Takafumi sakai

List of Publications by Year in descending order

109 papers	2,526 citations	172457 29 h-index	233421 45 g-index
111 all docs	111 docs citations	111 times ranked	2037 citing authors

#	Article	IF	Citations
1	Ghrelin-producing cells exist as two types of cells, closed- and opened-type cells, in the rat gastrointestinal tract. Peptides, 2002, 23, 531-536.	2.4	276
2	Growth hormone secretagogue receptor expression in the cells of the stomach-projected afferent nerve in the rat nodose ganglion. Neuroscience Letters, 2003, 342, 183-186.	2.1	110
3	Establishment of a Series of Pituitary Clonal Cell Lines Differing in Morphology, Hormone Secretion, and Response to Estrogen. Endocrinology, 1990, 126, 2313-2320.	2.8	93
4	Ghrelin Cells in the Gastrointestinal Tract. International Journal of Peptides, 2010, 2010, 1-7.	0.7	89
5	G protein-coupled receptor 120 signaling regulates ghrelin secretion in vivo and in vitro. American Journal of Physiology - Endocrinology and Metabolism, 2014, 306, E28-E35.	3.5	74
6	Estrogen modulates ghrelin expression in the female rat stomach. Peptides, 2004, 25, 289-297.	2.4	73
7	Existence of ghrelin-immunopositive and -expressing cells in the proventriculus of the hatching and adult chicken. Regulatory Peptides, 2003, 111, 123-128.	1.9	60
8	Postnatal changes in ghrelin mRNA expression and in ghrelin-producing cells in the rat stomach. Journal of Endocrinology, 2002, 174, 463-471.	2.6	59
9	House musk shrew (Suncus murinus, order: Insectivora) as a new model animal for motilin study. Peptides, 2009, 30, 318-329.	2.4	57
10	Fragments of Genomic DNA Released by Injured Cells Activate Innate Immunity and Suppress Endocrine Function in the Thyroid. Endocrinology, 2011, 152, 1702-1712.	2.8	55
11	Gastric estrogen directly induces ghrelin expression and production in the rat stomach. Journal of Endocrinology, 2006, 190, 749-757.	2.6	53
12	Structural determination and histochemical localization of ghrelin in the red-eared slider turtle, Trachemys scripta elegans. General and Comparative Endocrinology, 2004, 138, 50-57.	1.8	49
13	Immunohistochemical analyses of thyroid-specific enhancer-binding protein in the fetal and adult rat hypothalami and pituitary glands. Developmental Brain Research, 2001, 130, 159-166.	1.7	45
14	Exogenous administration of octanoic acid accelerates octanoylated ghrelin production in the proventriculus of neonatal chicks. Biochemical and Biophysical Research Communications, 2005, 333, 583-589.	2.1	44
15	Coordination of motilin and ghrelin regulates the migrating motor complex of gastrointestinal motility in Suncus murinus. American Journal of Physiology - Renal Physiology, 2012, 302, G1207-G1215.	3.4	41
16	Localization of Ghrelin-Producing Cells in the Stomach of the Rainbow Trout (Oncorhynchus mykiss). Zoological Science, 2004, 21, 757-762.	0.7	40
17	In vitro selection of a peptide antagonist of growth hormone secretagogue receptor using cDNA display. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11121-11126.	7.1	40
18	The Role of the Vagus Nerve in the Migrating Motor Complex and Ghrelin- and Motilin-Induced Gastric Contraction in Suncus. PLoS ONE, 2013, 8, e64777.	2.5	40

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19	Gastric leptin, but not estrogen and somatostatin, contributes to the elevation of ghrelin mRNA expression level in fasted rats. Journal of Endocrinology, 2008, 196, 529-538.	2.6	39
20	Identification of ghrelin in the house musk shrew (Suncus murinus): cDNA cloning, peptide purification and tissue distribution. Peptides, 2009, 30, 982-990.	2.4	39
21	Physiological characteristics of gastric contractions and circadian gastric motility in the free-moving conscious house musk shrew (Suncus murinus). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R1106-R1113.	1.8	38
22	Molecular identification of GHS-R and GPR38 in Suncus murinus. Peptides, 2012, 36, 29-38.	2.4	36
23	Directed evolution of a three-finger neurotoxin by using cDNA display yields antagonists as well as agonists of interleukin-6 receptor signaling. Molecular Brain, 2011, 4, 2.	2.6	35
24	Ghrelin Is an Essential Factor for Motilin-Induced Gastric Contraction in Suncus murinus. Endocrinology, 2015, 156, 4437-4447.	2.8	34
25	Immunocytochemical localization of kisspeptin neurons in the rat forebrain with special reference to sexual dimorphism and interaction with GnRH neurons. Endocrine Journal, 2012, 59, 161-171.	1.6	33
26	Effect of Passive Immunization to Gonadotropin-Releasing Hormone (GnRH) Using GnRH Antiserum on the Mitotic Activity of Gonadotrophs in Castrated Male Rats*. Endocrinology, 1988, 122, 2803-2808.	2.8	32
27	Conversion of growth hormone-secreting cells into prolactin-secreting cells and its promotion by insulin and insulin-like growth factor-1 in vitro. Experimental Cell Research, 1991, 195, 53-58.	2.6	32
28	Characteristic features of ghrelin cells in the gastrointestinal tract and the regulation of stomach ghrelin expression and production. World Journal of Gastroenterology, 2008, 14, 6306.	3.3	32
29	The Glycoproteins That Occur in the Colloids of Senescent Porcine Pituitary Glands Are Clusterin and Glycosylated Albumin Fragments. Biochemical and Biophysical Research Communications, 1997, 234, 712-718.	2.1	30
30	Primary structure, tissue distribution, and biological activity of chicken motilin receptor. General and Comparative Endocrinology, 2008, 156, 509-514.	1.8	30
31	Development of Gonadotropes in the Chicken Embryonic Pituitary Gland. Zoological Science, 2004, 21, 435-444.	0.7	26
32	Identification of immunoreactive plasma and stomach ghrelin, and expression of stomach ghrelin mRNA in the bullfrog, Rana catesbeiana. General and Comparative Endocrinology, 2006, 148, 236-244.	1.8	26
33	Diurnal Change of Thyroidâ€Stimulating Hormone mRNA Expression in the Rat Pars Tuberalis. Journal of Neuroendocrinology, 2007, 19, 839-846.	2.6	26
34	Myenteric neural network activated by motilin in the stomach of Suncus murinus (house musk) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	3.0	26
35	Pituitary folliculo-stellate-like cells stimulate somatotropic pituitary tumor growth in nude mice. Endocrine Pathology, 1995, 6, 67-75.	9.0	25
36	Light and Electron Microscopic Immunocytochemistry of TSH-like Cells Occurring in the Pars tuberalis of the Adult Male Rat Pituitary.. Archives of Histology and Cytology, 1992, 55, 151-157.	0.2	24

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37	Melatonin stimulates thyroid-stimulating hormone accumulation in the thyrotropes of the rat pars tuberalis. Histochemistry and Cell Biology, 2000, 114, 213-218.	1.7	23
38	DNA Introduction into Living Cells by Water Droplet Impact with an Electrospray Process. Angewandte Chemie - International Edition, 2008, 47, 1429-1431.	13.8	23
39	Histochemical Study of Follicles in the Senescent Porcine Pituitary Gland.. Archives of Histology and Cytology, 1996, 59, 467-478.	0.2	22
40	Circadian transcriptional factor DBP regulates expression of Kiss1 in the anteroventral periventricular nucleus. Molecular and Cellular Endocrinology, 2011, 339, 90-97.	3.2	22
41	Negative Regulation of Neuromedin U mRNA Expression in the Rat Pars Tuberalis by Melatonin. PLoS ONE, 2013, 8, e67118.	2.5	22
42	Autoradiographic study of motilin binding sites in the rabbit gastrointestinal tract. Regulatory Peptides, 1994, 53, 249-257.	1.9	21
43	Mechanism of Ghrelin-Induced Gastric Contractions in Suncus murinus (House Musk Shrew): Involvement of Intrinsic Primary Afferent Neurons. PLoS ONE, 2013, 8, e60365.	2.5	21
44	Localization of motilin-immunopositive cells in the rat intestine by light microscopic immunocytochemistry. Peptides, 1994, 15, 987-991.	2.4	20
45	Control of gallbladder contractions by cholecystokinin through cholecystokinin-A receptors in the vagal pathway and gallbladder in the dog. Regulatory Peptides, 1995, 60, 33-46.	1.9	19
46	Immunocytochemical localization of motilin-containing cells in the rabbit gastrointestinal tract. Peptides, 1995, 16, 883-887.	2.4	19
47	Development of Thyroid-Stimulating Hormone Beta Subunit-Producing Cells in the Chicken Embryonic Pituitary Gland. Cells Tissues Organs, 2004, 177, 21-28.	2.3	18
48	Caspase-3 sensitive signaling in vivo in apoptotic HeLa cells by chemically engineered intramolecular fluorescence resonance energy transfer mutants of green fluorescent protein. Biochemical and Biophysical Research Communications, 2005, 330, 454-460.	2.1	18
49	Motilin Stimulates Gastric Acid Secretion in Coordination with Ghrelin in Suncus murinus. PLoS ONE, 2015, 10, e0131554.	2.5	17
50	Simultaneous effect of gonadotropin-releasing hormone (GnRH) on the expression of two gonadotropin Î² genes by passive immunization to GnRH. Molecular and Cellular Endocrinology, 1989, 62, 135-139.	3.2	16
51	Prolactin-Producing Cells Differentiate from G0/G1-Arrested Somatotrophs In Vitro: An Analysis of Cell Cycle Phases and Mammotroph Differentiation.. Endocrine Journal, 1998, 45, 725-735.	1.6	16
52	Development of a vitamin-protein sensor based on carbon nanotube hybrid materials. Applied Physics Letters, 2007, 90, 233106.	3.3	16
53	Chemical Modification of Carbon Nanotube Based Bio-Nanosensor by Plasma Activation. Japanese Journal of Applied Physics, 2008, 47, 2068-2071.	1.5	16
54	Collision of millimetre droplets induces DNA and protein transfection into cells. Scientific Reports, 2012, 2, 289.	3.3	16

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55	Î²-Oxidation in ghrelin-producing cells is important for ghrelin acyl-modification. Scientific Reports, 2018, 8, 9176.	3.3	16
56	Detailed analysis of formation of chicken pituitary primordium in early embryonic development. Cell and Tissue Research, 2008, 333, 417-426.	2.9	15
57	Glutamine and glutamic acid enhance thyroid-stimulating hormone Î² subunit mRNA expression in the rat pars tuberalis. Journal of Endocrinology, 2012, 212, 383-394.	2.6	15
58	A high-throughput direct fluorescence resonance energy transfer-based assay for analyzing apoptotic proteases using flow cytometry and fluorescence lifetime measurements. Analytical Biochemistry, 2015, 491, 10-17.	2.4	15
59	Appearance of prolactin-releasing peptide-producing neurons in the area postrema of adrenalectomized rats. Neuroscience Letters, 2003, 338, 127-130.	2.1	14
60	A Sexually Dimorphic Area of the Dorsal Hypothalamus in Mice and Common Marmosets. Endocrinology, 2016, 157, 4817-4828.	2.8	14
61	Molecular cloning of motilin and mechanism of motilin-induced gastrointestinal motility in Japanese quail. General and Comparative Endocrinology, 2016, 233, 53-62.	1.8	13
62	A comparative study of sex difference in calbindin neurons among mice, musk shrews, and Japanese quails. Neuroscience Letters, 2016, 631, 63-69.	2.1	13
63	Independent differentiation of mammotropes and somatotropes in the chicken embryonic pituitary gland. Histochemistry and Cell Biology, 2006, 125, 429-439.	1.7	12
64	Simple and tunable FÃ¶rster resonance energy transfer-based bioprobes for high-throughput monitoring of caspase-3 activation in living cells by using flow cytometry. Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 215-226.	4.1	11
65	Utility of animal gastrointestinal motility and transit models in functional gastrointestinal disorders. Bailliere's Best Practice and Research in Clinical Gastroenterology, 2019, 40-41, 101633.	2.4	11
66	Direct evidence of gonadotropin-releasing hormone (GnRH)-stimulated nitric oxide production in the L beta T-2 clonal gonadotropes. Pituitary, 1999, 2, 191-196.	2.9	10
67	Hypophyseal corticosteroids stimulate somatotrope differentiation in the embryonic chicken pituitary gland. Histochemistry and Cell Biology, 2008, 129, 357-365.	1.7	10
68	Distribution of enteric neural peptide YY in the dog gastrointestinal tract. Peptides, 1995, 16, 1395-1402.	2.4	9
69	Ghrelin increases intracellular Ca2+ concentration in the various hormone-producing cell types of the rat pituitary gland. Neuroscience Letters, 2012, 526, 29-32.	2.1	9
70	Involvement of Transient Receptor Potential Vanilloid Receptor 1, (TRPV1)-Expressing Vagal Nerve in the Inhibitory Effect of Gastric Acidification on Exogenous Motilin-Induced Gastric Phase III Contractions in Suncus murinus. Digestive Diseases and Sciences, 2016, 61, 1501-1511.	2.3	9
71	Underlying mechanism of the cyclic migrating motor complex inSuncus murinus: a change in gastrointestinal pH is the key regulator. Physiological Reports, 2017, 5, e13105.	1.7	8
72	Circulating messenger for neuroprotection induced by molecular hydrogen. Canadian Journal of Physiology and Pharmacology, 2019, 97, 909-915.	1.4	8

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73	Biotinyl motilin as a biologically active receptor probe. Peptides, 1994, 15, 257-262.	2.4	7
74	Temporal and spatial expression of TGF-?2 in chicken somites during early embryonic development. Journal of Experimental Zoology Part A, Comparative Experimental Biology, 2005, 303A, 323-330.	1.3	7
75	Antagonistic effect of disulfide-rich peptide aptamers selected by cDNA display on interleukin-6-dependent cell proliferation. Biochemical and Biophysical Research Communications, 2012, 421, 129-133.	2.1	7
76	A verification study of gastrointestinal motility-stimulating action of guinea-pig motilin using isolated gastrointestinal strips from rabbits and guinea-pigs. General and Comparative Endocrinology, 2019, 274, 106-112.	1.8	6
77	Promoter activity of sea lamprey proopiocortin and proopiomelanotropin genes in AtT-20/D16v cells. General and Comparative Endocrinology, 2005, 144, 182-187.	1.8	5
78	The effect of glutamate on ghrelin release in mice. Cell Biology International, 2017, 41, 320-327.	3.0	5
79	Detailed morphogenetic analysis of the embryonic chicken pars tuberalis as glycoprotein alpha subunit positive region. Journal of Molecular Histology, 2013, 44, 401-409.	2.2	4
80	Identification of marker genes for pars tuberalis morphogenesis in chick embryo: expression of Cytokine-like 1 and Gap junction protein alpha 5 in pars tuberalis. Cell and Tissue Research, 2016, 366, 721-731.	2.9	4
81	Molecular Cloning of Ghrelin and Characteristics of Ghrelin-Producing Cells in the Gastrointestinal Tract of the Common Marmoset (Callithrix jacchus). Zoological Science, 2016, 33, 497-504.	0.7	4
82	Detailed analysis of the Î´-crystallin mRNA-expressing region in early development of the chick pituitary gland. Journal of Molecular Histology, 2012, 43, 273-280.	2.2	3
83	Regulation of LH/FSH expression by secretoglobin 3A2 in the mouse pituitary gland. Cell and Tissue Research, 2014, 356, 253-260.	2.9	3
84	Macrophage Colony-Stimulating Factor Induces Prolactin Expression in Rat Pituitary Gland. Zoological Science, 2014, 31, 390.	0.7	3
85	Motilin stimulates pepsinogen secretion in Suncus murinus. Biochemical and Biophysical Research Communications, 2015, 462, 263-268.	2.1	3
86	The proximal gastric corpus is the most responsive site of motilin-induced contractions in the stomach of the Asian house shrew. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2016, 186, 665-675.	1.5	3
87	Milk basic protein increases ghrelin secretion and bone mineral density in rodents. Nutrition, 2017, 39-40, 15-19.	2.4	3
88	The important role of ghrelin on gastric contraction in Suncus murinus. Endocrine Journal, 2017, 64, S11-S14.	1.6	3
89	The study of ghrelin secretion and acyl-modification using mice and ghrelinoma cell lines. Endocrine Journal, 2017, 64, S27-S29.	1.6	3
90	GABAergic and glutamatergic neurons in the brain regulate phase II of migrating motor contractions in the <i>Suncus murinus</i>. Journal of Smooth Muscle Research, 2018, 54, 91-99.	1.2	3

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91	Identification and characterization of an antimicrobial peptide, lysozyme, from Suncus murinus. Cell and Tissue Research, 2019, 376, 401-412.	2.9	3
92	Diurnal changes of colonic motility and regulatory factors for colonic motility in Suncus murinus. Neurogastroenterology and Motility, 2022, 34, e14302.	3.0	3
93	Medialbasal hypothalamic deafferentation modulates feeding response to insulin in rats. Physiology and Behavior, 1993, 53, 867-871.	2.1	2
94	Measurement of Contractile Activity in Small Animal's Digestive Organ by Carbon Nanotube-Based Force Transducer. Japanese Journal of Applied Physics, 2011, 50, 030210.	1.5	2
95	Molecular cloning and analysis of Suncus murinus group IIA secretary phospholipase A2 expression. Developmental and Comparative Immunology, 2019, 100, 103427.	2.3	2
96	Adenosine stimulates neuromedin U mRNA expression in the rat pars tuberalis. Molecular and Cellular Endocrinology, 2019, 496, 110518.	3.2	2
97	The suppressive effect of REVERBs on ghrelin and GOAT transcription in gastric ghrelin-producing cells. Neuropeptides, 2021, 90, 102187.	2.2	2
98	Using a Whole-mount Immunohistochemical Method to Study the Innervation of the Biliary Tract in Suncus murinus. Journal of Visualized Experiments, 2017, , .	0.3	1
99	Generation and characterization of Suncus murinus intestinal organoid: a useful tool for studying motilin secretion. Cell Biology International, 2020, 44, 62-69.	3.0	1
100	Measurement of Contractile Activity in Small Animal's Digestive Organ by Carbon Nanotube-Based Force Transducer. Japanese Journal of Applied Physics, 2011, 50, 030210.	1.5	1
101	The inhibitory effect of somatostatin on gastric motility in Suncus murinus. Journal of Smooth Muscle Research, 2020, 56, 69-81.	1.2	1
102	Identification of motilin in Japanese fire bellied newt. General and Comparative Endocrinology, 2022, 323-324, 114031.	1.8	1
103	Molecular cloning of cholecystokinin (CCK) and CCK-A receptor and mechanism of CCK-induced gastrointestinal motility in Suncus murinus. General and Comparative Endocrinology, 2022, 327, 114074.	1.8	1
104	Electrospray Delivery of Insulin Lowers Blood Glucose in Rats. Chemistry Letters, 2015, 44, 1295-1297.	1.3	0
105	Motilin. , 2016, , 186-e21B-2.		0
106	Motilin. , 2021, , 325-328.		0
107	Production and Characterization of an Antiserum against Recombinant Porcine Follicle Stimulating Hormone.. Journal of Reproduction and Development, 2002, 48, 131-136.	1.4	0
108	The role of nesfatin-1 in the regulation of feeding and emesis in <i>Suncus murinus</i> (House Musk Shrew). Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO4-1-31.	0.0	0

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109	The Actions of Centrally Administered Nesfatin-1 on Emesis, Feeding, and Locomotor Activity in Suncus murinus (House Musk Shrew). Frontiers in Pharmacology, 2022, 13, 858522.	3.5	0