Hiromi Yanagisawa

List of Publications by Year
in descending order

115 papers	6,909 citations	76196 40 h-index	62479 80 g-index
125 all docs	125 docs citations	125 times ranked	6294 citing authors

#	Article	IF	Citations
1	Experimental and Mouse-Specific Computational Models of the Fbln4SMKO Mouse to Identify Potential Biomarkers for Ascending Thoracic Aortic Aneurysm. Cardiovascular Engineering and Technology, 2022, 13, 558-572.	0.7	3
2	Dysregulated assembly of elastic fibers in fibulin-5 knockout mice results in a tendon-specific increase in elastic modulus. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 113, 104134.	1.5	7
3	Contribution of PDGFRÎ±-positive cells in maintenance and injury responses in mouse large vessels. Scientific Reports, 2021, 11, 8683.	1.6	4
4	Raman microspectroscopy and Raman imaging reveal biomarkers specific for thoracic aortic aneurysms. Cell Reports Medicine, 2021, 2, 100261.	3.3	12
5	Isolation and Culture of Primary Oral Keratinocytes from the Adult Mouse Palate. Journal of Visualized Experiments, 2021, , .	0.2	0
6	Extracellular matrix-mediated remodeling and mechanotransduction in large vessels during development and disease. Cellular Signalling, 2021, 86, 110104.	1.7	12
7	Elastic fibers and biomechanics of the aorta: Insights from mouse studies. Matrix Biology, 2020, 85-86, 160-172.	1.5	57
8	Glycome profiling by lectin microarray reveals dynamic glycan alterations during epidermal stem cell aging. Aging Cell, 2020, 19, e13190.	3.0	23
9	Defining compartmentalized stem cell populations with distinct cell division dynamics in the ocular surface epithelium. Development (Cambridge), 2020, 147, .	1.2	8
10	TBX1 Regulates Chondrocyte Maturation in the Spheno-occipital Synchondrosis. Journal of Dental Research, 2020, 99, 1182-1191.	2.5	8
11	Role of PAR1-Egr1 in the Initiation of Thoracic Aortic Aneurysm in Fbln4-Deficient Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 1905-1917.	1.1	17
12	Matrix mechanotransduction mediated by thrombospondin-1/integrin/YAP in the vascular remodeling. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9896-9905.	3.3	90
13	The molecular mechanism of mechanotransduction in vascular homeostasis and disease. Clinical Science, 2020, 134, 2399-2418.	1.8	60
14	Novel ELN mutation in a Japanese family with a severe form of supravalvular aortic stenosis. Molecular Genetics & Genomic Medicine, 2019, 7, e986.	0.6	4
15	Recent updates on the molecular network of elastic fiber formation. Essays in Biochemistry, 2019, 63, 365-376.	2.1	38
16	Epidermal stem cell lineages. Advances in Stem Cells and Their Niches, 2019, 3, 31-72.	0.1	1
17	Wild-type and SAMP8 mice show age-dependent changes in distinct stem cell compartments of the interfollicular epidermis. PLoS ONE, 2019, 14, e0215908.	1.1	9
18	Fibulin-4 deficiency differentially affects cytoskeleton structure and dynamics as well as TGFÎ²2 signaling. Cellular Signalling, 2019, 58, 65-78.	1.7	14

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19	Fibulin-4 exerts a dual role in LTBP-4Lâ€“mediated matrix assembly and function. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20428-20437.	3.3	22
20	A Case of Noonan Syndrome with the SHOC2 Mutation Complicated by Dilation of a Single Left Coronary Artery. Nihon Shoni Junkanki Gakkai Zasshi = Pediatric Cardiology and Cardiac Surgery, 2019, 35, 127-131.	0.0	0
21	Crossing Bridges between Extra- and Intra-Cellular Events in Thoracic Aortic Aneurysms. Journal of Atherosclerosis and Thrombosis, 2018, 25, 99-110.	0.9	19
22	Decreased mitochondrial respiration in aneurysmal aortas of Fibulin-4 mutant mice is linked to PGC1A regulation. Cardiovascular Research, 2018, 114, 1776-1793.	1.8	47
23	Fibulin-7, a heparin binding matricellular protein, promotes renal tubular calcification in mice. Matrix Biology, 2018, 74, 5-20.	1.5	16
24	Deletion of the T-box transcription factor gene, Tbx1, in mice induces differential expression of genes associated with cleft palate in humans. Archives of Oral Biology, 2018, 95, 149-155.	0.8	5
25	Role of Thrombospondin-1 in Mechanotransduction and Development of Thoracic Aortic Aneurysm in Mouse and Humans. Circulation Research, 2018, 123, 660-672.	2.0	44
26	Dysregulation of fibulin-5 and matrix metalloproteases in epithelial ovarian cancer. Oncotarget, 2018, 9, 14251-14267.	0.8	19
27	Comparison of 10 murine models reveals a distinct biomechanical phenotype in thoracic aortic aneurysms. Journal of the Royal Society Interface, 2017, 14, 20161036.	1.5	92
28	Crosslinked elastic fibers are necessary for low energy loss in the ascending aorta. Journal of Biomechanics, 2017, 61, 199-207.	0.9	36
29	Disturbed Flow Promotes Arterial Stiffening Through Thrombospondin-1. Circulation, 2017, 136, 1217-1232.	1.6	48
30	Identification of the matricellular protein Fibulin-5 as a target molecule of glucokinase-mediated calcineurin/NFAT signaling in pancreatic islets. Scientific Reports, 2017, 7, 2364.	1.6	9
31	Reduced Biaxial Contractility in the Descending Thoracic Aorta of Fibulin-5 Deficient Mice. Journal of Biomechanical Engineering, 2016, 138, 051008.	0.6	34
32	Loss of elastic fiber integrity compromises common carotid artery function: Implications for vascular aging. Artery Research, 2016, 14, 41.	0.3	28
33	Specification of jaw identity by the Hand2 transcription factor. Scientific Reports, 2016, 6, 28405.	1.6	21
34	Epithelial-Derived Inflammation Disrupts Elastin Assembly and Alters Saccular Stage Lung Development. American Journal of Pathology, 2016, 186, 1786-1800.	1.9	32
35	Pelvic Organ Support in Animals with Partial Loss of Fibulin-5 in the Vaginal Wall. PLoS ONE, 2016, 11, e0152793.	1.1	18
36	Molecular basis of cleft palates in mice. World Journal of Biological Chemistry, 2015, 6, 121.	1.7	36

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37	Loss of Tbx1 induces bone phenotypes similar to cleidocranial dysplasia. Human Molecular Genetics, 2015, 24, 424-435.	1.4	27
38	Decreased Elastic Energy Storage, Not Increased Material Stiffness, Characterizes Central Artery Dysfunction in Fibulin-5 Deficiency Independent of Sex. Journal of Biomechanical Engineering, 2015, 137, .	0.6	74
39	Differences in genetic signaling, and not mechanical properties of the wall, are linked to ascending aortic aneurysms in fibulin-4 knockout mice. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H103-H113.	1.5	13
40	Mechanical factors direct mouse aortic remodelling during early maturation. Journal of the Royal Society Interface, 2015, 12, 20141350.	1.5	24
41	Abnormal mechanosensing and cofilin activation promote the progression of ascending aortic aneurysms in mice. Science Signaling, 2015, 8, ra105.	1.6	43
42	MMP17/MT4-MMP and Thoracic Aortic Aneurysms. Circulation Research, 2015, 117, 109-112.	2.0	8
43	Loss of fibulin-4 disrupts collagen synthesis and maturation: implications for pathology resulting fromEFEMP2mutations. Human Molecular Genetics, 2015, 24, 5867-5879.	1.4	46
44	Fibulin-5 Blocks Microenvironmental ROS in Pancreatic Cancer. Cancer Research, 2015, 75, 5058-5069.	0.4	33
45	Fibulin-5 null mice with decreased arterial compliance maintain normal systolic left ventricular function, but not diastolic function during maturation. Physiological Reports, 2014, 2, e00257.	0.7	15
46	The Effects of Elastic Fiber Protein Insufficiency and Treatment on the Modulus of Arterial Smooth Muscle Cells. Journal of Biomechanical Engineering, 2014, 136, 021030.	0.6	11
47	Measuring, reversing, and modeling the mechanical changes due to the absence of Fibulin-4 in mouse arteries. Biomechanics and Modeling in Mechanobiology, 2014, 13, 1081-1095.	1.4	17
48	Fibulin-4 and fibulin-5 in elastogenesis and beyond: Insights from mouse and human studies. Matrix Biology, 2014, 37, 142-149.	1.5	115
49	Extracellular Matrix Defects in Aneurysmal Fibulin-4 Mice Predispose to Lung Emphysema. PLoS ONE, 2014, 9, e106054.	1.1	17
50	Restrictive remodeling in response to disturbed flow in stiffened carotid arteries is related to elastin dysfunction in fibulin V knockout mice. Cardiovascular Pathology, 2013, 22, e49.	0.7	0
51	Angiotensin-Converting Enzymeâ€“Induced Activation of Local Angiotensin Signaling Is Required for Ascending Aortic Aneurysms in Fibulin-4â€“Deficient Mice. Science Translational Medicine, 2013, 5, 183ra58, 1-11.	5.8	50
52	Dysregulation of Protease and Protease Inhibitors in a Mouse Model of Human Pelvic Organ Prolapse. PLoS ONE, 2013, 8, e56376.	1.1	26
53	Characterization of Cardiac Function and Arterial Mechanics During Early Postnatal Development in Fibulin-5 Null Mice. , 2013, , .		0
54	Tbx1 regulates oral epithelial adhesion and palatal development. Human Molecular Genetics, 2012, 21, 2524-2537.	1.4	53

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55	Fibulin-5 binds urokinase-type plasminogen activator and mediates urokinase-stimulated Î²1-integrin-dependent cell migration. Biochemical Journal, 2012, 443, 491-503.	1.7	25
56	Abstract 83: Molecular Mechanism of Aortic Aneurysm Formation in Fibulin-4--Deficient Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, .	1.1	0
57	Role of Fibulin-5 in Metastatic Organ Colonization. Molecular Cancer Research, 2011, 9, 553-563.	1.5	24
58	Extracellular matrix proteases contribute to progression of pelvic organ prolapse in mice and humans. Journal of Clinical Investigation, 2011, 121, 2048-2059.	3.9	123
59	Biomechanical and Microstructural Properties of Common Carotid Arteries from Fibulin-5 Null Mice. Annals of Biomedical Engineering, 2010, 38, 3605-3617.	1.3	70
60	Fibulin-4 Deficiency Results in Ascending Aortic Aneurysms. Circulation Research, 2010, 106, 583-592.	2.0	146
61	Low Blood Pressure in Endothelial Cellâ€“Specific Endothelin 1 Knockout Mice. Hypertension, 2010, 56, 121-128.	1.3	88
62	Loss of fibulin-5 binding to Î²1 integrins inhibits tumor growth by increasing the level of ROS. DMM Disease Models and Mechanisms, 2010, 3, 333-342.	1.2	56
63	Fibulin-2 and Fibulin-5 Cooperatively Function to Form the Internal Elastic Lamina and Protect From Vascular Injury. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 68-74.	1.1	68
64	Unraveling the mechanism of elastic fiber assembly: The roles of short fibulins. International Journal of Biochemistry and Cell Biology, 2010, 42, 1084-1093.	1.2	126
65	Loss of fibulin-5 binding to Î²1 integrins inhibits tumor growth by increasing the level of ROS. Journal of Cell Science, 2010, 123, e1-e1.	1.2	1
66	Hand2 controls osteoblast differentiation in the branchial arch by inhibiting DNA binding of Runx2. Development (Cambridge), 2009, 136, 615-625.	1.2	59
67	Quantification of Pelvic Organ Prolapse in Mice: Vaginal Protease Activity Precedes Increased MOPQ Scores in Fibulin 5 Knockout Mice1. Biology of Reproduction, 2009, 80, 407-414.	1.2	34
68	DNA binding-dependent and -independent functions of the Hand2 transcription factor during mouse embryogenesis. Development (Cambridge), 2009, 136, 933-942.	1.2	35
69	Fibulin-5, an integrin-binding matricellular protein: its function in development and disease. Journal of Cell Communication and Signaling, 2009, 3, 337-347.	1.8	131
70	Analysis of dermal elastic fibers in the absence of fibulin-5 reveals potential roles for fibulin-5 in elastic fiber assembly. Matrix Biology, 2009, 28, 211-220.	1.5	59
71	Fibulinâ€5â€integrin binding and vessel development. FASEB Journal, 2009, 23, 309.2.	0.2	0
72	Biomechanical and Microstructural Properties of Fibulin-5 Null Mice. , 2009, , .		0

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73	The importance of elastin and fibulin-5 on spine development: a study of elastin KO and fibulin-5 KO on the development of vertebral body and intervertebral disc. International Journal of Experimental Pathology, 2008, 85, A29-A30.	0.6	0
74	Molecular Analysis of Fibulin-5 Function during De Novo Synthesis of Elastic Fibers. Molecular and Cellular Biology, 2007, 27, 1083-1095.	1.1	61
75	Hand transcription factors cooperatively regulate development of the distal midline mesenchyme. Developmental Biology, 2007, 310, 154-168.	0.9	64
76	Pelvic Organ Prolapse in Fibulin-5 Knockout Mice. American Journal of Pathology, 2007, 170, 578-589.	1.9	168
77	Fibulin-5 functions as an endogenous angiogenesis inhibitor. Laboratory Investigation, 2007, 87, 818-827.	1.7	55
78	Molecular mechanism of elastic fiber regeneration by fibulin_5. Matrix Biology, 2006, 25, S16-S16.	1.5	0
79	Normal Wound Healing in Mice Deficient for Fibulin-5, an Elastin Binding Protein Essential for Dermal Elastic Fiber Assembly. Journal of Investigative Dermatology, 2006, 126, 2707-2714.	0.3	31
80	Increased Fibulin-5 and Elastin in S100A4/Mts1 Mice With Pulmonary Hypertension. Circulation Research, 2005, 97, 596-604.	2.0	87
81	Altered vascular remodeling in fibulin-5-deficient mice reveals a role of fibulin-5 in smooth muscle cell proliferation and migration. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2946-2951.	3.3	113
82	Fibulin-5 Is a Novel Binding Protein for Extracellular Superoxide Dismutase. Circulation Research, 2004, 95, 1067-1074.	2.0	100
83	Elastic fiber homeostasis requires lysyl oxidaseâ€“like 1 protein. Nature Genetics, 2004, 36, 178-182.	9.4	586
84	Ece1 andTbx1 define distinct pathways to aortic arch morphogenesis. Developmental Dynamics, 2003, 228, 95-104.	0.8	17
85	Dhand-cre transgenic mice reveal specific potential functions of dHAND during craniofacial development. Developmental Biology, 2003, 257, 263-277.	0.9	48
86	Targeted deletion of a branchial arch-specific enhancer reveals a role ofdHANDin craniofacial development. Development (Cambridge), 2003, 130, 1069-1078.	1.2	126
87	Fibulin-5 is an elastin-binding protein essential for elastic fibre development in vivo. Nature, 2002, 415, 168-171.	13.7	563
88	CHAMP, A Novel Cardiac-Specific Helicase Regulated by MEF2C. Developmental Biology, 2001, 234, 497-509.	0.9	39
89	Transgenic rescue of aganglionosis and piebaldism in lethal spotted mice. , 2000, 217, 120-132.		34
90	L-Arginine treatment may prevent tubulointerstitial nephropathy caused by germanium dioxide. Kidney International, 2000, 57, 2275-2284.	2.6	10

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91	Zinc deficiency further increases the enhanced expression of endothelin-1 in glomeruli of the obstructed kidney. Kidney International, 2000, 58, 575-586.	2.6	29
92	Signaling Pathways Crucial for Craniofacial Development Revealed by Endothelin-A Receptor-Deficient Mice. Developmental Biology, 2000, 217, 10-24.	0.9	193
93	Disruption of ECE-1 and ECE-2 reveals a role for endothelin-converting enzyme-2 in murine cardiac development. Journal of Clinical Investigation, 2000, 105, 1373-1382.	3.9	172
94	Inflammatory disease in HLA-B27 transgenic rats. Immunological Reviews, 1999, 169, 209-223.	2.8	212
95	Role of Angiotensin II, Endothelin-1, and Nitric Oxide in HgCl2-Induced Acute Renal Failure. Toxicology and Applied Pharmacology, 1998, 152, 315-326.	1.3	39
96	Zinc deficiency aggravates tubulointerstitial nephropathy caused by ureteral obstruction. Biological Trace Element Research, 1998, 65, 1-6.	1.9	22
97	Altered expression of endothelin-1 and endothelial nitric oxide synthase in the juxtaglomerular apparatus of rats with HgCl2-induced acute renal failure. Toxicology Letters, 1998, 98, 181-188.	0.4	13
98	Effects of Dietary Protein on Eicosanoid Production in Rat Renal Tubules. Nephron, 1998, 78, 179-186.	0.9	11
99	Inducible Nitric Oxide Synthase Expression in Mercury Chloride-Induced Acute Tubular Necrosis.. Industrial Health, 1998, 36, 324-330.	0.4	16
100	Role of Endothelin-1/Endothelin-A receptor-mediated signaling pathway in the aortic arch patterning in mice.. Journal of Clinical Investigation, 1998, 102, 22-33.	3.9	181
101	Cranial and cardiac neural crest defects in endothelin-A receptor-deficient mice. Development (Cambridge), 1998, 125, 813-824.	1.2	568
102	Dual genetic pathways of endothelin-mediated intercellular signaling revealed by targeted disruption of endothelin converting enzyme-1 gene. Development (Cambridge), 1998, 125, 825-836.	1.2	434
103	Cranial and cardiac neural crest defects in endothelin-A receptor-deficient mice. Development (Cambridge), 1998, 125, 813-24.	1.2	180
104	Dual genetic pathways of endothelin-mediated intercellular signaling revealed by targeted disruption of endothelin converting enzyme-1 gene. Development (Cambridge), 1998, 125, 825-36.	1.2	127
105	Ureteral Obstruction Enhances Eicosanoid Production in Cortical and Medullary Tubules of Rat Kidneys. Kidney and Blood Pressure Research, 1997, 20, 398-405.	0.9	12
106	Characterization of psoriasiform and alopecic skin lesions in HLA-B27 transgenic rats. American Journal of Pathology, 1995, 147, 955-64.	1.9	25
107	Dietary protein restriction in isolated glomeruli from rats with bilateral ureteral obstruction. Kidney International, 1994, 46, 245-251.	2.6	6
108	Regional Characterization of G-Protein Subunits in Glomeruli, Cortices and Medullas of the Rat Kidney. Nephron, 1994, 66, 447-452.	0.9	4

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109	Polycythemia associated with primary systemic amyloidosis: Elevated levels of hemopoietic factors and cytokines. American Journal of Hematology, 1993, 43, 57-60.	2.0	10
110	Increases in Glomerular Eicosanoid Production in Rats with Bilateral Ureteral Obstruction Are Mediated by Enhanced Enzyme Activities of Both the Cyclooxygenase and 5-Lipoxygenase Pathways. Experimental Biology and Medicine, 1993, 203, 291-296.	1.1	12
111	Monoclonal antibody to 2-amino-3-methylimidazo(4,5-F)quinoline, a dietary carcinogen. Applied Biochemistry and Biotechnology, 1990, 23, 1-13.	1.4	2
112	Inhibitory effects of carcinogenic tryptophan pyrolysis products on phytohemagglutinin-induced blast transformation of human lymphocytes. Toxicology Letters, 1990, 51, 227-231.	0.4	3
113	Significant Increase of IQ-Type Heterocyclic Amines, Dietary Carcinogens in the Plasma of Patients with Uremia just before Induction of Hemodialysis Treatment. Nephron, 1989, 52, 6-10.	0.9	12
114	Carcinogenic glutamic acid pyrolysis product in the dialysate of uremic patients treated by continuous ambulatory peritoneal dialysis. Clinical Nephrology, 1988, 30, 73-8.	0.4	11
115	Raman Microspectroscopy and Imaging Reveal Novel Biomarkers Specific for Thoracic Aortic Aneurysms. SSRN Electronic Journal, 0, , .	0.4	0