

# Hiromi Yanagisawa

## List of Publications by Year in descending order

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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	Elastic fiber homeostasis requires lysyl oxidase-like 1 protein. <i>Nature Genetics</i> , 2004, 36, 178-182.	9.4	586
2	Cranial and cardiac neural crest defects in endothelin-A receptor-deficient mice. <i>Development (Cambridge)</i> , 1998, 125, 813-824.	1.2	568
3	Fibulin-5 is an elastin-binding protein essential for elastic fibre development in vivo. <i>Nature</i> , 2002, 415, 168-171.	13.7	563
4	Dual genetic pathways of endothelin-mediated intercellular signaling revealed by targeted disruption of endothelin converting enzyme-1 gene. <i>Development (Cambridge)</i> , 1998, 125, 825-836.	1.2	434
5	Inflammatory disease in HLA-B27 transgenic rats. <i>Immunological Reviews</i> , 1999, 169, 209-223.	2.8	212
6	Signaling Pathways Crucial for Craniofacial Development Revealed by Endothelin-A Receptor-Deficient Mice. <i>Developmental Biology</i> , 2000, 217, 10-24.	0.9	193
7	Role of Endothelin-1/Endothelin-A receptor-mediated signaling pathway in the aortic arch patterning in mice.. <i>Journal of Clinical Investigation</i> , 1998, 102, 22-33.	3.9	181
8	Cranial and cardiac neural crest defects in endothelin-A receptor-deficient mice. <i>Development (Cambridge)</i> , 1998, 125, 813-24.	1.2	180
9	Disruption of ECE-1 and ECE-2 reveals a role for endothelin-converting enzyme-2 in murine cardiac development. <i>Journal of Clinical Investigation</i> , 2000, 105, 1373-1382.	3.9	172
10	Pelvic Organ Prolapse in Fibulin-5 Knockout Mice. <i>American Journal of Pathology</i> , 2007, 170, 578-589.	1.9	168
11	Fibulin-4 Deficiency Results in Ascending Aortic Aneurysms. <i>Circulation Research</i> , 2010, 106, 583-592.	2.0	146
12	Fibulin-5, an integrin-binding matricellular protein: its function in development and disease. <i>Journal of Cell Communication and Signaling</i> , 2009, 3, 337-347.	1.8	131
13	Dual genetic pathways of endothelin-mediated intercellular signaling revealed by targeted disruption of endothelin converting enzyme-1 gene. <i>Development (Cambridge)</i> , 1998, 125, 825-36.	1.2	127
14	Targeted deletion of a branchial arch-specific enhancer reveals a role of HAND in craniofacial development. <i>Development (Cambridge)</i> , 2003, 130, 1069-1078.	1.2	126
15	Unraveling the mechanism of elastic fiber assembly: The roles of short fibulins. <i>International Journal of Biochemistry and Cell Biology</i> , 2010, 42, 1084-1093.	1.2	126
16	Extracellular matrix proteases contribute to progression of pelvic organ prolapse in mice and humans. <i>Journal of Clinical Investigation</i> , 2011, 121, 2048-2059.	3.9	123
17	Fibulin-4 and fibulin-5 in elastogenesis and beyond: Insights from mouse and human studies. <i>Matrix Biology</i> , 2014, 37, 142-149.	1.5	115
18	Altered vascular remodeling in fibulin-5-deficient mice reveals a role of fibulin-5 in smooth muscle cell proliferation and migration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 2946-2951.	3.3	113

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19	Fibulin-5 Is a Novel Binding Protein for Extracellular Superoxide Dismutase. <i>Circulation Research</i> , 2004, 95, 1067-1074.	2.0	100
20	Comparison of 10 murine models reveals a distinct biomechanical phenotype in thoracic aortic aneurysms. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20161036.	1.5	92
21	Matrix mechanotransduction mediated by thrombospondin-1/integrin/YAP in the vascular remodeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9896-9905.	3.3	90
22	Low Blood Pressure in Endothelial Cell-Specific Endothelin 1 Knockout Mice. <i>Hypertension</i> , 2010, 56, 121-128.	1.3	88
23	Increased Fibulin-5 and Elastin in S100A4/Mts1 Mice With Pulmonary Hypertension. <i>Circulation Research</i> , 2005, 97, 596-604.	2.0	87
24	Decreased Elastic Energy Storage, Not Increased Material Stiffness, Characterizes Central Artery Dysfunction in Fibulin-5 Deficiency Independent of Sex. <i>Journal of Biomechanical Engineering</i> , 2015, 137, .	0.6	74
25	Biomechanical and Microstructural Properties of Common Carotid Arteries from Fibulin-5 Null Mice. <i>Annals of Biomedical Engineering</i> , 2010, 38, 3605-3617.	1.3	70
26	Fibulin-2 and Fibulin-5 Cooperatively Function to Form the Internal Elastic Lamina and Protect From Vascular Injury. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 68-74.	1.1	68
27	Hand transcription factors cooperatively regulate development of the distal midline mesenchyme. <i>Developmental Biology</i> , 2007, 310, 154-168.	0.9	64
28	Molecular Analysis of Fibulin-5 Function during De Novo Synthesis of Elastic Fibers. <i>Molecular and Cellular Biology</i> , 2007, 27, 1083-1095.	1.1	61
29	The molecular mechanism of mechanotransduction in vascular homeostasis and disease. <i>Clinical Science</i> , 2020, 134, 2399-2418.	1.8	60
30	Hand2 controls osteoblast differentiation in the branchial arch by inhibiting DNA binding of Runx2. <i>Development (Cambridge)</i> , 2009, 136, 615-625.	1.2	59
31	Analysis of dermal elastic fibers in the absence of fibulin-5 reveals potential roles for fibulin-5 in elastic fiber assembly. <i>Matrix Biology</i> , 2009, 28, 211-220.	1.5	59
32	Elastic fibers and biomechanics of the aorta: Insights from mouse studies. <i>Matrix Biology</i> , 2020, 85-86, 160-172.	1.5	57
33	Loss of fibulin-5 binding to $\alpha 21$ integrins inhibits tumor growth by increasing the level of ROS. <i>DMM Disease Models and Mechanisms</i> , 2010, 3, 333-342.	1.2	56
34	Fibulin-5 functions as an endogenous angiogenesis inhibitor. <i>Laboratory Investigation</i> , 2007, 87, 818-827.	1.7	55
35	Tbx1 regulates oral epithelial adhesion and palatal development. <i>Human Molecular Genetics</i> , 2012, 21, 2524-2537.	1.4	53
36	Angiotensin-Converting Enzyme-Induced Activation of Local Angiotensin Signaling Is Required for Ascending Aortic Aneurysms in Fibulin-4 Deficient Mice. <i>Science Translational Medicine</i> , 2013, 5, 183ra58, 1-11.	5.8	50

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37	Dhand-cre transgenic mice reveal specific potential functions of dHAND during craniofacial development. <i>Developmental Biology</i> , 2003, 257, 263-277.	0.9	48
38	Disturbed Flow Promotes Arterial Stiffening Through Thrombospondin-1. <i>Circulation</i> , 2017, 136, 1217-1232.	1.6	48
39	Decreased mitochondrial respiration in aneurysmal aortas of Fibulin-4 mutant mice is linked to PGC1A regulation. <i>Cardiovascular Research</i> , 2018, 114, 1776-1793.	1.8	47
40	Loss of fibulin-4 disrupts collagen synthesis and maturation: implications for pathology resulting from EFEMP2 mutations. <i>Human Molecular Genetics</i> , 2015, 24, 5867-5879.	1.4	46
41	Role of Thrombospondin-1 in Mechanotransduction and Development of Thoracic Aortic Aneurysm in Mouse and Humans. <i>Circulation Research</i> , 2018, 123, 660-672.	2.0	44
42	Abnormal mechanosensing and cofilin activation promote the progression of ascending aortic aneurysms in mice. <i>Science Signaling</i> , 2015, 8, ra105.	1.6	43
43	Role of Angiotensin II, Endothelin-1, and Nitric Oxide in HgCl <sub>2</sub> -Induced Acute Renal Failure. <i>Toxicology and Applied Pharmacology</i> , 1998, 152, 315-326.	1.3	39
44	CHAMP, A Novel Cardiac-Specific Helicase Regulated by MEF2C. <i>Developmental Biology</i> , 2001, 234, 497-509.	0.9	39
45	Recent updates on the molecular network of elastic fiber formation. <i>Essays in Biochemistry</i> , 2019, 63, 365-376.	2.1	38
46	Molecular basis of cleft palates in mice. <i>World Journal of Biological Chemistry</i> , 2015, 6, 121.	1.7	36
47	Crosslinked elastic fibers are necessary for low energy loss in the ascending aorta. <i>Journal of Biomechanics</i> , 2017, 61, 199-207.	0.9	36
48	DNA binding-dependent and -independent functions of the Hand2 transcription factor during mouse embryogenesis. <i>Development (Cambridge)</i> , 2009, 136, 933-942.	1.2	35
49	Transgenic rescue of aganglionosis and piebaldism in lethal spotted mice. , 2000, 217, 120-132.		34
50	Quantification of Pelvic Organ Prolapse in Mice: Vaginal Protease Activity Precedes Increased MOPQ Scores in Fibulin 5 Knockout Mice <sup>1</sup> . <i>Biology of Reproduction</i> , 2009, 80, 407-414.	1.2	34
51	Reduced Biaxial Contractility in the Descending Thoracic Aorta of Fibulin-5 Deficient Mice. <i>Journal of Biomechanical Engineering</i> , 2016, 138, 051008.	0.6	34
52	Fibulin-5 Blocks Microenvironmental ROS in Pancreatic Cancer. <i>Cancer Research</i> , 2015, 75, 5058-5069.	0.4	33
53	Epithelial-Derived Inflammation Disrupts Elastin Assembly and Alters Saccular Stage Lung Development. <i>American Journal of Pathology</i> , 2016, 186, 1786-1800.	1.9	32
54	Normal Wound Healing in Mice Deficient for Fibulin-5, an Elastin Binding Protein Essential for Dermal Elastic Fiber Assembly. <i>Journal of Investigative Dermatology</i> , 2006, 126, 2707-2714.	0.3	31

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55	Zinc deficiency further increases the enhanced expression of endothelin-1 in glomeruli of the obstructed kidney. <i>Kidney International</i> , 2000, 58, 575-586.	2.6	29
56	Loss of elastic fiber integrity compromises common carotid artery function: Implications for vascular aging. <i>Artery Research</i> , 2016, 14, 41.	0.3	28
57	Loss of Tbx1 induces bone phenotypes similar to cleidocranial dysplasia. <i>Human Molecular Genetics</i> , 2015, 24, 424-435.	1.4	27
58	Dysregulation of Protease and Protease Inhibitors in a Mouse Model of Human Pelvic Organ Prolapse. <i>PLoS ONE</i> , 2013, 8, e56376.	1.1	26
59	Fibulin-5 binds urokinase-type plasminogen activator and mediates urokinase-stimulated $\beta$ 1-integrin-dependent cell migration. <i>Biochemical Journal</i> , 2012, 443, 491-503.	1.7	25
60	Characterization of psoriasiform and alopecic skin lesions in HLA-B27 transgenic rats. <i>American Journal of Pathology</i> , 1995, 147, 955-64.	1.9	25
61	Role of Fibulin-5 in Metastatic Organ Colonization. <i>Molecular Cancer Research</i> , 2011, 9, 553-563.	1.5	24
62	Mechanical factors direct mouse aortic remodelling during early maturation. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141350.	1.5	24
63	Glycome profiling by lectin microarray reveals dynamic glycan alterations during epidermal stem cell aging. <i>Aging Cell</i> , 2020, 19, e13190.	3.0	23
64	Zinc deficiency aggravates tubulointerstitial nephropathy caused by ureteral obstruction. <i>Biological Trace Element Research</i> , 1998, 65, 1-6.	1.9	22
65	Fibulin-4 exerts a dual role in LTBP-4-mediated matrix assembly and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20428-20437.	3.3	22
66	Specification of jaw identity by the Hand2 transcription factor. <i>Scientific Reports</i> , 2016, 6, 28405.	1.6	21
67	Crossing Bridges between Extra- and Intra-Cellular Events in Thoracic Aortic Aneurysms. <i>Journal of Atherosclerosis and Thrombosis</i> , 2018, 25, 99-110.	0.9	19
68	Dysregulation of fibulin-5 and matrix metalloproteases in epithelial ovarian cancer. <i>Oncotarget</i> , 2018, 9, 14251-14267.	0.8	19
69	Pelvic Organ Support in Animals with Partial Loss of Fibulin-5 in the Vaginal Wall. <i>PLoS ONE</i> , 2016, 11, e0152793.	1.1	18
70	Ece1 and Tbx1 define distinct pathways to aortic arch morphogenesis. <i>Developmental Dynamics</i> , 2003, 228, 95-104.	0.8	17
71	Measuring, reversing, and modeling the mechanical changes due to the absence of Fibulin-4 in mouse arteries. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 1081-1095.	1.4	17
72	Role of PAR1-Egr1 in the Initiation of Thoracic Aortic Aneurysm in Fbln4-Deficient Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 1905-1917.	1.1	17

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73	Extracellular Matrix Defects in Aneurysmal Fibulin-4 Mice Predispose to Lung Emphysema. PLoS ONE, 2014, 9, e106054.	1.1	17
74	Inducible Nitric Oxide Synthase Expression in Mercury Chloride-Induced Acute Tubular Necrosis.. Industrial Health, 1998, 36, 324-330.	0.4	16
75	Fibulin-7, a heparin binding matricellular protein, promotes renal tubular calcification in mice. Matrix Biology, 2018, 74, 5-20.	1.5	16
76	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
77	Fibulin-4 deficiency differentially affects cytoskeleton structure and dynamics as well as TGF $\beta$ <sup>2</sup> signaling. Cellular Signalling, 2019, 58, 65-78.	1.7	14
78	Altered expression of endothelin-1 and endothelial nitric oxide synthase in the juxtaglomerular apparatus of rats with HgCl <sub>2</sub> -induced acute renal failure. Toxicology Letters, 1998, 98, 181-188.	0.4	13
79	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
80	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
81	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
82	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
83	Raman microspectroscopy and Raman imaging reveal biomarkers specific for thoracic aortic aneurysms. Cell Reports Medicine, 2021, 2, 100261.	3.3	12
84	Extracellular matrix-mediated remodeling and mechanotransduction in large vessels during development and disease. Cellular Signalling, 2021, 86, 110104.	1.7	12
85	Effects of Dietary Protein on Eicosanoid Production in Rat Renal Tubules. Nephron, 1998, 78, 179-186.	0.9	11
86	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
87	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
88	Polycythemia associated with primary systemic amyloidosis: Elevated levels of hemopoietic factors and cytokines. American Journal of Hematology, 1993, 43, 57-60.	2.0	10
89	L-Arginine treatment may prevent tubulointerstitial nephropathy caused by germanium dioxide. Kidney International, 2000, 57, 2275-2284.	2.6	10
90	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

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91	Wild-type and SAMP8 mice show age-dependent changes in distinct stem cell compartments of the interfollicular epidermis. <i>PLoS ONE</i> , 2019, 14, e0215908.	1.1	9
92	MMP17/MT4-MMP and Thoracic Aortic Aneurysms. <i>Circulation Research</i> , 2015, 117, 109-112.	2.0	8
93	Defining compartmentalized stem cell populations with distinct cell division dynamics in the ocular surface epithelium. <i>Development (Cambridge)</i> , 2020, 147, .	1.2	8
94	TBX1 Regulates Chondrocyte Maturation in the Spheno-occipital Synchronosis. <i>Journal of Dental Research</i> , 2020, 99, 1182-1191.	2.5	8
95	Dysregulated assembly of elastic fibers in fibulin-5 knockout mice results in a tendon-specific increase in elastic modulus. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 113, 104134.	1.5	7
96	Dietary protein restriction in isolated glomeruli from rats with bilateral ureteral obstruction. <i>Kidney International</i> , 1994, 46, 245-251.	2.6	6
97	Deletion of the T-box transcription factor gene, <i>Tbx1</i> , in mice induces differential expression of genes associated with cleft palate in humans. <i>Archives of Oral Biology</i> , 2018, 95, 149-155.	0.8	5
98	Regional Characterization of G-Protein Subunits in Glomeruli, Cortices and Medullas of the Rat Kidney. <i>Nephron</i> , 1994, 66, 447-452.	0.9	4
99	Novel <i>ELN</i> mutation in a Japanese family with a severe form of supraaortic stenosis. <i>Molecular Genetics &amp; Genomic Medicine</i> , 2019, 7, e986.	0.6	4
100	Contribution of PDGFR $\alpha$ -positive cells in maintenance and injury responses in mouse large vessels. <i>Scientific Reports</i> , 2021, 11, 8683.	1.6	4
101	Inhibitory effects of carcinogenic tryptophan pyrolysis products on phytohemagglutinin-induced blast transformation of human lymphocytes. <i>Toxicology Letters</i> , 1990, 51, 227-231.	0.4	3
102	Experimental and Mouse-Specific Computational Models of the <i>Fbln4</i> SMKO Mouse to Identify Potential Biomarkers for Ascending Thoracic Aortic Aneurysm. <i>Cardiovascular Engineering and Technology</i> , 2022, 13, 558-572.	0.7	3
103	Monoclonal antibody to 2-amino-3-methylimidazo(4,5-F)quinoline, a dietary carcinogen. <i>Applied Biochemistry and Biotechnology</i> , 1990, 23, 1-13.	1.4	2
104	Epidermal stem cell lineages. <i>Advances in Stem Cells and Their Niches</i> , 2019, 3, 31-72.	0.1	1
105	Loss of fibulin-5 binding to $\alpha$ 21 integrins inhibits tumor growth by increasing the level of ROS. <i>Journal of Cell Science</i> , 2010, 123, e1-e1.	1.2	1
106	Molecular mechanism of elastic fiber regeneration by fibulin_5. <i>Matrix Biology</i> , 2006, 25, S16-S16.	1.5	0
107	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. <i>International Journal of Experimental Pathology</i> , 2008, 85, A29-A30.	0.6	0
108	Restrictive remodeling in response to disturbed flow in stiffened carotid arteries is related to elastin dysfunction in fibulin V knockout mice. <i>Cardiovascular Pathology</i> , 2013, 22, e49.	0.7	0

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109	Isolation and Culture of Primary Oral Keratinocytes from the Adult Mouse Palate. Journal of Visualized Experiments, 2021, , .	0.2	0
110	Fibulin-5 Integrin binding and vessel development. FASEB Journal, 2009, 23, 309.2.	0.2	0
111	Biomechanical and Microstructural Properties of Fibulin-5 Null Mice. , 2009, , .		0
112	Characterization of Cardiac Function and Arterial Mechanics During Early Postnatal Development in Fibulin-5 Null Mice. , 2013, , .		0
113	A Case of Noonan Syndrome with the <i>SHOC2</i> 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
114	Raman Microspectroscopy and Imaging Reveal Novel Biomarkers Specific for Thoracic Aortic Aneurysms. SSRN Electronic Journal, 0, , .	0.4	0
115	Abstract 83: Molecular Mechanism of Aortic Aneurysm Formation in Fibulin-4-Deficient Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, .	1.1	0