

Shingo Kajimura

List of Publications by Citations

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107
papers

20,495
citations

54
h-index

115
g-index

115
ext. papers

24,189
ext. citations

17.1
avg. IF

6.77
L-index

#	Paper	IF	Citations
107	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
106	A PGC1- β -dependent myokine that drives brown-fat-like development of white fat and thermogenesis. <i>Nature</i> , 2012 , 481, 463-8	50.4	2762
105	PRDM16 controls a brown fat/skeletal muscle switch. <i>Nature</i> , 2008 , 454, 961-7	50.4	1645
104	Prdm16 determines the thermogenic program of subcutaneous white adipose tissue in mice. <i>Journal of Clinical Investigation</i> , 2011 , 121, 96-105	15.9	857
103	Transcriptional control of brown fat determination by PRDM16. <i>Cell Metabolism</i> , 2007 , 6, 38-54	24.6	827
102	Anti-diabetic drugs inhibit obesity-linked phosphorylation of PPAR γ by Cdk5. <i>Nature</i> , 2010 , 466, 451-6	50.4	654
101	Ablation of PRDM16 and beige adipose causes metabolic dysfunction and a subcutaneous to visceral fat switch. <i>Cell</i> , 2014 , 156, 304-16	56.2	569
100	Brown and Beige Fat: Physiological Roles beyond Heat Generation. <i>Cell Metabolism</i> , 2015 , 22, 546-59	24.6	545
99	PPAR β agonists induce a white-to-brown fat conversion through stabilization of PRDM16 protein. <i>Cell Metabolism</i> , 2012 , 15, 395-404	24.6	532
98	Initiation of myoblast to brown fat switch by a PRDM16-C/EBP- β transcriptional complex. <i>Nature</i> , 2009 , 460, 1154-8	50.4	528
97	Human BAT possesses molecular signatures that resemble beige/brite cells. <i>PLoS ONE</i> , 2012 , 7, e49452	3.7	465
96	A creatine-driven substrate cycle enhances energy expenditure and thermogenesis in beige fat. <i>Cell</i> , 2015 , 163, 643-55	56.2	405
95	Brown and beige fat in humans: thermogenic adipocytes that control energy and glucose homeostasis. <i>Journal of Clinical Investigation</i> , 2015 , 125, 478-86	15.9	401
94	Regulation of the brown and white fat gene programs through a PRDM16/CtBP transcriptional complex. <i>Genes and Development</i> , 2008 , 22, 1397-409	12.6	340
93	Transcriptional control of brown fat development. <i>Cell Metabolism</i> , 2010 , 11, 257-62	24.6	316
92	Genetic and functional characterization of clonally derived adult human brown adipocytes. <i>Nature Medicine</i> , 2015 , 21, 389-94	50.5	293
91	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, 225-49	23.1	274

90	UCP1-independent signaling involving SERCA2b-mediated calcium cycling regulates beige fat thermogenesis and systemic glucose homeostasis. <i>Nature Medicine</i> , 2017 , 23, 1454-1465	50.5	270
89	Inhibition of fatty acid oxidation as a therapy for MYC-overexpressing triple-negative breast cancer. <i>Nature Medicine</i> , 2016 , 22, 427-32	50.5	258
88	The Common and Distinct Features of Brown and Beige Adipocytes. <i>Trends in Endocrinology and Metabolism</i> , 2018 , 29, 191-200	8.8	246
87	EHMT1 controls brown adipose cell fate and thermogenesis through the PRDM16 complex. <i>Nature</i> , 2013 , 504, 163-7	50.4	223
86	Transcriptional control of brown adipocyte development and physiological function--of mice and men. <i>Genes and Development</i> , 2009 , 23, 788-97	12.6	220
85	Accumulation of succinate controls activation of adipose tissue thermogenesis. <i>Nature</i> , 2018 , 560, 102-106	50.4	204
84	Beige Adipocyte Maintenance Is Regulated by Autophagy-Induced Mitochondrial Clearance. <i>Cell Metabolism</i> , 2016 , 24, 402-419	24.6	191
83	Brown Adipose Tissue Activation Is Linked to Distinct Systemic Effects on Lipid Metabolism in Humans. <i>Cell Metabolism</i> , 2016 , 23, 1200-1206	24.6	184
82	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, 1240-5	11.5	182
81	BCAA catabolism in brown fat controls energy homeostasis through SLC25A44. <i>Nature</i> , 2019 , 572, 614-619	50.4	172
80	Transcriptional and epigenetic control of brown and beige adipose cell fate and function. <i>Nature Reviews Molecular Cell Biology</i> , 2016 , 17, 480-95	48.7	158
79	Regulation of systemic energy homeostasis by serotonin in adipose tissues. <i>Nature Communications</i> , 2015 , 6, 6794	17.4	141
78	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	24.6	132
77	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, 429-39	2.6	125
76	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, 1142-55	4.8	122
75	Thermal stress induces glycolytic beige fat formation via a myogenic state. <i>Nature</i> , 2019 , 565, 180-185	50.4	103
74	Metabolic adaptation and maladaptation in adipose tissue. <i>Nature Metabolism</i> , 2019 , 1, 189-200	14.6	100
73	A Secreted Slit2 Fragment Regulates Adipose Tissue Thermogenesis and Metabolic Function. <i>Cell Metabolism</i> , 2016 , 23, 454-66	24.6	92

72	Regulation of early adipose commitment by Zfp521. <i>PLoS Biology</i> , 2012 , 10, e1001433	9.7	90
71	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, 91-9	4.7	81
70	A novel therapeutic approach to treating obesity through modulation of TGF β signaling. <i>Endocrinology</i> , 2012 , 153, 3133-46	4.8	80
69	Repression of Adipose Tissue Fibrosis through a PRDM16-GTF2IRD1 Complex Improves Systemic Glucose Homeostasis. <i>Cell Metabolism</i> , 2018 , 27, 180-194.e6	24.6	77
68	Identification of the growth hormone receptor in an advanced teleost, the tilapia (<i>Oreochromis mossambicus</i>) with special reference to its distinct expression pattern in the ovary. <i>Journal of Endocrinology</i> , 2004 , 181, 65-76	4.7	77
67	cDNA cloning of two gonadotropin beta subunits (GTH-Ibeta and -IIbeta) and their expression profiles during gametogenesis in the Japanese flounder (<i>Paralichthys olivaceus</i>). <i>General and Comparative Endocrinology</i> , 2001 , 122, 117-29	3	76
66	Mitophagy controls beige adipocyte maintenance through a Parkin-dependent and UCP1-independent mechanism. <i>Science Signaling</i> , 2018 , 11,	8.8	75
65	JMJD1A is a signal-sensing scaffold that regulates acute chromatin dynamics via SWI/SNF association for thermogenesis. <i>Nature Communications</i> , 2015 , 6, 7052	17.4	72
64	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	3	70
63	CD81 Controls Beige Fat Progenitor Cell Growth and Energy Balance via FAK Signaling. <i>Cell</i> , 2020 , 182, 563-577.e20	56.2	69
62	ThermoMouse: an in vivo model to identify modulators of UCP1 expression in brown adipose tissue. <i>Cell Reports</i> , 2014 , 9, 1584-1593	10.6	69
61	Isolation and differentiation of stromal vascular cells to beige/brite cells. <i>Journal of Visualized Experiments</i> , 2013 ,	1.6	69
60	A Synergistic Antiobesity Effect by a Combination of Capsinoids and Cold Temperature Through Promoting Beige Adipocyte Biogenesis. <i>Diabetes</i> , 2016 , 65, 1410-23	0.9	64
59	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, 777-86	6.6	58
58	Phosphoproteomics Identifies CK2 as a Negative Regulator of Beige Adipocyte Thermogenesis and Energy Expenditure. <i>Cell Metabolism</i> , 2015 , 22, 997-1008	24.6	56
57	Immunomodulatory effects of prolactin and growth hormone in the tilapia, <i>Oreochromis mossambicus</i> . <i>Journal of Endocrinology</i> , 2002 , 173, 483-92	4.7	56
56	Relevance of brown adipose tissue in infancy and adolescence. <i>Pediatric Research</i> , 2013 , 73, 3-9	3.2	55
55	Mitochondrial homeostasis in adipose tissue remodeling. <i>Science Signaling</i> , 2017 , 10,	8.8	54

54	Stimulation of insulin-like growth factor-I production by recombinant bovine growth hormone in Mozambique tilapia, <i>Oreochromis mossambicus</i> . <i>Fish Physiology and Biochemistry</i> , 2001 , 25, 221-230	2.7	54
53	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, E315-23	6	50
52	Adipose tissue in 2016: Advances in the understanding of adipose tissue biology. <i>Nature Reviews Endocrinology</i> , 2017 , 13, 69-70	15.2	47
51	The cellular and functional complexity of thermogenic fat. <i>Nature Reviews Molecular Cell Biology</i> , 2021 , 22, 393-409	48.7	44
50	Modulation of PGC-1 coactivator pathways in brown fat differentiation through LRP130. <i>Journal of Biological Chemistry</i> , 2008 , 283, 31960-7	5.4	42
49	Actomyosin-Mediated Tension Orchestrates Uncoupled Respiration in Adipose Tissues. <i>Cell Metabolism</i> , 2018 , 27, 602-615.e4	24.6	38
48	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, 223-31	3	35
47	Zinc transporter ZIP13 suppresses beige adipocyte biogenesis and energy expenditure by regulating C/EBP- β expression. <i>PLoS Genetics</i> , 2017 , 13, e1006950	6	34
46	Histone demethylase JMJD1A coordinates acute and chronic adaptation to cold stress via thermogenic phospho-switch. <i>Nature Communications</i> , 2018 , 9, 1566	17.4	33
45	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	1.9	31
44	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,	4.8	30
43	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, 116-25	3	27
42	Comparative analysis of microRNA expression in mouse and human brown adipose tissue. <i>BMC Genomics</i> , 2015 , 16, 820	4.5	26
41	Mitochondrial lipoylation integrates age-associated decline in brown fat thermogenesis. <i>Nature Metabolism</i> , 2019 , 1, 886-898	14.6	25
40	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, 90-9	3	24
39	Obesity is associated with depot-specific alterations in adipocyte DNA methylation and gene expression. <i>Adipocyte</i> , 2017 , 6, 124-133	3.2	20
38	Branched-chain β ketoacids are preferentially reaminated and activate protein synthesis in the heart. <i>Nature Communications</i> , 2021 , 12, 1680	17.4	20
37	Mammary alveolar epithelial cells convert to brown adipocytes in post-lactating mice. <i>Journal of Cellular Physiology</i> , 2017 , 232, 2923-2928	7	19

36	An Evolutionarily Conserved uORF Regulates PGC1 α and Oxidative Metabolism in Mice, Flies, and Bluefin Tuna. <i>Cell Metabolism</i> , 2019 , 30, 190-200.e6	24.6	19
35	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	5.4	19
34	Wireless optogenetics protects against obesity via stimulation of non-canonical fat thermogenesis. <i>Nature Communications</i> , 2020 , 11, 1730	17.4	18
33	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, 326-31	3	18
32	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	1.9	17
31	Multifaceted Roles of Beige Fat in Energy Homeostasis Beyond UCP1. <i>Endocrinology</i> , 2018 , 159, 2545-2553	4.3	15
30	Lightening up a notch: Notch regulation of energy metabolism. <i>Nature Medicine</i> , 2014 , 20, 811-2	50.5	15
29	Burning Fat and Building Bone by FSH Blockade. <i>Cell Metabolism</i> , 2017 , 26, 285-287	24.6	14
28	Boström et al. reply. <i>Nature</i> , 2012 , 488, E10-E11	50.4	13
27	Physiological concentrations of ouabain rapidly inhibit prolactin release from the tilapia pituitary. <i>General and Comparative Endocrinology</i> , 2005 , 143, 240-50	3	11
26	Engineering Fat Cell Fate to Fight Obesity and Metabolic Diseases. <i>Keio Journal of Medicine</i> , 2015 , 64, 65	1.6	9
25	The regulation of glucose and lipid homeostasis via PLTP as a mediator of BAT-liver communication. <i>EMBO Reports</i> , 2020 , 21, e49828	6.5	9
24	The major cap-binding protein eIF4E regulates lipid homeostasis and diet-induced obesity. <i>Nature Metabolism</i> , 2021 , 3, 244-257	14.6	9
23	Adrenergic-Independent Signaling via CHRNA2 Regulates Beige Fat Activation. <i>Developmental Cell</i> , 2020 , 54, 106-116.e5	10.2	8
22	Confounding issues in the "humanized" BAT of mice. <i>Nature Metabolism</i> , 2020 , 2, 303-304	14.6	7
21	AAV-mediated gene therapy as a strategy to fight obesity and metabolic diseases. <i>EMBO Molecular Medicine</i> , 2018 , 10,	12	6
20	Cellular heterogeneity in brown adipose tissue. <i>Journal of Clinical Investigation</i> , 2020 , 130, 65-67	15.9	6
19	spp. promotes branched-chain amino acid catabolism in brown fat and inhibits obesity. <i>IScience</i> , 2021 , 24, 103342	6.1	6

