Willi Halfter

List of Publications by Year
in descending order

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65	4,216	117625	155660
papers	citations	34 h-index	55 g-index

66	66	66	4091
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Collagen XVIII Is a Basement Membrane Heparan Sulfate Proteoglycan. Journal of Biological Chemistry, 1998, 273, 25404-25412.	3.4	296
2	A Critical Function of the Pial Basement Membrane in Cortical Histogenesis. Journal of Neuroscience, 2002, 22, 6029-6040.	3.6	261
3	Agrin Is a Heparan Sulfate Proteoglycan. Journal of Biological Chemistry, 1995, 270, 3392-3399.	3.4	249
4	Perfusion-decellularized pancreas as a natural 3D scaffold for pancreatic tissue and whole organ engineering. Biomaterials, 2013, 34, 6760-6772.	11.4	242
5	Heparan Sulfate Proteoglycans Are Ligands for Receptor Protein Tyrosine Phosphatase Ïƒ. Molecular and Cellular Biology, 2002, 22, 1881-1892.	2.3	192
6	Biomechanical properties of native basement membranes. FEBS Journal, 2007, 274, 2897-2908.	4.7	173
7	Specific ablation of the nidogen-binding site in the laminin Î³1 chain interferes with kidney and lung development. Development (Cambridge), 2002, 129, 2711-2722.	2.5	166
8	Agrin Binds to Î²-Amyloid (AÎ²), Accelerates AÎ² Fibril Formation, and Is Localized to AÎ² Deposits in Alzheimer's Disease Brain. Molecular and Cellular Neurosciences, 2000, 15, 183-198.	2.2	158
9	Age-dependent changes in the structure, composition and biophysical properties of a human basement membrane. Matrix Biology, 2010, 29, 402-410.	3.6	151
10	New concepts in basement membrane biology. FEBS Journal, 2015, 282, 4466-4479.	4.7	121
11	Collagen XVIII/endostatin is essential for vision and retinal pigment epithelial function. EMBO Journal, 2004, 23, 89-99.	7.8	114
12	Preferential adhesion of tectal membranes to anterior embryonic chick retina neurites. Nature, 1981, 292, 67-70.	27.8	84
13	Identification of Extracellular Matrix Ligands for the Heparan Sulfate Proteoglycan Agrin. Experimental Cell Research, 1999, 249, 54-64.	2.6	82
14	The formation of the axonal pattern in the embryonic avian retina. Journal of Comparative Neurology, 1985, 232, 466-480.	1.6	79
15	Nanoscale Topographic and Biomechanical Studies of the Human Internal Limiting Membrane. , 2012, 53, 2561.		77
16	Protein composition and biomechanical properties of in vivo-derived basement membranes. Cell Adhesion and Migration, 2013, 7, 64-71.	2.7	77
17	Basement Membraneâ€“Dependent Survival of Retinal Ganglion Cells. , 2005, 46, 1000.		70
18	The heparan sulfate proteoglycan agrin modulates neurite outgrowth mediated by FGF-2. Journal of Neurobiology, 2003, 55, 261-277.	3.6	68

#	Article	IF	Citations
19	Specific ablation of the nidogen-binding site in the laminin gamma1 chain interferes with kidney and lung development. Development (Cambridge), 2002, 129, 2711-22.	2.5	67
20	Axon growth in embryonic chick and quail retinal whole mounts in vitro. Developmental Biology, 1984, 102, 344-355.	2.0	66
21	Agrin binds Î±-synuclein and modulates Î±-synuclein fibrillation. Glycobiology, 2005, 15, 1320-1331.	2.5	65
22	Embryonic Synthesis of the Inner Limiting Membrane and Vitreous Body. , 2005, 46, 2202.		61
23	Expression of Collagen XVIII and Localization of Its Glycosaminoglycan Attachment Sites. Journal of Biological Chemistry, 2003, 278, 1700-1707.	3.4	60
24	Diabetes-induced morphological, biomechanical, and compositional changes in ocular basement membranes. Experimental Eye Research, 2013, 116, 298-307.	2.6	55
25	The Behavior of Optic Axons on Substrate Gradients of Retinal Basal Lamina Proteins and Merosin. Journal of Neuroscience, 1996, 16, 4389-4401.	3.6	54
26	Agrin Is a Chimeric Proteoglycan with the Attachment Sites for Heparan Sulfate/Chondroitin Sulfate Located in Two Multiple Serine-Glycine Clusters. Journal of Biological Chemistry, 2003, 278, 30106-30114.	3.4	53
27	A Role of Midkine in the Development of the Neuromuscular Junction. Molecular and Cellular Neurosciences, 1997, 10, 56-70.	2.2	52
28	Regulation of Eye Size by the Retinal Basement Membrane and Vitreous Body. , 2006, 47, 3586.		51
29	Immunohistochemical localization of laminin, neural cell adhesion molecule, collagen type IV and T-61 antigen in the embryonic retina of the Japanese quail by in vivo injection of antibodies. Cell and Tissue Research, 1987, 249, 487-96.	2.9	50
30	Molecular interactions in the retinal basement membrane system: A proteomic approach. Matrix Biology, 2010, 29, 471-483.	3.6	50
31	The Bi-Functional Organization of Human Basement Membranes. PLoS ONE, 2013, 8, e67660.	2.5	50
32	Proteomic View of Basement Membranes from Human Retinal Blood Vessels, Inner Limiting Membranes, and Lens Capsules. Journal of Proteome Research, 2014, 13, 3693-3705.	3.7	49
33	Opticin Binds to Heparan and Chondroitin Sulfate Proteoglycans. , 2005, 46, 4417.		47
34	Identification of a Novel Alternatively Spliced Agrin mRNA That Is Preferentially Expressed in Non-neuronal Cells. Journal of Biological Chemistry, 1995, 270, 15934-15937.	3.4	45
35	Disruption of the retinal basal lamina during early embryonic development leads to a retraction of vitreal end feet, an increased number of ganglion cells, and aberrant axonal outgrowth. , 1998, 397, 89-104.		44
36	Axonal pathfinding in organ-cultured embryonic avian retinae. Developmental Biology, 1986, 114, 296-310.	2.0	41

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37	Temporary Disruption of the Retinal Basal Lamina and Its Effect on Retinal Histogenesis. Developmental Biology, 2001, 238, 79-96.	2.0	41
38	Agrin is required for posterior development and motor axon outgrowth and branching in embryonic zebrafish. Glycobiology, 2007, 17, 231-247.	2.5	39
39	Axonin 1 is expressed primarily in subclasses of avian sensory neurons during outgrowth. Developmental Brain Research, 1994, 78, 87-101.	1.7	38
40	Expression of basal lamina protein mRNAs in the early embryonic chick eye. Journal of Comparative Neurology, 2002, 447, 261-273.	1.6	36
41	Mapping of the laminin-binding site of the N-terminal agrin domain (NtA). EMBO Journal, 2003, 22, 529-536.	7.8	36
42	Superior Rim Stability of the Lens Capsule Following Manual Over Femtosecond Laser Capsulotomy. , 2016, 57, 2839.		35
43	Tenascin-C Is Associated with Cored Amyloid-Î² Plaques in Alzheimer Disease and Pathology Burdened Cognitively Normal Elderly. Journal of Neuropathology and Experimental Neurology, 2016, 75, 868-876.	1.7	31
44	Anterograde tracing of retinal axons in the avian embryo with low molecular weight derivatives of biotin. Developmental Biology, 1987, 119, 322-335.	2.0	29
45	Retinal ectopias and mechanically weakened basement membrane in a mouse model of muscle-eye-brain (MEB) disease congenital muscular dystrophy. Molecular Vision, 2010, 16, 1415-28.	1.1	27
46	Extracellular Matrices of the Avian Ovarian Follicle. Journal of Biological Chemistry, 2004, 279, 23486-23494.	3.4	26
47	II.E. Vitreoretinal Interface and Inner Limiting Membrane. , 2014, , 165-191.		25
48	3-Dimensional modelling of chick embryo eye development and growth using high resolution magnetic resonance imaging. Experimental Eye Research, 2009, 89, 511-521.	2.6	23
49	Intraretinal Grafting Reveals Growth Requirements and Guidance Cues for Optic Axons in the Developing Avian Retina. Developmental Biology, 1996, 177, 160-177.	2.0	22
50	Adaptation of Sensory Neurons to Hyalectin and Decorin Proteoglycans. Journal of Neuroscience, 2005, 25, 4964-4973.	3.6	22
51	Glycosaminoglycan-dependent and -independent inhibition of neurite outgrowth by agrin. Journal of Neurochemistry, 2004, 90, 50-61.	3.9	19
52	A New Heparan Sulfate Proteoglycan in the Extracellular Matrix of the Developing Chick Embryo. Experimental Cell Research, 1994, 214, 285-296.	2.6	18
53	Disruption of the pial basal lamina during early avian embryonic development inhibits histogenesis and axonal pathfinding in the optic tectum. , 1998, 397, 105-117.		18
54	Inhibition of cell proliferation by cytosin-arabinoside and its interference with spatial and temporal differentiation patterns in the chick retina. Cell and Tissue Research, 1986, 244, 501-13.	2.9	17

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55	The human Descemet's membrane and lens capsule: Protein composition and biomechanical properties. Experimental Eye Research, 2020, 201, 108326.	2.6	17
56	Diabetes-related changes in the protein composition and the biomechanical properties of human retinal vascular basement membranes. PLoS ONE, 2017, 12, e0189857.	2.5	17
57	Beta1-integrin signaling is essential for lens fiber survival. Gene Regulation and Systems Biology, 2007, 1, 177-89.	2.3	12
58	Aberrant optic axons in the retinal pigment epithelium during chick and quail visual pathway development. Journal of Comparative Neurology, 1988, 268, 161-170.	1.6	11
59	Perlecan and its immunoglobulin like domain IV are abundant in vitreous and serum of the chick embryo. Matrix Biology, 2004, 23, 143-152.	3.6	11
60	An organizing function of basement membranes in the developing nervous system. Mechanisms of Development, 2014, 133, 1-10.	1.7	11
61	Change in Embryonic Eye Size and Retinal Cell Proliferation following Intravitreal Injection of Glycosaminoglycans. , 2008, 49, 3289.		5
62	Organ-specific ECM arrays for investigating cell-ECM interactions during stem cell differentiation. Biofabrication, 2021, 13, 015015.	7.1	4
63	Effect of wound healing and tissue transplantation on the navigation of axons in organ-cultured embryonic chick eyes. Journal of Comparative Neurology, 1993, 327, 442-457.	1.6	3
64	Î²1-Integrin Signaling is Essential for Lens Fiber Survival. Gene Regulation and Systems Biology, 2007, 1, 117762500700100.	2.3	1
65	Interactions of Axons with their Environment: The Chick Retino-Tectal System as a Model. , 1984, , 343-360.		0