

Takuya Yamamoto

List of Publications by Citations

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107
papers

5,809
citations

41
h-index

75
g-index

120
ext. papers

7,286
ext. citations

12.4
avg, IF

5.38
L-index

#	Paper	IF	Citations
107	Drug screening for ALS using patient-specific induced pluripotent stem cells. <i>Science Translational Medicine</i> , 2012 , 4, 145ra104	17.5	390
106	Premature termination of reprogramming in vivo leads to cancer development through altered epigenetic regulation. <i>Cell</i> , 2014 , 156, 663-77	56.2	286
105	Robust In Vitro Induction of Human Germ Cell Fate from Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2015 , 17, 178-94	18	276
104	A developmental coordinate of pluripotency among mice, monkeys and humans. <i>Nature</i> , 2016 , 537, 57-63	30.4	271
103	Sef is a spatial regulator for Ras/MAP kinase signaling. <i>Developmental Cell</i> , 2004 , 7, 33-44	10.2	244
102	A small molecule that promotes cardiac differentiation of human pluripotent stem cells under defined, cytokine- and xeno-free conditions. <i>Cell Reports</i> , 2012 , 2, 1448-60	10.6	203
101	Ripples from neighbouring transcription. <i>Nature Cell Biology</i> , 2008 , 10, 1106-13	23.4	203
100	Signalling through RHEB-1 mediates intermittent fasting-induced longevity in <i>C. elegans</i> . <i>Nature</i> , 2009 , 457, 726-30	50.4	194
99	ERK MAP kinase in G cell cycle progression and cancer. <i>Cancer Science</i> , 2006 , 97, 697-702	6.9	182
98	Continuous ERK activation downregulates antiproliferative genes throughout G1 phase to allow cell-cycle progression. <i>Current Biology</i> , 2006 , 16, 1171-82	6.3	181
97	The Germ Cell Fate of Cynomolgus Monkeys Is Specified in the Nascent Amnion. <i>Developmental Cell</i> , 2016 , 39, 169-185	10.2	156
96	Efficient and reproducible myogenic differentiation from human iPS cells: prospects for modeling Miyoshi Myopathy in vitro. <i>PLoS ONE</i> , 2013 , 8, e61540	3.7	150
95	Turbulence Activates Platelet Biogenesis to Enable Clinical Scale Ex Vivo Production. <i>Cell</i> , 2018 , 174, 636-648.e18	56.2	140
94	The Src/c-Abl pathway is a potential therapeutic target in amyotrophic lateral sclerosis. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	134
93	Noninvasive method for assessing the human circadian clock using hair follicle cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 15643-8	11.5	131
92	A Novel MAPK phosphatase MKP-7 acts preferentially on JNK/SAPK and p38 alpha and beta MAPKs. <i>Journal of Biological Chemistry</i> , 2001 , 276, 26629-39	5.4	130
91	Quantitative Dynamics of Chromatin Remodeling during Germ Cell Specification from Mouse Embryonic Stem Cells. <i>Cell Stem Cell</i> , 2015 , 16, 517-32	18	127

90	Generation of human oogonia from induced pluripotent stem cells in vitro. <i>Science</i> , 2018 , 362, 356-360	33.3	120
89	Derivation of ground-state female ES cells maintaining gamete-derived DNA methylation. <i>Nature</i> , 2017 , 548, 224-227	50.4	110
88	Derivation of mesenchymal stromal cells from pluripotent stem cells through a neural crest lineage using small molecule compounds with defined media. <i>PLoS ONE</i> , 2014 , 9, e112291	3.7	108
87	Regulatory mechanisms and function of ERK MAP kinases. <i>Journal of Biochemistry</i> , 2004 , 136, 557-61	3.1	100
86	In Vitro Derivation and Propagation of Spermatogonial Stem Cell Activity from Mouse Pluripotent Stem Cells. <i>Cell Reports</i> , 2016 , 17, 2789-2804	10.6	91
85	Evolutionarily Distinctive Transcriptional and Signaling Programs Drive Human Germ Cell Lineage Specification from Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2017 , 21, 517-532.e5	18	88
84	SC3-seq: a method for highly parallel and quantitative measurement of single-cell gene expression. <i>Nucleic Acids Research</i> , 2015 , 43, e60	20.1	79
83	ERK5 regulates muscle cell fusion through Klf transcription factors. <i>Developmental Cell</i> , 2011 , 20, 192-205.e2	5.2	75
82	A fasting-responsive signaling pathway that extends life span in <i>C. elegans</i> . <i>Cell Reports</i> , 2013 , 3, 79-91	10.6	67
81	Bone morphogenetic protein and retinoic acid synergistically specify female germ-cell fate in mice. <i>EMBO Journal</i> , 2017 , 36, 3100-3119	13	67
80	miR-195/497 induce postnatal quiescence of skeletal muscle stem cells. <i>Nature Communications</i> , 2014 , 5, 4597	17.4	63
79	expansion of mouse primordial germ cell-like cells recapitulates an epigenetic blank slate. <i>EMBO Journal</i> , 2017 , 36, 1888-1907	13	62
78	Recapitulating the human segmentation clock with pluripotent stem cells. <i>Nature</i> , 2020 , 580, 124-129	50.4	62
77	Modular structure of a docking surface on MAPK phosphatases. <i>Journal of Biological Chemistry</i> , 2002 , 277, 22942-9	5.4	59
76	ABL1 regulates spindle orientation in adherent cells and mammalian skin. <i>Nature Communications</i> , 2012 , 3, 626	17.4	55
75	Dose-dependent roles for canonical Wnt signalling in de novo crypt formation and cell cycle properties of the colonic epithelium. <i>Development (Cambridge)</i> , 2013 , 140, 66-75	6.6	54
74	Hybrid Cellular Metabolism Coordinated by Zic3 and Esrrb Synergistically Enhances Induction of Naive Pluripotency. <i>Cell Metabolism</i> , 2017 , 25, 1103-1117.e6	24.6	51
73	Revolving movement of a dynamic cluster of actin filaments during mitosis. <i>Journal of Cell Biology</i> , 2010 , 191, 453-62	7.3	51

72	Requirement of the MAP kinase signaling pathways for mouse preimplantation development. <i>Development (Cambridge)</i> , 2005 , 132, 1773-83	6.6	51
71	Global splicing pattern reversion during somatic cell reprogramming. <i>Cell Reports</i> , 2013 , 5, 357-66	10.6	46
70	Induced pluripotent stem cells from CINCA syndrome patients as a model for dissecting somatic mosaicism and drug discovery. <i>Blood</i> , 2012 , 120, 1299-308	2.2	45
69	Genetically matched human iPS cells reveal that propensity for cartilage and bone differentiation differs with clones, not cell type of origin. <i>PLoS ONE</i> , 2013 , 8, e53771	3.7	45
68	Capturing human trophoblast development with naive pluripotent stem cells in vitro. <i>Cell Stem Cell</i> , 2021 , 28, 1023-1039.e13	18	45
67	Nat1 promotes translation of specific proteins that induce differentiation of mouse embryonic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 340-345	11.5	43
66	Shifting transcriptional machinery is required for long-term memory maintenance and modification in <i>Drosophila</i> mushroom bodies. <i>Nature Communications</i> , 2016 , 7, 13471	17.4	40
65	New Protocol to Optimize iPS Cells for Genome Analysis of Fibrodysplasia Ossificans Progressiva. <i>Stem Cells</i> , 2015 , 33, 1730-42	5.8	39
64	Generation of human bronchial organoids for SARS-CoV-2 research		34
63	Clonal variation of human induced pluripotent stem cells for induction into the germ cell fate. <i>Biology of Reproduction</i> , 2017 , 96, 1154-1166	3.9	31
62	Transcription factors interfering with dedifferentiation induce cell type-specific transcriptional profiles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6412-7	11.5	31
61	In vivo reprogramming drives Kras-induced cancer development. <i>Nature Communications</i> , 2018 , 9, 2081	17.4	31
60	ZGLP1 is a determinant for the oogenic fate in mice. <i>Science</i> , 2020 , 367,	33.3	30
59	KLF4 N-terminal variance modulates induced reprogramming to pluripotency. <i>Stem Cell Reports</i> , 2015 , 4, 727-43	8	27
58	Requirement for ERK MAP kinase in mouse preimplantation development. <i>Development (Cambridge)</i> , 2007 , 134, 2751-9	6.6	27
57	Identification of MMP1 as a novel risk factor for intracranial aneurysms in ADPKD using iPSC models. <i>Scientific Reports</i> , 2016 , 6, 30013	4.9	26
56	Aging of spermatogonial stem cells by Jnk-mediated glycolysis activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 16404-16409	11.5	23
55	Identification of distinct loci for de novo DNA methylation by DNMT3A and DNMT3B during mammalian development. <i>Nature Communications</i> , 2020 , 11, 3199	17.4	19

54	Antisense Oligonucleotides Reduce RNA Foci in Spinocerebellar Ataxia 36 Patient iPSCs. <i>Molecular Therapy - Nucleic Acids</i> , 2017 , 8, 211-219	10.7	19
53	Srf destabilizes cellular identity by suppressing cell-type-specific gene expression programs. <i>Nature Communications</i> , 2018 , 9, 1387	17.4	18
52	Regulation of subcellular localization of the antiproliferative protein Tob by its nuclear export signal and bipartite nuclear localization signal sequences. <i>Experimental Cell Research</i> , 2004 , 295, 59-65	4.2	17
51	A β -tubulin-based megakaryocyte maturation reporter system identifies novel drugs that promote platelet production. <i>Blood Advances</i> , 2018 , 2, 2262-2272	7.8	17
50	Long-term expansion with germline potential of human primordial germ cell-like cells in vitro. <i>EMBO Journal</i> , 2020 , 39, e104929	13	15
49	The Sexual Dimorphism of Dietary Restriction Responsiveness in <i>Caenorhabditis elegans</i> . <i>Cell Reports</i> , 2017 , 21, 3646-3652	10.6	15
48	The kinase SGK1 in the endoderm and mesoderm promotes ectodermal survival by down-regulating components of the death-inducing signaling complex. <i>Science Signaling</i> , 2011 , 4, ra2	8.8	15
47	Induction of the germ cell fate from pluripotent stem cells in cynomolgus monkeys. <i>Biology of Reproduction</i> , 2020 , 102, 620-638	3.9	15
46	Human Pluripotent Stem Cell-Derived Tumor Model Uncovers the Embryonic Stem Cell Signature as a Key Driver in Atypical Teratoid/Rhabdoid Tumor. <i>Cell Reports</i> , 2019 , 26, 2608-2621.e6	10.6	14
45	Core Transcription Factors Promote Induction of PAX3-Positive Skeletal Muscle Stem Cells. <i>Stem Cell Reports</i> , 2019 , 13, 352-365	8	14
44	Discrimination of Stem Cell Status after Subjecting Cynomolgus Monkey Pluripotent Stem Cells to Naïve Conversion. <i>Scientific Reports</i> , 2017 , 7, 45285	4.9	13
43	ROS amplification drives mouse spermatogonial stem cell self-renewal. <i>Life Science Alliance</i> , 2019 , 2,	5.8	13
42	Cellular context-dependent consequences of Apc mutations on gene regulation and cellular behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 758-763	11.5	12
41	An EWS-FLI1-Induced Osteosarcoma Model Unveiled a Crucial Role of Impaired Osteogenic Differentiation on Osteosarcoma Development. <i>Stem Cell Reports</i> , 2016 , 6, 592-606	8	12
40	In vitro reconstitution of the whole male germ-cell development from mouse pluripotent stem cells. <i>Cell Stem Cell</i> , 2021 , 28, 2167-2179.e9	18	12
39	Proteasome impairment in neural cells derived from HMSN-P patient iPSCs. <i>Molecular Brain</i> , 2017 , 10, 7	4.5	11
38	Principles for the regulation of multiple developmental pathways by a versatile transcriptional factor, BLIMP1. <i>Nucleic Acids Research</i> , 2017 , 45, 12152-12169	20.1	11
37	Persistent Requirement and Alteration of the Key Targets of PRDM1 During Primordial Germ Cell Development in Mice. <i>Biology of Reproduction</i> , 2016 , 94, 7	3.9	10

36	Unveiling epigenetic regulation in cancer, aging, and rejuvenation with in vivo reprogramming technology. <i>Cancer Science</i> , 2018 , 109, 2641-2650	6.9	10
35	Induction of Pluripotency in Astrocytes through a Neural Stem Cell-like State. <i>Journal of Biological Chemistry</i> , 2015 , 290, 31173-88	5.4	10
34	De Novo DNA Methylation at Imprinted Loci during Reprogramming into Naive and Primed Pluripotency. <i>Stem Cell Reports</i> , 2019 , 12, 1113-1128	8	9
33	Secreted Ephrin Receptor A7 Promotes Somatic Cell Reprogramming by Inducing ERK Activity Reduction. <i>Stem Cell Reports</i> , 2015 , 5, 480-9	8	9
32	Fetal skeletal muscle progenitors have regenerative capacity after intramuscular engraftment in dystrophin deficient mice. <i>PLoS ONE</i> , 2013 , 8, e63016	3.7	9
31	Cell-type dependent enhancer binding of the EWS/ATF1 fusion gene in clear cell sarcomas. <i>Nature Communications</i> , 2019 , 10, 3999	17.4	8
30	Cyclosporin A and FGF signaling support the proliferation/survival of mouse primordial germ cell-like cells in vitro. <i>Biology of Reproduction</i> , 2021 , 104, 344-360	3.9	8
29	Analysis of neural crest cells from Charcot-Marie-Tooth disease patients demonstrates disease-relevant molecular signature. <i>NeuroReport</i> , 2017 , 28, 814-821	1.7	7
28	OVOL1 Influences the Determination and Expansion of iPSC Reprogramming Intermediates. <i>Stem Cell Reports</i> , 2019 , 12, 319-332	8	7
27	An interplay of NOX1-derived ROS and oxygen determines the spermatogonial stem cell self-renewal efficiency under hypoxia. <i>Genes and Development</i> , 2021 , 35, 250-260	12.6	7
26	Activin A in combination with ERK1/2 MAPK pathway inhibition sustains propagation of mouse embryonic stem cells. <i>Genes To Cells</i> , 2017 , 22, 189-202	2.3	6
25	Antagonistic Interactions between Extracellular Signal-Regulated Kinase Mitogen-Activated Protein Kinase and Retinoic Acid Receptor Signaling in Colorectal Cancer Cells. <i>Molecular and Cellular Biology</i> , 2017 , 37,	4.8	6
24	Structural and spatial chromatin features at developmental gene loci in human pluripotent stem cells. <i>Nature Communications</i> , 2017 , 8, 1616	17.4	6
23	The X chromosome dosage compensation program during the development of cynomolgus monkeys. <i>Science</i> , 2021 , 374, eabd8887	33.3	6
22	GATA transcription factors, SOX17 and TFAP2C, drive the human germ-cell specification program. <i>Life Science Alliance</i> , 2021 , 4,	5.8	6
21	Exocrine tissue-driven TFF2 prevents apoptotic cell death of endocrine lineage during pancreas organogenesis. <i>Scientific Reports</i> , 2019 , 9, 1636	4.9	5
20	The embryonic ontogeny of the gonadal somatic cells in mice and monkeys. <i>Cell Reports</i> , 2021 , 35, 109075	15.6	5
19	Epithelial expression of Gata4 and Sox2 regulates specification of the squamous-columnar junction via MAPK/ERK signaling in mice. <i>Nature Communications</i> , 2021 , 12, 560	17.4	4

18	Differentiation and isolation of iPSC-derived remodeling ductal plate-like cells by use of an AQP1-GFP reporter human iPSC line. <i>Stem Cell Research</i> , 2019 , 35, 101400	1.6	3
17	Metalloprotease-Dependent Attenuation of BMP Signaling Restricts Cardiac Neural Crest Cell Fate. <i>Cell Reports</i> , 2019 , 29, 603-616.e5	10.6	3
16	Response to comment on "Drug screening for ALS using patient-specific induced pluripotent stem cells". <i>Science Translational Medicine</i> , 2013 , 5, 188lr2	17.5	3
15	Extracellular laminin regulates hematopoietic potential of pluripotent stem cells through integrin α -ILK- β -catenin-JUN axis. <i>Stem Cell Research</i> , 2021 , 53, 102287	1.6	3
14	Modeling SARS-CoV-2 infection and its individual differences with ACE2-expressing human iPS cells. <i>IScience</i> , 2021 , 24, 102428	6.1	3
13	Smarb1 maintains the cellular identity and the chromatin landscapes of mouse embryonic stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 519, 705-713	3.4	2
12	DMRT1-mediated reprogramming drives development of cancer resembling human germ cell tumors with features of totipotency. <i>Nature Communications</i> , 2021 , 12, 5041	17.4	2
11	Dose-dependent roles for canonical Wnt signalling in de novo crypt formation and cell cycle properties of the colonic epithelium. <i>Journal of Cell Science</i> , 2013 , 126, e1-e1	5.3	1
10	RNA-binding protein Ptbp1 regulates alternative splicing and transcriptome in spermatogonia and maintains spermatogenesis in concert with Nanos3. <i>Journal of Reproduction and Development</i> , 2020 , 66, 459-467	2.1	1
9	A versatile and robust cell purification system with an RNA-only circuit composed of microRNA-responsive ON and OFF switches.. <i>Science Advances</i> , 2022 , 8, eabj1793	14.3	1
8	RNA-Sequencing Analysis of Differentially Expressed Genes in Human iPSC-Derived Cardiomyocytes. <i>Methods in Molecular Biology</i> , 2021 , 2320, 193-217	1.4	1
7	Retinoic acid regulates erythropoietin production cooperatively with hypoxia-inducible factors in human iPSC-derived erythropoietin-producing cells. <i>Scientific Reports</i> , 2021 , 11, 3936	4.9	1
6	Functional primordial germ cell-like cells from pluripotent stem cells in rats.. <i>Science</i> , 2022 , 376, 176-179	33.3	1
5	Nucleome programming is required for the foundation of totipotency in mammalian germline development. <i>EMBO Journal</i> ,	13	1
4	Inherent genomic properties underlie the epigenomic heterogeneity of human induced pluripotent stem cells. <i>Cell Reports</i> , 2021 , 37, 109909	10.6	0
3	Resistance to chemical carcinogenesis induction via a dampened inflammatory response in naked mole-rats.. <i>Communications Biology</i> , 2022 , 5, 287	6.7	0
2	The oncogene-dependent resistance to reprogramming unveils cancer therapeutic targets.. <i>Cell Reports</i> , 2022 , 39, 110721	10.6	0
1	Multi-omics approach reveals posttranscriptionally regulated genes are essential for human pluripotent stem cells.. <i>IScience</i> , 2022 , 25, 104289	6.1	0

