Kazuhiko Kume

List of Publications by Year
in descending order

120	10,123	81743	35952
papers	citations	39 h-index	97 g-index

132	132	132	9979
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	mCRY1 and mCRY2 Are Essential Components of the Negative Limb of the Circadian Clock Feedback Loop. Cell, 1999, 98, 193-205.	13.5	1,445
2	Interacting Molecular Loops in the Mammalian Circadian Clock. Science, 2000, 288, 1013-1019.	6.0	1,223
3	Role of cytosolic phospholipase A2 in allergic response and parturition. Nature, 1997, 390, 618-622.	13.7	691
4	Dopamine Is a Regulator of Arousal in the Fruit Fly. Journal of Neuroscience, 2005, 25, 7377-7384.	1.7	502
5	High-frequency transformation method and library transducing vectors for cloning mammalian cDNAs bytrans-complementation ofSchizosaccharomyces pombe. Nucleic Acids Research, 1990, 18, 6485-6489.	6.5	471
6	Methionine Metabolism Regulates Maintenance and Differentiation of Human Pluripotent Stem Cells. Cell Metabolism, 2014, 19, 780-794.	7.2	421
7	Acute lung injury by sepsis and acid aspiration: a key role for cytosolic phospholipase A2. Nature Immunology, 2000, 1, 42-46.	7.0	294
8	Identification of a dopamine pathway that regulates sleep and arousal in Drosophila. Nature Neuroscience, 2012, 15, 1516-1523.	7.1	281
9	Forward-genetics analysis of sleep in randomly mutagenized mice. Nature, 2016, 539, 378-383.	13.7	266
10	Impaired Anaphylactic Responses with Intact Sensitivity to Endotoxin in Mice Lacking a Platelet-activating Factor Receptor. Journal of Experimental Medicine, 1998, 187, 1779-1788.	4.2	261
11	Behavioral consequences of dopamine deficiency in the Drosophila central nervous system. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 834-839.	3.3	220
12	Drosophila Fragile X Protein, DFXR, Regulates Neuronal Morphology and Function in the Brain. Neuron, 2002, 34, 961-972.	3.8	215
13	Critical Duration of Intracellular Ca2+ Response Required for Continuous Translocation and Activation of Cytosolic Phospholipase A2. Journal of Biological Chemistry, 1999, 274, 5163-5169.	1.6	161
14	Gender Dimorphism in the Role of cycle (BMAL1) in Rest, Rest Regulation, and Longevity in Drosophila melanogaster. Journal of Biological Rhythms, 2003, 18, 12-25.	1.4	161
15	Cytosolic Phospholipase A2Î±â€“deficient Mice Are Resistant to Collagen-induced Arthritis. Journal of Experimental Medicine, 2003, 197, 1297-1302.	4.2	144
16	The Nutrient-Responsive Hormone CCHamide-2 Controls Growth by Regulating Insulin-like Peptides in the Brain of Drosophila melanogaster. PLoS Genetics, 2015, 11, e1005209.	1.5	143
17	Bronchial hyperreactivity, increased endotoxin lethality and melanocytic tumorigenesis in transgenic mice overexpressing platelet-activating factor receptor. EMBO Journal, 1997, 16, 133-142.	3.5	132
18	Platelet-activating factor mediates acid-induced lung injury in genetically engineered mice. Journal of Clinical Investigation, 1999, 104, 1071-1076.	3.9	112

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19	Differentiation of mouse and human embryonic stem cells into hepatic lineages. Genes To Cells, 2008, 13, 731-746.	0.5	103
20	Predominant Expression of Platelet-Activating Factor Receptor in the Rat Brain Microglia. Journal of Neuroscience, 1996, 16, 3590-3600.	1.7	102
21	Guided Differentiation of Embryonic Stem Cells into Pdx1-Expressing Regional-Specific Definitive Endoderm. Stem Cells, 2008, 26, 874-885.	1.4	96
22	Functional Analysis of a Canalicular Multispecific Organic Anion Transporter Cloned from Rat Liver. Journal of Biological Chemistry, 1998, 273, 1684-1688.	1.6	93
23	Wnt and Notch Signals Guide Embryonic Stem Cell Differentiation into the Intestinal Lineages. Stem Cells, 2013, 31, 1086-1096.	1.4	86
24	Enhanced expression of PDX-1 and Ngn3 by exendin-4 during Î² cell regeneration in STZ-treated mice. Biochemical and Biophysical Research Communications, 2005, 327, 1170-1178.	1.0	84
25	Wortmannin Inhibits Mitogen-activated Protein Kinase Activation by Platelet-activating Factor through a Mechanism Independent of p85/p110-type Phosphatidylinositol 3-Kinase. Journal of Biological Chemistry, 1996, 271, 11684-11688.	1.6	78
26	cDNA Cloning, Expression, and Mutagenesis Study of Leukotriene B4 12-Hydroxydehydrogenase. Journal of Biological Chemistry, 1996, 271, 2844-2850.	1.6	73
27	Synthesized basement membranes direct the differentiation of mouse embryonic stem cells into pancreatic lineages. Journal of Cell Science, 2010, 123, 2733-2742.	1.2	64
28	VMAT2 identified as a regulator of late-stage Î²-cell differentiation. Nature Chemical Biology, 2014, 10, 141-148.	3.9	63
29	Interaction between neurone and microglia mediated by platelet-activating factor. Genes To Cells, 2000, 5, 397-406.	0.5	62
30	Generation of insulin-producing Î²-like cells from human iPS cells in a defined and completely xeno-free culture system. Journal of Molecular Cell Biology, 2014, 6, 394-408.	1.5	62
31	cDNA Cloning and Expression of Murine 1-Acyl-sn-glycerol-3-phosphate Acyltransferase. Biochemical and Biophysical Research Communications, 1997, 237, 663-666.	1.0	59
32	The NMDA Receptor Promotes Sleep in the Fruit Fly, Drosophila melanogaster. PLoS ONE, 2015, 10, e0128101.	1.1	59
33	Identification of the novel bioactive peptides dRYamide-1 and dRYamide-2, ligands for a neuropeptide Y-like receptor in Drosophila. Biochemical and Biophysical Research Communications, 2011, 410, 872-877.	1.0	55
34	Genes and neural circuits for sleep of the fruit fly. Neuroscience Research, 2017, 118, 82-91.	1.0	54
35	Expression of lysophosphatidic acid receptor in rat astrocytes: mitogenic effect and expression of neurotrophic genes. Neurochemical Research, 2000, 25, 573-582.	1.6	52
36	A murine platelet-activating factor receptor gene: cloning, chromosomal localization and up-regulation of expression by lipopolysaccharide in peritoneal resident macrophages. Biochemical Journal, 1996, 314, 671-678.	1.7	50

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37	Dopamine Modulates Metabolic Rate and Temperature Sensitivity in Drosophila melanogaster. PLoS ONE, 2012, 7, e31513.	1.1	49
38	Efficient Differentiation of Embryonic Stem Cells into Hepatic Cells In Vitro Using a Feeder-Free Basement Membrane Substratum. PLoS ONE, 2011, 6, e24228.	1.1	48
39	Calcineurin and Its Regulator Sra/DSCR1 Are Essential for Sleep inDrosophila. Journal of Neuroscience, 2011, 31, 12759-12766.	1.7	48
40	Isolation of the bioactive peptides CCHamide-1 and CCHamide-2 from Drosophila and their putative role in appetite regulation as ligands for G protein-coupled receptors. Frontiers in Endocrinology, 2012, 3, 177.	1.5	46
41	Pan-Neuronal Knockdown of Calcineurin Reduces Sleep in the Fruit Fly,Drosophila melanogaster. Journal of Neuroscience, 2011, 31, 13137-13146.	1.7	44
42	Role of microglia in mechanical allodynia in the anterior cingulate cortex. Journal of Pharmacological Sciences, 2017, 134, 158-165.	1.1	42
43	A longitudinal large-scale objective sleep data analysis revealed a seasonal sleep variation in the Japanese population. Chronobiology International, 2018, 35, 933-945.	0.9	40
44	Expression patterns of epiplakin1 in pancreas, pancreatic cancer and regenerating pancreas. Genes To Cells, 2008, 13, 667-678.	0.5	39
45	Role of cytosolic phospholipase A2 in the production of lipid mediators and histamine release in mouse bone-marrow-derived mast cells. Biochemical Journal, 2000, 352, 311-317.	1.7	39
46	A polymorphism in CCR1/CCR3 is associated with narcolepsy. Brain, Behavior, and Immunity, 2015, 49, 148-155.	2.0	38
47	Platelet-activating factor receptor is not required for long-term potentiation in the hippocampal CA1 region. European Journal of Neuroscience, 1999, 11, 1313-1316.	1.2	37
48	Identification of the endogenous cysteine-rich peptide trissin, a ligand for an orphan G protein-coupled receptor in Drosophila. Biochemical and Biophysical Research Communications, 2011, 414, 44-48.	1.0	36
49	Cellular and molecular mechanisms of circadian control in insects. Journal of Insect Physiology, 2001, 47, 833-842.	0.9	35
50	Functional characterization of dopamine transporter in vivo using Drosophila melanogaster behavioral assays. Frontiers in Behavioral Neuroscience, 2014, 8, 303.	1.0	35
51	Dopamine Modulates the Rest Period Length without Perturbation of Its Power Law Distribution in Drosophila melanogaster. PLoS ONE, 2012, 7, e32007.	1.1	35
52	Platelet-activating Factor (PAF) Induces Growth Stimulation, Inhibition, and Suppression of Oncogenic Transformation in NRK Cells Overexpressing the PAF Receptor. Journal of Biological Chemistry, 1997, 272, 22898-22904.	1.6	34
53	Monitoring of Weekly Sleep Pattern Variations at Home with a Contactless Biomotion Sensor. Sensors, 2015, 15, 18950-18964.	2.1	33
54	Astrocyteâ€neuron lactate shuttle sensitizes nociceptive transmission in the spinal cord. Glia, 2019, 67, 27-36.	2.5	32

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55	Differentiation and characterization of embryonic stem cells into three germ layers. Biochemical and Biophysical Research Communications, 2009, 381, 694-699.	1.0	31
56	High calorie diet augments age-associats sleep impairment in Drosophila. Biochemical and Biophysical Research Communications, 2012, 417, 812-816.	1.0	31
57	A synthetic nanofibrillar matrix promotes in vitro hepatic differentiation of embryonic stem cells and induced pluripotent stem cells. Journal of Cell Science, 2013, 126, 5391-9.	1.2	31
58	Pan-neuronal knockdown of the c-Jun N-terminal Kinase (JNK) results in a reduction in sleep and longevity in Drosophila. Biochemical and Biophysical Research Communications, 2012, 417, 807-811.	1.0	30
59	ATP-independent Fatty Acyl-Coenzyme A Synthesis from Phospholipid. Journal of Biological Chemistry, 2001, 276, 26745-26752.	1.6	29
60	Positive and Negative Regulations of Human Platelet-Activating Factor Receptor Transcript 2 (Tissue-Type) by Estrogen and TGF-Î²1. Biochemical and Biophysical Research Communications, 1994, 205, 1130-1136.	1.0	28
61	New susceptibility variants to narcolepsy identified in HLA class II region. Human Molecular Genetics, 2015, 24, 891-898.	1.4	27
62	Accelerated proliferation of epidermal keratinocytes by the transgenic expression of the platelet-activating factor receptor. Archives of Dermatological Research, 1999, 291, 614-621.	1.1	26
63	Kleine-Levin syndrome is associated with birth difficulties and genetic variants in the TRANK1 gene loci. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	26
64	Expression of a putative ATP-binding cassette region, homologous to that in multidrug resistance-associated protein (MRP), is hereditarily defective in Eisai hyperbilirubinemic rats (EHBR). International Hepatology Communications, 1996, 4, 291-298.	0.7	25
65	Monozygotic twins concordant for Kleine-Levin syndrome. BMC Neurology, 2012, 12, 31.	0.8	25
66	Albumin gene targeting in human embryonic stem cells and induced pluripotent stem cells with helper-dependent adenoviral vector to monitor hepatic differentiation. Stem Cell Research, 2013, 10, 179-194.	0.3	25
67	Lipid mediators modulate NMDA receptor currents in a Xenopus oocyte expression system. Neuroscience Letters, 1997, 237, 13-16.	1.0	24
68	Dopamine D2 Receptor-Mediated Regulation of Pancreatic Î² Cell Mass. Stem Cell Reports, 2016, 7, 95-109.	2.3	24
69	Transfected rat cMOAT is functionally expressed on the apical membrane in Madin-Darby canine kidney (MDCK) cells. Pharmaceutical Research, 1998, 15, 1851-1856.	1.7	22
70	In Situ Expression of Platelet-Activating Factor (PAF)-Receptor Gene in Rat Skin and Effects of PAF on Proliferation and Differentiation of Cultured Human Keratinocytes. Journal of Investigative Dermatology, 1998, 110, 889-893.	0.3	22
71	Fate maps of ventral and dorsal pancreatic progenitor cells in early somite stage mouse embryos. Mechanisms of Development, 2012, 128, 597-609.	1.7	22
72	The clock components Period2, Cryptochrome1a, and Cryptochrome2a function in establishing light-dependent behavioral rhythms and/or total activity levels in zebrafish. Scientific Reports, 2019, 9, 196.	1.6	22

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73	Recovery from diabetes in neonatal mice after a low-dose streptozotocin treatment. Biochemical and Biophysical Research Communications, 2013, 430, 1103-1108.	1.0	20
74	PAF-Induced MAPK Activation is Inhibited by Wortmannin in Neutrophils and Macrophages. Advances in Experimental Medicine and Biology, 1996, 416, 321-326.	0.8	20
75	Leukotriene A4 hydrolase and leukotriene B4 metabolism. Journal of Lipid Mediators and Cell Signalling, 1995, 12, 321-332.	1.0	19
76	Brain-Specific Expression of Novel G-Protein-Coupled Receptors, with Homologies to Xenopus PSP24 and Human GPR45. Biochemical and Biophysical Research Communications, 2000, 276, 952-956.	1.0	19
77	Mammalian PSP24s (Î± and Î² Isoforms) Are Not Responsive to Lysophosphatidic Acid in Mammalian Expression Systems. Biochemical and Biophysical Research Communications, 2000, 276, 957-964.	1.0	19
78	An association analysis of HLA-DQB1 with narcolepsy without cataplexy and idiopathic hypersomnia with/without long sleep time in a Japanese population. Human Genome Variation, 2015, 2, 15031.	0.4	19
79	Sweetness induces sleep through gustatory signalling independent of nutritional value in a starved fruit fly. Scientific Reports, 2017, 7, 14355.	1.6	19
80	Conserved origin of the ventral pancreas in chicken. Mechanisms of Development, 2009, 126, 817-827.	1.7	18
81	An expression profile analysis of ES cell-derived definitive endodermal cells and Pdx1-expressing cells. BMC Developmental Biology, 2011, 11, 13.	2.1	18
82	Na ⁺ /Ca ²⁺ exchanger mediates cold Ca ²⁺ signaling conserved for temperature-compensated circadian rhythms. Science Advances, 2021, 7, .	4.7	17
83	Role of cytosolic phospholipase A2 in the production of lipid mediators and histamine release in mouse bone-marrow-derived mast cells. Biochemical Journal, 2000, 352, 311.	1.7	17
84	Accuracy validation of sleep measurements by a contactless biomotion sensor on subjects with suspected sleep apnea. Sleep and Biological Rhythms, 2014, 12, 106-115.	0.5	16
85	Platelet-activating factor and somatostatin activate mitogen-activated protein kinase (MAP kinase) and arachidonate release. Journal of Lipid Mediators and Cell Signalling, 1996, 14, 103-108.	1.0	15
86	Analysis of gene expressions of embryonic stemâ€derived Pdx1â€expressing cells: Implications of genes involved in pancreas differentiation. Development Growth and Differentiation, 2009, 51, 463-472.	0.6	15
87	Oxaliplatin treatment changes the function of sensory nerves in rats. Journal of Pharmacological Sciences, 2016, 130, 189-193.	1.1	14
88	Identification of DAF1/CD55, a Novel Definitive Endoderm Marker. Cell Structure and Function, 2010, 35, 73-80.	0.5	14
89	Beneficial Effect of Insulin Treatment on Islet Transplantation Outcomes in Akita Mice. PLoS ONE, 2014, 9, e95451.	1.1	14
90	The initial safe range of motion of the ankle joint after three methods of internal fixation of simulated fractures of the medial malleolus. Clinical Biomechanics, 2006, 21, 617-622.	0.5	13

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91	A Drosophila dopamine transporter mutant, fumin (fmn), is defective in arousal regulation. Sleep and Biological Rhythms, 2006, 4, 263-273.	0.5	13
92	Protocerebral Bridge Neurons That Regulate Sleep in Drosophila melanogaster. Frontiers in Neuroscience, 2021, 15, 647117.	1.4	13
93	Epiplakin1 is expressed in the cholangiocyte lineage cells in normal liver and adult progenitor cells in injured liver. Gene Expression Patterns, 2011, 11, 255-262.	0.3	12
94	Secreted Cerberus1 as a Marker for Quantification of Definitive Endoderm Differentiation of the Pluripotent Stem Cells. PLoS ONE, 2013, 8, e64291.	1.1	11
95	VMAT2 Safeguards Î²-Cells Against Dopamine Cytotoxicity Under High-Fat Dietâ€“Induced Stress. Diabetes, 2020, 69, 2377-2391.	0.3	11
96	Insulin signaling in clock neurons regulates sleep in Drosophila. Biochemical and Biophysical Research Communications, 2022, 591, 44-49.	1.0	10
97	Activation of Mitogen-Activated Protein Kinase and Arachidonate Release via Two G Protein-Coupled Receptors Expressed in the Rat Hippocampus. Annals of the New York Academy of Sciences, 1994, 744, 107-125.	1.8	9
98	Temporal organization of rest defined by actigraphy data in healthy and childhood chronic fatigue syndrome children. BMC Psychiatry, 2013, 13, 281.	1.1	9
99	N- and L-type calcium channels blocker cilnidipine ameliorates neuropathic pain. European Journal of Pharmacology, 2016, 793, 66-75.	1.7	9
100	Micro-trap phosphorylation assay of mitogen-activated protein (MAP) kinases to detect their activation by lipopolysaccharides. Journal of Immunological Methods, 1996, 190, 71-77.	0.6	8
101	Characterization of sn-Glycerol 3-Phosphate Acyltransferase from Guinea Pig Harderian Gland Microsomes. Journal of Biochemistry, 1987, 101, 653-660.	0.9	7
102	Microplate Chromatography Assay for Acetyl-CoA: Lysoplatelet-Activating Factor Acetyltransferase. Analytical Biochemistry, 1997, 246, 118-122.	1.1	7
103	Visualization of Brain Activity in a Neuropathic Pain Model Using Quantitative Activity-Dependent Manganese Magnetic Resonance Imaging. Frontiers in Neural Circuits, 2019, 13, 74.	1.4	7
104	Ethanol-induced enhancement of inhibitory synaptic transmission in the rat spinal substantia gelatinosa. Molecular Pain, 2018, 14, 174480691881796.	1.0	6
105	Genome-wide association study of idiopathic hypersomnia in a Japanese population. Sleep and Biological Rhythms, 2022, 20, 137-148.	0.5	6
106	Biological functions of Î±2â€adrenergicâ€like octopamine receptor in <scp>Drosophila melanogaster</scp>. Genes, Brain and Behavior, 2022, 21, e12807.	1.1	6
107	A variant at 9q34.11 is associated with HLA-DQB1*06:02Ânegative essential hypersomnia. Journal of Human Genetics, 2018, 63, 1259-1267.	1.1	5
108	Effects of D-amino acids on sleep in Drosophila. Biochemical and Biophysical Research Communications, 2022, 589, 180-185.	1.0	5

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109	Conditional Expression of the Dual-Specificity Phosphatase PYST1/MKP-3 Inhibits Phosphorylation of Cytosolic Phospholipase A2in Chinese Hamster Ovary Cells. Biochemical and Biophysical Research Communications, 1998, 253, 485-488.	1.0	4
110	Status of narcolepsy-related information available on the Internet in Japan and its effective use. Sleep and Biological Rhythms, 2008, 6, 201-207.	0.5	3
111	Neural cells play an inhibitory role in pancreatic differentiation of pluripotent stem cells. Genes To Cells, 2015, 20, 1028-1045.	0.5	3
112	Involvement of l-lactate in hippocampal dysfunction of type I diabetes. Journal of Pharmacological Sciences, 2019, 141, 79-82.	1.1	3
113	Localization of Platelet-Activating Factor Receptor in the Rat Brain. Advances in Experimental Medicine and Biology, 1997, 407, 357-363.	0.8	3
114	Sleep-improving effects of a novel motion mattress. Sleep and Biological Rhythms, 2021, 19, 247-253.	0.5	2
115	GI-SleepNet: A Highly Versatile Image-Based Sleep Classification Using a Deep Learning Algorithm. Clocks & Sleep, 2021, 3, 581-597.	0.9	2
116	Fruit Fly, Drosophila melanogaster, as an In Vivo Tool to Study the Biological Effects of Proton Irradiation. Radiation Research, 2020, 194, 143.	0.7	1
117	ROLE OF CYTOSOLIC PHOSPHOLIPASE A2 IN ALLERGIC RESPONSES AND PARTURITION. The Japanese Journal of Pharmacology, 1998, 76, 37.	1.2	0
118	Fruit Fly, Drosophila melanogaster, as an In Vivo Tool to Study the Biological Effects of Proton Irradiation. Radiation Research, 2020, , .	0.7	0
119	Role of ABC transporters for the biliary excretion of organic anions. Drug Metabolism and Pharmacokinetics, 1996, 11, 5098-5099.	0.0	0
120	Role of MRP family proteins in the export of organic anion compounds from liver and intestine. Drug Metabolism and Pharmacokinetics, 1997, 12, 80-81.	0.0	0