

Kunihiro Tsuchida

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125
papers

7,450
citations

42
h-index

85
g-index

151
ext. papers

8,319
ext. citations

6
avg, IF

5.63
L-index

#	Paper	IF	Citations
125	Sequence and expression of a metabotropic glutamate receptor. <i>Nature</i> , 1991 , 349, 760-5	50.4	1127
124	Mesenchymal progenitors distinct from satellite cells contribute to ectopic fat cell formation in skeletal muscle. <i>Nature Cell Biology</i> , 2010 , 12, 143-52	23.4	782
123	Fibrosis and adipogenesis originate from a common mesenchymal progenitor in skeletal muscle. <i>Journal of Cell Science</i> , 2011 , 124, 3654-64	5.3	375
122	Fabrication of ZnPC/protein nanohorns for double photodynamic and hyperthermic cancer phototherapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 14773-8	11.5	237
121	Enhancement of in vivo anticancer effects of cisplatin by incorporation inside single-wall carbon nanohorns. <i>ACS Nano</i> , 2008 , 2, 2057-64	16.7	198
120	Regulation of muscle mass by follistatin and activins. <i>Molecular Endocrinology</i> , 2010 , 24, 1998-2008		191
119	Expressions of PDGF receptor alpha, c-Kit and Flk1 genes clustering in mouse chromosome 5 define distinct subsets of nascent mesodermal cells. <i>Development Growth and Differentiation</i> , 1997 , 39, 729-40 ³		186
118	Tumor-stroma interaction of human pancreatic cancer: acquired resistance to anticancer drugs and proliferation regulation is dependent on extracellular matrix proteins. <i>Pancreas</i> , 2004 , 28, 38-44	2.6	182
117	Follistatin induces muscle hypertrophy through satellite cell proliferation and inhibition of both myostatin and activin. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009 , 297, E157-64 ⁶		175
116	Transgenic expression of a myostatin inhibitor derived from follistatin increases skeletal muscle mass and ameliorates dystrophic pathology in mdx mice. <i>FASEB Journal</i> , 2008 , 22, 477-87	0.9	159
115	Identification and characterization of PDGFR β mesenchymal progenitors in human skeletal muscle. <i>Cell Death and Disease</i> , 2014 , 5, e1186	9.8	155
114	Tissue distribution and quantitation of the mRNAs for three rat tachykinin receptors. <i>FEBS Journal</i> , 1990 , 193, 751-7		151
113	Identification and characterization of a novel follistatin-like protein as a binding protein for the TGF-beta family. <i>Journal of Biological Chemistry</i> , 2000 , 275, 40788-96	5.4	142
112	Signal transduction pathway through activin receptors as a therapeutic target of musculoskeletal diseases and cancer. <i>Endocrine Journal</i> , 2008 , 55, 11-21	2.9	130
111	Activin signaling as an emerging target for therapeutic interventions. <i>Cell Communication and Signaling</i> , 2009 , 7, 15	7.5	121
110	Activin isoforms signal through type I receptor serine/threonine kinase ALK7. <i>Molecular and Cellular Endocrinology</i> , 2004 , 220, 59-65	4.4	113
109	Cloning and characterization of a transmembrane serine kinase that acts as an activin type I receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993 , 90, 11242-6 ^{11.5}		112

108	Muscular atrophy of caveolin-3-deficient mice is rescued by myostatin inhibition. <i>Journal of Clinical Investigation</i> , 2006 , 116, 2924-34	15.9	90
107	Roles of nonmyogenic mesenchymal progenitors in pathogenesis and regeneration of skeletal muscle. <i>Frontiers in Physiology</i> , 2014 , 5, 68	4.6	88
106	Myostatin signaling regulates Akt activity via the regulation of miR-486 expression. <i>International Journal of Biochemistry and Cell Biology</i> , 2014 , 47, 93-103	5.6	82
105	Activin in the brain modulates anxiety-related behavior and adult neurogenesis. <i>PLoS ONE</i> , 2008 , 3, e18697	5.7	77
104	Biodistribution and ultrastructural localization of single-walled carbon nanohorns determined in vivo with embedded Gd ₂ O ₃ labels. <i>ACS Nano</i> , 2009 , 3, 1399-406	16.7	74
103	Identification and characterization of a PDZ protein that interacts with activin type II receptors. <i>Journal of Biological Chemistry</i> , 2000 , 275, 5485-92	5.4	74
102	Cell-Surface Protein Profiling Identifies Distinctive Markers of Progenitor Cells in Human Skeletal Muscle. <i>Stem Cell Reports</i> , 2016 , 7, 263-78	8	73
101	Activin A and follistatin-like 3 determine the susceptibility of heart to ischemic injury. <i>Circulation</i> , 2009 , 120, 1606-15	16.7	69
100	Water-dispersed single-wall carbon nanohorns as drug carriers for local cancer chemotherapy. <i>Nanomedicine</i> , 2008 , 3, 453-63	5.6	69
99	Molecular characterization of rat transforming growth factor-beta type II receptor. <i>Biochemical and Biophysical Research Communications</i> , 1993 , 191, 790-5	3.4	69
98	Follistatin suppresses the production of experimental multiple-organ metastasis by small cell lung cancer cells in natural killer cell-depleted SCID mice. <i>Clinical Cancer Research</i> , 2008 , 14, 660-7	12.9	66
97	Activins, myostatin and related TGF-beta family members as novel therapeutic targets for endocrine, metabolic and immune disorders. <i>Current Drug Targets Immune, Endocrine and Metabolic Disorders</i> , 2004 , 4, 157-66		65
96	Regulation of endocytosis of activin type II receptors by a novel PDZ protein through Ral/Ral-binding protein 1-dependent pathway. <i>Journal of Biological Chemistry</i> , 2002 , 277, 19008-18	5.4	65
95	Molecular cloning of a novel type I receptor serine/threonine kinase for the TGF beta superfamily from rat brain. <i>Molecular and Cellular Neurosciences</i> , 1996 , 7, 467-78	4.8	65
94	Recent advances in inorganic nanoparticle-based drug delivery systems. <i>Mini-Reviews in Medicinal Chemistry</i> , 2008 , 8, 175-83	3.2	63
93	Expression of a TGF-beta1 inducible gene, TSC-36, causes growth inhibition in human lung cancer cell lines. <i>Cancer Letters</i> , 2000 , 155, 37-46	9.9	63
92	Osteogenic differentiation capacity of human skeletal muscle-derived progenitor cells. <i>PLoS ONE</i> , 2013 , 8, e56641	3.7	63
91	Calcitonin Receptor Signaling Inhibits Muscle Stem Cells from Escaping the Quiescent State and the Niche. <i>Cell Reports</i> , 2015 , 13, 302-14	10.6	62

90	Inactivation of activin-dependent transcription by kinase-deficient activin receptors. <i>Endocrinology</i> , 1995 , 136, 5493-503	4.8	60
89	Role of microRNAs in skeletal muscle hypertrophy. <i>Frontiers in Physiology</i> , 2013 , 4, 408	4.6	58
88	Difference between follistatin isoforms in the inhibition of activin signalling: activin neutralizing activity of follistatin isoforms is dependent on their affinity for activin. <i>Cellular Signalling</i> , 2000 , 12, 565-71	4.9	53
87	Activin increases the number of synaptic contacts and the length of dendritic spine necks by modulating spinal actin dynamics. <i>Journal of Cell Science</i> , 2007 , 120, 3830-7	5.3	46
86	Transcriptional activation of mouse mast cell Protease-7 by activin and transforming growth factor-beta is inhibited by microphthalmia-associated transcription factor. <i>Journal of Biological Chemistry</i> , 2003 , 278, 52032-41	5.4	46
85	Activin plays a key role in the maintenance of long-term memory and late-LTP. <i>Learning and Memory</i> , 2010 , 17, 176-85	2.8	43
84	Activin and activin receptor expression changes in liver regeneration in rat. <i>Journal of Surgical Research</i> , 2005 , 126, 3-11	2.5	43
83	Photoinduced electron transfer in zinc phthalocyanine loaded on single-walled carbon nanohorns in aqueous solution. <i>Advanced Materials</i> , 2009 , 21, 4366-71	2.4	40
82	cDNA cloning and expression of human activin betaE subunit. <i>Molecular and Cellular Endocrinology</i> , 2002 , 194, 117-22	4.4	40
81	Synergistic activity of activin A and basic fibroblast growth factor on tyrosine hydroxylase expression through Smad3 and ERK1/ERK2 MAPK signaling pathways. <i>Journal of Endocrinology</i> , 2005 , 184, 493-504	4.7	39
80	Activins and the receptor serine kinase superfamily. <i>Endocrine Reviews</i> , 1995 , 50, 109-29		39
79	The rasGAP-binding protein, Dok-1, mediates activin signaling via serine/threonine kinase receptors. <i>EMBO Journal</i> , 2002 , 21, 1684-94	1.3	38
78	Targeting myostatin for therapies against muscle-wasting disorders. <i>Current Opinion in Drug Discovery & Development</i> , 2008 , 11, 487-94		38
77	Novel factors in regulation of activin signaling. <i>Molecular and Cellular Endocrinology</i> , 2004 , 225, 1-8	4.4	37
76	Single-walled carbon nanohorns as drug carriers: adsorption of prednisolone and anti-inflammatory effects on arthritis. <i>Nanotechnology</i> , 2011 , 22, 465102	3.4	36
75	Intracellular and extracellular control of activin function by novel regulatory molecules. <i>Molecular and Cellular Endocrinology</i> , 2001 , 180, 25-31	4.4	36
74	Intracellular drug delivery by genetically engineered high-density lipoprotein nanoparticles. <i>Nanomedicine</i> , 2010 , 5, 867-79	5.6	35
73	Involvement of the serum response factor coactivator megakaryoblastic leukemia (MKL) in the activin-regulated dendritic complexity of rat cortical neurons. <i>Journal of Biological Chemistry</i> , 2010 , 285, 32734-32743	5.4	33

72	UBL3 modification influences protein sorting to small extracellular vesicles. <i>Nature Communications</i> , 2018 , 9, 3936	17.4	31
71	promoter-associated lncRNA is essential for myogenic differentiation. <i>EMBO Reports</i> , 2019 , 20,	6.5	30
70	Follistatin-derived peptide expression in muscle decreases adipose tissue mass and prevents hepatic steatosis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011 , 300, E543-53	6	29
69	Myostatin inhibition by a follistatin-derived peptide ameliorates the pathophysiology of muscular dystrophy model mice. <i>Acta Myologica</i> , 2008 , 27, 14-8	1.6	29
68	Activin induces long-lasting N-methyl-D-aspartate receptor activation via scaffolding PDZ protein activin receptor interacting protein 1. <i>Neuroscience</i> , 2008 , 151, 1225-35	3.9	28
67	Inhibitors of the TGF-beta superfamily and their clinical applications. <i>Mini-Reviews in Medicinal Chemistry</i> , 2006 , 6, 1255-61	3.2	27
66	Smad3 is required for enamel biomineralization. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 305, 684-90	3.4	27
65	Proteomic analysis of the effect of plant-derived smoke on soybean during recovery from flooding stress. <i>Journal of Proteomics</i> , 2018 , 181, 238-248	3.9	25
64	An inhibitor of transforming growth factor beta type I receptor ameliorates muscle atrophy in a mouse model of caveolin 3-deficient muscular dystrophy. <i>Laboratory Investigation</i> , 2012 , 92, 1100-14	5.9	25
63	Post-translational modification and protein sorting to small extracellular vesicles including exosomes by ubiquitin and UBLs. <i>Cellular and Molecular Life Sciences</i> , 2019 , 76, 4829-4848	10.3	24
62	Hematopoietic tissues, as a playground of receptor tyrosine kinases of the PDGF-receptor family. <i>Developmental and Comparative Immunology</i> , 1998 , 22, 321-32	3.2	24
61	Characterization of isoforms of activin receptor-interacting protein 2 that augment activin signaling. <i>Journal of Endocrinology</i> , 2006 , 189, 409-21	4.7	23
60	ALK7 is a novel marker for adipocyte differentiation. <i>Journal of Medical Investigation</i> , 2006 , 53, 238-45	1.2	23
59	iTRAQ-based proteomics reveals novel biomarkers of osteoarthritis. <i>Biomarkers</i> , 2013 , 18, 565-72	2.6	22
58	The Inhibitory Core of the Myostatin Prodomain: Its Interaction with Both Type I and II Membrane Receptors, and Potential to Treat Muscle Atrophy. <i>PLoS ONE</i> , 2015 , 10, e0133713	3.7	22
57	Proteomic Analysis of the Effect of Inorganic and Organic Chemicals on Silver Nanoparticles in Wheat. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	20
56	Characterization of rat follistatin-related gene: effects of estrous cycle stage and pregnancy on its messenger RNA expression in rat reproductive tissues. <i>Biology of Reproduction</i> , 2003 , 68, 199-206	3.9	20
55	Characterization of follistatin-related gene as a negative regulatory factor for activin family members during mouse heart development. <i>Journal of Medical Investigation</i> , 2007 , 54, 276-88	1.2	19

54	Overproduction of the follistatin-related gene protein in the placenta and maternal serum of women with pre-eclampsia. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2007 , 114, 1128-37	3.7	19
53	The role of myostatin and bone morphogenetic proteins in muscular disorders. <i>Expert Opinion on Biological Therapy</i> , 2006 , 6, 147-54	5.4	19
52	Acceleration of palatal wound healing in Smad3-deficient mice. <i>Journal of Dental Research</i> , 2009 , 88, 757-61	8.1	18
51	Mesenchymal Bmp3b expression maintains skeletal muscle integrity and decreases in age-related sarcopenia. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	18
50	Overexpression of bone morphogenetic protein-3b (BMP-3b) in adipose tissues protects against high-fat diet-induced obesity. <i>International Journal of Obesity</i> , 2017 , 41, 483-488	5.5	17
49	Pro-Insulin-Like Growth Factor-II Ameliorates Age-Related Inefficient Regenerative Response by Orchestrating Self-Reinforcement Mechanism of Muscle Regeneration. <i>Stem Cells</i> , 2015 , 33, 2456-68	5.8	17
48	Notch ligands regulate the muscle stem-like state ex vivo but are not sufficient for retaining regenerative capacity. <i>PLoS ONE</i> , 2017 , 12, e0177516	3.7	17
47	Mung bean (<i>Vigna radiata</i> (L.)) coat extract modulates macrophage functions to enhance antigen presentation: A proteomic study. <i>Journal of Proteomics</i> , 2017 , 161, 26-37	3.9	16
46	Multifunctional roles of activins in the brain. <i>Vitamins and Hormones</i> , 2011 , 85, 185-206	2.5	16
45	Size control of lipid-based drug carrier by drug loading. <i>Molecular BioSystems</i> , 2010 , 6, 789-91		16
44	Follistatin-related gene (FLRG) expression in human endometrium: sex steroid hormones regulate the expression of FLRG in cultured human endometrial stromal cells. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2003 , 88, 4432-9	5.6	16
43	Identification, Isolation, and Characterization of Mesenchymal Progenitors in Mouse and Human Skeletal Muscle. <i>Methods in Molecular Biology</i> , 2016 , 1460, 241-53	1.4	16
42	Characterization of gene organization and generation of heterogeneous mRNA species of rat ISK protein. <i>Journal of Biochemistry</i> , 1990 , 108, 200-6	3.1	15
41	Neuron type-selective effects of activin on development of the hippocampus. <i>Neuroscience Letters</i> , 2009 , 452, 232-7	3.3	14
40	Molecular Responses of Maize Shoot to a Plant Derived Smoke Solution. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	13
39	Characterization of neuron-specific huntingtin aggregates in human huntingtin knock-in mice. <i>Neuroscience Research</i> , 2007 , 57, 559-73	2.9	13
38	Myostatin-deficiency in mice increases global gene expression at the Dlk1-Dio3 locus in the skeletal muscle. <i>Oncotarget</i> , 2017 , 8, 5943-5953	3.3	12
37	A comparative proteomic analysis of engineered and bio synthesized silver nanoparticles on soybean seedlings. <i>Journal of Proteomics</i> , 2020 , 224, 103833	3.9	11

36	Involvement of p38 MAP kinase and Smad3 in TGF-beta-mediated mast cell functions. <i>Cellular Signalling</i> , 2006 , 18, 2154-61	4.9	11
35	Transcriptional regulation of mouse mast cell protease-7 by TGF-beta. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2006 , 1759, 166-70		11
34	Expression Levels of Long Non-Coding RNAs Change in Models of Altered Muscle Activity and Muscle Mass. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	10
33	Requirement of Smad3 for mast cell growth. <i>Cellular Immunology</i> , 2006 , 240, 47-52	4.4	10
32	Phosphoproteomics Reveals the Biosynthesis of Secondary Metabolites in under Ultraviolet-B Radiation. <i>Journal of Proteome Research</i> , 2019 , 18, 3328-3341	5.6	8
31	Combination therapy of human pancreatic cancer implanted in nude mice by oral fluoropyrimidine anticancer agent (S-1) with interferon-alpha. <i>Cancer Chemotherapy and Pharmacology</i> , 2007 , 59, 113-26	3.5	8
30	Proteomic Analysis of Irradiation with Millimeter Waves on Soybean Growth under Flooding Conditions. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	7
29	Promethazine Hydrochloride Inhibits Ectopic Fat Cell Formation in Skeletal Muscle. <i>American Journal of Pathology</i> , 2017 , 187, 2627-2634	5.8	7
28	Genomic organization and promoter analysis of mouse follistatin-related gene (FLRG). <i>Molecular and Cellular Endocrinology</i> , 2002 , 189, 117-23	4.4	7
27	Long Non-Coding RNA Regulates GDF5 Expression in Denervated Mouse Skeletal Muscle. <i>Non-coding RNA</i> , 2019 , 5,	7.1	6
26	Identification of tocopherol-associated protein as an activin/TGF-beta-inducible gene in mast cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2006 , 1763, 900-6	4.9	6
25	Purification of recombinant activin A using the second follistatin domain of follistatin-related gene (FLRG). <i>Protein Expression and Purification</i> , 2006 , 49, 78-82	2	6
24	Adenosine deaminase deficiency due to heterozygous abnormality consisting of a deletion of exon 7 and the absence of enzyme mRNA. <i>Journal of Cellular Biochemistry</i> , 1991 , 47, 49-53	4.7	6
23	Mechanism of Cell Interactions with Water-Dispersed Carbon Nanohorns. <i>Nanoscience and Nanotechnology Letters</i> , 2013 , 5, 402-407	0.8	5
22	Desloratadine inhibits heterotopic ossification by suppression of BMP2-Smad1/5/8 signaling. <i>Journal of Orthopaedic Research</i> , 2021 , 39, 1297-1304	3.8	5
21	Osmotic stress in banana is relieved by exogenous nitric oxide. <i>PeerJ</i> , 2021 , 9, e10879	3.1	5
20	Discovery of a follistatin-derived myostatin inhibitory peptide. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020 , 30, 126892	2.9	3
19	Vangl2 interaction plays a role in the proteasomal degradation of Prickle2. <i>Scientific Reports</i> , 2019 , 9, 2912	4.9	3

18	Proteomic and Biochemical Analyses of the Mechanism of Tolerance in Mutant Soybean Responding to Flooding Stress. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
17	Reduced expression of calcitonin receptor is closely associated with age-related loss of the muscle stem cell pool. <i>JCSM Rapid Communications</i> , 2019 , 2, 1-13	2.6	2
16	Origin and Therapeutic Strategies for Ectopic Bone Formation in Skeletal Muscle 2013 , 03,		2
15	Possible endocrine control by follistatin 315 during liver regeneration based on changes in the activin receptor after a partial hepatectomy in rats. <i>Hepato-Gastroenterology</i> , 2005 , 52, 60-6		2
14	Proteomic, Biochemical, and Morphological Analyses of the Effect of Silver Nanoparticles Mixed with Organic and Inorganic Chemicals on Wheat Growth.. <i>Cells</i> , 2022 , 11,	7.9	2
13	Morphological, Biochemical, and Proteomic Analyses to Understand the Promotive Effects of Plant-Derived Smoke Solution on Wheat Growth under Flooding Stress. <i>Plants</i> , 2022 , 11, 1508	4.5	2
12	Data describing the effects of depletion of , , , and in differentiating C2C12 cells. <i>Data in Brief</i> , 2019 , 25, 104172	1.2	1
11	Proteomic and Biological Analyses Reveal the Effect on Growth under Flooding Stress of Chickpea Irradiated with Millimeter Waves. <i>Journal of Proteome Research</i> , 2021 , 20, 4718-4727	5.6	1
10	Activin Signal Transduction and the Role of TGF- β Superfamily in Cell Differentiation 1997 , 254-263		1
9	Development of Myostatin Inhibitory d-Peptides to Enhance the Potency, Increasing Skeletal Muscle Mass in Mice.. <i>ACS Medicinal Chemistry Letters</i> , 2022 , 13, 492-498	4.3	1
8	Increased MFG-E8 at neuromuscular junctions is an exacerbating factor for sarcopenia-associated denervation.. <i>Aging Cell</i> , 2021 , e13536	9.9	1
7	Regulatory Roles of Long Non-coding RNAs in Skeletal Muscle Differentiation, Regeneration, and Disorders. <i>RNA Technologies</i> , 2020 , 431-463	0.2	0
6	Evaluation of the reporting quality of clinical practice guidelines on pancreatic cancer using the RIGHT checklist. <i>Annals of Translational Medicine</i> , 2021 , 9, 1088	3.2	0
5	A new murine ileostomy model: recycling stool prevents intestinal atrophy in the distal side of ileostomy. 2021 , 7, 41-49		0
4	Characterization of Inorganic Nanomaterials as Therapeutic Vehicles 2014 , 73-98		
3	The Effect of Mung Bean ((L.)) Coat Extract on Mouse Liver Metabolism During Progesterone Withdrawal. <i>Journal of Medicinal Food</i> , 2020 , 23, 967-977	2.8	
2	Deficiency of Gene Alters the Gene Expression Profiling of Skeletal Muscle Subjected to Mechanical Overload. <i>Frontiers in Sports and Active Living</i> , 2019 , 1, 41	2.3	
1	Effects of preactivation by portal vein ligation on liver regeneration following massive hepatectomy in rats. <i>Hepato-Gastroenterology</i> , 2007 , 54, 1216-21		

