Masatoshi Suzuki

List of Publications by Year in descending order

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79 papers	4,244 citations	109137 35 h-index	114278 63 g-index
80 all docs	80 docs citations	80 times ranked	5501 citing authors

#	Article	IF	Citations
1	Production of Mice Deficient in Genes for Interleukin (IL)-1Î±, IL-1Î², IL-1Î±/Î², and IL-1 Receptor Antagonist Shows that IL-1Î² Is Crucial in Turpentine-induced Fever Development and Glucocorticoid Secretion. Journal of Experimental Medicine, 1998, 187, 1463-1475.	4.2	579
2	GDNF Secreting Human Neural Progenitor Cells Protect Dying Motor Neurons, but Not Their Projection to Muscle, in a Rat Model of Familial ALS. PLoS ONE, 2007, 2, e689.	1.1	273
3	GDNF Delivery Using Human Neural Progenitor Cells in a Rat Model of ALS. Human Gene Therapy, 2005, 16, 509-521.	1.4	256
4	A biodegradable nanocapsule delivers a Cas9 ribonucleoprotein complex for in vivo genome editing. Nature Nanotechnology, 2019, 14, 974-980.	15.6	252
5	Direct Muscle Delivery of GDNF With Human Mesenchymal Stem Cells Improves Motor Neuron Survival and Function in a Rat Model of Familial ALS. Molecular Therapy, 2008, 16, 2002-2010.	3.7	234
6	Alteration of behavioural phenotype in mice by targeted disruption of the progranulin gene. Behavioural Brain Research, 2007, 185, 110-118.	1.2	169
7	Mitotic and neurogenic effects of dehydroepiandrosterone (DHEA) on human neural stem cell cultures derived from the fetal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3202-3207.	3.3	140
8	Synergistic Effects of GDNF and VEGF on Lifespan and Disease Progression in a Familial ALS Rat Model. Molecular Therapy, 2013, 21, 1602-1610.	3.7	110
9	Derivation of Myogenic Progenitors Directly From Human Pluripotent Stem Cells Using a Sphere-Based Culture. Stem Cells Translational Medicine, 2014, 3, 564-574.	1.6	101
10	Glutamate enhances proliferation and neurogenesis in human neural progenitor cell cultures derived from the fetal cortex. European Journal of Neuroscience, 2006, 24, 645-653.	1.2	95
11	Combining growth factor and stem cell therapy for amyotrophic lateral sclerosis. Trends in Neurosciences, 2008, 31, 192-198.	4.2	94
12	Intermittent Hypoxia and Stem Cell Implants Preserve Breathing Capacity in a Rodent Model of Amyotrophic Lateral Sclerosis. American Journal of Respiratory and Critical Care Medicine, 2013, 187, 535-542.	2.5	89
13	⁵²Mn Production for PET/MRI Tracking Of Human Stem Cells Expressing Divalent Metal Transporter 1 (DMT1). Theranostics, 2015, 5, 227-239.	4.6	80
14	Granulin Precursor Gene: A Sex Steroid-Inducible Gene Involved in Sexual Differentiation of the Rat Brain. Molecular Genetics and Metabolism, 2002, 75, 31-37.	0.5	71
15	Identification of a sex steroid-inducible gene in the neonatal rat hypothalamus. Neuroscience Letters, 1998, 242, 127-130.	1.0	70
16	CERVICAL SPINAL CORD THERAPEUTICS DELIVERY. Neurosurgery, 2009, 65, 754-762.	0.6	70
17	Current Progress and Challenges for Skeletal Muscle Differentiation from Human Pluripotent Stem Cells Using Transgene-Free Approaches. Stem Cells International, 2018, 2018, 1-18.	1.2	69
18	GDNF-Secreting Human Neural Progenitor Cells Increase Tyrosine Hydroxylase and VMAT2 Expression in MPTP-Treated Cynomolgus Monkeys. Cell Transplantation, 2008, 17, 383-395.	1.2	67

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19	Cell Sources for Cultivated Meat: Applications and Considerations throughout the Production Workflow. International Journal of Molecular Sciences, 2021, 22, 7513.	1.8	63
20	Macrophage-mediated inflammation and glial response in the skeletal muscle of a rat model of familial amyotrophic lateral sclerosis (ALS). Experimental Neurology, 2016, 277, 275-282.	2.0	62
21	Fas/Fas Ligand System in Prolactin-Induced Apoptosis in Rat Corpus Luteum: Possible Role of Luteal Immune Cells. Biochemical and Biophysical Research Communications, 1999, 260, 167-173.	1.0	61
22	Involvement of Granulin in Estrogen-Induced Neurogenesis in the Adult Rat Hippocampus. Journal of Reproduction and Development, 2007, 53, 297-307.	0.5	60
23	Sexual dimorphism in disease onset and progression of a rat model of ALS. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2007, 8, 20-25.	2.3	59
24	Progesterone is a cell death suppressor that downregulates Fas expression in rat corpus luteum. FEBS Letters, 2000, 466, 279-282.	1.3	53
25	Ventilatory control in ALS. Respiratory Physiology and Neurobiology, 2013, 189, 429-437.	0.7	50
26	Therapeutic applications of mesenchymal stem cells for amyotrophic lateral sclerosis. Stem Cell Research and Therapy, 2014, 5, 32.	2.4	46
27	Suppression of copulatory behavior by intracerebroventricular infusion of antisense oligodeoxynucleotide of granulin in neonatal male rats. Physiology and Behavior, 2000, 68, 707-713.	1.0	44
28	Roles of Progranulin in Sexual Differentiation of the Developing Brain and Adult Neurogenesis. Journal of Reproduction and Development, 2009, 55, 351-355.	0.5	42
29	GDNF-secreting human neural progenitor cells increase tyrosine hydroxylase and VMAT2 expression in MPTP-treated cynomolgus monkeys. Cell Transplantation, 2008, 17, 383-95.	1.2	41
30	Requirement of the Fas ligand-expressing luteal immune cells for regression of corpus luteum. FEBS Letters, 2000, 472, 137-142.	1.3	40
31	Age-Dependent Changes in Progranulin Expression in the Mouse Brain. Journal of Reproduction and Development, 2011, 57, 113-119.	0.5	40
32	Induction of granulin precursor gene expression by estrogen treatment in neonatal rat hypothalamus. Neuroscience Letters, 2001, 297, 199-202.	1.0	39
33	A High Concentration of Epidermal Growth Factor Increases the Growth and Survival of Neurogenic Radial Glial Cells Within Human Neurosphere Cultures. Stem Cells, 2008, 26, 348-355.	1.4	38
34	Neuromuscular Junction Protection for the Potential Treatment of Amyotrophic Lateral Sclerosis. Neurology Research International, 2012, 2012, 1-8.	0.5	38
35	Detection of transgene in progeny at different developmental stages following testis-mediated gene transfer. Molecular Reproduction and Development, 2001, 60, 196-201.	1.0	37
36	Reproductive Phenotypes in Mice with Targeted Disruption of the 20.ALPHA.-Hydroxysteroid Dehydrogenase Gene. Journal of Reproduction and Development, 2007, 53, 499-508.	0.5	37

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37	Differentiation and sarcomere formation in skeletal myocytes directly prepared from human induced pluripotent stem cells using a sphere-based culture. Differentiation, 2017, 96, 70-81.	1.0	35
38	Effects of Methoxychlor Exposure during Perinatal Period on Reproductive Function after Maturation in Rats. Journal of Reproduction and Development, 2004, 50, 455-461.	0.5	31
39	Micropatterned substrates with physiological stiffness promote cell maturation and Pompe disease phenotype in human induced pluripotent stem cellâ€derived skeletal myocytes. Biotechnology and Bioengineering, 2019, 116, 2377-2392.	1.7	30
40	C9ORF72-related cellular pathology in skeletal myocytes derived from ALS-patient induced pluripotent stem cells. DMM Disease Models and Mechanisms, 2019, 12, .	1.2	29
41	Generation of Transgenic Rats Expressing Enhanced Green Fluorescent Protein in Gonadotropin-Releasing Hormone Neurons. Journal of Reproduction and Development, 2003, 49, 523-529.	0.5	26
42	In Vivo Tracking of Human Neural Progenitor Cells in the Rat Brain Using Magnetic Resonance Imaging is Not Enhanced by Ferritin Expression. Cell Transplantation, 2016, 25, 575-592.	1.2	25
43	Male-Specific Differences in Proliferation, Neurogenesis, and Sensitivity to Oxidative Stress in Neural Progenitor Cells Derived from a Rat Model of ALS. PLoS ONE, 2012, 7, e48581.	1.1	23
44	Glucocorticoid Maintains Pulsatile Secretion of Luteinizing Hormone under Infectious Stress Condition. Endocrinology, 2003, 144, 3477-3482.	1.4	22
45	Glucocorticoid counteracts the suppressive effect of tumor necrosis factor-alpha on the surge of luteinizing hormone secretion in rats. Journal of Endocrinology, 2004, 181, 509-513.	1.2	22
46	Relationship between Growth Hormone (GH) Pulses in the Peripheral Circulation and GH-Releasing Hormone and Somatostatin Profiles in the Cerebrospinal Fluid of Goats. Journal of Veterinary Medical Science, 2004, 66, 1071-1078.	0.3	22
47	Uptake and retention of manganese contrast agents for PET and MRI in the rodent brain. Contrast Media and Molecular Imaging, 2016, 11, 371-380.	0.4	22
48	Coding Cell Identity of Human Skeletal Muscle Progenitor Cells Using Cell Surface Markers: Current Status and Remaining Challenges for Characterization and Isolation. Frontiers in Cell and Developmental Biology, 2019, 7, 284.	1.8	22
49	Effect of Taurine in Rat Milk on the Growth of Offspring.. Journal of Veterinary Medical Science, 2000, 62, 693-698.	0.3	20
50	Gonadectomy and dehydroepiandrosterone (DHEA) do not modulate disease progression in the G93A mutant SOD1 rat model of amyotrophic lateral sclerosis. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2012, 13, 311-314.	2.3	20
51	Hypothalamic Gonadotropin-Releasing Hormone Gene Expression during Rat Estrous Cycle.. Endocrine Journal, 1995, 42, 789-796.	0.7	18
52	Characterization of GH Pulsatility in Male Shiba Goats: Effects of Postpubertal Castration and KP102.. Endocrine Journal, 2002, 49, 145-151.	0.7	17
53	In vivo tracking of human neural progenitor cells in the rat brain using bioluminescence imaging. Journal of Neuroscience Methods, 2014, 228, 67-78.	1.3	16
54	Expression Analyses of Sex Steroid-Regulated Genes in Neonatal Rat Hypothalamus. Journal of Reproduction and Development, 2003, 49, 547-552.	0.5	16

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55	Sex-Related Differences in Gene Expression in Neonatal Rat Hypothalamus Assessed by cDNA Microarray Analysis.. Endocrine Journal, 2002, 49, 131-137.	0.7	15
56	Acute glial activation by stab injuries does not lead to overt damage or motor neuron degeneration in the G93A mutant SOD1 rat model of amyotrophic lateral sclerosis. Experimental Neurology, 2010, 221, 346-352.	2.0	14
57	Expression of Cysteine Sulfinate Decarboxylase mRNA in Rat Mammary Gland.. Journal of Veterinary Medical Science, 2000, 62, 829-834.	0.3	12
58	Characterization and functional analysis of the 5â€²-flanking region of the mouse 20Î±-hydroxysteroid dehydrogenase gene. Biochemical Journal, 2004, 382, 975-980.	1.7	12
59	Molecular Cloning of Canine Monoamine Oxidase Subtypes A (MAOA) and B (MAOB) cDNAs and Their Expression in the Brain. Journal of Veterinary Medical Science, 2003, 65, 893-898.	0.3	11
60	Oocyte-Specific Expression of Granulin Precursor (Acrogranin) in Rat Ovary.. Journal of Reproduction and Development, 2000, 46, 271-277.	0.5	10
61	Isolation and in vitro propagation of human skeletal muscle progenitor cells from fetal muscle. Cell Biology International, 2013, 37, 191-196.	1.4	10
62	Ex Vivo Gene Therapy Using Human Mesenchymal Stem Cells to Deliver Growth Factors in the Skeletal Muscle of a Familial ALS Rat Model. Methods in Molecular Biology, 2016, 1382, 325-336.	0.4	10
63	Applications of skeletal muscle progenitor cells for neuromuscular diseases. American Journal of Stem Cells, 2012, 1, 253-63.	0.4	9
64	Androgen induces p130 mRNA expression in the neonatal rat hypothalamus. Neuroscience Letters, 2002, 334, 107-110.	1.0	8
65	Protamine-Derived Synthetic Peptide Enhances the Efficiency of Sperm-Mediated Gene Transfer Using Liposome-Peptide-DNA Complex.. Journal of Reproduction and Development, 2002, 48, 281-286.	0.5	8
66	Transcriptome analysis using patient iPSC-derived skeletal myocytes: Bet1L as a new molecule possibly linked to neuromuscular junction degeneration in ALS. Experimental Neurology, 2021, 345, 113815.	2.0	7
67	Current Progress in the Creation, Characterization, and Application of Human Stem Cell-derived in Vitro Neuromuscular Junction Models. Stem Cell Reviews and Reports, 2021, , 1.	1.7	6
68	Expression of Ovarian 20.ALPHA.-Hydroxysteroid Dehydrogenase in Rat Thymus.. Endocrine Journal, 2001, 48, 557-563.	0.7	5
69	Involvement of Activin and Inhibin in the Regulation of Food and Water Intake in the Rat.. Journal of Veterinary Medical Science, 2003, 65, 237-242.	0.3	4
70	Myogenic marker expression as a function of age and exercise-based therapy in the tongue. Experimental Gerontology, 2020, 142, 111104.	1.2	4
71	Skeletal Muscle Cells Generated from Pluripotent Stem Cells. Stem Cells International, 2017, 2017, 1-2.	1.2	3
72	Blood Level of Glial Fibrillary Acidic Protein (GFAP) Does not Correlate With Disease Progression in a Rat Model of Familial ALS (SOD1G93A Transgenic). Frontiers in Neurology, 2018, 9, 954.	1.1	3

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73	Estrogen Affects Gene Expression of Estrogen Receptors, Androgen Receptor, and Aromatase in the Neonatal Rat Hypothalamus.. Journal of Reproduction and Development, 2002, 48, 17-23.	0.5	3
74	Skeletal Muscle Fiber Types in Neuromuscular Diseases. , 0, , .		2
75	Cell Surface Proteins for Enrichment and In Vitro Characterization of Human Pluripotent Stem Cell-Derived Myogenic Progenitors. Stem Cells International, 2022, 2022, 1-21.	1.2	2
76	Stem Cell Application for Amyotrophic Lateral Sclerosis: Growth Factor Delivery and Cell Therapy. , 0, , .		1
77	FGF-2: a critical factor for producing myogenic progenitors and skeletal muscle from pluripotent sources?. Regenerative Medicine, 2014, 9, 405-407.	0.8	0
78	SkeletalÂmuscle engineering using human induced pluripotent stem cells for inÂvitro disease modeling. , 2021, , 217-236.		0
79	Progranulin in Sexual Differentiation of the Developing Brain. , 2019, , 105-116.		0