Shingo Kajimura

List of Publications by Year in Descending Order

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	Activation of UCP1-Independent Ca Cycling Thermogenesis by Wireless Optogenetics.. *Methods in Molecular Biology*, **2022**, 2448, 131-139	1.4	
106	spp. promotes branched-chain amino acid catabolism in brown fat and inhibits obesity. *IScience*, **2021**, 24, 103342	6.1	6
105	The cellular and functional complexity of thermogenic fat. *Nature Reviews Molecular Cell Biology*, **2021**, 22, 393-409	48.7	44
104	Branched-chain ketoacids are preferentially reaminated and activate protein synthesis in the heart. *Nature Communications*, **2021**, 12, 1680	17.4	20
103	The epigenetic regulation of adipose tissue plasticity. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	1
102	Bioenergetics matter to metabolic health-from a fat progenitor view. *Cell Stem Cell*, **2021**, 28, 589-591	18	1
101	Metabolic flexibility via mitochondrial BCAA carrier SLC25A44 is required for optimal fever. *ELife*, **2021**, 10,	8.9	2
100	Oil does more than light the lamp: The multifaceted role of lipids in thermogenic fat. *Developmental Cell*, **2021**, 56, 1408-1416	10.2	3
99	Detouring adrenergic stimulation to induce adipose thermogenesis. *Nature Reviews Endocrinology*, **2021**, 17, 579-580	15.2	1
98	Adrenergic receptor agonist treats rotator cuff fatty infiltration by activating beige fat in mice. *Journal of Shoulder and Elbow Surgery*, **2021**, 30, 373-386	4.3	5
97	Kruppel-like factor 15 regulates fuel switching between glucose and fatty acids in brown adipocytes. *Journal of Diabetes Investigation*, **2021**, 12, 1144-1151	3.9	3
96	The major cap-binding protein eIF4E regulates lipid homeostasis and diet-induced obesity. *Nature Metabolism*, **2021**, 3, 244-257	14.6	9
95	The pesticide chlorpyrifos promotes obesity by inhibiting diet-induced thermogenesis in brown adipose tissue. *Nature Communications*, **2021**, 12, 5163	17.4	4
94	Adrenergic-Independent Signaling via CHRNA2 Regulates Beige Fat Activation. *Developmental Cell*, **2020**, 54, 106-116.e5	10.2	8
93	Wireless optogenetics protects against obesity via stimulation of non-canonical fat thermogenesis. *Nature Communications*, **2020**, 11, 1730	17.4	18
92	A new way to ignite thermogenesis in human adipose tissue. *Nature Reviews Endocrinology*, **2020**, 16, 475-476	15.2	0
91	CD81 Controls Beige Fat Progenitor Cell Growth and Energy Balance via FAK Signaling. *Cell*, **2020**, 182, 563-577.e20	56.2	69

90	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	6.8	5
89	Cellular heterogeneity in brown adipose tissue. *Journal of Clinical Investigation*, **2020**, 130, 65-67	15.9	6
88	The regulation of glucose and lipid homeostasis via PLTP as a mediator of BAT-liver communication. *EMBO Reports*, **2020**, 21, e49828	6.5	9
87	Confounding issues in the "humanized" BAT of mice. *Nature Metabolism*, **2020**, 2, 303-304	14.6	7
86	BCAA catabolism in brown fat controls energy homeostasis through SLC25A44. *Nature*, **2019**, 572, 614-619	50.4	172
85	Naa10P puts a brake on PGC1α and fat browning. *Nature Structural and Molecular Biology*, **2019**, 26, 849-851	14.6	1
84	Mitochondrial lipoylation integrates age-associated decline in brown fat thermogenesis. *Nature Metabolism*, **2019**, 1, 886-898	14.6	25
83	Metabolic adaptation and maladaptation in adipose tissue. *Nature Metabolism*, **2019**, 1, 189-200	14.6	100
82	An Evolutionarily Conserved uORF Regulates PGC1α and Oxidative Metabolism in Mice, Flies, and Bluefin Tuna. *Cell Metabolism*, **2019**, 30, 190-200.e6	24.6	19
81	Thermal stress induces glycolytic beige fat formation via a myogenic state. *Nature*, **2019**, 565, 180-185	50.4	103
80	Actomyosin-Mediated Tension Orchestrates Uncoupled Respiration in Adipose Tissues. *Cell Metabolism*, **2018**, 27, 602-615.e4	24.6	38
79	Histone demethylase JMJD1A coordinates acute and chronic adaptation to cold stress via thermogenic phospho-switch. *Nature Communications*, **2018**, 9, 1566	17.4	33
78	Mitophagy controls beige adipocyte maintenance through a Parkin-dependent and UCP1-independent mechanism. *Science Signaling*, **2018**, 11,	8.8	75
77	The Common and Distinct Features of Brown and Beige Adipocytes. *Trends in Endocrinology and Metabolism*, **2018**, 29, 191-200	8.8	246
76	Repression of Adipose Tissue Fibrosis through a PRDM16-GTF2IRD1 Complex Improves Systemic Glucose Homeostasis. *Cell Metabolism*, **2018**, 27, 180-194.e6	24.6	77
75	Accumulation of succinate controls activation of adipose tissue thermogenesis. *Nature*, **2018**, 560, 102-106	50.4	204
74	AAV-mediated gene therapy as a strategy to fight obesity and metabolic diseases. *EMBO Molecular Medicine*, **2018**, 10,	12	6
73	Multifaceted Roles of Beige Fat in Energy Homeostasis Beyond UCP1. *Endocrinology*, **2018**, 159, 2545-2553	4.8	15

72	Mitochondrial homeostasis in adipose tissue remodeling. *Science Signaling*, **2017**, 10,	8.8	54
71	Mammary alveolar epithelial cells convert to brown adipocytes in post-lactating mice. *Journal of Cellular Physiology*, **2017**, 232, 2923-2928	7	19
70	Obesity is associated with depot-specific alterations in adipocyte DNA methylation and gene expression. *Adipocyte*, **2017**, 6, 124-133	3.2	20
69	Obesity-Linked Phosphorylation of SIRT1 by Casein Kinase 2 Inhibits Its Nuclear Localization and Promotes Fatty Liver. *Molecular and Cellular Biology*, **2017**, 37,	4.8	30
68	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	24.6	132
67	Adipose tissue in 2016: Advances in the understanding of adipose tissue biology. *Nature Reviews Endocrinology*, **2017**, 13, 69-70	15.2	47
66	Zinc transporter ZIP13 suppresses beige adipocyte biogenesis and energy expenditure by regulating C/EBP-□expression. *PLoS Genetics*, **2017**, 13, e1006950	6	34
65	Burning Fat and Building Bone by FSH Blockade. *Cell Metabolism*, **2017**, 26, 285-287	24.6	14
64	UCP1-independent signaling involving SERCA2b-mediated calcium cycling regulates beige fat thermogenesis and systemic glucose homeostasis. *Nature Medicine*, **2017**, 23, 1454-1465	50.5	270
63	Beige Adipocyte Maintenance Is Regulated by Autophagy-Induced Mitochondrial Clearance. *Cell Metabolism*, **2016**, 24, 402-419	24.6	191
62	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	5.4	19
61	Transcriptional and epigenetic control of brown and beige adipose cell fate and function. *Nature Reviews Molecular Cell Biology*, **2016**, 17, 480-95	48.7	158
60	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222	10.2	3838
59	A Secreted Slit2 Fragment Regulates Adipose Tissue Thermogenesis and Metabolic Function. *Cell Metabolism*, **2016**, 23, 454-66	24.6	92
58	Inhibition of fatty acid oxidation as a therapy for MYC-overexpressing triple-negative breast cancer. *Nature Medicine*, **2016**, 22, 427-32	50.5	258
57	PDGFA Makes Thin Skin Thicker: Molecular Regulation of Adipose Progenitor Maintenance. *Cell Stem Cell*, **2016**, 19, 675-676	18	1
56	Brown Adipose Tissue Activation Is Linked to Distinct Systemic Effects on Lipid Metabolism in Humans. *Cell Metabolism*, **2016**, 23, 1200-1206	24.6	184
55	A Synergistic Antiobesity Effect by a Combination of Capsinoids and Cold Temperature Through Promoting Beige Adipocyte Biogenesis. *Diabetes*, **2016**, 65, 1410-23	0.9	64

54	Regulation of systemic energy homeostasis by serotonin in adipose tissues. *Nature Communications*, **2015**, 6, 6794	17.4	141
53	Brown and beige fat in humans: thermogenic adipocytes that control energy and glucose homeostasis. *Journal of Clinical Investigation*, **2015**, 125, 478-86	15.9	401
52	Genetic and functional characterization of clonally derived adult human brown adipocytes. *Nature Medicine*, **2015**, 21, 389-94	50.5	293
51	A creatine-driven substrate cycle enhances energy expenditure and thermogenesis in beige fat. *Cell*, **2015**, 163, 643-55	56.2	405
50	JMJD1A is a signal-sensing scaffold that regulates acute chromatin dynamics via SWI/SNF association for thermogenesis. *Nature Communications*, **2015**, 6, 7052	17.4	72
49	Brown and Beige Fat: Physiological Roles beyond Heat Generation. *Cell Metabolism*, **2015**, 22, 546-59	24.6	545
48	Phosphoproteomics Identifies CK2 as a Negative Regulator of Beige Adipocyte Thermogenesis and Energy Expenditure. *Cell Metabolism*, **2015**, 22, 997-1008	24.6	56
47	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, E315-23	6	50
46	Comparative analysis of microRNA expression in mouse and human brown adipose tissue. *BMC Genomics*, **2015**, 16, 820	4.5	26
45	Engineering Fat Cell Fate to Fight Obesity and Metabolic Diseases. *Keio Journal of Medicine*, **2015**, 64, 65	1.6	9
44	A new era in brown adipose tissue biology: molecular control of brown fat development and energy homeostasis. *Annual Review of Physiology*, **2014**, 76, 225-49	23.1	274
43	Lightening up a notch: Notch regulation of energy metabolism. *Nature Medicine*, **2014**, 20, 811-2	50.5	15
42	ThermoMouse: an in vivo model to identify modulators of UCP1 expression in brown adipose tissue. *Cell Reports*, **2014**, 9, 1584-1593	10.6	69
41	Ablation of PRDM16 and beige adipose causes metabolic dysfunction and a subcutaneous to visceral fat switch. *Cell*, **2014**, 156, 304-16	56.2	569
40	EHMT1 controls brown adipose cell fate and thermogenesis through the PRDM16 complex. *Nature*, **2013**, 504, 163-7	50.4	223
39	Isolation and differentiation of stromal vascular cells to beige/brite cells. *Journal of Visualized Experiments*, **2013**,	1.6	69
38	Relevance of brown adipose tissue in infancy and adolescence. *Pediatric Research*, **2013**, 73, 3-9	3.2	55
37	PPAR agonists induce a white-to-brown fat conversion through stabilization of PRDM16 protein. *Cell Metabolism*, **2012**, 15, 395-404	24.6	532

36	A novel therapeutic approach to treating obesity through modulation of TGF□signaling. *Endocrinology*, **2012**, 153, 3133-46	4.8	80
35	?????????????????????????? ????????????????????????. *Kagaku To Seibutsu*, **2012**, 50, 11-13	0	
34	A PGC1-□dependent myokine that drives brown-fat-like development of white fat and thermogenesis. *Nature*, **2012**, 481, 463-8	50.4	2762
33	Regulation of early adipose commitment by Zfp521. *PLoS Biology*, **2012**, 10, e1001433	9.7	90
32	Human BAT possesses molecular signatures that resemble beige/brite cells. *PLoS ONE*, **2012**, 7, e49452	3.7	465
31	Bostr□m et al. reply. *Nature*, **2012**, 488, E10-E11	50.4	13
30	Role of IGF signaling in catch-up growth and accelerated temporal development in zebrafish embryos in response to oxygen availability. *Development (Cambridge)*, **2011**, 138, 777-86	6.6	58
29	Prdm16 determines the thermogenic program of subcutaneous white adipose tissue in mice. *Journal of Clinical Investigation*, **2011**, 121, 96-105	15.9	857
28	Anti-diabetic drugs inhibit obesity-linked phosphorylation of PPARgamma by Cdk5. *Nature*, **2010**, 466, 451-6	50.4	654
27	Transcriptional control of brown fat development. *Cell Metabolism*, **2010**, 11, 257-62	24.6	316
26	Transcriptional control of brown adipocyte development and physiological function--of mice and men. *Genes and Development*, **2009**, 23, 788-97	12.6	220
25	Initiation of myoblast to brown fat switch by a PRDM16-C/EBP-beta transcriptional complex. *Nature*, **2009**, 460, 1154-8	50.4	528
24	PRDM16 controls a brown fat/skeletal muscle switch. *Nature*, **2008**, 454, 961-7	50.4	1645
23	Regulation of the brown and white fat gene programs through a PRDM16/CtBP transcriptional complex. *Genes and Development*, **2008**, 22, 1397-409	12.6	340
22	Modulation of PGC-1 coactivator pathways in brown fat differentiation through LRP130. *Journal of Biological Chemistry*, **2008**, 283, 31960-7	5.4	42
21	Insulin-like growth factor-binding protein-1: an evolutionarily conserved fine tuner of insulin-like growth factor action under catabolic and stressful conditions. *Journal of Fish Biology*, **2007**, 71, 309-325	1.9	31
20	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, 326-31	3	18
19	Transcriptional control of brown fat determination by PRDM16. *Cell Metabolism*, **2007**, 6, 38-54	24.6	827

18	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, 1142-55	4.8	122
17	Physiological concentrations of ouabain rapidly inhibit prolactin release from the tilapia pituitary. *General and Comparative Endocrinology*, **2005**, 143, 240-50	3	11
16	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, 1240-5	11.5	182
15	Identification of the growth hormone receptor in an advanced teleost, the tilapia (Oreochromis mossambicus) with special reference to its distinct expression pattern in the ovary. *Journal of Endocrinology*, **2004**, 181, 65-76	4.7	77
14	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, 90-9	3	24
13	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, 116-25	3	27
12	Dual mode of cortisol action on GH/IGF-I/IGF binding proteins in the tilapia, Oreochromis mossambicus. *Journal of Endocrinology*, **2003**, 178, 91-9	4.7	81
11	Gonadal development and expression profiles of gonadotropin genes in wild sea conger, Ariosoma meeki. *Fish Physiology and Biochemistry*, **2003**, 28, 95-96	2.7	4
10	Identification of growth hormone receptor in the ovary of tilapia, Oreochromis mossambicus. *Fish Physiology and Biochemistry*, **2003**, 28, 211-212	2.7	2
9	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, 429-39	2.6	125
8	Effects of environmental osmolality on release of prolactin, growth hormone and ACTH from the tilapia pituitary. *General and Comparative Endocrinology*, **2002**, 128, 91-101	3	70
7	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, 223-31	3	35
6	Immunomodulatory effects of prolactin and growth hormone in the tilapia, Oreochromis mossambicus. *Journal of Endocrinology*, **2002**, 173, 483-92	4.7	56
5	Expression profiles of two gonadotropin subunit (GTH-I and GTH-II gene during gametogenesis in the Japanese flounder, Paralichthys olivaceus. *Fisheries Science*, **2002**, 68, 1265-1266	1.9	
4	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	1.9	17
3	cDNA cloning of two gonadotropin beta subunits (GTH-Ibeta and -IIbeta) and their expression profiles during gametogenesis in the Japanese flounder (Paralichthys olivaceus). *General and Comparative Endocrinology*, **2001**, 122, 117-29	3	76
2	Stimulation of insulin-like growth factor-I production by recombinant bovine growth hormone in Mozambique tilapia, Oreochromis mossambicus. *Fish Physiology and Biochemistry*, **2001**, 25, 221-230	2.7	54
1	Tumor cell-adipocyte gap junctions activate lipolysis and are essential for breast tumorigenesis		1