

Toshihiko Fujimori

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96
papers

6,195
citations

35
h-index

78
g-index

103
ext. papers

6,971
ext. citations

5.7
avg, IF

5.21
L-index

#	Paper	IF	Citations
96	Secreted Klotho protein in sera and CSF: implication for post-translational cleavage in release of Klotho protein from cell membrane. <i>FEBS Letters</i> , 2004 , 565, 143-7	3.8	425
95	Klotho, a gene related to a syndrome resembling human premature aging, functions in a negative regulatory circuit of vitamin D endocrine system. <i>Molecular Endocrinology</i> , 2003 , 17, 2393-403		394
94	Severely reduced production of klotho in human chronic renal failure kidney. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 280, 1015-20	3.4	381
93	FGF18 is required for normal cell proliferation and differentiation during osteogenesis and chondrogenesis. <i>Genes and Development</i> , 2002 , 16, 870-9	12.6	357
92	alpha-Klotho as a regulator of calcium homeostasis. <i>Science</i> , 2007 , 316, 1615-8	33.3	330
91	Lack of cadherins Celsr2 and Celsr3 impairs ependymal ciliogenesis, leading to fatal hydrocephalus. <i>Nature Neuroscience</i> , 2010 , 13, 700-7	25.5	244
90	Molecular cloning and expression analyses of mouse betaklotho, which encodes a novel Klotho family protein. <i>Mechanisms of Development</i> , 2000 , 98, 115-9	1.7	243
89	Evidence that absence of Wnt-3a signaling promotes neuralization instead of paraxial mesoderm development in the mouse. <i>Developmental Biology</i> , 1997 , 183, 234-42	3.1	238
88	Deficiency of zonula occludens-1 causes embryonic lethal phenotype associated with defected yolk sac angiogenesis and apoptosis of embryonic cells. <i>Molecular Biology of the Cell</i> , 2008 , 19, 2465-75	3.5	206
87	Mediation of unusually high concentrations of 1,25-dihydroxyvitamin D in homozygous klotho mutant mice by increased expression of renal 1alpha-hydroxylase gene. <i>Endocrinology</i> , 2002 , 143, 683-9	4.8	197
86	Impaired negative feedback suppression of bile acid synthesis in mice lacking betaKlotho. <i>Journal of Clinical Investigation</i> , 2005 , 115, 2202-8	15.9	192
85	Amelioration of progressive renal injury by genetic manipulation of Klotho gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 2331-6	11.5	184
84	Sinoatrial node dysfunction and early unexpected death of mice with a defect of klotho gene expression. <i>Circulation</i> , 2004 , 109, 1776-82	16.7	181
83	Klotho is a novel beta-glucuronidase capable of hydrolyzing steroid beta-glucuronides. <i>Journal of Biological Chemistry</i> , 2004 , 279, 9777-84	5.4	172
82	The lncRNA Neat1 is required for corpus luteum formation and the establishment of pregnancy in a subpopulation of mice. <i>Development (Cambridge)</i> , 2014 , 141, 4618-27	6.6	164
81	Establishment of conditional reporter mouse lines at ROSA26 locus for live cell imaging. <i>Genesis</i> , 2011 , 49, 579-90	1.9	164
80	Blastocyst axis is specified independently of early cell lineage but aligns with the ZP shape. <i>Science</i> , 2007 , 316, 719-23	33.3	162

79	Establishment of the anti-Klotho monoclonal antibodies and detection of Klotho protein in kidneys. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 267, 597-602	3.4	131
78	PDGF receptor beta is a potent regulator of mesenchymal stromal cell function. <i>Journal of Bone and Mineral Research</i> , 2008 , 23, 1519-28	6.3	120
77	Mechanically activated ion channel PIEZO1 is required for lymphatic valve formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12817-12822	11.5	111
76	Analysis of cell lineage in two- and four-cell mouse embryos. <i>Development (Cambridge)</i> , 2003 , 130, 5113-22	10.6	
75	Visualization of cell cycle in mouse embryos with Fucci2 reporter directed by Rosa26 promoter. <i>Development (Cambridge)</i> , 2013 , 140, 237-46	6.6	98
74	Reporter mouse lines for fluorescence imaging. <i>Development Growth and Differentiation</i> , 2013 , 55, 390-405	8.7	
73	Identification of a novel mouse membrane-bound family 1 glycosidase-like protein, which carries an atypical active site structure. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2002 , 1576, 341-5		78
72	Deletion of the PDGFR-beta gene affects key fibroblast functions important for wound healing. <i>Journal of Biological Chemistry</i> , 2005 , 280, 9375-89	5.4	77
71	Mouse brains deficient in neuronal PDGF receptor-beta develop normally but are vulnerable to injury. <i>Journal of Neurochemistry</i> , 2006 , 98, 588-600	6	70
70	TAG-1-assisted progenitor elongation streamlines nuclear migration to optimize subapical crowding. <i>Nature Neuroscience</i> , 2013 , 16, 1556-66	25.5	69
69	Mouse Snail family transcription repressors regulate chondrocyte, extracellular matrix, type II collagen, and aggrecan. <i>Journal of Biological Chemistry</i> , 2003 , 278, 41862-70	5.4	66
68	Celsr1 is required for the generation of polarity at multiple levels of the mouse oviduct. <i>Development (Cambridge)</i> , 2014 , 141, 4558-68	6.6	63
67	Delayed assembly of desmosomes in keratinocytes with disrupted classic-cadherin-mediated cell adhesion by a dominant negative mutant. <i>Journal of Investigative Dermatology</i> , 1995 , 104, 27-32	4.3	59
66	Neuroprotective effects of PDGF against oxidative stress and the signaling pathway involved. <i>Journal of Neuroscience Research</i> , 2010 , 88, 1273-84	4.4	54
65	A Wnt5 Activity Asymmetry and Intercellular Signaling via PCP Proteins Polarize Node Cells for Left-Right Symmetry Breaking. <i>Developmental Cell</i> , 2017 , 40, 439-452.e4	10.2	50
64	Characterization of neuroprogenitor cells expressing the PDGF beta-receptor within the subventricular zone of postnatal mice. <i>Molecular and Cellular Neurosciences</i> , 2008 , 37, 507-18	4.8	46
63	Klotho protein deficiency leads to overactivation of mu-calpain. <i>Journal of Biological Chemistry</i> , 2002 , 277, 35503-8	5.4	46
62	PDGFRβ plays a crucial role in connective tissue remodeling. <i>Scientific Reports</i> , 2015 , 5, 17948	4.9	40

61	Mouse LIM-kinase 2 gene: cDNA cloning, genomic organization, and tissue-specific expression of two alternatively initiated transcripts. <i>Genomics</i> , 1997 , 46, 504-8	4.3	34
60	Powerful Homeostatic Control of Oligodendroglial Lineage by PDGFR α in Adult Brain. <i>Cell Reports</i> , 2019 , 27, 1073-1089.e5	10.6	33
59	A mouse reporter line to conditionally mark nuclei and cell membranes for in vivo live-imaging. <i>Genesis</i> , 2011 , 49, 570-8	1.9	32
58	Dynamics of planar cell polarity protein Vangl2 in the mouse oviduct epithelium. <i>Mechanisms of Development</i> , 2016 , 141, 78-89	1.7	28
57	Analysis of ciliary beat frequency and ovum transport ability in the mouse oviduct. <i>Genes To Cells</i> , 2011 , 16, 282-90	2.3	25
56	Distinct intracellular Ca dynamics regulate apical constriction and differentially contribute to neural tube closure. <i>Development (Cambridge)</i> , 2017 , 144, 1307-1316	6.6	23
55	BMP signaling is required for cell cleavage in preimplantation-mouse embryos. <i>Developmental Biology</i> , 2015 , 397, 45-55	3.1	23
54	Mechanical control of notochord morphogenesis by extra-embryonic tissues in mouse embryos. <i>Mechanisms of Development</i> , 2014 , 132, 44-58	1.7	23
53	Automatic extraction of nuclei centroids of mouse embryonic cells from fluorescence microscopy images. <i>PLoS ONE</i> , 2012 , 7, e35550	3.7	23
52	Mechanical Regulation of Three-Dimensional Epithelial Fold Pattern Formation in the Mouse Oviduct. <i>Biophysical Journal</i> , 2016 , 111, 650-665	2.9	22
51	Dynamic Transport and Cementation of Skeletal Elements Build Up the Pole-and-Beam Structured Skeleton of Sponges. <i>Current Biology</i> , 2015 , 25, 2549-54	6.3	20
50	Early preimplantation cells expressing Cdx2 exhibit plasticity of specification to TE and ICM lineages through positional changes. <i>Developmental Biology</i> , 2016 , 411, 50-60	3.1	20
49	Biophysics in oviduct: Planar cell polarity, cilia, epithelial fold and tube morphogenesis, egg dynamics. <i>Biophysics and Physicobiology</i> , 2019 , 16, 89-107	1.4	17
48	Preimplantation development of mouse: a view from cellular behavior. <i>Development Growth and Differentiation</i> , 2010 , 52, 253-62	3	17
47	Functional analysis of platelet-derived growth factor receptor- β in neural stem/progenitor cells. <i>Neuroscience</i> , 2013 , 238, 195-208	3.9	16
46	Roles of PDGF receptor-beta in the structure and function of postnatal kidney glomerulus. <i>Nephrology Dialysis Transplantation</i> , 2011 , 26, 458-68	4.3	15
45	Morphological organization of the mouse preimplantation embryo. <i>Reproductive Sciences</i> , 2009 , 16, 171-7		15
44	Bre1a, a histone H2B ubiquitin ligase, regulates the cell cycle and differentiation of neural precursor cells. <i>Journal of Neuroscience</i> , 2014 , 34, 3067-78	6.6	14

43	Impaired regulation of gonadotropins leads to the atrophy of the female reproductive system in klotho-deficient mice. <i>Endocrinology</i> , 2006 , 147, 120-9	4.8	12
42	Atypical cadherin negotiates a turn. <i>Developmental Cell</i> , 2013 , 26, 1-2	10.2	11
41	Platelet-derived growth factor (PDGF)-BB inhibits AMPA receptor-mediated synaptic transmission via PDGF receptor-beta in murine nucleus tractus solitarius. <i>Brain Research</i> , 2007 , 1159, 77-85	3.7	11
40	The induction of RANKL molecule clustering could stimulate early osteoblast differentiation. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 509, 435-440	3.4	11
39	Multiple phases in regulation of Nanog expression during pre-implantation development. <i>Development Growth and Differentiation</i> , 2015 , 57, 648-56	3	9
38	The Chiral Looping of the Embryonic Heart Is Formed by the Combination of Three Axial Asymmetries. <i>Biophysical Journal</i> , 2020 , 118, 742-752	2.9	9
37	Apical constriction in distal visceral endoderm cells initiates global, collective cell rearrangement in embryonic visceral endoderm to form anterior visceral endoderm. <i>Developmental Biology</i> , 2017 , 429, 20-30	3.1	8
36	Vascular PDGFR-alpha protects against BBB dysfunction after stroke in mice. <i>Angiogenesis</i> , 2021 , 24, 35-46	10.6	8
35	Map7/7D1 and Dvl form a feedback loop that facilitates microtubule remodeling and Wnt5a signaling. <i>EMBO Reports</i> , 2018 , 19,	6.5	7
34	R26-WntVis reporter mice showing graded response to Wnt signal levels. <i>Genes To Cells</i> , 2016 , 21, 661-92.3		7
33	Distinct dormancy progression depending on embryonic regions during mouse embryonic diapause <i>Biology of Reproduction</i> , 2019 , 100, 1204-1214	3.9	6
32	Reconstitution of the embryonic kidney identifies a donor cell contribution to the renal vasculature upon transplantation. <i>Scientific Reports</i> , 2019 , 9, 1172	4.9	6
31	Different PDGF Receptor Dimers Drive Distinct Migration Modes of the Mouse Skin Fibroblast. <i>Cellular Physiology and Biochemistry</i> , 2018 , 51, 1461-1479	3.9	6
30	ROSA26 reporter mouse lines and image analyses reveal distinct region-specific cell behaviors in the visceral endoderm. <i>Development (Cambridge)</i> , 2018 , 145,	6.6	6
29	A step-down photophobic response in coral larvae: implications for the light-dependent distribution of the common reef coral, <i>Acropora tenuis</i> . <i>Scientific Reports</i> , 2020 , 10, 17680	4.9	5
28	Intercellular and intracellular cilia orientation is coordinated by CELSR1 and CAMSAP3 in oviduct multi-ciliated cells. <i>Journal of Cell Science</i> , 2021 , 134,	5.3	5
27	Biomechanics of epithelial fold pattern formation in the mouse female reproductive tract. <i>Current Opinion in Genetics and Development</i> , 2018 , 51, 59-66	4.9	4
26	Androgen Regulates Dimorphic F-Actin Assemblies in the Genital Organogenesis. <i>Sexual Development</i> , 2017 , 11, 190-202	1.6	4

25	Oligodendrogenesis and Myelin Formation in the Forebrain Require Platelet-derived Growth Factor Receptor-alpha. <i>Neuroscience</i> , 2020 , 436, 11-26	3.9	3
24	Two-photon microscopic observation of cell-production dynamics in the developing mammalian neocortex in utero. <i>Development Growth and Differentiation</i> , 2020 , 62, 118-128	3	2
23	Live imaging of early mouse embryos using fluorescently labeled transgenic mice. <i>Methods in Molecular Biology</i> , 2013 , 1052, 101-8	1.4	2
22	Dynamic organelle localization and cytoskeletal reorganization during preimplantation mouse embryo development revealed by live imaging of genetically encoded fluorescent fusion proteins. <i>Genesis</i> , 2019 , 57, e23277	1.9	2
21	Tracheal motile cilia in mice require CAMSAP3 for the formation of central microtubule pair and coordinated beating. <i>Molecular Biology of the Cell</i> , 2021 , 32, ar12	3.5	2
20	Isotropic expansion of external environment induces tissue elongation and collective cell alignment. <i>Journal of Theoretical Biology</i> , 2020 , 496, 110248	2.3	1
19	Role of Mechanical Force in Fold Pattern Formation in Oviduct. <i>Seibutsu Butsuri</i> , 2017 , 57, 259-261	0	1
18	Adaptive cell nuclei detection from fluorescence images by optimizing object sizes 2012 ,		1
17	Bioimaging in developmental biology. <i>Development Growth and Differentiation</i> , 2013 , 55, 377-377	3	1
16	Stem cell systems in development of mammals. <i>Development Growth and Differentiation</i> , 2010 , 52, 251	3	1
15	Force-dependent remodeling of cytoplasmic ZO-1 condensates contributes to cell-cell adhesion through enhancing tight junctions.. <i>IScience</i> , 2022 , 25, 103846	6.1	1
14	Secreted Klotho protein in sera and CSF: implication for post-translational cleavage in release of Klotho protein from cell membrane 2004 , 565, 143		1
13	Force-dependent remodeling of a tight junction protein ZO-1 is regulated by phase separation		1
12	Seven-Pass Transmembrane Cadherin CELSRs, and Fat4 and Dchs1 Cadherins: From Planar Cell Polarity to Three-Dimensional Organ Architecture 2016 , 251-275		1
11	Scribbles for Metric Learning in Histological Image Segmentation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 1026-1030	0.9	1
10	NeuroGT: A brain atlas of neurogenic tagging CreER drivers for birthdate-based classification and manipulation of mouse neurons.. <i>Cell Reports Methods</i> , 2021 , 1, 100012		1
9	Repetitive short-pulsed illumination efficiently activates photoactivatable-Cre as continuous illumination in embryonic stem cells and pre-implantation embryos of transgenic mouse. <i>Genesis</i> , 2021 , e23457	1.9	0
8	Cover Image, Volume 57, Issue 2. <i>Genesis</i> , 2019 , 57, e23285	1.9	

- 7 2SA1525 Cellular behaviors in early mammalian embryonic development(2SA Biophysics of Multicellular Systems,The 48th Annual Meeting of the Biophysical Society of Japan). *Seibutsu Butsurei*, **2010**, 50, S8 ○
- 6 Mathematical analysis of multi-cell movements induced by field/substrate expansion. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME*, **2018**, 2018.30, 2B01 ○
- 5 Morphogenesis of luminal folds in oviduct. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME*, **2019**, 2019.32, 1F11 ○
- 4 2A2-R01 High-throughput antibody screening device for embryo assay. *The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)*, **2015**, 2015, _2A2-R01_1-_2A2-R01_3 ○
- 3 Inference of cell mechanics by using microscopic live imaging during morphogenesis. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME*, **2017**, 2017.29, 2A43 ○
- 2 5PM3-PMN-029 High-throughput antibody screening device toward embryo assay. *The Proceedings of the Symposium on Micro-Nano Science and Technology*, **2013**, 2013.5, 75-76 ○
- 1 Differential Cellular Stiffness Contributes to Tissue Elongation on an Expanding Surface.. *Frontiers in Cell and Developmental Biology*, **2022**, 10, 864135 5-7