Shingo Kajimura

List of Publications by Year
in descending order

110 papers	26,884 citations	26630 56 h-index	26613 107 g-index
115 all docs	115 docs citations	115 times ranked	33589 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	A PGC1-Î±-dependent myokine that drives brown-fat-like development of white fat and thermogenesis. Nature, 2012, 481, 463-468.	27.8	3,646
3	PRDM16 controls a brown fat/skeletal muscle switch. Nature, 2008, 454, 961-967.	27.8	1,997
4	Prdm16 determines the thermogenic program of subcutaneous white adipose tissue in mice. Journal of Clinical Investigation, 2011, 121, 96-105.	8.2	1,036
5	Transcriptional Control of Brown Fat Determination by PRDM16. Cell Metabolism, 2007, 6, 38-54.	16.2	996
6	Anti-diabetic drugs inhibit obesity-linked phosphorylation of PPARÎ³ by Cdk5. Nature, 2010, 466, 451-456.	27.8	793
7	Brown and Beige Fat: Physiological Roles beyond Heat Generation. Cell Metabolism, 2015, 22, 546-559.	16.2	763
8	Ablation of PRDM16 and Beige Adipose Causes Metabolic Dysfunction and a Subcutaneous to Visceral Fat Switch. Cell, 2014, 156, 304-316.	28.9	719
9	PPARÎ³ agonists Induce a White-to-Brown Fat Conversion through Stabilization of PRDM16 Protein. Cell Metabolism, 2012, 15, 395-404.	16.2	658
10	Initiation of myoblast to brown fat switch by a PRDM16â€“C/EBP-Î² transcriptional complex. Nature, 2009, 460, 1154-1158.	27.8	620
11	A Creatine-Driven Substrate Cycle Enhances Energy Expenditure and Thermogenesis in Beige Fat. Cell, 2015, 163, 643-655.	28.9	575
12	Brown and beige fat in humans: thermogenic adipocytes that control energy and glucose homeostasis. Journal of Clinical Investigation, 2015, 125, 478-486.	8.2	547
13	Human BAT Possesses Molecular Signatures That Resemble Beige/Brite Cells. PLoS ONE, 2012, 7, e49452.	2.5	541
14	UCP1-independent signaling involving SERCA2b-mediated calcium cycling regulates beige fat thermogenesis and systemic glucose homeostasis. Nature Medicine, 2017, 23, 1454-1465.	30.7	429
15	Regulation of the brown and white fat gene programs through a PRDM16/CtBP transcriptional complex. Genes and Development, 2008, 22, 1397-1409.	5.9	393
16	Inhibition of fatty acid oxidation as a therapy for MYC-overexpressing triple-negative breast cancer. Nature Medicine, 2016, 22, 427-432.	30.7	381
17	Accumulation of succinate controls activation of adipose tissue thermogenesis. Nature, 2018, 560, 102-106.	27.8	380
18	The Common and Distinct Features of Brown and Beige Adipocytes. Trends in Endocrinology and Metabolism, 2018, 29, 191-200.	7.1	377

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19	Genetic and functional characterization of clonally derived adult human brown adipocytes. Nature Medicine, 2015, 21, 389-394.	30.7	366
20	Transcriptional Control of Brown Fat Development. Cell Metabolism, 2010, 11, 257-262.	16.2	362
21	A New Era in Brown Adipose Tissue Biology: Molecular Control of Brown Fat Development and Energy Homeostasis. Annual Review of Physiology, 2014, 76, 225-249.	13.1	348
22	BCAA catabolism in brown fat controls energy homeostasis through SLC25A44. Nature, 2019, 572, 614-619.	27.8	332
23	Beige Adipocyte Maintenance Is Regulated by Autophagy-Induced Mitochondrial Clearance. Cell Metabolism, 2016, 24, 402-419.	16.2	282
24	EHMT1 controls brown adipose cell fate and thermogenesis through the PRDM16 complex. Nature, 2013, 504, 163-167.	27.8	272
25	Brown Adipose Tissue Activation Is Linked to Distinct Systemic Effects on Lipid Metabolism in Humans. Cell Metabolism, 2016, 23, 1200-1206.	16.2	264
26	Transcriptional control of brown adipocyte development and physiological functionâ€"of mice and men. Genes and Development, 2009, 23, 788-797.	5.9	250
27	Transcriptional and epigenetic control of brown and beige adipose cell fate and function. Nature Reviews Molecular Cell Biology, 2016, 17, 480-495.	37.0	243
28	Insulin-like growth factor-binding protein-1 (IGFBP-1) mediates hypoxia-induced embryonic growth and developmental retardation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1240-1245.	7.1	226
29	Metabolic adaptation and maladaptation in adipose tissue. Nature Metabolism, 2019, 1, 189-200.	11.9	224
30	The cellular and functional complexity of thermogenic fat. Nature Reviews Molecular Cell Biology, 2021, 22, 393-409.	37.0	203
31	Regulation of systemic energy homeostasis by serotonin in adipose tissues. Nature Communications, 2015, 6, 6794.	12.8	187
32	Thermal stress induces glycolytic beige fat formation via a myogenic state. Nature, 2019, 565, 180-185.	27.8	178
33	Mitochondrial Patch Clamp of Beige Adipocytes Reveals UCP1-Positive and UCP1-Negative Cells Both Exhibiting Futile Creatine Cycling. Cell Metabolism, 2017, 25, 811-822.e4.	16.2	174
34	CD81 Controls Beige Fat Progenitor Cell Growth and Energy Balance via FAK Signaling. Cell, 2020, 182, 563-577.e20.	28.9	156
35	Effects of fasting on growth hormone/insulin-like growth factor I axis in the tilapia, Oreochromis mossambicus. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2003, 134, 429-439.	1.8	139
36	Understanding Hypoxia-Induced Gene Expression in Early Development: In Vitro and In Vivo Analysis of Hypoxia-Inducible Factor 1-Regulated Zebra Fish Insulin-Like Growth Factor Binding Protein 1 Gene Expression. Molecular and Cellular Biology, 2006, 26, 1142-1155.	2.3	138

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37	Repression of Adipose Tissue Fibrosis through a PRDM16-GTF2IRD1 Complex Improves Systemic Glucose Homeostasis. Cell Metabolism, 2018, 27, 180-194.e6.	16.2	133
38	A Secreted Slit2 Fragment Regulates Adipose Tissue Thermogenesis and Metabolic Function. Cell Metabolism, 2016, 23, 454-466.	16.2	122
39	Mitophagy controls beige adipocyte maintenance through a Parkin-dependent and UCP1-independent mechanism. Science Signaling, 2018, 11, .	3.6	116
40	Regulation of Early Adipose Commitment by Zfp521. PLoS Biology, 2012, 10, e1001433.	5.6	114
41	Dual mode of cortisol action on GH/IGF-I/IGF binding proteins in the tilapia, Oreochromis mossambicus. Journal of Endocrinology, 2003, 178, 91-99.	2.6	94
42	A Novel Therapeutic Approach to Treating Obesity through Modulation of TGFÎ² Signaling. Endocrinology, 2012, 153, 3133-3146.	2.8	94
43	ThermoMouse: An In Vivo Model to Identify Modulators of UCP1 Expression in Brown Adipose Tissue. Cell Reports, 2014, 9, 1584-1593.	6.4	94
44	A Synergistic Antiobesity Effect by a Combination of Capsinoids and Cold Temperature Through Promoting Beige Adipocyte Biogenesis. Diabetes, 2016, 65, 1410-1423.	0.6	90
45	JMJD1A is a signal-sensing scaffold that regulates acute chromatin dynamics via SWI/SNF association for thermogenesis. Nature Communications, 2015, 6, 7052.	12.8	87
46	Isolation and Differentiation of Stromal Vascular Cells to Beige/Brite Cells. Journal of Visualized Experiments, 2013, , .	0.3	86
47	Identification of the growth hormone receptor in an advanced teleost, the tilapia (Oreochromis) Tj ETQq1 1 0.784314 rgBT /Overlock Endocrinology, 2004, 181, 65-76.	2.6	83
48	Effects of environmental osmolality on release of prolactin, growth hormone and ACTH from the tilapia pituitary. General and Comparative Endocrinology, 2002, 128, 91-101.	1.8	81
49	cDNA Cloning of Two Gonadotropin Î² Subunits (GTH-IÎ² and -IIÎ²) and Their Expression Profiles during Gametogenesis in the Japanese Flounder (Paralichthys olivaceus). General and Comparative Endocrinology, 2001, 122, 117-129.	1.8	78
50	Relevance of brown adipose tissue in infancy and adolescence. Pediatric Research, 2013, 73, 3-9.	2.3	74
51	Phosphoproteomics Identifies CK2 as a Negative Regulator of Beige Adipocyte Thermogenesis and Energy Expenditure. Cell Metabolism, 2015, 22, 997-1008.	16.2	74
52	Mitochondrial homeostasis in adipose tissue remodeling. Science Signaling, 2017, 10, .	3.6	74
53	Role of IGF signaling in catch-up growth and accelerated temporal development in zebrafish embryos in response to oxygen availability. Development (Cambridge), 2011, 138, 777-786.	2.5	73
54	Actomyosin-Mediated Tension Orchestrates Uncoupled Respiration in Adipose Tissues. Cell Metabolism, 2018, 27, 602-615.e4.	16.2	70

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55	Histone demethylase JMJD1A coordinates acute and chronic adaptation to cold stress via thermogenic phospho-switch. Nature Communications, 2018, 9, 1566.	12.8	68
56	Immunomodulatory effects of prolactin and growth hormone in the tilapia, Oreochromis mossambicus. Journal of Endocrinology, 2002, 173, 483-492.	2.6	60
57	Title is missing!. Fish Physiology and Biochemistry, 2001, 25, 221-230.	2.3	58
58	Advances in the understanding of adipose tissue biology. Nature Reviews Endocrinology, 2017, 13, 69-70.	9.6	58
59	Bacteroides spp. promotes branched-chain amino acid catabolism in brown fat and inhibits obesity. IScience, 2021, 24, 103342.	4.1	58
60	A combination of exercise and capsinoid supplementation additively suppresses diet-induced obesity by increasing energy expenditure in mice. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E315-E323.	3.5	52
61	Zinc transporter ZIP13 suppresses beige adipocyte biogenesis and energy expenditure by regulating C/EBP-Î² expression. PLoS Genetics, 2017, 13, e1006950.	3.5	50
62	Mitochondrial lipoylation integrates age-associated decline in brown fat thermogenesis. Nature Metabolism, 2019, 1, 886-898.	11.9	50
63	Modulation of PGC-1 Coactivator Pathways in Brown Fat Differentiation through LRP130. Journal of Biological Chemistry, 2008, 283, 31960-31967.	3.4	49
64	The pesticide chlorpyrifos promotes obesity by inhibiting diet-induced thermogenesis in brown adipose tissue. Nature Communications, 2021, 12, 5163.	12.8	47
65	An Evolutionarily Conserved uORF Regulates PGC1Î± and Oxidative Metabolism in Mice, Flies, and Bluefin Tuna. Cell Metabolism, 2019, 30, 190-200.e6.	16.2	45
66	Branched-chain Î±-ketoacids are preferentially reaminated and activate protein synthesis in the heart. Nature Communications, 2021, 12, 1680.	12.8	45
67	Effects of insulin-like growth factors (IGF-I and -II) on growth hormone and prolactin release and gene expression in euryhaline tilapia, Oreochromis mossambicus. General and Comparative Endocrinology, 2002, 127, 223-231.	1.8	39
68	Wireless optogenetics protects against obesity via stimulation of non-canonical fat thermogenesis. Nature Communications, 2020, 11, 1730.	12.8	39
69	Obesity-Linked Phosphorylation of SIRT1 by Casein Kinase 2 Inhibits Its Nuclear Localization and Promotes Fatty Liver. Molecular and Cellular Biology, 2017, 37, .	2.3	37
70	Obesity is associated with depot-specific alterations in adipocyte DNA methylation and gene expression. Adipocyte, 2017, 6, 124-133.	2.8	34
71	Insulinâ€like growth factorâ€binding proteinâ€1: an evolutionarily conserved fine tuner of insulinâ€like growth factor action under catabolic and stressful conditions. Journal of Fish Biology, 2007, 71, 309-325.	1.6	33
72	In vitro effects of cortisol on the release and gene expression of prolactin and growth hormone in the tilapia, Oreochromis mossambicus. General and Comparative Endocrinology, 2004, 135, 116-125.	1.8	32

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73	Changes in plasma concentrations of immunoreactive ouabain in the tilapia in response to changing salinity: is ouabain a hormone in fish?. General and Comparative Endocrinology, 2004, 135, 90-99.	1.8	30
74	Mitochondrial Activity in Human White Adipocytes Is Regulated by the Ubiquitin Carrier Protein 9/microRNA-30a Axis. Journal of Biological Chemistry, 2016, 291, 24747-24755.	3.4	30
75	Comparative analysis of microRNA expression in mouse and human brown adipose tissue. BMC Genomics, 2015, 16, 820.	2.8	29
76	The major cap-binding protein eIF4E regulates lipid homeostasis and diet-induced obesity. Nature Metabolism, 2021, 3, 244-257.	11.9	29
77	The regulation of glucose and lipid homeostasis via <scp>PLTP</scp> as a mediator of <scp>BAT</scp> â€"liver communication. EMBO Reports, 2020, 21, e49828.	4.5	28
78	Mammary alveolar epithelial cells convert to brown adipocytes in postâ€lactating mice. Journal of Cellular Physiology, 2017, 232, 2923-2928.	4.1	26
79	Prolactin receptor and proliferating/apoptotic cells in esophagus of the Mozambique tilapia (Oreochromis mossambicus) in fresh water and in seawater. General and Comparative Endocrinology, 2007, 152, 326-331.	1.8	22
80	Multifaceted Roles of Beige Fat in Energy Homeostasis Beyond UCP1. Endocrinology, 2018, 159, 2545-2553.	2.8	22
81	Adrenergic-Independent Signaling via CHRNA2 Regulates Beige Fat Activation. Developmental Cell, 2020, 54, 106-116.e5.	7.0	22
82	Changes in the levels of mRNA coding for gonadotropin Ibeta and IIbeta subunits during vitellogenesis in the common Japanese conger Conger myriaster. Fisheries Science, 2001, 67, 1053-1062.	1.6	19
83	Intramuscular Brown Fat Activation Decreases Muscle Atrophy and Fatty Infiltration and Improves Gait After Delayed Rotator Cuff Repair in Mice. American Journal of Sports Medicine, 2020, 48, 1590-1600.	4.2	19
84	Burning Fat and Building Bone by FSH Blockade. Cell Metabolism, 2017, 26, 285-287.	16.2	17
85	Lightening up a notch: Notch regulation of energy metabolism. Nature Medicine, 2014, 20, 811-812.	30.7	16
86	Engineering Fat Cell Fate to Fight Obesity and Metabolic Diseases. Keio Journal of Medicine, 2015, 64, 65-65.	1.1	15
87	Metabolic flexibility via mitochondrial BCAA carrier SLC25A44 is required for optimal fever. ELife, 2021, 10, .	6.0	15
88	BostrÃ¶m et al. reply. Nature, 2012, 488, E10-E11.	27.8	14
89	Î²3-Adrenergic receptor agonist treats rotator cuff fatty infiltration by activating beige fat in mice. Journal of Shoulder and Elbow Surgery, 2021, 30, 373-386.	2.6	14
90	Physiological concentrations of ouabain rapidly inhibit prolactin release from the tilapia pituitary. General and Comparative Endocrinology, 2005, 143, 240-250.	1.8	13

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91	Confounding issues in the â€˜humanizedâ€™ BAT of mice. Nature Metabolism, 2020, 2, 303-304.	11.9	12
92	Cellular heterogeneity in brown adipose tissue. Journal of Clinical Investigation, 2019, 130, 65-67.	8.2	11
93	Oil does more than light the lamp: The multifaceted role of lipids in thermogenic fat. Developmental Cell, 2021, 56, 1408-1416.	7.0	10
94	<scp>AAV</scp> â€mediated gene therapy as a strategy to fight obesity and metabolic diseases. EMBO Molecular Medicine, 2018, 10, .	6.9	8
95	Kruppelâ€like factorÂ15 regulates fuel switching between glucose and fatty acids in brown adipocytes. Journal of Diabetes Investigation, 2021, 12, 1144-1151.	2.4	8
96	Sarco/endoplasmic reticulum Ca2+-ATPase (SERCA) activity is required for V(D)J recombination. Journal of Experimental Medicine, 2021, 218, .	8.5	8
97	A new way to ignite thermogenesis in human adipose tissue. Nature Reviews Endocrinology, 2020, 16, 475-476.	9.6	6
98	Is thermogenesis really needed for brown adipose tissueâ€“mediated metabolic benefit?. Journal of Clinical Investigation, 2022, 132, .	8.2	6
99	Gonadal development and expression profiles of gonadotropin genes in wild sea conger, Ariosoma meeki. Fish Physiology and Biochemistry, 2003, 28, 95-96.	2.3	5
100	Detouring adrenergic stimulation to induce adipose thermogenesis. Nature Reviews Endocrinology, 2021, 17, 579-580.	9.6	3
101	Identification of growth hormone receptor in the ovary of tilapia, Oreochromis mossambicus. Fish Physiology and Biochemistry, 2003, 28, 211-212.	2.3	2
102	Naa10P puts a brake on PGC1Î± and fat browning. Nature Structural and Molecular Biology, 2019, 26, 849-851.	8.2	2
103	The epigenetic regulation of adipose tissue plasticity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	2
104	PDGFA Makes Thin Skin Thicker: Molecular Regulation of Adipose Progenitor Maintenance. Cell Stem Cell, 2016, 19, 675-676.	11.1	1
105	Bioenergetics matter to metabolic healthâ€"from a fat progenitor view. Cell Stem Cell, 2021, 28, 589-591.	11.1	1
106	Title is missing!. Kagaku To Seibutsu, 2012, 50, 11-13.	0.0	0
107	Expression profiles of two gonadotropin Î² subunit (GTH-I Î² and GTH-II Î²) gene during gametogenesis in the Japanese flounder, <i>Paralichthys olivaceus</i>. Fisheries Science, 2002, 68, 1265-1266.	1.6	0
108	Abstract 2673: Inhibition of fatty-acid oxidation as a therapy for MYC-overexpressing triple-negative breast cancer. , 2016, , .		0

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109	Abstract 2398: Tumor cell-adipocyte gap junctions activate lipolysis in breast cancer. , 2018, , .		0
110	Activation of UCP1-Independent Ca2+ Cycling Thermogenesis by Wireless Optogenetics. Methods in Molecular Biology, 2022, 2448, 131-139.	0.9	0