

Kazuhiko Kume

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119
papers

8,445
citations

37
h-index

91
g-index

132
ext. papers

9,390
ext. citations

6.6
avg, IF

5.29
L-index

#	Paper	IF	Citations
119	mCRY1 and mCRY2 are essential components of the negative limb of the circadian clock feedback loop. <i>Cell</i> , 1999 , 98, 193-205	56.2	1270
118	Interacting molecular loops in the mammalian circadian clock. <i>Science</i> , 2000 , 288, 1013-9	33.3	1082
117	Role of cytosolic phospholipase A2 in allergic response and parturition. <i>Nature</i> , 1997 , 390, 618-22	50.4	621
116	High-frequency transformation method and library transducing vectors for cloning mammalian cDNAs by trans-complementation of <i>Schizosaccharomyces pombe</i> . <i>Nucleic Acids Research</i> , 1990 , 18, 6485-9 ¹	29.1	434
115	Dopamine is a regulator of arousal in the fruit fly. <i>Journal of Neuroscience</i> , 2005 , 25, 7377-84	6.6	406
114	Methionine metabolism regulates maintenance and differentiation of human pluripotent stem cells. <i>Cell Metabolism</i> , 2014 , 19, 780-94	24.6	308
113	Acute lung injury by sepsis and acid aspiration: a key role for cytosolic phospholipase A2. <i>Nature Immunology</i> , 2000 , 1, 42-6	19.1	248
112	Impaired anaphylactic responses with intact sensitivity to endotoxin in mice lacking a platelet-activating factor receptor. <i>Journal of Experimental Medicine</i> , 1998 , 187, 1779-88	16.6	240
111	Drosophila fragile X protein, DFXR, regulates neuronal morphology and function in the brain. <i>Neuron</i> , 2002 , 34, 961-72	13.9	202
110	Identification of a dopamine pathway that regulates sleep and arousal in <i>Drosophila</i> . <i>Nature Neuroscience</i> , 2012 , 15, 1516-23	25.5	201
109	Behavioral consequences of dopamine deficiency in the <i>Drosophila</i> central nervous system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 834-9	11.5	166
108	Forward-genetics analysis of sleep in randomly mutagenized mice. <i>Nature</i> , 2016 , 539, 378-383	50.4	152
107	Critical duration of intracellular Ca ²⁺ response required for continuous translocation and activation of cytosolic phospholipase A2. <i>Journal of Biological Chemistry</i> , 1999 , 274, 5163-9	5.4	144
106	Gender dimorphism in the role of cycle (BMAL1) in rest, rest regulation, and longevity in <i>Drosophila melanogaster</i> . <i>Journal of Biological Rhythms</i> , 2003 , 18, 12-25	3.2	143
105	Cytosolic phospholipase A2 α -deficient mice are resistant to collagen-induced arthritis. <i>Journal of Experimental Medicine</i> , 2003 , 197, 1297-302	16.6	129
104	Bronchial hyperreactivity, increased endotoxin lethality and melanocytic tumorigenesis in transgenic mice overexpressing platelet-activating factor receptor. <i>EMBO Journal</i> , 1997 , 16, 133-42	13	117
103	The Nutrient-Responsive Hormone CCHamide-2 Controls Growth by Regulating Insulin-like Peptides in the Brain of <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2015 , 11, e1005209	6	99

102	Predominant expression of platelet-activating factor receptor in the rat brain microglia. <i>Journal of Neuroscience</i> , 1996 , 16, 3590-600	6.6	95
101	Platelet-activating factor mediates acid-induced lung injury in genetically engineered mice. <i>Journal of Clinical Investigation</i> , 1999 , 104, 1071-6	15.9	93
100	Guided differentiation of embryonic stem cells into Pdx1-expressing regional-specific definitive endoderm. <i>Stem Cells</i> , 2008 , 26, 874-85	5.8	92
99	Differentiation of mouse and human embryonic stem cells into hepatic lineages. <i>Genes To Cells</i> , 2008 , 13, 731-46	2.3	90
98	Functional analysis of a canalicular multispecific organic anion transporter cloned from rat liver. <i>Journal of Biological Chemistry</i> , 1998 , 273, 1684-8	5.4	82
97	Enhanced expression of PDX-1 and Ngn3 by exendin-4 during beta cell regeneration in STZ-treated mice. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 327, 1170-8	3.4	74
96	Wortmannin inhibits mitogen-activated protein kinase activation by platelet-activating factor through a mechanism independent of p85/p110-type phosphatidylinositol 3-kinase. <i>Journal of Biological Chemistry</i> , 1996 , 271, 11684-8	5.4	70
95	Wnt and Notch signals guide embryonic stem cell differentiation into the intestinal lineages. <i>Stem Cells</i> , 2013 , 31, 1086-96	5.8	66
94	cDNA cloning, expression, and mutagenesis study of leukotriene B4 12-hydroxydehydrogenase. <i>Journal of Biological Chemistry</i> , 1996 , 271, 2844-50	5.4	64
93	Synthesized basement membranes direct the differentiation of mouse embryonic stem cells into pancreatic lineages. <i>Journal of Cell Science</i> , 2010 , 123, 2733-42	5.3	56
92	VMAT2 identified as a regulator of late-stage Ecell differentiation. <i>Nature Chemical Biology</i> , 2014 , 10, 141-8	11.7	53
91	Generation of insulin-producing Elike cells from human iPS cells in a defined and completely xeno-free culture system. <i>Journal of Molecular Cell Biology</i> , 2014 , 6, 394-408	6.3	52
90	Interaction between neurone and microglia mediated by platelet-activating factor. <i>Genes To Cells</i> , 2000 , 5, 397-406	2.3	52
89	Expression of lysophosphatidic acid receptor in rat astrocytes: mitogenic effect and expression of neurotrophic genes. <i>Neurochemical Research</i> , 2000 , 25, 573-82	4.6	51
88	cDNA cloning and expression of murine 1-acyl-sn-glycerol-3-phosphate acyltransferase. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 237, 663-6	3.4	48
87	A murine platelet-activating factor receptor gene: cloning, chromosomal localization and up-regulation of expression by lipopolysaccharide in peritoneal resident macrophages. <i>Biochemical Journal</i> , 1996 , 314 (Pt 2), 671-8	3.8	47
86	Identification of the novel bioactive peptides dRYamide-1 and dRYamide-2, ligands for a neuropeptide Y-like receptor in Drosophila. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 410, 872-7	3.4	43
85	Efficient differentiation of embryonic stem cells into hepatic cells in vitro using a feeder-free basement membrane substratum. <i>PLoS ONE</i> , 2011 , 6, e24228	3.7	43

84	The NMDA Receptor Promotes Sleep in the Fruit Fly, <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2015 , 10, e0128101	4.1	37
83	Calcineurin and its regulator <i>sra</i> /DSCR1 are essential for sleep in <i>Drosophila</i> . <i>Journal of Neuroscience</i> , 2011 , 31, 12759-66	6.6	38
82	Dopamine modulates metabolic rate and temperature sensitivity in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2012 , 7, e31513	3.7	36
81	Pan-neuronal knockdown of calcineurin reduces sleep in the fruit fly, <i>Drosophila melanogaster</i> . <i>Journal of Neuroscience</i> , 2011 , 31, 13137-46	6.6	32
80	Isolation of the bioactive peptides CCHamide-1 and CCHamide-2 from <i>Drosophila</i> and their putative role in appetite regulation as ligands for G protein-coupled receptors. <i>Frontiers in Endocrinology</i> , 2012 , 3, 177	5.7	32
79	Expression patterns of epiplakin1 in pancreas, pancreatic cancer and regenerating pancreas. <i>Genes To Cells</i> , 2008 , 13, 667-78	2.3	32
78	Cellular and molecular mechanisms of circadian control in insects. <i>Journal of Insect Physiology</i> , 2001 , 47, 833-842	2.4	32
77	Dopamine modulates the rest period length without perturbation of its power law distribution in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2012 , 7, e32007	3.7	31
76	A polymorphism in CCR1/CCR3 is associated with narcolepsy. <i>Brain, Behavior, and Immunity</i> , 2015 , 49, 148-55	16.6	30
75	Role of microglia in mechanical allodynia in the anterior cingulate cortex. <i>Journal of Pharmacological Sciences</i> , 2017 , 134, 158-165	3.7	30
74	Role of cytosolic phospholipase A2 in the production of lipid mediators and histamine release in mouse bone-marrow-derived mast cells. <i>Biochemical Journal</i> , 2000 , 352, 311-317	3.8	30
73	Differentiation and characterization of embryonic stem cells into three germ layers. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 381, 694-9	3.4	29
72	A synthetic nanofibrillar matrix promotes in vitro hepatic differentiation of embryonic stem cells and induced pluripotent stem cells. <i>Journal of Cell Science</i> , 2013 , 126, 5391-9	5.3	28
71	Identification of the endogenous cysteine-rich peptide trissin, a ligand for an orphan G protein-coupled receptor in <i>Drosophila</i> . <i>Biochemical and Biophysical Research Communications</i> , 2011 , 414, 44-8	3.4	28
70	Platelet-activating factor (PAF) induces growth stimulation, inhibition, and suppression of oncogenic transformation in NRK cells overexpressing the PAF receptor. <i>Journal of Biological Chemistry</i> , 1997 , 272, 22898-904	5.4	28
69	Monitoring of Weekly Sleep Pattern Variations at Home with a Contactless Biomotion Sensor. <i>Sensors</i> , 2015 , 15, 18950-64	3.8	27
68	Positive and negative regulations of human platelet-activating factor receptor transcript 2 (tissue-type) by estrogen and TGF-beta 1. <i>Biochemical and Biophysical Research Communications</i> , 1994 , 205, 1130-6	3.4	27
67	Genes and neural circuits for sleep of the fruit fly. <i>Neuroscience Research</i> , 2017 , 118, 82-91	2.9	26

66	Pan-neuronal knockdown of the c-Jun N-terminal Kinase (JNK) results in a reduction in sleep and longevity in <i>Drosophila</i> . <i>Biochemical and Biophysical Research Communications</i> , 2012 , 417, 807-11	3.4	26
65	High calorie diet augments age-associated sleep impairment in <i>Drosophila</i> . <i>Biochemical and Biophysical Research Communications</i> , 2012 , 417, 812-6	3.4	26
64	A longitudinal large-scale objective sleep data analysis revealed a seasonal sleep variation in the Japanese population. <i>Chronobiology International</i> , 2018 , 35, 933-945	3.6	25
63	ATP-independent fatty acyl-coenzyme A synthesis from phospholipid: coenzyme A-dependent transacylation activity toward lysophosphatidic acid catalyzed by acyl-coenzyme A:lysophosphatidic acid acyltransferase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 26745-52	5.4	25
62	Functional characterization of dopamine transporter in vivo using <i>Drosophila melanogaster</i> behavioral assays. <i>Frontiers in Behavioral Neuroscience</i> , 2014 , 8, 303	3.5	24
61	Lipid mediators modulate NMDA receptor currents in a <i>Xenopus</i> oocyte expression system. <i>Neuroscience Letters</i> , 1997 , 237, 13-6	3.3	24
60	Platelet-activating factor receptor is not required for long-term potentiation in the hippocampal CA1 region. <i>European Journal of Neuroscience</i> , 1999 , 11, 1313-6	3.5	23
59	Accelerated proliferation of epidermal keratinocytes by the transgenic expression of the platelet-activating factor receptor. <i>Archives of Dermatological Research</i> , 1999 , 291, 614-21	3.3	22
58	Albumin gene targeting in human embryonic stem cells and induced pluripotent stem cells with helper-dependent adenoviral vector to monitor hepatic differentiation. <i>Stem Cell Research</i> , 2013 , 10, 179-94	1.6	21
57	Fate maps of ventral and dorsal pancreatic progenitor cells in early somite stage mouse embryos. <i>Mechanisms of Development</i> , 2012 , 128, 597-609	1.7	21
56	New susceptibility variants to narcolepsy identified in HLA class II region. <i>Human Molecular Genetics</i> , 2015 , 24, 891-8	5.6	20
55	Monozygotic twins concordant for Kleine-Levin syndrome. <i>BMC Neurology</i> , 2012 , 12, 31	3.1	20
54	Transfected rat cMOAT is functionally expressed on the apical membrane in Madin-Darby canine kidney (MDCK) cells. <i>Pharmaceutical Research</i> , 1998 , 15, 1851-6	4.5	20
53	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). <i>International Hepatology Communications</i> , 1996 , 4, 291-298		20
52	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. <i>Journal of Investigative Dermatology</i> , 1998 , 110, 889-93	4.3	19
51	Recovery from diabetes in neonatal mice after a low-dose streptozotocin treatment. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 430, 1103-8	3.4	18
50	Conserved origin of the ventral pancreas in chicken. <i>Mechanisms of Development</i> , 2009 , 126, 817-27	1.7	17
49	Mammalian PSP24s (alpha and beta isoforms) are not responsive to lysophosphatidic acid in mammalian expression systems. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 276, 957-64	2.4	17

48	Leukotriene A4 hydrolase and leukotriene B4 metabolism. <i>Journal of Lipid Mediators and Cell Signalling</i> , 1995 , 12, 321-32		17
47	Role of cytosolic phospholipase A2 in the production of lipid mediators and histamine release in mouse bone-marrow-derived mast cells. <i>Biochemical Journal</i> , 2000 , 352, 311	3.8	17
46	Astrocyte-neuron lactate shuttle sensitizes nociceptive transmission in the spinal cord. <i>Glia</i> , 2019 , 67, 27-36	9	17
45	Dopamine D2 Receptor-Mediated Regulation of Pancreatic β Cell Mass. <i>Stem Cell Reports</i> , 2016 , 7, 95-1098		16
44	An association analysis of HLA-DQB1 with narcolepsy without cataplexy and idiopathic hypersomnia with/without long sleep time in a Japanese population. <i>Human Genome Variation</i> , 2015 , 2, 15031	1.8	16
43	An expression profile analysis of ES cell-derived definitive endodermal cells and Pdx1-expressing cells. <i>BMC Developmental Biology</i> , 2011 , 11, 13	3.1	16
42	Brain-specific expression of novel G-protein-coupled receptors, with homologies to <i>Xenopus</i> PSP24 and human GPR45. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 276, 952-6	3.4	16
41	Platelet-activating factor and somatostatin activate mitogen-activated protein kinase (MAP kinase) and arachidonate release. <i>Journal of Lipid Mediators and Cell Signalling</i> , 1996 , 14, 103-8		15
40	PAF-induced MAPK activation is inhibited by wortmannin in neutrophils and macrophages. <i>Advances in Experimental Medicine and Biology</i> , 1996 , 416, 321-6	3.6	15
39	Analysis of gene expressions of embryonic stem-derived Pdx1-expressing cells: implications of genes involved in pancreas differentiation. <i>Development Growth and Differentiation</i> , 2009 , 51, 463-72	3	14
38	Accuracy validation of sleep measurements by a contactless biomotion sensor on subjects with suspected sleep apnea. <i>Sleep and Biological Rhythms</i> , 2014 , 12, 106-115	1.3	13
37	The clock components Period2, Cryptochrome1a, and Cryptochrome2a function in establishing light-dependent behavioral rhythms and/or total activity levels in zebrafish. <i>Scientific Reports</i> , 2019 , 9, 196	4.9	12
36	Epiplakin1 is expressed in the cholangiocyte lineage cells in normal liver and adult progenitor cells in injured liver. <i>Gene Expression Patterns</i> , 2011 , 11, 255-62	1.5	12
35	A <i>Drosophila</i> dopamine transporter mutant, fumin (fmn), is defective in arousal regulation*. <i>Sleep and Biological Rhythms</i> , 2006 , 4, 263-273	1.3	12
34	Identification of DAF1/CD55, a novel definitive endoderm marker. <i>Cell Structure and Function</i> , 2010 , 35, 73-80	2.2	12
33	Beneficial effect of insulin treatment on islet transplantation outcomes in Akita mice. <i>PLoS ONE</i> , 2014 , 9, e95451	3.7	12
32	Sweetness induces sleep through gustatory signalling independent of nutritional value in a starved fruit fly. <i>Scientific Reports</i> , 2017 , 7, 14355	4.9	11
31	Oxaliplatin treatment changes the function of sensory nerves in rats. <i>Journal of Pharmacological Sciences</i> , 2016 , 130, 189-93	3.7	10

30	Secreted cerberus1 as a marker for quantification of definitive endoderm differentiation of the pluripotent stem cells. <i>PLoS ONE</i> , 2013 , 8, e64291	3.7	9
29	The initial safe range of motion of the ankle joint after three methods of internal fixation of simulated fractures of the medial malleolus. <i>Clinical Biomechanics</i> , 2006 , 21, 617-22	2.2	9
28	Kleine-Levin syndrome is associated with birth difficulties and genetic variants in the gene loci. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	9
27	N- and L-type calcium channels blocker cilnidipine ameliorates neuropathic pain. <i>European Journal of Pharmacology</i> , 2016 , 793, 66-75	5.3	7
26	Micro-trap phosphorylation assay of mitogen-activated protein (MAP) kinases to detect their activation by lipopolysaccharides. <i>Journal of Immunological Methods</i> , 1996 , 190, 71-7	2.5	7
25	Activation of mitogen-activated protein kinase and arachidonate release via two G protein-coupled receptors expressed in the rat hippocampus. <i>Annals of the New York Academy of Sciences</i> , 1994 , 744, 107-25	6.5	7
24	Microplate chromatography assay for acetyl-CoA: lysoplatelet-activating factor acetyltransferase. <i>Analytical Biochemistry</i> , 1997 , 246, 118-22	3.1	6
23	Characterization of sn-glycerol 3-phosphate acyltransferase from guinea pig harderian gland microsomes. <i>Journal of Biochemistry</i> , 1987 , 101, 653-60	3.1	6
22	Temporal organization of rest defined by actigraphy data in healthy and childhood chronic fatigue syndrome children. <i>BMC Psychiatry</i> , 2013 , 13, 281	4.2	5
21	Conditional expression of the dual-specificity phosphatase PYST1/MKP-3 inhibits phosphorylation of cytosolic phospholipase A2 in Chinese hamster ovary cells. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 253, 485-8	3.4	4
20	VMAT2 Safeguards ECells Against Dopamine Cytotoxicity Under High-Fat Diet-Induced Stress. <i>Diabetes</i> , 2020 , 69, 2377-2391	0.9	4
19	Na/Ca exchanger mediates cold Ca signaling conserved for temperature-compensated circadian rhythms. <i>Science Advances</i> , 2021 , 7,	14.3	4
18	Involvement of l-lactate in hippocampal dysfunction of type I diabetes. <i>Journal of Pharmacological Sciences</i> , 2019 , 141, 79-82	3.7	3
17	Visualization of Brain Activity in a Neuropathic Pain Model Using Quantitative Activity-Dependent Manganese Magnetic Resonance Imaging. <i>Frontiers in Neural Circuits</i> , 2019 , 13, 74	3.5	3
16	Ethanol-induced enhancement of inhibitory synaptic transmission in the rat spinal substantia gelatinosa. <i>Molecular Pain</i> , 2018 , 14, 1744806918817969	3.4	3
15	A variant at 9q34.11 is associated with HLA-DQB1*06:02[egative essential hypersomnia. <i>Journal of Human Genetics</i> , 2018 , 63, 1259-1267	4.3	3
14	Neural cells play an inhibitory role in pancreatic differentiation of pluripotent stem cells. <i>Genes To Cells</i> , 2015 , 20, 1028-45	2.3	2
13	Status of narcolepsy-related information available on the Internet in Japan and its effective use. <i>Sleep and Biological Rhythms</i> , 2008 , 6, 201-207	1.3	2

12	Protocerebral bridge neurons that regulate sleep in <i>Drosophila melanogaster</i>		2
11	Protocerebral Bridge Neurons That Regulate Sleep in. <i>Frontiers in Neuroscience</i> , 2021 , 15, 647117	5.1	2
10	Localization of platelet-activating factor receptor in the rat brain. <i>Advances in Experimental Medicine and Biology</i> , 1997 , 407, 357-63	3.6	2
9	Genome-wide association study of idiopathic hypersomnia in a Japanese population. <i>Sleep and Biological Rhythms</i> ,1	1.3	1
8	Sleep-improving effects of a novel motion mattress. <i>Sleep and Biological Rhythms</i> , 2021 , 19, 247-253	1.3	1
7	Effects of D-amino acids on sleep in <i>Drosophila</i> .. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 589, 180-185	3.4	○
6	Fruit Fly, <i>Drosophila melanogaster</i> , as an In Vivo Tool to Study the Biological Effects of Proton Irradiation. <i>Radiation Research</i> , 2020 , 194, 143-152	3.1	○
5	GI-SleepNet: A Highly Versatile Image-Based Sleep Classification Using a Deep Learning Algorithm. <i>Clocks & Sleep</i> , 2021 , 3, 581-597	2.9	○
4	Insulin signaling in clock neurons regulates sleep in <i>Drosophila</i> .. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 591, 44-49	3.4	○
3	Biological functions of α -adrenergic-like octopamine receptor in <i>Drosophila melanogaster</i> .. <i>Genes, Brain and Behavior</i> , 2022 , e12807	3.6	○
2	Role of ABC transporters for the biliary excretion of organic anions. <i>Drug Metabolism and Pharmacokinetics</i> , 1996 , 11, 5098-5099		
1	Role of MRP family proteins in the export of organic anion compounds from liver and intestine. <i>Drug Metabolism and Pharmacokinetics</i> , 1997 , 12, 80-81		