Toshihiko Fujimori

List of Publications by Year in Descending Order

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	Force-dependent remodeling of cytoplasmic ZO-1 condensates contributes to cell-cell adhesion through enhancing tight junctions.. *IScience*, **2022**, 25, 103846	6.1	1
95	Differential Cellular Stiffness Contributes to Tissue Elongation on an Expanding Surface.. *Frontiers in Cell and Developmental Biology*, **2022**, 10, 864135	5.7	
94	Repetitive short-pulsed illumination efficiently activates photoactivatable-Cre as continuous illumination in embryonic stem cells and pre-implantation embryos of transgenic mouse. *Genesis*, **2021**, e23457	1.9	0
93	Vascular PDGFR-alpha protects against BBB dysfunction after stroke in mice. *Angiogenesis*, **2021**, 24, 35-46	10.6	8
92	Intercellular and intracellular cilia orientation is coordinated by CELSR1 and CAMSAP3 in oviduct multi-ciliated cells. *Journal of Cell Science*, **2021**, 134,	5.3	5
91	NeuroGT: A brain atlas of neurogenic tagging CreER drivers for birthdate-based classification and manipulation of mouse neurons.. *Cell Reports Methods*, **2021**, 1, 100012		1
90	Tracheal motile cilia in mice require CAMSAP3 for the formation of central microtubule pair and coordinated beating. *Molecular Biology of the Cell*, **2021**, 32, ar12	3.5	2
89	Two-photon microscopic observation of cell-production dynamics in the developing mammalian neocortex in utero. *Development Growth and Differentiation*, **2020**, 62, 118-128	3	2
88	Isotropic expansion of external environment induces tissue elongation and collective cell alignment. *Journal of Theoretical Biology*, **2020**, 496, 110248	2.3	1
87	The Chiral Looping of the Embryonic Heart Is Formed by the Combination of Three Axial Asymmetries. *Biophysical Journal*, **2020**, 118, 742-752	2.9	9
86	A step-down photophobic response in coral larvae: implications for the light-dependent distribution of the common reef coral, Acropora tenuis. *Scientific Reports*, **2020**, 10, 17680	4.9	5
85	Oligodendrogenesis and Myelin Formation in the Forebrain Require Platelet-derived Growth Factor Receptor-alpha. *Neuroscience*, **2020**, 436, 11-26	3.9	3
84	Distinct dormancy progression depending on embryonic regions during mouse embryonic diapause *Biology of Reproduction*, **2019**, 100, 1204-1214	3.9	6
83	Powerful Homeostatic Control of Oligodendroglial Lineage by PDGFR in Adult Brain. *Cell Reports*, **2019**, 27, 1073-1089.e5	10.6	33
82	Cover Image, Volume 57, Issue 2. *Genesis*, **2019**, 57, e23285	1.9	
81	Biophysics in oviduct: Planar cell polarity, cilia, epithelial fold and tube morphogenesis, egg dynamics. *Biophysics and Physicobiology*, **2019**, 16, 89-107	1.4	17
80	Reconstitution of the embryonic kidney identifies a donor cell contribution to the renal vasculature upon transplantation. *Scientific Reports*, **2019**, 9, 1172	4.9	6

79	Morphogenesis of luminal folds in oviduct. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME*, **2019**, 2019.32, 1F11	0	
78	Scribbles for Metric Learning in Histological Image Segmentation. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 1026-1030	0.9	1
77	Dynamic organelle localization and cytoskeletal reorganization during preimplantation mouse embryo development revealed by live imaging of genetically encoded fluorescent fusion proteins. *Genesis*, **2019**, 57, e23277	1.9	2
76	The induction of RANKL molecule clustering could stimulate early osteoblast differentiation. *Biochemical and Biophysical Research Communications*, **2019**, 509, 435-440	3.4	11
75	Biomechanics of epithelial fold pattern formation in the mouse female reproductive tract. *Current Opinion in Genetics and Development*, **2018**, 51, 59-66	4.9	4
74	Map7/7D1 and Dvl form a feedback loop that facilitates microtubule remodeling and Wnt5a signaling. *EMBO Reports*, **2018**, 19,	6.5	7
73	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	0	
72	Mechanically activated ion channel PIEZO1 is required for lymphatic valve formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 12817-12822	11.5	111
71	Different PDGF Receptor Dimers Drive Distinct Migration Modes of the Mouse Skin Fibroblast. *Cellular Physiology and Biochemistry*, **2018**, 51, 1461-1479	3.9	6
70	ROSA26 reporter mouse lines and image analyses reveal distinct region-specific cell behaviors in the visceral endoderm. *Development (Cambridge)*, **2018**, 145,	6.6	6
69	Distinct intracellular Ca dynamics regulate apical constriction and differentially contribute to neural tube closure. *Development (Cambridge)*, **2017**, 144, 1307-1316	6.6	23
68	A Wnt5 Activity Asymmetry and Intercellular Signaling via PCP Proteins Polarize Node Cells for Left-Right Symmetry Breaking. *Developmental Cell*, **2017**, 40, 439-452.e4	10.2	50
67	Androgen Regulates Dimorphic F-Actin Assemblies in the Genital Organogenesis. *Sexual Development*, **2017**, 11, 190-202	1.6	4
66	Apical constriction in distal visceral endoderm cells initiates global, collective cell rearrangement in embryonic visceral endoderm to form anterior visceral endoderm. *Developmental Biology*, **2017**, 429, 20-30	3.1	8
65	Role of Mechanical Force in Fold Pattern Formation in Oviduct. *Seibutsu Butsuri*, **2017**, 57, 259-261	0	1
64	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	0	
63	Mechanical Regulation of Three-Dimensional Epithelial Fold Pattern Formation in the Mouse Oviduct. *Biophysical Journal*, **2016**, 111, 650-665	2.9	22
62	Early preimplantation cells expressing Cdx2 exhibit plasticity of specification to TE and ICM lineages through positional changes. *Developmental Biology*, **2016**, 411, 50-60	3.1	20

61	Seven-Pass Transmembrane Cadherin CELSRs, and Fat4 and Dchs1 Cadherins: From Planar Cell Polarity to Three-Dimensional Organ Architecture **2016**, 251-275		1
60	Dynamics of planar cell polarity protein Vangl2 in the mouse oviduct epithelium. *Mechanisms of Development*, **2016**, 141, 78-89	1.7	28
59	R26-WntVis reporter mice showing graded response to Wnt signal levels. *Genes To Cells*, **2016**, 21, 661-9	2.3	7
58	Dynamic Transport and Cementation of Skeletal Elements Build Up the Pole-and-Beam Structured Skeleton of Sponges. *Current Biology*, **2015**, 25, 2549-54	6.3	20
57	BMP signaling is required for cell cleavage in preimplantation-mouse embryos. *Developmental Biology*, **2015**, 397, 45-55	3.1	23
56	Multiple phases in regulation of Nanog expression during pre-implantation development. *Development Growth and Differentiation*, **2015**, 57, 648-56	3	9
55	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	0	
54	PDGFR plays a crucial role in connective tissue remodeling. *Scientific Reports*, **2015**, 5, 17948	4.9	40
53	Mechanical control of notochord morphogenesis by extra-embryonic tissues in mouse embryos. *Mechanisms of Development*, **2014**, 132, 44-58	1.7	23
52	Bre1a, a histone H2B ubiquitin ligase, regulates the cell cycle and differentiation of neural precursor cells. *Journal of Neuroscience*, **2014**, 34, 3067-78	6.6	14
51	The lncRNA Neat1 is required for corpus luteum formation and the establishment of pregnancy in a subpopulation of mice. *Development (Cambridge)*, **2014**, 141, 4618-27	6.6	164
50	Celsr1 is required for the generation of polarity at multiple levels of the mouse oviduct. *Development (Cambridge)*, **2014**, 141, 4558-68	6.6	63
49	TAG-1-assisted progenitor elongation streamlines nuclear migration to optimize subapical crowding. *Nature Neuroscience*, **2013**, 16, 1556-66	25.5	69
48	Functional analysis of platelet-derived growth factor receptor- in neural stem/progenitor cells. *Neuroscience*, **2013**, 238, 195-208	3.9	16
47	Atypical cadherin negotiates a turn. *Developmental Cell*, **2013**, 26, 1-2	10.2	11
46	Reporter mouse lines for fluorescence imaging. *Development Growth and Differentiation*, **2013**, 55, 390-405	3.5	87
45	Visualization of cell cycle in mouse embryos with Fucci2 reporter directed by Rosa26 promoter. *Development (Cambridge)*, **2013**, 140, 237-46	6.6	98
44	Live imaging of early mouse embryos using fluorescently labeled transgenic mice. *Methods in Molecular Biology*, **2013**, 1052, 101-8	1.4	2

43	Bioimaging in developmental biology. *Development Growth and Differentiation*, **2013**, 55, 377-377	3	1
42	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	0	
41	Adaptive cell nuclei detection from fluorescence images by optimizing object sizes **2012**,		1
40	Automatic extraction of nuclei centroids of mouse embryonic cells from fluorescence microscopy images. *PLoS ONE*, **2012**, 7, e35550	3.7	23
39	Analysis of ciliary beat frequency and ovum transport ability in the mouse oviduct. *Genes To Cells*, **2011**, 16, 282-90	2.3	25
38	Establishment of conditional reporter mouse lines at ROSA26 locus for live cell imaging. *Genesis*, **2011**, 49, 579-90	1.9	164
37	A mouse reporter line to conditionally mark nuclei and cell membranes for in vivo live-imaging. *Genesis*, **2011**, 49, 570-8	1.9	32
36	Roles of PDGF receptor-beta in the structure and function of postnatal kidney glomerulus. *Nephrology Dialysis Transplantation*, **2011**, 26, 458-68	4.3	15
35	Lack of cadherins Celsr2 and Celsr3 impairs ependymal ciliogenesis, leading to fatal hydrocephalus. *Nature Neuroscience*, **2010**, 13, 700-7	25.5	244
34	Preimplantation development of mouse: a view from cellular behavior. *Development Growth and Differentiation*, **2010**, 52, 253-62	3	17
33	Stem cell systems in development of mammals. *Development Growth and Differentiation*, **2010**, 52, 251	3	1
32	Neuroprotective effects of PDGF against oxidative stress and the signaling pathway involved. *Journal of Neuroscience Research*, **2010**, 88, 1273-84	4.4	54
31	2SA1525 Cellular behaviors in early mammalian embryonic development(2SA Biophysics of Multicellular Systems,The 48th Annual Meeting of the Biophysical Society of Japan). *Seibutsu Butsuri*, **2010**, 50, S8	0	
30	Morphological organization of the mouse preimplantation embryo. *Reproductive Sciences*, **2009**, 16, 171-7	3	15
29	Characterization of neuroprogenitor cells expressing the PDGF beta-receptor within the subventricular zone of postnatal mice. *Molecular and Cellular Neurosciences*, **2008**, 37, 507-18	4.8	46
28	Deficiency of zonula occludens-1 causes embryonic lethal phenotype associated with defected yolk sac angiogenesis and apoptosis of embryonic cells. *Molecular Biology of the Cell*, **2008**, 19, 2465-75	3.5	206
27	PDGF receptor beta is a potent regulator of mesenchymal stromal cell function. *Journal of Bone and Mineral Research*, **2008**, 23, 1519-28	6.3	120
26	Blastocyst axis is specified independently of early cell lineage but aligns with the ZP shape. *Science*, **2007**, 316, 719-23	33.3	162

25	Platelet-derived growth factor (PDGF)-BB inhibits AMPA receptor-mediated synaptic transmission via PDGF receptor-beta in murine nucleus tractus solitarius. *Brain Research*, **2007**, 1159, 77-85	3.7	11
24	Amelioration of progressive renal injury by genetic manipulation of Klotho gene. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 2331-6	11.5	184
23	alpha-Klotho as a regulator of calcium homeostasis. *Science*, **2007**, 316, 1615-8	33.3	330
22	Impaired regulation of gonadotropins leads to the atrophy of the female reproductive system in klotho-deficient mice. *Endocrinology*, **2006**, 147, 120-9	4.8	12
21	Mouse brains deficient in neuronal PDGF receptor-beta develop normally but are vulnerable to injury. *Journal of Neurochemistry*, **2006**, 98, 588-600	6	70
20	Deletion of the PDGFR-beta gene affects key fibroblast functions important for wound healing. *Journal of Biological Chemistry*, **2005**, 280, 9375-89	5.4	77
19	Impaired negative feedback suppression of bile acid synthesis in mice lacking betaKlotho. *Journal of Clinical Investigation*, **2005**, 115, 2202-8	15.9	192
18	Sinoatrial node dysfunction and early unexpected death of mice with a defect of klotho gene expression. *Circulation*, **2004**, 109, 1776-82	16.7	181
17	Klotho is a novel beta-glucuronidase capable of hydrolyzing steroid beta-glucuronides. *Journal of Biological Chemistry*, **2004**, 279, 9777-84	5.4	172
16	Secreted Klotho protein in sera and CSF: implication for post-translational cleavage in release of Klotho protein from cell membrane. *FEBS Letters*, **2004**, 565, 143-7	3.8	425
15	Secreted Klotho protein in sera and CSF: implication for post-translational cleavage in release of Klotho protein from cell membrane **2004**, 565, 143		1
14	Mouse Snail family transcription repressors regulate chondrocyte, extracellular matrix, type II collagen, and aggrecan. *Journal of Biological Chemistry*, **2003**, 278, 41862-70	5.4	66
13	Klotho, a gene related to a syndrome resembling human premature aging, functions in a negative regulatory circuit of vitamin D endocrine system. *Molecular Endocrinology*, **2003**, 17, 2393-403		394
12	Analysis of cell lineage in two- and four-cell mouse embryos. *Development (Cambridge)*, **2003**, 130, 5113-22	6.6	106
11	Identification of a novel mouse membrane-bound family 1 glycosidase-like protein, which carries an atypical active site structure. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **2002**, 1576, 341-5		78
10	Mediation of unusually high concentrations of 1,25-dihydroxyvitamin D in homozygous klotho mutant mice by increased expression of renal 1alpha-hydroxylase gene. *Endocrinology*, **2002**, 143, 683-9	4.8	197
9	FGF18 is required for normal cell proliferation and differentiation during osteogenesis and chondrogenesis. *Genes and Development*, **2002**, 16, 870-9	12.6	357
8	Klotho protein deficiency leads to overactivation of mu-calpain. *Journal of Biological Chemistry*, **2002**, 277, 35503-8	5.4	46

7	Severely reduced production of klotho in human chronic renal failure kidney. *Biochemical and Biophysical Research Communications*, **2001**, 280, 1015-20	3.4	381
6	Establishment of the anti-Klotho monoclonal antibodies and detection of Klotho protein in kidneys. *Biochemical and Biophysical Research Communications*, **2000**, 267, 597-602	3.4	131
5	Molecular cloning and expression analyses of mouse betaklotho, which encodes a novel Klotho family protein. *Mechanisms of Development*, **2000**, 98, 115-9	1.7	243
4	Evidence that absence of Wnt-3a signaling promotes neuralization instead of paraxial mesoderm development in the mouse. *Developmental Biology*, **1997**, 183, 234-42	3.1	238
3	Mouse LIM-kinase 2 gene: cDNA cloning, genomic organization, and tissue-specific expression of two alternatively initiated transcripts. *Genomics*, **1997**, 46, 504-8	4.3	34
2	Delayed assembly of desmosomes in keratinocytes with disrupted classic-cadherin-mediated cell adhesion by a dominant negative mutant. *Journal of Investigative Dermatology*, **1995**, 104, 27-32	4.3	59
1	Force-dependent remodeling of a tight junction protein ZO-1 is regulated by phase separation		1