

Shingo Kajimura

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

26,884
citations

26567

56
h-index

26548

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). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	A PGC1- β -dependent myokine that drives brown-fat-like development of white fat and thermogenesis. <i>Nature</i> , 2012, 481, 463-468.	13.7	3,646
3	PRDM16 controls a brown fat/skeletal muscle switch. <i>Nature</i> , 2008, 454, 961-967.	13.7	1,997
4	Prdm16 determines the thermogenic program of subcutaneous white adipose tissue in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 96-105.	3.9	1,036
5	Transcriptional Control of Brown Fat Determination by PRDM16. <i>Cell Metabolism</i> , 2007, 6, 38-54.	7.2	996
6	Anti-diabetic drugs inhibit obesity-linked phosphorylation of PPAR β by Cdk5. <i>Nature</i> , 2010, 466, 451-456.	13.7	793
7	Brown and Beige Fat: Physiological Roles beyond Heat Generation. <i>Cell Metabolism</i> , 2015, 22, 546-559.	7.2	763
8	Ablation of PRDM16 and Beige Adipose Causes Metabolic Dysfunction and a Subcutaneous to Visceral Fat Switch. <i>Cell</i> , 2014, 156, 304-316.	13.5	719
9	PPAR β agonists Induce a White-to-Brown Fat Conversion through Stabilization of PRDM16 Protein. <i>Cell Metabolism</i> , 2012, 15, 395-404.	7.2	658
10	Initiation of myoblast to brown fat switch by a PRDM16-C/EBP- β transcriptional complex. <i>Nature</i> , 2009, 460, 1154-1158.	13.7	620
11	A Creatine-Driven Substrate Cycle Enhances Energy Expenditure and Thermogenesis in Beige Fat. <i>Cell</i> , 2015, 163, 643-655.	13.5	575
12	Brown and beige fat in humans: thermogenic adipocytes that control energy and glucose homeostasis. <i>Journal of Clinical Investigation</i> , 2015, 125, 478-486.	3.9	547
13	Human BAT Possesses Molecular Signatures That Resemble Beige/Brite Cells. <i>PLoS ONE</i> , 2012, 7, e49452.	1.1	541
14	UCP1-independent signaling involving SERCA2b-mediated calcium cycling regulates beige fat thermogenesis and systemic glucose homeostasis. <i>Nature Medicine</i> , 2017, 23, 1454-1465.	15.2	429
15	Regulation of the brown and white fat gene programs through a PRDM16/CtBP transcriptional complex. <i>Genes and Development</i> , 2008, 22, 1397-1409.	2.7	393
16	Inhibition of fatty acid oxidation as a therapy for MYC-overexpressing triple-negative breast cancer. <i>Nature Medicine</i> , 2016, 22, 427-432.	15.2	381
17	Accumulation of succinate controls activation of adipose tissue thermogenesis. <i>Nature</i> , 2018, 560, 102-106.	13.7	380
18	The Common and Distinct Features of Brown and Beige Adipocytes. <i>Trends in Endocrinology and Metabolism</i> , 2018, 29, 191-200.	3.1	377

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19	Genetic and functional characterization of clonally derived adult human brown adipocytes. <i>Nature Medicine</i> , 2015, 21, 389-394.	15.2	366
20	Transcriptional Control of Brown Fat Development. <i>Cell Metabolism</i> , 2010, 11, 257-262.	7.2	362
21	A New Era in Brown Adipose Tissue Biology: Molecular Control of Brown Fat Development and Energy Homeostasis. <i>Annual Review of Physiology</i> , 2014, 76, 225-249.	5.6	348
22	BCAA catabolism in brown fat controls energy homeostasis through SLC25A44. <i>Nature</i> , 2019, 572, 614-619.	13.7	332
23	Beige Adipocyte Maintenance Is Regulated by Autophagy-Induced Mitochondrial Clearance. <i>Cell Metabolism</i> , 2016, 24, 402-419.	7.2	282
24	EHMT1 controls brown adipose cell fate and thermogenesis through the PRDM16 complex. <i>Nature</i> , 2013, 504, 163-167.	13.7	272
25	Brown Adipose Tissue Activation Is Linked to Distinct Systemic Effects on Lipid Metabolism in Humans. <i>Cell Metabolism</i> , 2016, 23, 1200-1206.	7.2	264
26	Transcriptional control of brown adipocyte development and physiological function of mice and men. <i>Genes and Development</i> , 2009, 23, 788-797.	2.7	250
27	Transcriptional and epigenetic control of brown and beige adipose cell fate and function. <i>Nature Reviews Molecular Cell Biology</i> , 2016, 17, 480-495.	16.1	243
28	Insulin-like growth factor-binding protein-1 (IGFBP-1) mediates hypoxia-induced embryonic growth and developmental retardation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 1240-1245.	3.3	226
29	Metabolic adaptation and maladaptation in adipose tissue. <i>Nature Metabolism</i> , 2019, 1, 189-200.	5.1	224
30	The cellular and functional complexity of thermogenic fat. <i>Nature Reviews Molecular Cell Biology</i> , 2021, 22, 393-409.	16.1	203
31	Regulation of systemic energy homeostasis by serotonin in adipose tissues. <i>Nature Communications</i> , 2015, 6, 6794.	5.8	187
32	Thermal stress induces glycolytic beige fat formation via a myogenic state. <i>Nature</i> , 2019, 565, 180-185.	13.7	178
33	Mitochondrial Patch Clamp of Beige Adipocytes Reveals UCP1-Positive and UCP1-Negative Cells Both Exhibiting Futile Creatine Cycling. <i>Cell Metabolism</i> , 2017, 25, 811-822.e4.	7.2	174
34	CD81 Controls Beige Fat Progenitor Cell Growth and Energy Balance via FAK Signaling. <i>Cell</i> , 2020, 182, 563-577.e20.	13.5	156
35	Effects of fasting on growth hormone/insulin-like growth factor I axis in the tilapia, <i>Oreochromis mossambicus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2003, 134, 429-439.	0.8	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. <i>Molecular and Cellular Biology</i> , 2006, 26, 1142-1155.	1.1	138

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37	Repression of Adipose Tissue Fibrosis through a PRDM16-GTF2IRD1 Complex Improves Systemic Glucose Homeostasis. <i>Cell Metabolism</i> , 2018, 27, 180-194.e6.	7.2	133
38	A Secreted Slit2 Fragment Regulates Adipose Tissue Thermogenesis and Metabolic Function. <i>Cell Metabolism</i> , 2016, 23, 454-466.	7.2	122
39	Mitophagy controls beige adipocyte maintenance through a Parkin-dependent and UCP1-independent mechanism. <i>Science Signaling</i> , 2018, 11, .	1.6	116
40	Regulation of Early Adipose Commitment by Zfp521. <i>PLoS Biology</i> , 2012, 10, e1001433.	2.6	114
41	Dual mode of cortisol action on GH/IGF-I/IGF binding proteins in the tilapia, <i>Oreochromis mossambicus</i> . <i>Journal of Endocrinology</i> , 2003, 178, 91-99.	1.2	94
42	A Novel Therapeutic Approach to Treating Obesity through Modulation of TGF β 2 Signaling. <i>Endocrinology</i> , 2012, 153, 3133-3146.	1.4	94
43	ThermoMouse: An In Vivo Model to Identify Modulators of UCP1 Expression in Brown Adipose Tissue. <i>Cell Reports</i> , 2014, 9, 1584-1593.	2.9	94
44	A Synergistic Antiobesity Effect by a Combination of Capsinoids and Cold Temperature Through Promoting Beige Adipocyte Biogenesis. <i>Diabetes</i> , 2016, 65, 1410-1423.	0.3	90
45	JMJD1A is a signal-sensing scaffold that regulates acute chromatin dynamics via SWI/SNF association for thermogenesis. <i>Nature Communications</i> , 2015, 6, 7052.	5.8	87
46	Isolation and Differentiation of Stromal Vascular Cells to Beige/Brite Cells. <i>Journal of Visualized Experiments</i> , 2013, , .	0.2	86
47	Identification of the growth hormone receptor in an advanced teleost, the tilapia (<i>Oreochromis</i>) Tj ETQq1 1 0.784314 rgBT /Overlock <i>Endocrinology</i> , 2004, 181, 65-76.	1.2	83
48	Effects of environmental osmolality on release of prolactin, growth hormone and ACTH from the tilapia pituitary. <i>General and Comparative Endocrinology</i> , 2002, 128, 91-101.	0.8	81
49	cDNA Cloning of Two Gonadotropin β Subunits (GTH- β 2 and - β 1 β 2) and Their Expression Profiles during Gametogenesis in the Japanese Flounder (<i>Paralichthys olivaceus</i>). <i>General and Comparative Endocrinology</i> , 2001, 122, 117-129.	0.8	78
50	Relevance of brown adipose tissue in infancy and adolescence. <i>Pediatric Research</i> , 2013, 73, 3-9.	1.1	74
51	Phosphoproteomics Identifies CK2 as a Negative Regulator of Beige Adipocyte Thermogenesis and Energy Expenditure. <i>Cell Metabolism</i> , 2015, 22, 997-1008.	7.2	74
52	Mitochondrial homeostasis in adipose tissue remodeling. <i>Science Signaling</i> , 2017, 10, .	1.6	74
53	Role of IGF signaling in catch-up growth and accelerated temporal development in zebrafish embryos in response to oxygen availability. <i>Development (Cambridge)</i> , 2011, 138, 777-786.	1.2	73
54	Actomyosin-Mediated Tension Orchestrates Uncoupled Respiration in Adipose Tissues. <i>Cell Metabolism</i> , 2018, 27, 602-615.e4.	7.2	70

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55	Histone demethylase JMJD1A coordinates acute and chronic adaptation to cold stress via thermogenic phospho-switch. <i>Nature Communications</i> , 2018, 9, 1566.	5.8	68
56	Immunomodulatory effects of prolactin and growth hormone in the tilapia, <i>Oreochromis mossambicus</i> . <i>Journal of Endocrinology</i> , 2002, 173, 483-492.	1.2	60
57	Title is missing!. <i>Fish Physiology and Biochemistry</i> , 2001, 25, 221-230.	0.9	58
58	Advances in the understanding of adipose tissue biology. <i>Nature Reviews Endocrinology</i> , 2017, 13, 69-70.	4.3	58
59	<i>Bacteroides</i> spp. promotes branched-chain amino acid catabolism in brown fat and inhibits obesity. <i>IScience</i> , 2021, 24, 103342.	1.9	58
60	A combination of exercise and capsinoid supplementation additively suppresses diet-induced obesity by increasing energy expenditure in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 308, E315-E323.	1.8	52
61	Zinc transporter ZIP13 suppresses beige adipocyte biogenesis and energy expenditure by regulating C/EBP- β expression. <i>PLoS Genetics</i> , 2017, 13, e1006950.	1.5	50
62	Mitochondrial lipoylation integrates age-associated decline in brown fat thermogenesis. <i>Nature Metabolism</i> , 2019, 1, 886-898.	5.1	50
63	Modulation of PGC-1 Coactivator Pathways in Brown Fat Differentiation through LRP130. <i>Journal of Biological Chemistry</i> , 2008, 283, 31960-31967.	1.6	49
64	The pesticide chlorpyrifos promotes obesity by inhibiting diet-induced thermogenesis in brown adipose tissue. <i>Nature Communications</i> , 2021, 12, 5163.	5.8	47
65	An Evolutionarily Conserved uORF Regulates PGC1 β and Oxidative Metabolism in Mice, Flies, and Bluefin Tuna. <i>Cell Metabolism</i> , 2019, 30, 190-200.e6.	7.2	45
66	Branched-chain β -ketoacids are preferentially reaminated and activate protein synthesis in the heart. <i>Nature Communications</i> , 2021, 12, 1680.	5.8	45
67	Effects of insulin-like growth factors (IGF-I and -II) on growth hormone and prolactin release and gene expression in euryhaline tilapia, <i>Oreochromis mossambicus</i> . <i>General and Comparative Endocrinology</i> , 2002, 127, 223-231.	0.8	39
68	Wireless optogenetics protects against obesity via stimulation of non-canonical fat thermogenesis. <i>Nature Communications</i> , 2020, 11, 1730.	5.8	39
69	Obesity-Linked Phosphorylation of SIRT1 by Casein Kinase 2 Inhibits Its Nuclear Localization and Promotes Fatty Liver. <i>Molecular and Cellular Biology</i> , 2017, 37, .	1.1	37
70	Obesity is associated with depot-specific alterations in adipocyte DNA methylation and gene expression. <i>Adipocyte</i> , 2017, 6, 124-133.	1.3	34
71	Insulin-like growth factor-binding protein-1: an evolutionarily conserved fine tuner of insulin-like growth factor action under catabolic and stressful conditions. <i>Journal of Fish Biology</i> , 2007, 71, 309-325.	0.7	33
72	In vitro effects of cortisol on the release and gene expression of prolactin and growth hormone in the tilapia, <i>Oreochromis mossambicus</i> . <i>General and Comparative Endocrinology</i> , 2004, 135, 116-125.	0.8	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?. <i>General and Comparative Endocrinology</i> , 2004, 135, 90-99.	0.8	30
74	Mitochondrial Activity in Human White Adipocytes Is Regulated by the Ubiquitin Carrier Protein 9/microRNA-30a Axis. <i>Journal of Biological Chemistry</i> , 2016, 291, 24747-24755.	1.6	30
75	Comparative analysis of microRNA expression in mouse and human brown adipose tissue. <i>BMC Genomics</i> , 2015, 16, 820.	1.2	29
76	The major cap-binding protein eIF4E regulates lipid homeostasis and diet-induced obesity. <i>Nature Metabolism</i> , 2021, 3, 244-257.	5.1	29
77	The regulation of glucose and lipid homeostasis via PLTP as a mediator of BAT-liver communication. <i>EMBO Reports</i> , 2020, 21, e49828.	2.0	28
78	Mammary alveolar epithelial cells convert to brown adipocytes in post-lactating mice. <i>Journal of Cellular Physiology</i> , 2017, 232, 2923-2928.	2.0	26
79	Prolactin receptor and proliferating/apoptotic cells in esophagus of the Mozambique tilapia (<i>Oreochromis mossambicus</i>) in fresh water and in seawater. <i>General and Comparative Endocrinology</i> , 2007, 152, 326-331.	0.8	22
80	Multifaceted Roles of Beige Fat in Energy Homeostasis Beyond UCP1. <i>Endocrinology</i> , 2018, 159, 2545-2553.	1.4	22
81	Adrenergic-Independent Signaling via CHRNA2 Regulates Beige Fat Activation. <i>Developmental Cell</i> , 2020, 54, 106-116.e5.	3.1	22
82	Changes in the levels of mRNA coding for gonadotropin Ibeta and IIbeta subunits during vitellogenesis in the common Japanese conger <i>Conger myriaster</i> . <i>Fisheries Science</i> , 2001, 67, 1053-1062.	0.7	19
83	Intramuscular Brown Fat Activation Decreases Muscle Atrophy and Fatty Infiltration and Improves Gait After Delayed Rotator Cuff Repair in Mice. <i>American Journal of Sports Medicine</i> , 2020, 48, 1590-1600.	1.9	19
84	Burning Fat and Building Bone by FSH Blockade. <i>Cell Metabolism</i> , 2017, 26, 285-287.	7.2	17
85	Lightening up a notch: Notch regulation of energy metabolism. <i>Nature Medicine</i> , 2014, 20, 811-812.	15.2	16
86	Engineering Fat Cell Fate to Fight Obesity and Metabolic Diseases. <i>Keio Journal of Medicine</i> , 2015, 64, 65-65.	0.5	15
87	Metabolic flexibility via mitochondrial BCAA carrier SLC25A44 is required for optimal fever. <i>ELife</i> , 2021, 10, .	2.8	15
88	Boström et al. reply. <i>Nature</i> , 2012, 488, E10-E11.	13.7	14
89	β3-Adrenergic receptor agonist treats rotator cuff fatty infiltration by activating beige fat in mice. <i>Journal of Shoulder and Elbow Surgery</i> , 2021, 30, 373-386.	1.2	14
90	Physiological concentrations of ouabain rapidly inhibit prolactin release from the tilapia pituitary. <i>General and Comparative Endocrinology</i> , 2005, 143, 240-250.	0.8	13

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91	Confounding issues in the “humanized” BAT of mice. <i>Nature Metabolism</i> , 2020, 2, 303-304.	5.1	12
92	Cellular heterogeneity in brown adipose tissue. <i>Journal of Clinical Investigation</i> , 2019, 130, 65-67.	3.9	11
93	Oil does more than light the lamp: The multifaceted role of lipids in thermogenic fat. <i>Developmental Cell</i> , 2021, 56, 1408-1416.	3.1	10
94	AAV-mediated gene therapy as a strategy to fight obesity and metabolic diseases. <i>EMBO Molecular Medicine</i> , 2018, 10, .	3.3	8
95	Kruppel-like factor 15 regulates fuel switching between glucose and fatty acids in brown adipocytes. <i>Journal of Diabetes Investigation</i> , 2021, 12, 1144-1151.	1.1	8
96	Sarco/endoplasmic reticulum Ca ²⁺ -ATPase (SERCA) activity is required for V(D)J recombination. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	8
97	A new way to ignite thermogenesis in human adipose tissue. <i>Nature Reviews Endocrinology</i> , 2020, 16, 475-476.	4.3	6
98	Is thermogenesis really needed for brown adipose tissue-mediated metabolic benefit?. <i>Journal of Clinical Investigation</i> , 2022, 132, .	3.9	6
99	Gonadal development and expression profiles of gonadotropin genes in wild sea conger, <i>Ariosoma meeki</i> . <i>Fish Physiology and Biochemistry</i> , 2003, 28, 95-96.	0.9	5
100	Detouring adrenergic stimulation to induce adipose thermogenesis. <i>Nature Reviews Endocrinology</i> , 2021, 17, 579-580.	4.3	3
101	Identification of growth hormone receptor in the ovary of tilapia, <i>Oreochromis mossambicus</i> . <i>Fish Physiology and Biochemistry</i> , 2003, 28, 211-212.	0.9	2
102	Naa10P puts a brake on PGC1 β and fat browning. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 849-851.	3.6	2
103	The epigenetic regulation of adipose tissue plasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	2
104	PDGFA Makes Thin Skin Thicker: Molecular Regulation of Adipose Progenitor Maintenance. <i>Cell Stem Cell</i> , 2016, 19, 675-676.	5.2	1
105	Bioenergetics matter to metabolic health” from a fat progenitor view. <i>Cell Stem Cell</i> , 2021, 28, 589-591.	5.2	1
106	Title is missing!. <i>Kagaku To Seibutsu</i> , 2012, 50, 11-13.	0.0	0
107	Expression profiles of two gonadotropin β subunit (GTH-I β and GTH-II β) gene during gametogenesis in the Japanese flounder, <i>Paralichthys olivaceus</i> . <i>Fisheries Science</i> , 2002, 68, 1265-1266.	0.7	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 Ca ²⁺ Cycling Thermogenesis by Wireless Optogenetics. Methods in Molecular Biology, 2022, 2448, 131-139.	0.4	0