>PLoS Genetics</i> , 2017, 13, e1006579.	3.5	22
30	Synaptogenesis Is Modulated by Heparan Sulfate in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2018, 209, 195-208.	2.9	22
31	Axon-Dependent Patterning and Maintenance of Somatosensory Dendritic Arbors. <i>Developmental Cell</i> , 2019, 48, 229-244.e4.	7.0	21
32	Molecular Cloning and Functional Expression of the Cytochrome P450 11B-Hydroxylase of the Guinea Pig. <i>Biochemical and Biophysical Research Communications</i> , 1996, 221, 304-312.	2.1	20
33	The HSPG syndecan is a core organizer of cholinergic synapses. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	19
34	Expression of cytochrome P45011B1 mRNA in the brain of normal and hypertensive transgenic rats. <i>Brain Research</i> , 1996, 733, 73-82.	2.2	18
35	Four specific Ig domains in UNC-52/Perlecan function with NID-1/Nidogen during dendrite morphogenesis in <i>Caenorhabditis elegans</i> . <i>Development (Cambridge)</i> , 2018, 145, .	2.5	15
36	Conservation of anatomically restricted glycosaminoglycan structures in divergent nematode species. <i>Glycobiology</i> , 2016, 26, 862-870.	2.5	13

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37	The CATP-8/P5A-type ATPase functions in multiple pathways during neuronal patterning. PLoS Genetics, 2021, 17, e1009475.	3.5	7
38	Specific heparan sulfate modifications stabilize the synaptic organizer MADD-4/Punctin at Caenorhabditis elegans neuromuscular junctions. Genetics, 2021, 218, .	2.9	6
39	Specific <i>N</i> -glycans regulate an extracellular adhesion complex during somatosensory dendrite patterning. EMBO Reports, 2022, 23, e54163.	4.5	3
40	Functional expression of the guinea pig 11B-hydroxylase in COS-1 Cells. Endocrine Research, 1996, 22, 479-484.	1.2	1
41	Roles of glycoconjugates in neural patterning in C. elegans. Current Topics in Developmental Biology, 2021, 144, 377-408.	2.2	1
42	Imaging Glycosaminoglycan Modification Patterns In Vivo. Methods in Molecular Biology, 2022, 2303, 539-557.	0.9	1
43	3030 " A GLYCAN BASED APPROACH TO CHARACTERIZING AND ISOLATING CELLS IN THE HEMATOPOIETIC SYSTEM. Experimental Hematology, 2020, 88, S47.	0.4	0
44	HSMotifDiscover: identification of motifs in sequences composed of non-single-letter elements. Bioinformatics, 2022, 38, 4036-4038.	4.1	0