

Toshihiko Fujimori

List of Publications by Year in descending order

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96
papers

7,654
citations

94269

37
h-index

53109

85
g-index

104
all docs

104
docs citations

104
times ranked

9235
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 143-147.	1.3	473
2	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, 2393-2403.	3.7	453
3	Severely Reduced Production of Klotho in Human Chronic Renal Failure Kidney. <i>Biochemical and Biophysical Research Communications</i> , 2001, 280, 1015-1020.	1.0	426
4	FGF18 is required for normal cell proliferation and differentiation during osteogenesis and chondrogenesis. <i>Genes and Development</i> , 2002, 16, 870-879.	2.7	424
5	Å-Klotho as a Regulator of Calcium Homeostasis. <i>Science</i> , 2007, 316, 1615-1618.	6.0	371
6	Lack of cadherins <i>Celsr2</i> and <i>Celsr3</i> impairs ependymal ciliogenesis, leading to fatal hydrocephalus. <i>Nature Neuroscience</i> , 2010, 13, 700-707.	7.1	304
7	Molecular cloning and expression analyses of mouse $\hat{2}$ klotho, which encodes a novel Klotho family protein. <i>Mechanisms of Development</i> , 2000, 98, 115-119.	1.7	281
8	Evidence That Absence of Wnt-3a Signaling Promotes Neuralization Instead of Paraxial Mesoderm Development in the Mouse. <i>Developmental Biology</i> , 1997, 183, 234-242.	0.9	267
9	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, 2465-2475.	0.9	244
10	The lncRNA <i>Neat1</i> is required for corpus luteum formation and the establishment of pregnancy in a subpopulation of mice. <i>Development (Cambridge)</i> , 2014, 141, 4618-4627.	1.2	229
11	Mediation of Unusually High Concentrations of 1,25-Dihydroxyvitamin D in Homozygous <i>klotho</i> Mutant Mice by Increased Expression of Renal 1α -Hydroxylase Gene. <i>Endocrinology</i> , 2002, 143, 683-689.	1.4	221
12	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, 2331-2336.	3.3	220
13	Impaired negative feedback suppression of bile acid synthesis in mice lacking $\hat{2}$ Klotho. <i>Journal of Clinical Investigation</i> , 2005, 115, 2202-2208.	3.9	217
14	Establishment of conditional reporter mouse lines at ROSA26 locus for live cell imaging. <i>Genesis</i> , 2011, 49, 579-590.	0.8	215
15	Sinoatrial Node Dysfunction and Early Unexpected Death of Mice With a Defect of klotho Gene Expression. <i>Circulation</i> , 2004, 109, 1776-1782.	1.6	201
16	Klotho Is a Novel $\hat{2}$ -Glucuronidase Capable of Hydrolyzing Steroid $\hat{2}$ -Glucuronides. <i>Journal of Biological Chemistry</i> , 2004, 279, 9777-9784.	1.6	201
17	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.	3.3	188
18	Blastocyst Axis Is Specified Independently of Early Cell Lineage But Aligns with the ZP Shape. <i>Science</i> , 2007, 316, 719-723.	6.0	183

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19	Visualization of cell cycle in mouse embryos with Fucci2 reporter directed by <i>Rosa26</i> promoter. <i>Development (Cambridge)</i> , 2013, 140, 237-246.	1.2	144
20	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.	1.0	142
21	PDGF Receptor β Is a Potent Regulator of Mesenchymal Stromal Cell Function. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 1519-1528.	3.1	139
22	Analysis of cell lineage in two- and four-cell mouse embryos. <i>Development (Cambridge)</i> , 2003, 130, 5113-5122.	1.2	115
23	Reporter Mouse Lines for Fluorescence Imaging. <i>Development Growth and Differentiation</i> , 2013, 55, 390-405.	0.6	104
24	Deletion of the PDGFR- β Gene Affects Key Fibroblast Functions Important for Wound Healing. <i>Journal of Biological Chemistry</i> , 2005, 280, 9375-9389.	1.6	98
25	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, 341-345.	2.4	93
26	TAG-1-assisted progenitor elongation streamlines nuclear migration to optimize subapical crowding. <i>Nature Neuroscience</i> , 2013, 16, 1556-1566.	7.1	93
27	Celsr1 is required for the generation of polarity at multiple levels of the mouse oviduct. <i>Development (Cambridge)</i> , 2014, 141, 4558-4568.	1.2	92
28	Mouse Snail Family Transcription Repressors Regulate Chondrocyte, Extracellular Matrix, Type II Collagen, and Aggrecan. <i>Journal of Biological Chemistry</i> , 2003, 278, 41862-41870.	1.6	86
29	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.	3.1	79
30	Mouse brains deficient in neuronal PDGF receptor-beta develop normally but are vulnerable to injury. <i>Journal of Neurochemistry</i> , 2006, 98, 588-600.	2.1	76
31	Neuroprotective effects of PDGF against oxidative stress and the signaling pathway involved. <i>Journal of Neuroscience Research</i> , 2010, 88, 1273-1284.	1.3	76
32	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.	0.3	66
33	PDGFR β plays a crucial role in connective tissue remodeling. <i>Scientific Reports</i> , 2016, 5, 17948.	1.6	61
34	Characterization of neuroprogenitor cells expressing the PDGF β -receptor within the subventricular zone of postnatal mice. <i>Molecular and Cellular Neurosciences</i> , 2008, 37, 507-518.	1.0	55
35	Klotho Protein Deficiency Leads to Overactivation of γ -Calpain. <i>Journal of Biological Chemistry</i> , 2002, 277, 35503-35508.	1.6	54
36	Powerful Homeostatic Control of Oligodendroglial Lineage by PDGFR β in Adult Brain. <i>Cell Reports</i> , 2019, 27, 1073-1089.e5.	2.9	46

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37	Mouse LIM-Kinase 2 Gene: cDNA Cloning, Genomic Organization, and Tissue-Specific Expression of Two Alternatively Initiated Transcripts. <i>Genomics</i> , 1997, 46, 504-508.	1.3	43
38	A mouse reporter line to conditionally mark nuclei and cell membranes for in vivo live imaging. <i>Genesis</i> , 2011, 49, 570-578.	0.8	43
39	Distinct intracellular Ca ²⁺ dynamics regulate apical constriction and differentially contribute to neural tube closure. <i>Development (Cambridge)</i> , 2017, 144, 1307-1316.	1.2	42
40	Dynamics of planar cell polarity protein Vangl2 in the mouse oviduct epithelium. <i>Mechanisms of Development</i> , 2016, 141, 78-89.	1.7	36
41	Biophysics in oviduct: Planar cell polarity, cilia, epithelial fold and tube morphogenesis, egg dynamics. <i>Biophysics and Physicobiology</i> , 2019, 16, 89-107.	0.5	34
42	Analysis of ciliary beat frequency and ovum transport ability in the mouse oviduct. <i>Genes To Cells</i> , 2011, 16, 282-290.	0.5	33
43	Mechanical control of notochord morphogenesis by extra-embryonic tissues in mouse embryos. <i>Mechanisms of Development</i> , 2014, 132, 44-58.	1.7	32
44	Mechanical Regulation of Three-Dimensional Epithelial Fold Pattern Formation in the Mouse Oviduct. <i>Biophysical Journal</i> , 2016, 111, 650-665.	0.2	32
45	BMP signaling is required for cell cleavage in preimplantation-mouse embryos. <i>Developmental Biology</i> , 2015, 397, 45-55.	0.9	30
46	Automatic Extraction of Nuclei Centroids of Mouse Embryonic Cells from Fluorescence Microscopy Images. <i>PLoS ONE</i> , 2012, 7, e35550.	1.1	29
47	Vascular PDGFR-alpha protects against BBB dysfunction after stroke in mice. <i>Angiogenesis</i> , 2021, 24, 35-46.	3.7	26
48	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.	0.9	24
49	Dynamic Transport and Cementation of Skeletal Elements Build Up the Pole-and-Beam Structured Skeleton of Sponges. <i>Current Biology</i> , 2015, 25, 2549-2554.	1.8	23
50	Functional analysis of platelet-derived growth factor receptor- β^2 in neural stem/progenitor cells. <i>Neuroscience</i> , 2013, 238, 195-208.	1.1	21
51	Impaired Regulation of Gonadotropins Leads to the Atrophy of the Female Reproductive System in klothe-Deficient Mice. <i>Endocrinology</i> , 2006, 147, 120-129.	1.4	19
52	Preimplantation development of mouse: A view from cellular behavior. <i>Development Growth and Differentiation</i> , 2010, 52, 253-262.	0.6	18
53	Map7/7D1 and Dvl form a feedback loop that facilitates microtubule remodeling and Wnt5a signaling. <i>EMBO Reports</i> , 2018, 19, .	2.0	18
54	Distinct dormancy progression depending on embryonic regions during mouse embryonic diapause. <i>Biology of Reproduction</i> , 2019, 100, 1204-1214.	1.2	18

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55	The Chiral Looping of the Embryonic Heart Is Formed by the Combination of Three Axial Asymmetries. <i>Biophysical Journal</i> , 2020, 118, 742-752.	0.2	18
56	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.	1.6	18
57	Roles of PDGF receptor-beta in the structure and function of postnatal kidney glomerulus. <i>Nephrology Dialysis Transplantation</i> , 2011, 26, 458-468.	0.4	17
58	Bre1a, a Histone H2B Ubiquitin Ligase, Regulates the Cell Cycle and Differentiation of Neural Precursor Cells. <i>Journal of Neuroscience</i> , 2014, 34, 3067-3078.	1.7	17
59	Morphological Organization of the Mouse Preimplantation Embryo. <i>Reproductive Sciences</i> , 2009, 16, 171-177.	1.1	16
60	The induction of RANKL molecule clustering could stimulate early osteoblast differentiation. <i>Biochemical and Biophysical Research Communications</i> , 2019, 509, 435-440.	1.0	16
61	Multiple phases in regulation of Nanog expression during pre-implantation development. <i>Development Growth and Differentiation</i> , 2015, 57, 648-656.	0.6	14
62	R26-Wnt1 reporter mice showing graded response to Wnt signal levels. <i>Genes To Cells</i> , 2016, 21, 661-669.	0.5	14
63	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.	0.9	14
64	Intercellular and intracellular cilia orientation is coordinated by CELSR1 and CAMSAP3 in oviduct multi-ciliated cells. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	14
65	Atypical Cadherin Negotiates a Turn. <i>Developmental Cell</i> , 2013, 26, 1-2.	3.1	12
66	Force-dependent remodeling of cytoplasmic ZO-1 condensates contributes to cell-cell adhesion through enhancing tight junctions. <i>Science</i> , 2022, 25, 103846.	1.9	12
67	Platelet-derived growth factor (PDGF)-BB inhibits AMPA receptor-mediated synaptic transmission via PDGF receptor- β^2 in murine nucleus tractus solitarius. <i>Brain Research</i> , 2007, 1159, 77-85.	1.1	11
68	Reconstitution of the embryonic kidney identifies a donor cell contribution to the renal vasculature upon transplantation. <i>Scientific Reports</i> , 2019, 9, 1172.	1.6	11
69	Different PDGF Receptor Dimers Drive Distinct Migration Modes of the Mouse Skin Fibroblast. <i>Cellular Physiology and Biochemistry</i> , 2018, 51, 1461-1479.	1.1	9
70	Androgen Regulates Dimorphic F-Actin Assemblies in the Genital Organogenesis. <i>Sexual Development</i> , 2017, 11, 190-202.	1.1	8
71	ROSA26 reporter mouse lines and image analyses reveal the distinct region-specific cell behaviors in the visceral endoderm. <i>Development (Cambridge)</i> , 2018, 145, .	1.2	7
72	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.	0.8	7

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73	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.	0.6	7
74	Oligodendrogenesis and Myelin Formation in the Forebrain Require Platelet-derived Growth Factor Receptor-alpha. <i>Neuroscience</i> , 2020, 436, 11-26.	1.1	7
75	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.	0.9	7
76	Biomechanics of epithelial fold pattern formation in the mouse female reproductive tract. <i>Current Opinion in Genetics and Development</i> , 2018, 51, 59-66.	1.5	6
77	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.	1.4	5
78	Isotropic expansion of external environment induces tissue elongation and collective cell alignment. <i>Journal of Theoretical Biology</i> , 2020, 496, 110248.	0.8	4
79	Seven-Pass Transmembrane Cadherin CELSRs, and Fat4 and Dchs1 Cadherins: From Planar Cell Polarity to Three-Dimensional Organ Architecture. , 2016, , 251-275.		3
80	Scribbles for Metric Learning in Histological Image Segmentation. , 2019, 2019, 1026-1030.		3
81	Differential Cellular Stiffness Contributes to Tissue Elongation on an Expanding Surface. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 864135.	1.8	3
82	Live Imaging of Early Mouse Embryos Using Fluorescently Labeled Transgenic Mice. <i>Methods in Molecular Biology</i> , 2013, 1052, 101-108.	0.4	2
83	Stem cell systems in development of mammals. <i>Development Growth and Differentiation</i> , 2010, 52, 251-251.	0.6	1
84	Adaptive cell nuclei detection from fluorescence images by optimizing object sizes. , 2012, , .		1
85	Bioimaging in developmental biology. <i>Development Growth and Differentiation</i> , 2013, 55, 377-377.	0.6	1
86	Role of Mechanical Force in Fold Pattern Formation in Oviduct. <i>Seibutsu Butsuri</i> , 2017, 57, 259-261.	0.0	1
87	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, 143-147.	1.3	1
88	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, 59, e23457.	0.8	1
89	2SA1525 Cellular behaviors in early mammalian embryonic development(2SA Biophysics of Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 2010, 50, S8.	0.0	0
90	Cover Image, Volume 57, Issue 2. <i>Genesis</i> , 2019, 57, e23285.	0.8	0

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91	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.	0.0	0
92	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.	0.0	0
93	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.	0.0	0
94	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.	0.0	0
95	Morphogenesis of luminal folds in oviduct. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2019, 2019.32, 1F11.	0.0	0
96	Cover Image, Volume 59, Issue 12. Genesis, 2021, 59, .	0.8	0