

Shoen Kume

List of Publications by Year in descending order

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99
papers

5,185
citations

126907

33
h-index

91884

69
g-index

101
all docs

101
docs citations

101
times ranked

6338
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate and Management Contributions to Recent Trends in U.S. Agricultural Yields. <i>Science</i> , 2003, 299, 1032-1032.	12.6	893
2	Dopamine Is a Regulator of Arousal in the Fruit Fly. <i>Journal of Neuroscience</i> , 2005, 25, 7377-7384.	3.6	502
3	Methionine Metabolism Regulates Maintenance and Differentiation of Human Pluripotent Stem Cells. <i>Cell Metabolism</i> , 2014, 19, 780-794.	16.2	421
4	The Wnt/calcium pathway activates NF-AT and promotes ventral cell fate in <i>Xenopus</i> embryos. <i>Nature</i> , 2002, 417, 295-299.	27.8	287
5	Identification of a dopamine pathway that regulates sleep and arousal in <i>Drosophila</i> . <i>Nature Neuroscience</i> , 2012, 15, 1516-1523.	14.8	281
6	The <i>Xenopus</i> IP3 receptor: Structure, function, and localization in oocytes and eggs. <i>Cell</i> , 1993, 73, 555-570.	28.9	220
7	Activation of the G Protein Gq/11 Through Tyrosine Phosphorylation of the β Subunit. <i>Science</i> , 1997, 276, 1878-1881.	12.6	137
8	Role of Inositol 1,4,5-Trisphosphate Receptor in Ventral Signaling in <i>Xenopus</i> Embryos. <i>Science</i> , 1997, 278, 1940-1943.	12.6	117
9	Differentiation of mouse and human embryonic stem cells into hepatic lineages. <i>Genes To Cells</i> , 2008, 13, 731-746.	1.2	103
10	Autophagic Cell Death of Pancreatic Acinar Cells in Serine Protease Inhibitor Kazal Type 3 Deficient Mice. <i>Gastroenterology</i> , 2005, 129, 696-705.	1.3	96
11	Guided Differentiation of Embryonic Stem Cells into Pdx1-Expressing Regional-Specific Definitive Endoderm. <i>Stem Cells</i> , 2008, 26, 874-885.	3.2	96
12	Wnt and Notch Signals Guide Embryonic Stem Cell Differentiation into the Intestinal Lineages. <i>Stem Cells</i> , 2013, 31, 1086-1096.	3.2	86
13	Enhanced expression of PDX-1 and Ngn3 by exendin-4 during β cell regeneration in STZ-treated mice. <i>Biochemical and Biophysical Research Communications</i> , 2005, 327, 1170-1178.	2.1	84
14	Calcium waves along the cleavage furrows in cleavage-stage <i>Xenopus</i> embryos and its inhibition by heparin. <i>Journal of Cell Biology</i> , 1996, 135, 181-190.	5.2	76
15	Developmental Expression of the Inositol 1,4,5-Trisphosphate Receptor and Structural Changes in the Endoplasmic Reticulum during Oogenesis and Meiotic Maturation of <i>Xenopus laevis</i> . <i>Developmental Biology</i> , 1997, 182, 228-239.	2.0	67
16	Tissue-specific demethylation in CpG-poor promoters during cellular differentiation. <i>Human Molecular Genetics</i> , 2011, 20, 2710-2721.	2.9	66
17	Synthesized basement membranes direct the differentiation of mouse embryonic stem cells into pancreatic lineages. <i>Journal of Cell Science</i> , 2010, 123, 2733-2742.	2.0	64
18	VMAT2 identified as a regulator of late-stage β -cell differentiation. <i>Nature Chemical Biology</i> , 2014, 10, 141-148.	8.0	63

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19	Generation of insulin-producing β -like cells from human iPS cells in a defined and completely xeno-free culture system. <i>Journal of Molecular Cell Biology</i> , 2014, 6, 394-408.	3.3	62
20	The NMDA Receptor Promotes Sleep in the Fruit Fly, <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2015, 10, e0128101.	2.5	59
21	Probability that the commitment of murine erythroleukemia cell differentiation is determined by the c-myc level. <i>Journal of Molecular Biology</i> , 1988, 202, 779-786.	4.2	57
22	Dopamine Modulates Metabolic Rate and Temperature Sensitivity in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2012, 7, e31513.	2.5	49
23	Efficient Differentiation of Embryonic Stem Cells into Hepatic Cells In Vitro Using a Feeder-Free Basement Membrane Substratum. <i>PLoS ONE</i> , 2011, 6, e24228.	2.5	48
24	Sexually dimorphic expression of <i>Mafb</i> regulates masculinization of the embryonic urethral formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16407-16412.	7.1	47
25	Pan-Neuronal Knockdown of Calcineurin Reduces Sleep in the Fruit Fly, <i>Drosophila melanogaster</i> . <i>Journal of Neuroscience</i> , 2011, 31, 13137-13146.	3.6	44
26	DNA Methylation Profiling of Embryonic Stem Cell Differentiation into the Three Germ Layers. <i>PLoS ONE</i> , 2011, 6, e26052.	2.5	41
27	Expression patterns of epiplakin1 in pancreas, pancreatic cancer and regenerating pancreas. <i>Genes To Cells</i> , 2008, 13, 667-678.	1.2	39
28	Inhibition of Cdk5 Promotes β -Cell Differentiation From Ductal Progenitors. <i>Diabetes</i> , 2018, 67, 58-70.	0.6	39
29	Endoderm and mesoderm reciprocal signaling mediated by CXCL12 and CXCR4 regulates the migration of angioblasts and establishes the pancreatic fate. <i>Development (Cambridge)</i> , 2011, 138, 1947-1955.	2.5	38
30	A cost-effective system for differentiation of intestinal epithelium from human induced pluripotent stem cells. <i>Scientific Reports</i> , 2015, 5, 17297.	3.3	37
31	High Oxygen Condition Facilitates the Differentiation of Mouse and Human Pluripotent Stem Cells into Pancreatic Progenitors and Insulin-producing Cells. <i>Journal of Biological Chemistry</i> , 2014, 289, 9623-9638.	3.4	36
32	The Role of CXCL12-CXCR4 Signaling Pathway in Pancreatic Development. <i>Theranostics</i> , 2013, 3, 11-17.	10.0	35
33	Dopamine Modulates the Rest Period Length without Perturbation of Its Power Law Distribution in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2012, 7, e32007.	2.5	35
34	Gq Pathway Desensitizes Chemotactic Receptor-induced Calcium Signaling via Inositol Trisphosphate Receptor Down-regulation. <i>Journal of Biological Chemistry</i> , 1995, 270, 4840-4844.	3.4	33
35	Developmental expression of the inositol 1,4,5-trisphosphate receptor and localization of inositol 1,4,5-trisphosphate during early embryogenesis in <i>Xenopus laevis</i> . <i>Mechanisms of Development</i> , 1997, 66, 157-168.	1.7	32
36	Differentiation and characterization of embryonic stem cells into three germ layers. <i>Biochemical and Biophysical Research Communications</i> , 2009, 381, 694-699.	2.1	31

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37	High calorie diet augments age-associated sleep impairment in Drosophila. <i>Biochemical and Biophysical Research Communications</i> , 2012, 417, 812-816.	2.1	31
38	A synthetic nanofibrillar matrix promotes in vitro hepatic differentiation of embryonic stem cells and induced pluripotent stem cells. <i>Journal of Cell Science</i> , 2013, 126, 5391-9.	2.0	31
39	Pan-neuronal knockdown of the c-Jun N-terminal Kinase (JNK) results in a reduction in sleep and longevity in Drosophila. <i>Biochemical and Biophysical Research Communications</i> , 2012, 417, 807-811.	2.1	30
40	TGF- β 2 signaling potentiates differentiation of embryonic stem cells to Pdx-1 expressing endodermal cells. <i>Genes To Cells</i> , 2005, 10, 503-516.	1.2	28
41	Stem-cell-based approaches for regenerative medicine. <i>Development Growth and Differentiation</i> , 2005, 47, 393-402.	1.5	27
42	Albumin gene targeting in human embryonic stem cells and induced pluripotent stem cells with helper-dependent adenoviral vector to monitor hepatic differentiation. <i>Stem Cell Research</i> , 2013, 10, 179-194.	0.7	25
43	Generation of Functional Insulin-Producing Cells From Mouse Embryonic Stem Cells Through 804G Cell-Derived Extracellular Matrix and Protein Transduction of Transcription Factors. <i>Stem Cells Translational Medicine</i> , 2014, 3, 114-127.	3.3	24
44	Dopamine D2 Receptor-Mediated Regulation of Pancreatic β Cell Mass. <i>Stem Cell Reports</i> , 2016, 7, 95-109.	4.8	24
45	Structure and Function of Inositol 1,4,5-Trisphosphate Receptor. <i>Annals of the New York Academy of Sciences</i> , 1993, 707, 178-197.	3.8	22
46	Fate maps of ventral and dorsal pancreatic progenitor cells in early somite stage mouse embryos. <i>Mechanisms of Development</i> , 2012, 128, 597-609.	1.7	22
47	The molecular basis and prospects in pancreatic development. <i>Development Growth and Differentiation</i> , 2005, 47, 367-374.	1.5	21
48	Embryonic and adult stem cell systems in mammals: Ontology and regulation. <i>Development Growth and Differentiation</i> , 2010, 52, 115-129.	1.5	21
49	G α s Family G Proteins Activate IP3 \rightarrow Ca ²⁺ Signaling via G β γ and Transduce Ventralizing Signals in Xenopus. <i>Developmental Biology</i> , 2000, 226, 88-103.	2.0	20
50	Hyaline cartilage formation and enchondral ossification modeled with KUM5 and OP9 chondroblasts. <i>Journal of Cellular Biochemistry</i> , 2007, 100, 1240-1254.	2.6	20
51	Recovery from diabetes in neonatal mice after a low-dose streptozotocin treatment. <i>Biochemical and Biophysical Research Communications</i> , 2013, 430, 1103-1108.	2.1	20
52	Sweetness induces sleep through gustatory signalling independent of nutritional value in a starved fruit fly. <i>Scientific Reports</i> , 2017, 7, 14355.	3.3	19
53	Origin of pancreatic precursors in the chick embryo and the mechanism of endoderm regionalization. <i>Mechanisms of Development</i> , 2009, 126, 539-551.	1.7	18
54	Conserved origin of the ventral pancreas in chicken. <i>Mechanisms of Development</i> , 2009, 126, 817-827.	1.7	18

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55	An expression profile analysis of ES cell-derived definitive endodermal cells and Pdx1-expressing cells. <i>BMC Developmental Biology</i> , 2011, 11, 13.	2.1	18
56	Collagen vitrigel promotes hepatocytic differentiation of induced pluripotent stem cells into functional hepatocyte-like cells. <i>Biology Open</i> , 2019, 8, .	1.2	18
57	Generation of Human-Induced Pluripotent Stem Cell-Derived Functional Enterocyte-Like Cells for Pharmacokinetic Studies. <i>Stem Cell Reports</i> , 2021, 16, 295-308.	4.8	18
58	Coculture with hiPS-derived intestinal cells enhanced human hepatocyte functions in a pneumatic-pressure-driven two-organ microphysiological system. <i>Scientific Reports</i> , 2021, 11, 5437.	3.3	18
59	Molecular cloning and expression profile of <i>Xenopus calcineurin A subunit11</i> The nucleotide sequence of XCnA has been deposited in DDBJ/DMBL/GenBank DNA database under the accession number AB037146.. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2000, 1499, 164-170.	4.1	17
60	Profiling of Embryonic Stem Cell Differentiation. <i>Review of Diabetic Studies</i> , 2014, 11, 102-114.	1.3	17
61	Analysis of gene expressions of embryonic stemâ€derived Pdx1â€expressing cells: Implications of genes involved in pancreas differentiation. <i>Development Growth and Differentiation</i> , 2009, 51, 463-472.	1.5	15
62	Potential of insulin secretion and improvement of glucose intolerance by combining a novel G protein-coupled receptor 40 agonist DS-1558 with glucagon-like peptide-1 receptor agonists. <i>European Journal of Pharmacology</i> , 2014, 737, 194-201.	3.5	14
63	Identification of DAF1/CD55, a Novel Definitive Endoderm Marker. <i>Cell Structure and Function</i> , 2010, 35, 73-80.	1.1	14
64	Beneficial Effect of Insulin Treatment on Islet Transplantation Outcomes in Akita Mice. <i>PLoS ONE</i> , 2014, 9, e95451.	2.5	14
65	In vitro models of pancreatic differentiation using embryonic stem or induced pluripotent stem cells. <i>Congenital Anomalies (discontinued)</i> , 2011, 51, 21-25.	0.6	13
66	Induced Pluripotent Stem Cell Elimination in a Cell Sheet by Methionine-Free and 42Â°C Condition for Tumor Prevention. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 605-615.	2.1	13
67	Role of the inositol 1,4,5-trisphosphate receptor in early embryonic development. <i>Cellular and Molecular Life Sciences</i> , 1999, 56, 296-304.	5.4	12
68	Epiplakin1 is expressed in the cholangiocyte lineage cells in normal liver and adult progenitor cells in injured liver. <i>Gene Expression Patterns</i> , 2011, 11, 255-262.	0.8	12
69	Desensitization of IP3-induced Ca ²⁺ release by overexpression of a constitutively active Gqalpha protein converts ventral to dorsal fate in <i>Xenopus</i> early embryos. <i>Development Growth and Differentiation</i> , 2000, 42, 327-335.	1.5	11
70	Secreted Cerberus1 as a Marker for Quantification of Definitive Endoderm Differentiation of the Pluripotent Stem Cells. <i>PLoS ONE</i> , 2013, 8, e64291.	2.5	11
71	Generation of familial amyloidotic polyneuropathy-specific induced pluripotent stem cells. <i>Stem Cell Research</i> , 2014, 12, 574-583.	0.7	11
72	VMAT2 Safeguards Î²-Cells Against Dopamine Cytotoxicity Under High-Fat Dietâ€Induced Stress. <i>Diabetes</i> , 2020, 69, 2377-2391.	0.6	11

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73	Temporal organization of rest defined by actigraphy data in healthy and childhood chronic fatigue syndrome children. <i>BMC Psychiatry</i> , 2013, 13, 281.	2.6	9
74	Mild electrical stimulation with heat shock guides differentiation of embryonic stem cells into Pdx1-expressing cells within the definitive endoderm. <i>BMC Biotechnology</i> , 2017, 17, 14.	3.3	9
75	Recent progress in pancreatic islet cell therapy. <i>Inflammation and Regeneration</i> , 2021, 41, 1.	3.7	9
76	Calcium/calmodulin-dependent protein kinase I in <i>Xenopus laevis</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2003, 134, 499-507.	1.6	8
77	A balance between self-renewal and commitment in the murine erythroleukemia cells with the transferred c-myc gene; an in vitro stochastic model. <i>Cell Differentiation and Development</i> , 1989, 28, 129-133.	0.4	6
78	Erythropoietin facilitates definitive endodermal differentiation of mouse embryonic stem cells via activation of ERK signaling. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 312, C573-C582.	4.6	6
79	Insulin2Q104del (Kuma) mutant mice develop diabetes with dominant inheritance. <i>Scientific Reports</i> , 2020, 10, 12187.	3.3	4
80	Expression of Epiplakin1 in the developing and adult mouse retina. <i>Japanese Journal of Ophthalmology</i> , 2010, 54, 85-88.	1.9	3
81	Influence of 60 ns pulsed electric fields on embryonic stem cells. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2011, 18, 1119-1123.	2.9	3
82	Neural cells play an inhibitory role in pancreatic differentiation of pluripotent stem cells. <i>Genes To Cells</i> , 2015, 20, 1028-1045.	1.2	3
83	Temporal effects of Notch signaling and potential cooperation with multiple downstream effectors on adenohipophysis cell specification in zebrafish. <i>Genes To Cells</i> , 2016, 21, 492-504.	1.2	3
84	Late stage definitive endodermal differentiation can be defined by Daf1 expression. <i>BMC Developmental Biology</i> , 2016, 16, 19.	2.1	3
85	Different murine-derived feeder cells alter the definitive endoderm differentiation of human induced pluripotent stem cells. <i>PLoS ONE</i> , 2018, 13, e0201239.	2.5	3
86	A culture substratum with net-like polyamide fibers promotes the differentiation of mouse and human pluripotent stem cells to insulin-producing cells. <i>Biomedical Materials (Bristol)</i> , 2019, 14, 045019.	3.3	3
87	Hepatic Differentiation from Murine and Human iPS Cells Using Nanofiber Scaffolds. <i>Methods in Molecular Biology</i> , 2014, 1357, 475-483.	0.9	2
88	Hepatic Differentiation from Human Ips Cells Using M15 Cells. <i>Methods in Molecular Biology</i> , 2014, 1357, 375-381.	0.9	2
89	Definitive Endoderm Differentiation of Human Embryonic Stem Cells Combined with Selective Elimination of Undifferentiated Cells by Methionine Deprivation. <i>Methods in Molecular Biology</i> , 2015, 1307, 205-212.	0.9	2
90	Changes in expression of C2cd4c in pancreatic endocrine cells during pancreatic development. <i>FEBS Letters</i> , 2016, 590, 2584-2593.	2.8	2

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91	Future Perspectives for the Treatment of Diabetes: Importance of a Regulatory Framework. <i>Therapeutic Innovation and Regulatory Science</i> , 2019, 53, 535-541.	1.6	2
92	Dietary sodium chloride attenuates increased β -cell mass to cause glucose intolerance in mice under a high-fat diet. <i>PLoS ONE</i> , 2021, 16, e0248065.	2.5	2
93	Definitive Endoderm Differentiation of Human Embryonic Stem Cells Combined with Selective Elimination of Undifferentiated Cells by Methionine Deprivation. <i>Methods in Molecular Biology</i> , 2015, 1341, 173-180.	0.9	1
94	Pancreatic Differentiation from Murine Embryonic Stem Cells. <i>Methods in Molecular Biology</i> , 2015, 1341, 417-423.	0.9	1
95	Dopaminergic sleep regulation in <i>Drosophila melanogaster</i> . <i>Neuroscience Research</i> , 2011, 71, e172.	1.9	0
96	Xenopus Embryos and ES Cells as Tools for Studies of Developmental Biology. <i>Neurochemical Research</i> , 2011, 36, 1280-1285.	3.3	0
97	Heterogeneity of β cells. <i>Journal of Diabetes Investigation</i> , 2017, 8, 656-657.	2.4	0
98	Detailed analysis at a single cell level of cells undergoing pancreatic differentiation. <i>Journal of Diabetes Investigation</i> , 2020, 11, 20-21.	2.4	0
99	Guiding ES cell differentiation into the definitive endoderm lineages. <i>Inflammation and Regeneration</i> , 2010, 30, 109-114.	3.7	0