Yasutake Shimizu

List of Publications by Year
in descending order

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99 papers	2,427 citations	201674 27 h-index	223800 46 g-index
99 all docs	99 docs citations	99 times ranked	2291 citing authors

#	Article	IF	Citations
1	Endotoxin-induced enhancement of glucose influx into murine peritoneal macrophages via GLUT1. Infection and Immunity, 1996, 64, 108-112.	2.2	172
2	Thymoquinone suppresses expression of inducible nitric oxide synthase in rat macrophages. International Immunopharmacology, 2002, 2, 1603-1611.	3.8	137
3	Mechanisms of the hypoglycaemic and immunopotentiating effects of Nigella sativa L. oil in streptozotocin-induced diabetic hamsters. Research in Veterinary Science, 2004, 77, 123-129.	1.9	116
4	Tachykinins and their functions in the gastrointestinal tract. Cellular and Molecular Life Sciences, 2008, 65, 295-311.	5.4	115
5	Evidence that stimulation of ghrelin receptors in the spinal cord initiates propulsive activity in the colon of the rat. Journal of Physiology, 2006, 576, 329-338.	2.9	106
6	Isulinotropic properties of Nigella sativa oil in Streptozotocin plus Nicotinamide diabetic hamster. Research in Veterinary Science, 2002, 73, 279-282.	1.9	104
7	Sympathetic Activation of Glucose Utilization in Brown Adipose Tissue in Rats1. Journal of Biochemistry, 1991, 110, 688-692.	1.7	71
8	Thymoquinone reduces hepatic glucose production in diabetic hamsters. Research in Veterinary Science, 2005, 79, 219-223.	1.9	71
9	Successful abrogation by thymoquinone against induction of diabetes mellitus with streptozotocin via nitric oxide inhibitory mechanism. International Immunopharmacology, 2005, 5, 195-207.	3.8	64
10	Macrophage-derived cytokine and nitric oxide profiles in type I and type II diabetes mellitus: effect of thymoquinone. Acta Diabetologica, 2005, 42, 23-30.	2.5	56
11	The distribution of intermediate-conductance, calcium-activated, potassium (IK) channels in epithelial cells. Journal of Anatomy, 2006, 208, 219-229.	1.5	52
12	Effects of Wortmannin on Increased Glucose Transport by Insulin and Norepinephrine in Primary Culture of Brown Adipocytes. Biochemical and Biophysical Research Communications, 1994, 202, 660-665.	2.1	48
13	Interleukin-1 increases norepinephrine turnover in the spleen and lung in rats. Biochemical and Biophysical Research Communications, 1990, 173, 1266-1270.	2.1	46
14	Decreased Glucose Transporter (GLUT 4) Content in Insulin-Sensitive Tissues of Obese Aurothioglucose- and Monosodium Glutamate-Treated Mice. Hormone and Metabolic Research, 1993, 25, 462-465.	1.5	46
15	Role of intrinsic nitrergic neurones on vagally mediated striated muscle contractions in the hamster oesophagus. Journal of Physiology, 2003, 551, 287-294.	2.9	44
16	Cold exposure increases glucose utilization and glucose transporter expression in brown adipose tissue. Biochemical and Biophysical Research Communications, 1992, 185, 1078-1082.	2.1	43
17	Functional and in situ hybridization evidence that preganglionic sympathetic vasoconstrictor neurons express ghrelin receptors. Neuroscience, 2010, 166, 671-679.	2.3	42
18	Contrasting effects of ghrelin and des-acyl ghrelin on the lumbo-sacral defecation center and regulation of colorectal motility in rats. Neurogastroenterology and Motility, 2010, 22, 1124-1131.	3.0	41

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19	Synthesis of bostrycoidin via directed lithiation of tertiary nicotinamide. Tetrahedron, 1987, 43, 5281-5286.	1.9	40
20	Chronic Administration of Î²-Adrenergic Agonists Can Mimic the Stimulative Effect of Cold Exposure on Protein Synthesis in Rat Brown Adipose Tissue. Journal of Biochemistry, 1995, 117, 96-100.	1.7	39
21	Oral administration of a centrally acting ghrelin receptor agonist to conscious rats triggers defecation. Neurogastroenterology and Motility, 2009, 21, 71-77.	3.0	38
22	Inhibitory effects of zingerone, a pungent component of Zingiber officinale Roscoe, on colonic motility in rats. Journal of Natural Medicines, 2011, 65, 89-94.	2.3	37
23	Sensitivity of the olfactory sense declines with the aging in senescence-accelerated mouse (SAM-P1). Physiology and Behavior, 2000, 70, 135-139.	2.1	35
24	Involvement of TRPV1-dependent and -independent components in the regulation of vagally induced contractions in the mouse esophagus. European Journal of Pharmacology, 2007, 556, 157-165.	3.5	35
25	Hibernation-specific alternative splicing of the mRNA encoding cold-inducible RNA-binding protein in the hearts of hamsters. Biochemical and Biophysical Research Communications, 2015, 462, 322-325.	2.1	31
26	Treatment resistant chronic psychopathology and CT scans in schizophrenia. Acta Psychiatrica Scandinavica, 1987, 75, 415-427.	4.5	30
27	Dexamethasone Induces the GLUT4 Glucose Transporter, and Responses of Glucose Transport to Norepinephrine and Insulin in Primary Cultures of Brown Adipocytes1. Journal of Biochemistry, 1994, 115, 1069-1074.	1.7	29
28	Possible Involvement of Undissociated Acid Molecules in the Acid Response of the Chorda Tympani Nerve of the Rat. Journal of Neurophysiology, 2000, 83, 2776-2779.	1.8	28
29	Possible role of the sympathetic nervous system in responses to interleukin-1. Brain Research Bulletin, 1991, 27, 305-308.	3.0	27
30	A Comparative Histological Study on the Distribution of Striated and Smooth Muscles and Glands in the Esophagus of Wild Birds and Mammals. Journal of Veterinary Medical Science, 2005, 67, 115-117.	0.9	26
31	Tachykinins are involved in local reflex modulation of vagally mediated striated muscle contractions in the rat esophagus via tachykinin NK1 receptors. Neuroscience, 2006, 139, 495-503.	2.3	26
32	Stimulation of dopamine D2â€like receptors in the lumbosacral defaecation centre causes propulsive colorectal contractions in rats. Journal of Physiology, 2016, 594, 4339-4350.	2.9	26
33	Extract of grains of paradise and its active principle 6-paradol trigger thermogenesis of brown adipose tissue in rats. Autonomic Neuroscience: Basic and Clinical, 2011, 161, 63-67.	2.8	24
34	Inclusion bodies in cerebral cortical astrocytes: a new change of astrocytes. Acta Neuropathologica, 1992, 84, 113-116.	7.7	23
35	Expression of Â3-Adrenoceptor and Stimulation of Glucose Transport by Â3-Agonists in Brown Adipocyte Primary Culture. Journal of Biochemistry, 1996, 119, 120-125.	1.7	23
36	Capsaicin pretreatment attenuates LPS-induced hypothermia through TRPV1-independent mechanisms in chicken. Life Sciences, 2008, 82, 1191-1195.	4.3	23

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37	Colokinetic effect of noradrenaline in the spinal defecation center: implication for motility disorders. Scientific Reports, 2015, 5, 12623.	3.3	23
38	Galanin modulates vagally induced contractions in the mouse oesophagus. Neurogastroenterology and Motility, 2009, 21, 180-188.	3.0	22
39	Thyroid Hormone Augments GLUT4 Expression and Insulin-Sensitive Glucose Transport System in Differentiating Rat Brown Adipocytes in Culture.. Journal of Veterinary Medical Science, 2002, 64, 677-681.	0.9	21
40	Central A1-receptor activation associated with onset of torpor protects the heart against low temperature in the Syrian hamster. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 295, R991-R996.	1.8	21
41	Enhanced Responses of the Chorda Tympani Nerve to Sugars in the Ventromedial Hypothalamic Obese Rat. Journal of Neurophysiology, 2003, 90, 128-133.	1.8	17
42	Neurally released ATP mediates endothelium-dependent hyperpolarization in the circular smooth muscle cells of chicken anterior mesenteric artery. British Journal of Pharmacology, 2005, 146, 983-989.	5.4	17
43	Exogenous serotonin regulates colorectal motility via the 5â€‹scp›HT‹/scp›‹sub›2‹/sub› and 5â€‹scp›HT‹/scp›‹sub›3‹/sub› receptors in the spinal cord of rats. Neurogastroenterology and Motility, 2018, 30, e13183.	3.0	16
44	NANC inhibitory neuromuscular transmission in the hamster distal colon. Pharmacological Research, 2006, 54, 452-460.	7.1	15
45	Characterization of ghrelinâ€‹sensitive neurons in the lumbosacral defecation center in rats. Neurogastroenterology and Motility, 2015, 27, 147-155.	3.0	15
46	Medullary raphe nuclei activate the lumbosacral defecation center through the descending serotonergic pathway to regulate colorectal motility in rats. American Journal of Physiology - Renal Physiology, 2018, 314, G341-G348.	3.4	15
47	Descending monoaminergic pathways projecting to the spinal defecation center enhance colorectal motility in rats. American Journal of Physiology - Renal Physiology, 2018, 315, G631-G637.	3.4	15
48	Tachykinins mediate non-adrenergic, non-cholinergic excitatory neurotransmission to the hamster ileum via NK1 and NK2 receptors. Life Sciences, 2003, 73, 1939-1951.	4.3	14
49	Nitrergic Prejunctional Inhibition of Purinergic Neuromuscular Transmission in the Hamster Proximal Colon. Journal of Neurophysiology, 2003, 89, 2346-2353.	1.8	14
50	Involvement of a capsaicin-sensitive TRPV1-independent mechanism in lipopolysaccharide-induced fever in chickens. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 148, 578-583.	1.8	13
51	Relationship between taste-induced physiological reflexes and temperature of sweet taste. Physiology and Behavior, 2008, 93, 1000-1004.	2.1	13
52	Extract from Calotropis procera latex activates murine macrophages. Journal of Natural Medicines, 2009, 63, 297-303.	2.3	13
53	Functional roles of capsaicin-sensitive intrinsic neural circuit in the regulation of esophageal peristalsis in rats: in vivo studies using a novel method. American Journal of Physiology - Renal Physiology, 2014, 306, G811-G818.	3.4	13
54	Sexually dimorphic response of colorectal motility to noxious stimuli in the colorectum in rats. Journal of Physiology, 2021, 599, 1421-1437.	2.9	13

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55	An electrophysiological study of excitatory purinergic neuromuscular transmission in longitudinal smooth muscle of chicken anterior mesenteric artery. British Journal of Pharmacology, 2005, 144, 830-839.	5.4	11
56	Intraluminal administration of zingerol, a non-pungent analogue of zingerone, inhibits colonic motility in rats. Biomedical Research, 2011, 32, 181-185.	0.9	11
57	The Mechanism Enabling Hibernation in Mammals. Advances in Experimental Medicine and Biology, 2018, 1081, 45-60.	1.6	11
58	Roles of the noradrenergic nucleus locus coeruleus and dopaminergic nucleus A11 region as supraspinal defecation centers in rats. American Journal of Physiology - Renal Physiology, 2019, 317, G545-G555.	3.4	11
59	Neural regulation of esophageal striated muscle in the house musk shrew (Suncus murinus). Autonomic Neuroscience: Basic and Clinical, 2012, 168, 25-31.	2.8	10
60	Induction of hibernation-like hypothermia by central activation of the A1 adenosine receptor in a non-hibernator, the rat. Journal of Physiological Sciences, 2018, 68, 425-430.	2.1	10
61	Temperature-Dependent Alternative Splicing of Precursor mRNAs and Its Biological Significance: A Review Focused on Post-Transcriptional Regulation of a Cold Shock Protein Gene in Hibernating Mammals. International Journal of Molecular Sciences, 2020, 21, 7599.	4.1	10
62	Colokinetic effect of somatostatin in the spinal defecation center in rats. Journal of Physiological Sciences, 2018, 68, 243-251.	2.1	9
63	Role of hydrophobic amino acids in gurmarin, a sweetness-suppressing polypeptide. Biopolymers, 1998, 45, 231-238.	2.4	8
64	Key Role of Mucosal Primary Afferents in Mediating the Inhibitory Influence of Capsaicin on Vagally Mediated Contractions in the Mouse Esophagus. Journal of Veterinary Medical Science, 2007, 69, 365-372.	0.9	8
65	Hypothermia induces changes in the alternative splicing pattern of cold-inducible RNA-binding protein transcripts in a non-hibernator, the mouse. Biomedical Research, 2019, 40, 153-161.	0.9	8
66	Serotoninâ€induced contractile responses of esophageal smooth muscle in the house musk shrew (Suncus murinus). Neurogastroenterology and Motility, 2016, 28, 1641-1648.	3.0	7
67	Mild hypothermia causes a shift in the alternative splicing of cold-inducible RNA-binding protein transcripts in Syrian hamsters. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2019, 317, R240-R247.	1.8	7
68	Successful induction of deep hypothermia by isoflurane anesthesia and cooling in a non-hibernator, the rat. Journal of Physiological Sciences, 2021, 71, 10.	2.1	7
69	A neurophysiological evidence of capsaicin-sensitive nerve components innervating interscapular brown adipose tissue. Autonomic Neuroscience: Basic and Clinical, 2005, 119, 16-24.	2.8	6
70	Effects of NMDA receptor antagonists on visceromotor reflexes and on intestinal motility, in vivo. Neurogastroenterology and Motility, 2007, 19, 617-624.	3.0	6
71	Contractile Properties of Esophageal Striated Muscle: Comparison with Cardiac and Skeletal Muscles in Rats. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-7.	3.0	6
72	Capsaicin inhibits IFN-Î³-induced MHC class II expression by suppressing transcription of class II transactivator gene in murine peritoneal macrophages. International Immunopharmacology, 2010, 10, 86-90.	3.8	6

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73	Synthesis, characterization, and sweetness-suppressing activities of gurmarin analogues missing one disulfide bond. Biopolymers, 1998, 46, 65-73.	2.4	5
74	Effects of acids on neural activity elicited by other taste stimuli in the rat chorda tympani. Brain Research, 2000, 859, 369-372.	2.2	5
75	P2X purinoceptors mediate an endotheliumâ€dependent hyperpolarization in longitudinal smooth muscle of anterior mesenteric artery in young chickens. British Journal of Pharmacology, 2009, 158, 888-895.	5.4	5
76	The neural regulation of the mammalian esophageal motility and its implication for esophageal diseases. Pathophysiology, 2010, 17, 129-133.	2.2	5
77	Actions of Probiotics on Trinitrobenzenesulfonic Acid-Induced Colitis in Rats. BioMed Research International, 2015, 2015, 1-8.	1.9	5
78	Expression of the G protein-coupled receptor (GPR) 37 and GPR37L1 in the mouse digestive system. Journal of Veterinary Medical Science, 2021, 83, 1-8.	0.9	5
79	Purinergic control of the quail rectum: Modulation of adenosine 5â€²-triphosphate-mediated contraction with acetylcholine. Research in Veterinary Science, 2007, 82, 246-251.	1.9	4
80	Alteration of neuromuscular transmissions in the hamster colon following the resolution of TNBS-induced colitis. Journal of Physiological Sciences, 2013, 63, 241-249.	2.1	4
81	Histamineâ€enhanced contractile responses of gastric smooth muscle via interstitial cells of Cajal in the Syrian hamster. Neurogastroenterology and Motility, 2018, 30, e13255.	3.0	4
82	Contribution of sex hormones to the sexually dimorphic response of colorectal motility to noxious stimuli in rats. American Journal of Physiology - Renal Physiology, 2022, 323, G1-G8.	3.4	4
83	Extension of Time until Cardiac Arrest after Injection of a Lethal Dose of Pentobarbital in the Hibernating Syrian Hamster. Journal of Veterinary Medical Science, 2009, 71, 383-385.	0.9	3
84	Contractile responses induced by physalaemin, an analogue of substance P, in the rat esophagus. European Journal of Pharmacology, 2010, 628, 202-206.	3.5	3
85	Inhibitory action of hydrogen sulfide on esophageal striated muscle motility in rats. European Journal of Pharmacology, 2016, 771, 123-129.	3.5	3
86	NeuN immunoreactivity in the brain of Xenopus laevis. Tissue and Cell, 2017, 49, 514-519.	2.2	3
87	Postnatal development of excitatory innervations in longitudinal smooth muscle of the chicken anterior mesenteric artery. Life Sciences, 2011, 88, 400-405.	4.3	2
88	Inhibitory actions of a local neural reflex on propulsive activity of the esophageal striated muscle portion in rats. Research in Veterinary Science, 2013, 94, 331-335.	1.9	2
89	ATP-dependent potassium channels contribute to motor regulation of esophageal striated muscle in rats. Journal of Veterinary Medical Science, 2019, 81, 1266-1272.	0.9	2
90	Postnatal changes in vagal control of esophageal muscle contractions in rats. Life Sciences, 2012, 90, 495-501.	4.3	1

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91	Regulation of longitudinal esophageal motility in the house musk shrew (Suncus murinus). Autonomic Neuroscience: Basic and Clinical, 2015, 189, 37-42.	2.8	1
92	Does the capsaicin-sensitive local neural circuit constitutively regulate vagally evoked esophageal striated muscle contraction in rats?. Journal of Physiological Sciences, 2016, 66, 105-111.	2.1	1
93	Local regulatory mechanism to coordinate colorectal motility in rats. Physiological Reports, 2018, 6, e13710.	1.7	1
94	Characterization of peristaltic motility in the striated muscle portion of the esophagus using a novel in vivo method in rats. Neurogastroenterology and Motility, 2019, 31, e13518.	3.0	1
95	Î±-MSH-induced activation of spinal MC1R but not MC4R enhances colorectal motility in anaesthetised rats. Scientific Reports, 2021, 11, 487.	3.3	1
96	Intrathecally administered substance P activated the spinal defecation center and enhanced colorectal motility in anesthetized rats. American Journal of Physiology - Renal Physiology, 2022, , .	3.4	1
97	Autonomic Control of Circulation in Hibernating Mammals ï¼šSympathetic Perivascular Nerve and Endotheliumï¼: Japanese Journal of Zoo and Wildlife Medicine, 2002, 7, 61-68.	0.2	0
98	Development of longitudinal smooth muscle in the posterior mesenteric artery and purinergic regulation of its contractile responses in chickens. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2013, 199, 857-865.	1.6	0
99	<i>Suncus murinus</i> as a novel model animal that is suitable for elucidating the mechanism of daily torpor. Biomedical Research, 2022, 43, 53-57.	0.9	0