

Tomoyuki Kuwaki

List of Publications by Year in descending order

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67
papers

4,127
citations

172457

29
h-index

114465

63
g-index

68
all docs

68
docs citations

68
times ranked

3450
citing authors

#	ARTICLE	IF	CITATIONS
1	Elevated blood pressure and craniofacial abnormalities in mice deficient in endothelin-1. <i>Nature</i> , 1994, 368, 703-710.	27.8	997
2	From The Cover: Dysregulation of TGF- β 1 receptor activation leads to abnormal lung development and emphysema-like phenotype in core fucose-deficient mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 15791-15796.	7.1	413
3	Attenuated defense response and low basal blood pressure in orexin knockout mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2003, 285, R581-R593.	1.8	285
4	TRPA1 underlies a sensing mechanism for O ₂ . <i>Nature Chemical Biology</i> , 2011, 7, 701-711.	8.0	235
5	Elevated Sympathetic Nervous Activity in Mice Deficient in $\hat{\pm}$ CGRP. <i>Circulation Research</i> , 2001, 89, 983-990.	4.5	151
6	Persistent pain and stress activate pain-inhibitory orexin pathways. <i>NeuroReport</i> , 2005, 16, 5-8.	1.2	143
7	Vigilance state-dependent attenuation of hypercapnic chemoreflex and exaggerated sleep apnea in orexin knockout mice. <i>Journal of Applied Physiology</i> , 2007, 102, 241-248.	2.5	140
8	Orexin neurons are indispensable for stress-induced thermogenesis in mice. <i>Journal of Physiology</i> , 2010, 588, 4117-4129.	2.9	107
9	Contribution of orexin in hypercapnic chemoreflex: evidence from genetic and pharmacological disruption and supplementation studies in mice. <i>Journal of Applied Physiology</i> , 2007, 103, 1772-1779.	2.5	103
10	Orexin neuron-mediated skeletal muscle vasodilation and shift of baroreflex during defense response in mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R1654-R1663.	1.8	95
11	Respiratory and cardiovascular actions of orexin-A in mice. <i>Neuroscience Letters</i> , 2005, 385, 131-136.	2.1	87
12	CO ₂ activates orexin-containing neurons in mice. <i>Respiratory Physiology and Neurobiology</i> , 2009, 166, 184-186.	1.6	84
13	Orexin links emotional stress to autonomic functions. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2011, 161, 20-27.	2.8	81
14	Ventilatory long-term facilitation in mice can be observed during both sleep and wake periods and depends on orexin. <i>Journal of Applied Physiology</i> , 2008, 104, 499-507.	2.5	79
15	Orexinergic modulation of breathing across vigilance states. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 204-212.	1.6	72
16	Orexin neurons in the hypothalamus mediate cardiorespiratory responses induced by disinhibition of the amygdala and bed nucleus of the stria terminalis. <i>Brain Research</i> , 2009, 1262, 25-37.	2.2	70
17	Sleep apnea and effect of chemostimulation on breathing instability in mice. <i>Journal of Applied Physiology</i> , 2003, 94, 525-532.	2.5	65
18	Linalool Odor-Induced Anxiolytic Effects in Mice. <i>Frontiers in Behavioral Neuroscience</i> , 2018, 12, 241.	2.0	64

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19	Renal sympathetic nerve activity in mice: comparison between mice and rats and between normal and endothelin-1 deficient mice. <i>Brain Research</i> , 1998, 808, 238-249.	2.2	51
20	Multiple components of the defense response depend on orexin: Evidence from orexin knockout mice and orexin neuron-ablated mice. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2006, 126-127, 139-145.	2.8	51
21	Sympatho-Inhibitory Action of Endogenous Adrenomedullin Through Inhibition of Oxidative Stress in the Brain. <i>Hypertension</i> , 2005, 45, 1165-1172.	2.7	42
22	Orexin neurons as arousal-associated modulators of central cardiorespiratory regulation. <i>Respiratory Physiology and Neurobiology</i> , 2010, 174, 43-54.	1.6	41
23	Emotional and state-dependent modification of cardiorespiratory function: Role of orexinergic neurons. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2008, 142, 11-16.	2.8	39
24	Differential Central Modulation of the Baroreflex by Salt Loading in Normotensive and Spontaneously Hypertensive Rats. <i>Hypertension</i> , 1997, 29, 808-814.	2.7	39
25	Orexin and Central Modulation of Cardiovascular and Respiratory Function. <i>Current Topics in Behavioral Neurosciences</i> , 2016, 33, 157-196.	1.7	37
26	Orexin neurons are indispensable for prostaglandin E ₂ -induced fever and defence against environmental cooling in mice. <i>Journal of Physiology</i> , 2013, 591, 5623-5643.	2.9	36
27	Thermoregulation under pressure: a role for orexin neurons. <i>Temperature</i> , 2015, 2, 379-391.	3.0	36
28	Odour-induced analgesia mediated by hypothalamic orexin neurons in mice. <i>Scientific Reports</i> , 2016, 6, 37129.	3.3	34
29	Hypothalamic Modulation of Breathing. <i>Advances in Experimental Medicine and Biology</i> , 2010, 669, 243-247.	1.6	29
30	Modulatory effects of rat endothelin on central cardiovascular control in rats.. <i>The Japanese Journal of Physiology</i> , 1990, 40, 97-116.	0.9	29
31	Acute Aversive Stimuli Rapidly Increase the Activity of Ventral Tegmental Area Dopamine Neurons in Awake Mice. <i>Neuroscience</i> , 2018, 386, 16-23.	2.3	28
32	Modulatory effects of endothelin-1 on central cardiovascular control in rats.. <i>The Japanese Journal of Physiology</i> , 1990, 40, 827-841.	0.9	25
33	Involvement of orexin neurons in fasting- and central adenosine-induced hypothermia. <i>Scientific Reports</i> , 2018, 8, 2717.	3.3	24
34	Attenuated phrenic long-term facilitation in orexin neuron-ablated mice. <i>Respiratory Physiology and Neurobiology</i> , 2009, 168, 295-302.	1.6	22
35	Orexin Neurons and Emotional Stress. <i>Vitamins and Hormones</i> , 2012, 89, 135-158.	1.7	20
36	TRPA1 detects environmental chemicals and induces avoidance behavior and arousal from sleep. <i>Scientific Reports</i> , 2013, 3, 3100.	3.3	20

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37	Orexin (hypocretin) participates in central autonomic regulation during fight-or-flight response. <i>Peptides</i> , 2021, 139, 170530.	2.4	19
38	Endothelin-sensitive areas in the ventral surface of the rat medulla. <i>Journal of the Autonomic Nervous System</i> , 1991, 36, 149-158.	1.9	18
39	The integrated ultradian organization of behavior and physiology in mice and the contribution of orexin to the ultradian patterning. <i>Neuroscience</i> , 2016, 334, 119-133.	2.3	16
40	Inactivation of Serotonergic Neurons in the Rostral Medullary Raphe Attenuates Stress-Induced Tachypnea and Tachycardia in Mice. <i>Frontiers in Physiology</i> , 2018, 9, 832.	2.8	16
41	Intermittent but not sustained hypoxia activates orexin-containing neurons in mice. <i>Respiratory Physiology and Neurobiology</i> , 2015, 206, 11-14.	1.6	14
42	Acute nociceptive stimuli rapidly induce the activity of serotonin and noradrenalin neurons in the brain stem of awake mice. <i>IBRO Reports</i> , 2019, 7, 1-9.	0.3	13
43	Aversive emotion rapidly activates orexin neurons and increases heart rate in freely moving mice. <i>Molecular Brain</i> , 2021, 14, 104.	2.6	13
44	Nasal TRPA1 mediates irritant-induced bradypnea in mice. <i>Physiological Reports</i> , 2016, 4, e13098.	1.7	12
45	The Impact of Hypothermia on Emergence from Isoflurane Anesthesia in Orexin Neuron-Ablated Mice. <i>Anesthesia and Analgesia</i> , 2013, 116, 1001-1005.	2.2	10
46	Involvement of the Nucleus Accumbens in Chocolate-induced Cataplexy. <i>Scientific Reports</i> , 2020, 10, 4958.	3.3	10
47	Involvement of A13 dopaminergic neurons located in the zona incerta in nociceptive processing: a fiber photometry study. <i>Molecular Brain</i> , 2020, 13, 60.	2.6	10
48	Orexinergic descending inhibitory pathway mediates linalool odor-induced analgesia in mice. <i>Scientific Reports</i> , 2021, 11, 9224.	3.3	10
49	Transcriptomic Evaluation of Pulmonary Fibrosis-Related Genes: Utilization of Transgenic Mice with Modifying p38 Signal in the Lungs. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6746.	4.1	9
50	Linalool odor-induced analgesia is triggered by TRPA1-independent pathway in mice. <i>Behavioral and Brain Functions</i> , 2021, 17, 3.	3.3	9
51	Sexual excitation induces courtship ultrasonic vocalizations and cataplexy-like behavior in orexin neuron-ablated male mice. <i>Communications Biology</i> , 2021, 4, 165.	4.4	8
52	Responses of Blood Pressure and Catecholamine Metabolism to High Salt Loading in Endothelin-1 Knockout Mice. <i>Hypertension Research</i> , 1999, 22, 11-16.	2.7	8
53	Orexin Receptor Blockade-Induced Sleep Preserves the Ability to Wake in the Presence of Threat in Mice. <i>Frontiers in Behavioral Neuroscience</i> , 2019, 12, 327.	2.0	7
54	Transient Receptor Potential Ankyrin 1 Mediates Hypoxic Responses in Mice. <i>Frontiers in Physiology</i> , 2020, 11, 576209.	2.8	7

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55	Activity of putative orexin neurons during cataplexy. <i>Molecular Brain</i> , 2022, 15, 21.	2.6	7
56	Involvement of suprallemniscal nucleus (B9) 5-HT neuronal system in nociceptive processing: a fiber photometry study. <i>Molecular Brain</i> , 2020, 13, 14.	2.6	6
57	Possible participation of extracellular calcium-sensing receptor in blood pressure regulation in rats. <i>Brain Research</i> , 2011, 1367, 181-187.	2.2	5
58	Application of calibrated forceps for assessing mechanical nociception with high time resolution in mice. <i>PLoS ONE</i> , 2017, 12, e0172461.	2.5	5
59	Sleep apnea in mice: a useful animal model for study of SIDS?. <i>Pathophysiology</i> , 2004, 10, 253-257.	2.2	4
60	A13 dopamine cell group in the zona incerta is a key neuronal nucleus in nociceptive processing. <i>Neural Regeneration Research</i> , 2021, 16, 1415.	3.0	4
61	Involvement of A5/A7 noradrenergic neurons and B2 serotonergic neurons in nociceptive processing: a fiber photometry study. <i>Neural Regeneration Research</i> , 2022, 17, 881.	3.0	4
62	Vagal afferent activation induces salivation and swallowing-like events in anesthetized rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 311, R964-R970.	1.8	3
63	A key role of orexin (hypocretin) neurons in the fight-or-flight response. , 2011, , 15-17.		2
64	Multifaceted roles of orexin neurons in mediating methamphetamine-induced changes in body temperature and heart rate. <i>IBRO Neuroscience Reports</i> , 2022, 12, 108-120.	1.6	2
65	Lack of handling stress-induced hyperthermia in orexin neuron-ablated mice. <i>FASEB Journal</i> , 2009, 23, 788.18.	0.5	1
66	Role of orexin neurons in prostaglandin E2-induced fever and the defense against environmental cooling. <i>FASEB Journal</i> , 2012, 26, 891.2.	0.5	1
67	Avoidance of environmental gas irritants mediated by TRPA1. <i>FASEB Journal</i> , 2013, 27, 1124.2.	0.5	0