Barbara Cannon

List of Publications by Year
in descending order

210 papers	26,822 citations	11235 73 h-index	6872 160 g-index
214 all docs	214 docs citations	214 times ranked	19792 citing authors

#	Article	IF	Citations
1	Brown Adipose Tissue: Function and Physiological Significance. Physiological Reviews, 2004, 84, 277-359.	13.1	5,263
2	Unexpected evidence for active brown adipose tissue in adult humans. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E444-E452.	1.8	1,492
3	UCP1 Ablation Induces Obesity and Abolishes Diet-Induced Thermogenesis in Mice Exempt from Thermal Stress by Living at Thermoneutrality. Cell Metabolism, 2009, 9, 203-209.	7.2	1,136
4	Chronic Peroxisome Proliferator-activated Receptor Î³ (PPARÎ³) Activation of Epididymally Derived White Adipocyte Cultures Reveals a Population of Thermogenically Competent, UCP1-containing Adipocytes Molecularly Distinct from Classic Brown Adipocytes. Journal of Biological Chemistry, 2010, 285, 7153-7164.	1.6	1,131
5	The presence of UCP1 demonstrates that metabolically active adipose tissue in the neck of adult humans truly represents brown adipose tissue. FASEB Journal, 2009, 23, 3113-3120.	0.2	667
6	Myogenic gene expression signature establishes that brown and white adipocytes originate from distinct cell lineages. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4401-4406.	3.3	637
7	Nonshivering thermogenesis and its adequate measurement in metabolic studies. Journal of Experimental Biology, 2011, 214, 242-253.	0.8	563
8	UCP1 in Brite/Beige Adipose Tissue Mitochondria Is Functionally Thermogenic. Cell Reports, 2013, 5, 1196-1203.	2.9	523
9	UCP1: the only protein able to mediate adaptive non-shivering thermogenesis and metabolic inefficiency. Biochimica Et Biophysica Acta - Bioenergetics, 2001, 1504, 82-106.	0.5	489
10	BMP8B Increases Brown Adipose Tissue Thermogenesis through Both Central and Peripheral Actions. Cell, 2012, 149, 871-885.	13.5	481
11	A Classical Brown Adipose Tissue mRNA Signature Partly Overlaps with Brite in the Supraclavicular Region of Adult Humans. Cell Metabolism, 2013, 17, 798-805.	7.2	474
12	Recruited vs. nonrecruited molecular signatures of brown, â€œbrite,â€•and white adipose tissues. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E19-E31.	1.8	467
13	The Browning of White Adipose Tissue: Some Burning Issues. Cell Metabolism, 2014, 20, 396-407.	7.2	428
14	Only UCP1 can mediate adaptive nonshivering thermogenesis in the cold. FASEB Journal, 2001, 15, 2048-2050.	0.2	411
15	The Changed Metabolic World with Human Brown Adipose Tissue: Therapeutic Visions. Cell Metabolism, 2010, 11, 268-272.	7.2	379
16	Hypoxia-Independent Angiogenesis in Adipose Tissues during Cold Acclimation. Cell Metabolism, 2009, 9, 99-109.	7.2	317
17	Thermogenic Responses in Brown Fat Cells Are Fully UCP1-dependent. Journal of Biological Chemistry, 2000, 275, 25073-25081.	1.6	297
18	Angiogenesis Inhibitor, TNP-470, Prevents Diet-Induced and Genetic Obesity in Mice. Circulation Research, 2004, 94, 1579-1588.	2.0	294

#	Article	IF	Citations
19	Alternatively activated macrophages do not synthesize catecholamines or contribute to adipose tissue adaptive thermogenesis. Nature Medicine, 2017, 23, 623-630.	15.2	282
20	Ablation of PGC-1Î² Results in Defective Mitochondrial Activity, Thermogenesis, Hepatic Function, and Cardiac Performance. PLoS Biology, 2006, 4, e369.	2.6	249
21	A stringent validation of mouse adipose tissue identity markers. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E1085-E1105.	1.8	242
22	UCP1 mRNA does not produce heat. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2013, 1831, 943-949.	1.2	229
23	[8] Mitochondria from brown adipose tissue: Isolation and properties. Methods in Enzymology, 1979, 55, 65-78.	0.4	203
24	The â€˜Novelâ€™â€˜Uncouplingâ€™ Proteins UCP2 and UCP3: What Do They Really do? Pros and Cons for Suggested Functions. Experimental Physiology, 2003, 88, 65-84.	0.9	203
25	Random Point Mutations with Major Effects on Protein-Coding Genes Are the Driving Force behind Premature Aging in mtDNA Mutator Mice. Cell Metabolism, 2009, 10, 131-138.	7.2	200
26	UCP1 is essential for adaptive adrenergic nonshivering thermogenesis. American Journal of Physiology - Endocrinology and Metabolism, 2006, 291, E350-E357.	1.8	199
27	Role of a New Mammalian Gene Family in the Biosynthesis of Very Long Chain Fatty Acids and Sphingolipids. Journal of Cell Biology, 2000, 149, 707-718.	2.3	196
28	Optimal housing temperatures for mice to mimic the thermal environment of humans: AnÂexperimental study. Molecular Metabolism, 2018, 7, 161-170.	3.0	195
29	Hormone-induced mitochondrial fission is utilized by brown adipocytes as an amplification pathway for energy expenditure. EMBO Journal, 2014, 33, n/a-n/a.	3.5	185
30	UCP1 Induction during Recruitment of Brown Adipocytes in White Adipose Tissue Is Dependent on Cyclooxygenase Activity. PLoS ONE, 2010, 5, e11391.	1.1	174
31	A Human-Specific Role of Cell Death-Inducing DFFA (DNA Fragmentation Factor-Â)-Like Effector A (CIDEA) in Adipocyte Lipolysis and Obesity. Diabetes, 2005, 54, 1726-1734.	0.3	168
32	PPARÎ³ in the control of brown adipocyte differentiation. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2005, 1740, 293-304.	1.8	168
33	Uncoupling proteins: A role in protection against reactive oxygen speciesâ€”or not?. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 449-458.	0.5	167
34	New Powers of Brown Fat: Fighting the Metabolic Syndrome. Cell Metabolism, 2011, 13, 238-240.	7.2	165
35	UCP1 in adipose tissues: two steps to full browning. Biochimie, 2017, 134, 127-137.	1.3	153
36	Development of brown fat cells in monolayer culture. Experimental Cell Research, 1983, 149, 105-118.	1.2	151

#	Article	IF	Citations
37	Exclusive occurrence of thermogenin antigen in brown adipose tissue. FEBS Letters, 1982, 150, 129-132.	1.3	146
38	Three years with adult human brown adipose tissue. Annals of the New York Academy of Sciences, 2010, 1212, E20-36.	1.8	145
39	Native UCP1 Displays Simple Competitive Kinetics between the Regulators Purine Nucleotides and Fatty Acids. Journal of Biological Chemistry, 2004, 279, 38236-38248.	1.6	143
40	Depressed Thermogenesis but Competent Brown Adipose Tissue Recruitment in Mice Devoid of All Hormone-Binding Thyroid Hormone Receptors. Molecular Endocrinology, 2004, 18, 384-401.	3.7	142
41	Distinct expression of muscleâ€specific MicroRNAs (myomirs) in brown adipocytes. Journal of Cellular Physiology, 2009, 218, 444-449.	2.0	138
42	The fluidity and organization of mitochondrial membrane lipids of the brown adipose tissue of cold-adapted rats and hamsters as determined by nitroxide spin probes. Archives of Biochemistry and Biophysics, 1975, 167, 505-518.	1.4	134
43	Thermogenically competent nonadrenergic recruitment in brown preadipocytes by a PPARÎ³ agonist. American Journal of Physiology - Endocrinology and Metabolism, 2008, 295, E287-E296.	1.8	125
44	Leptin Raises Defended Body Temperature without Activating Thermogenesis. Cell Reports, 2016, 14, 1621-1631.	2.9	116
45	Gene-chip studies of adipogenesis-regulated microRNAs in mouse primary adipocytes and human obesity. BMC Endocrine Disorders, 2011, 11, 7.	0.9	113
46	Brown Adipose Tissue: More Than an Effector of Thermogenesis?a. Annals of the New York Academy of Sciences, 1998, 856, 171-187.	1.8	112
47	Norepinephrine Increases Glucose Transport in Brown Adipocytes via Î²3-Adrenoceptors through a cAMP, PKA, and PI3-Kinase-Dependent Pathway Stimulating Conventional and Novel PKCs. Endocrinology, 2004, 145, 269-280.	1.4	112
48	Microcalorimetry of isolated mammalian cells. Nature, 1977, 267, 518-520.	13.7	109
49	Î²1 to Î²3 Switch in Control of Cyclic Adenosine Monophosphate during Brown Adipocyte Development Explains Distinct Î²-Adrenoceptor Subtype Mediation of Proliferation and Differentiation1. Endocrinology, 1999, 140, 4185-4197.	1.4	109
50	An AMP-activated protein kinaseâ€“stabilizing peptide ameliorates adipose tissue wasting in cancer cachexia in mice. Nature Medicine, 2016, 22, 1120-1130.	15.2	106
51	The Bioenergetics of Brown Fat Mitochondria from UCP1-ablated Mice. Journal of Biological Chemistry, 1999, 274, 28150-28160.	1.6	103
52	Human brown adipose tissue is phenocopied by classical brown adipose tissue in physiologically humanized mice. Nature Metabolism, 2019, 1, 830-843.	5.1	103
53	SOD2 overexpression: enhanced mitochondrial tolerance but absence of effect on UCP activity. EMBO Journal, 2005, 24, 4061-4070.	3.5	98
54	Essential role of UCP1 modulating the central effects of thyroid hormones on energy balance. Molecular Metabolism, 2016, 5, 271-282.	3.0	96

#	Article	IF	Citations
55	Î±1-Adrenergic Stimulation Potentiates the Thermogenic Action of Î²3-Adrenoreceptor-generated cAMP in Brown Fat Cells. Journal of Biological Chemistry, 1997, 272, 32847-32856.	1.6	94
56	<i>In vivo</i> levels of mitochondrial hydrogen peroxide increase with age in mt<scp>DNA</scp> mutator mice. Aging Cell, 2014, 13, 765-768.	3.0	94
57	Cig30, a Mouse Member of a Novel Membrane Protein Gene Family, Is Involved in the Recruitment of Brown Adipose Tissue. Journal of Biological Chemistry, 1997, 272, 31738-31746.	1.6	93
58	Thermogenesis challenges the adipostat hypothesis for body-weight control. Proceedings of the Nutrition Society, 2009, 68, 401-407.	0.4	91
59	[1] Overviewâ€"Preparation and properties of mitochondria from different sources. Methods in Enzymology, 1979, 55, 3-28.	0.4	90
60	Palmitoyl coenzyme A: A possible physiological regulator of nucleotide binding to brown adipose tissue mitochondria. FEBS Letters, 1977, 74, 43-46.	1.3	87
61	Thermogenesis in Brown Adipocytes Is Inhibited by Volatile Anesthetic Agents A Factor Contributing to Hypothermia in Infants?. Anesthesiology, 1994, 81, 176-183.	1.3	85
62	A novel pathway for adrenergic stimulation of cAMP-response-element-binding protein (CREB) phosphorylation: mediation via Î±1-adrenoceptors and protein kinase C activation. Biochemical Journal, 2002, 364, 73-79.	1.7	85
63	â€˜Neuropeptide tyrosineâ€™ (NPY) is co-stored with noradrenaline in vascular but not in parenchymal sympathetic nerves of brown adipose tissue. Experimental Cell Research, 1986, 164, 546-550.	1.2	83
64	Altered regulation of the PINK1 locus: a link between type 2 diabetes and neurodegeneration?. FASEB Journal, 2007, 21, 3653-3665.	0.2	83
65	Cold tolerance of UCP1-ablated mice: A skeletal muscle mitochondria switch toward lipid oxidation with marked UCP3 up-regulation not associated with increased basal, fatty acid- or ROS-induced uncoupling or enhanced GDP effects. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 968-980.	0.5	83
66	Brown adipocytes differentiated in vitro can express the gene for the uncoupling protein thermogenin: Effects of hypothyroidism and norepinephrine. Experimental Cell Research, 1989, 182, 75-83.	1.2	80
67	Cidea improves the metabolic profile through expansion of adipose tissue. Nature Communications, 2015, 6, 7433.	5.8	80
68	Î²3- and Î±1-Adrenergic Erk1/2 Activation Is Src- but Not Gi-mediated in Brown Adipocytes. Journal of Biological Chemistry, 2000, 275, 22670-22677.	1.6	79
69	Carboxyatractyloside effects on brown-fat mitochondria imply that the adenine nucleotide translocator isoforms ANT1 and ANT2 may be responsible for basal and fatty-acid-induced uncoupling respectively. Biochemical Journal, 2006, 399, 405-414.	1.7	79
70	UCP1 and Defense against Oxidative Stress. Journal of Biological Chemistry, 2006, 281, 13882-13893.	1.6	79
71	Uncoupling protein-1 is not leaky. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 773-784.	0.5	78
72	Epididymal white adipose tissue after cold stress in rats II. Mitochondrial changes. Journal of Structural Biology, 1988, 101, 199-209.	0.9	76

#	Article	IF	Citations
73	An essential role for Tbx15 in the differentiation of brown and â€œbriteâ€•but not white adipocytes. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E1053-E1060.	1.8	75
74	Î±- and Î²-adrenergic control of thermogenin mRNA expression in brown adipose tissue. Bioscience Reports, 1986, 6, 621-631.	1.1	74
75	Improved health-span and lifespan in mtDNA mutator mice treated with the mitochondrially targeted antioxidant SkQ1. Aging, 2017, 9, 315-339.	1.4	74
76	Epididymal white adipose tissue after cold stress in rats I. Nonmitochondrial changes. Journal of Structural Biology, 1988, 101, 109-122.	0.9	73
77	Adaptive facultative diet-induced thermogenesis in wild-type but not in UCP1-ablated mice. American Journal of Physiology - Endocrinology and Metabolism, 2017, 313, E515-E527.	1.8	72
78	Quantitative differentiation of Î±- and Î²-adrenergic respiratory responses in isolated hamster brown fat cells: Evidence for the presence of an Î±1-adrenergic component. European Journal of Pharmacology, 1983, 93, 183-193.	1.7	71
79	The effect of intermittent cold treatment on the adipose tissue of the cat. Journal of Structural Biology, 1986, 97, 119-129.	0.9	70
80	The Expression of Subunit c Correlates with and Thus May Limit the Biosynthesis of the Mitochondrial F0F1-ATPase in Brown Adipose Tissue. Journal of Biological Chemistry, 1995, 270, 7689-7694.	1.6	69
81	Glycerol-3-Phosphate Shuttle and Its Function in Intermediary Metabolism of Hamster Brown-Adipose Tissue. FEBS Journal, 1975, 54, 11-18.	0.2	68
82	Thyroid hormones: igniting brown fat via the brain. Nature Medicine, 2010, 16, 965-967.	15.2	68
83	Brown adipose tissue as a heat-producing thermoeffector. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2018, 156, 137-152.	1.0	65
84	Mitochondrial ATP synthase levels in brown adipose tissue are governed by the câ€Fo subunit P1 isoform. FASEB Journal, 2008, 22, 55-63.	0.2	64
85	The mitochondrial ATPase of brown adipose tissue Purification and comparison with the mitochondrial ATPase from beef heart. FEBS Letters, 1977, 76, 284-289.	1.3	61
86	The Î²₃-adrenergic receptor is dispensable for browning of adipose tissues. American Journal of Physiology - Endocrinology and Metabolism, 2017, 312, E508-E518.	1.8	61
87	A direct comparison between peroxisomal and mitochondrial preferences for fatty-acyl Î²-oxidation predicts channelling of medium-chain and very-long-chain unsaturated fatty acids to peroxisomes. Lipids and Lipid Metabolism, 1984, 796, 1-10.	2.6	60
88	Identification of [3H]prazosin binding sites in crude membranes and isolated cells of brown adipose tissue as Î±1-adrenergic receptors. European Journal of Pharmacology, 1983, 92, 15-25.	1.7	59
89	Nonshivering thermogenesis protects against defective calcium handling in muscle. FASEB Journal, 2008, 22, 3919-3924.	0.2	59
90	UCP1: the original uncoupling protein--and perhaps the only one? New perspectives on UCP1, UCP2, and UCP3 in the light of the bioenergetics of the UCP1-ablated mice. Journal of Bioenergetics and Biomembranes, 1999, 31, 475-491.	1.0	58

#	Article	IF	Citations
91	Neither fat nor flesh. Nature, 2008, 454, 947-948.	13.7	58
92	How brown is brown fat? It depends where you look. Nature Medicine, 2013, 19, 540-541.	15.2	58
93	Chapter 17 The uncoupling protein thermogenin and mitochondrial thermogenesis. New Comprehensive Biochemistry, 1992, , 385-420.	0.1	57
94	Halothane Selectively Inhibits Nonshivering ThermogenesisÂ. Anesthesiology, 1995, 82, 491-501.	1.3	57
95	Decreased Brown Adipocyte Recruitment and Thermogenic Capacity in Mice with Impaired Peroxisome Proliferator-Activated Receptor (P465L PPARÎ³) Function. Endocrinology, 2006, 147, 5708-5714.	1.4	57
96	High Number of High-Affinity Binding Sites for (-)-[3H]Dihydroalprenolol on Isolated Hamster Brown-Fat Cells. A Study of the beta-Adrenergic Receptors. FEBS Journal, 1979, 102, 203-210.	0.2	56
97	Differential adrenergic regulation of the gene expression of the Î²-adrenoceptor subtypes Î²1, Î²2 and Î²3 in brown adipocytes. Biochemical Journal, 2000, 347, 643-651.	1.7	56
98	Intact innervation is essential for diet-induced recruitment of brown adipose tissue. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E487-E503.	1.8	54
99	The Physiological Role of Pyruvate Carboxylation in Hamster Brown Adipose Tissue. FEBS Journal, 1979, 94, 419-426.	0.2	53
100	Studies of Thermogenesis and Mitochondrial Function in Adipose Tissues. Methods in Molecular Biology, 2008, 456, 109-121.	0.4	53
101	Yes, even human brown fat is on fire!. Journal of Clinical Investigation, 2012, 122, 486-489.	3.9	52
102	ROS production in brown adipose tissue mitochondria: The question of UCP1-dependence. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 2017-2030.	0.5	51
103	No insulating effect of obesity. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E202-E213.	1.8	51
104	Thermogenesis Inhibition in Brown Adipocytes Is a Specific Property of Volatile Anesthetics. Anesthesiology, 2003, 98, 437-448.	1.3	49
105	Glucocorticoid-Induced Obesity Develops Independently of UCP1. Cell Reports, 2019, 27, 1686-1698.e5.	2.9	49
106	A New Role for Lipocalin Prostaglandin D Synthase in the Regulation of Brown Adipose Tissue Substrate Utilization. Diabetes, 2012, 61, 3139-3147.	0.3	48
107	Leptin: Is It Thermogenic?. Endocrine Reviews, 2020, 41, 232-260.	8.9	47
108	Down-regulation of Î²3 Adrenoreceptor Gene Expression in Brown Fat Cells Is Transient and Recovery Is Dependent upon a Short-lived Protein Factor. Journal of Biological Chemistry, 1996, 271, 33366-33375.	1.6	46

#	Article	IF	Citations
109	ATP synthase subunit c expression: physiological regulation of the P1 and P2 genes. Biochemical Journal, 1997, 323, 379-385.	1.7	46
110	Thermogenesis is Î²₃- but not Î²₁-adrenergically mediated in rat brown fat cells, even after cold acclimation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 275, R2002-R2011.	0.9	46
111	A Dual Component Analysis Explains the Distinctive Kinetics of cAMP Accumulation in Brown Adipocytes. Journal of Biological Chemistry, 1999, 274, 37770-37780.	1.6	46
112	At thermoneutrality, acute thyroxine-induced thermogenesis and pyrexia are independent of UCP1. Molecular Metabolism, 2019, 25, 20-34.	3.0	46
113	The answer to the question â€œWhat is the best housing temperature to translate mouse experiments to humans?â€•is: thermoneutrality. Molecular Metabolism, 2019, 26, 1-3.	3.0	46
114	Desensitisation of Î²â€Adrenergic Responsiveness <i>in vivo</i>. FEBS Journal, 1982, 128, 481-488.	0.2	44
115	Human brown adipose tissue: Classical brown rather than brite/beige?. Experimental Physiology, 2020, 105, 1191-1200.	0.9	44
116	PEROXISOMAL ?-OXIDATION IN BROWN FAT. Annals of the New York Academy of Sciences, 1982, 386, 40-58.	1.8	43
117	Physiological activation of brown adipose tissue destabilizes thermogenin mRNA. FEBS Letters, 1987, 224, 353-356.	1.3	43
118	Cultures of Adipose Precursor Cells from Brown Adipose Tissue and of Clonal Brown-Adipocyte- Like Cell Lines. , 2001, 155, 213-224.		43
119	An siRNA-based method for efficient silencing of gene expression in mature brown adipocytes. Adipocyte, 2016, 5, 175-185.	1.3	43
120	Euthyroid status is essential for the perinatal increase in thermogenin mRNA in brown adipose tissue of rat pups. Biochemical and Biophysical Research Communications, 1987, 148, 9-14.	1.0	42
121	Norepinephrine-induced synthesis of the uncoupling protein thermogenin (UCP) and its mitochondrial targeting in brown adipocytes differentiated in culture. FEBS Letters, 1990, 268, 296-300.	1.3	42
122	Noradrenaline represses PPAR (peroxisome-proliferator-activated receptor) Î³2 gene expression in brown adipocytes: intracellular signalling and effects on PPARÎ³2 and PPARÎ³1 protein levels. Biochemical Journal, 2004, 382, 597-606.	1.7	42
123	Neither brown nor white. Nature, 2012, 488, 286-287.	13.7	42
124	Effects of Dietary Essential Fatty Acids on Active Thermogenin Content in Rat Brown Adipose Tissue. Journal of Nutrition, 1983, 113, 1717-1724.	1.3	41
125	UCP1 inhibition in Cidea-overexpressing mice is physiologically counteracted by brown adipose tissue hyperrecruitment. American Journal of Physiology - Endocrinology and Metabolism, 2017, 312, E72-E87.	1.8	41
126	GDP-binding to the brown fat mitochondria of developing and cold-adapted rats. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1980, 65, 463-471.	0.2	39

#	Article	IF	Citations
127	Increased respiration in skeletal muscle mitochondria from cold-acclimated ducklings: Uncoupling effects of free fatty acids. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1986, 85, 343-348.	0.2	39
128	Uncoupled respiration, ROS production, acute lipotoxicity and oxidative damage in isolated skeletal muscle mitochondria from UCP3-ablated mice. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 1095-1105.	0.5	39
129	What Ignites UCP1?. Cell Metabolism, 2017, 26, 697-698.	7.2	37
130	Within brown-fat cells, UCP1-mediated fatty acid-induced uncoupling is independent of fatty acid metabolism. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 642-650.	0.5	36
131	In the absence of UCP1-mediated diet-induced thermogenesis, obesity is augmented even in the obesity-resistant 129S mouse strain. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E729-E740.	1.8	36
132	Biochemical aspects of acclimation to cold. Journal of Thermal Biology, 1983, 8, 85-90.	1.1	35
133	Analysis of inhibition by H89 of UCP1 gene expression and thermogenesis indicates protein kinase A mediation of Î²3-adrenergic signalling rather than Î²3-adrenoceptor antagonism by H89. Biochimica Et Biophysica Acta - Molecular Cell Research, 2001, 1538, 206-217.	1.9	35
134	Contrasting effects of cold acclimation versus obesogenic diets on chemerin gene expression in brown and brite adipose tissues. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 1691-1699.	1.2	35
135	Apparent unmasking of [3H]GDP binding in rat brown-fat mitochondria is due to mitochondrial swelling. FEBS Journal, 1987, 164, 681-686.	0.2	32
136	Adrenergically stimulated blood flow in brown adipose tissue is not dependent on thermogenesis. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E822-E829.	1.8	32
137	Metabolically inert perfluorinated fatty acids directly activate uncoupling protein 1 in brown-fat mitochondria. Archives of Toxicology, 2016, 90, 1117-1128.	1.9	32
138	Hormone-sensitive lipase in brown adipose tissue: Identification and effect of cold exposure. Bioscience Reports, 1987, 7, 897-904.	1.1	31
139	IL-1 and LPS but not IL-6 inhibit differentiation and downregulate PPAR gamma in brown adipocytes. Cytokine, 2004, 26, 9-15.	1.4	31
140	Glucocorticoids and Brown Adipose Tissue: Do glucocorticoids really inhibit thermogenesis?. Molecular Aspects of Medicine, 2019, 68, 42-59.	2.7	30
141	Parallel increases in amount of (3H)GDP binding and thermogenin antigen in brown-adipose-tissue mitochondria of cafeteria-fed rats. Biochemical and Biophysical Research Communications, 1984, 122, 1328-1336.	1.0	29
142	Respiratory and Thermogenic Capacities of Cells and Mitochondria from Brown and White Adipose Tissue. , 2001, 155, 295-303.		29
143	Inhibitory effects of halothane on the thermogenic pathway in brown adipocytes: localization to adenylyl cyclase and mitochondrial fatty acid oxidation. Biochemical Pharmacology, 2004, 68, 463-477.	2.0	29
144	Cell proliferation and apoptosis inhibition: essential processes for recruitment of the full thermogenic capacity of brown adipose tissue. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 51-58.	1.2	29

#	Article	IF	Citations
145	Î²-adrenergic stimulation of fatty acid release from brown fat cells differentiated in monolayer culture. Life Sciences, 1986, 38, 589-599.	2.0	28
146	Apparent thermogenic effect of injected glucagon is not due to a direct effect on brown fat cells. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 275, R1674-R1682.	0.9	27
147	Î±-Adrenergic effects on 86Rb+(K+) potentials and fluxes in brown fat cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 1984, 804, 291-300.	1.9	24
148	Adrenergic stimulation of lipoprotein lipase gene expression in rat brown adipocytes differentiated in culture: mediation via Î²3- and Î±1-adrenergic receptors. Biochemical Journal, 1997, 321, 759-767.	1.7	23
149	Nonshivering thermogenesis in the newborn. Molecular Aspects of Medicine, 1980, 3, 119-223.	2.7	22
150	Brown adipose tissue thermogenesis in neonatal and cold-adapted animals. Biochemical Society Transactions, 1986, 14, 233-236.	1.6	20
151	Differential regulation of the expression of Î±1-adrenergic receptor subtype genes in brown adipose tissue. Biochemical Journal, 1997, 322, 417-424.	1.7	20
152	Differential adrenergic regulation of the gene expression of the Î²-adrenoceptor subtypes Î²1, Î²2 and Î²3 in brown adipocytes. Biochemical Journal, 2000, 347, 643.	1.7	20
153	Effects of Monovalent Cations on Ca(2+) Transport in Mitochondria; A Comparison between Brown Fat and Liver Mitochondria from Rat.. Acta Chemica Scandinavica, 1980, 34b, 149-151.	0.7	20
154	Morphology and biochemical properties of perirenal adipose tissue from lamb (Ovis aries). A comparison with brown adipose tissue. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1977, 56, 87-99.	0.2	19
155	The Interaction between Thyroid and Brown-Fat Thermogenesis.. Annals of the New York Academy of Sciences, 1997, 813, 712-717.	1.8	18
156	The Environmental Pollutants Perfluorooctane Sulfonate and Perfluorooctanoic Acid Upregulate Uncoupling Protein 1 (UCP1) in Brown-Fat Mitochondria Through a UCP1-Dependent Reduction in Food Intake. Toxicological Sciences, 2015, 146, 334-343.	1.4	17
157	Regulation of thermogenic capacity in brown and white adipocytes by the prebiotic high-esterified pectin and its postbiotic acetate. International Journal of Obesity, 2020, 44, 715-726.	1.6	17
158	Inhibition of acetyl-carnitine oxidation in rat brown-adipose-tissue mitochondria by erucoyl-carnitine is due to sequestration of CoA. Lipids and Lipid Metabolism, 1985, 834, 149-158.	2.6	16
159	Adrenergic regulation of brown adipocyte differentiation. Biochemical Society Transactions, 1996, 24, 407-412.	1.6	16
160	Metabolic consequences of limited substrate anion permeability in brown fat mitochondria from a hibernator, the golden hamster. Biochimica Et Biophysica Acta - Bioenergetics, 1984, 766, 483-491.	0.5	14
161	Carteolol is a weak partial agonist on Î²3-adrenergic receptors in brown adipocytes. Canadian Journal of Physiology and Pharmacology, 1998, 76, 428-433.	0.7	14
162	Carteolol is a weak partial agonist on Î²₃-adrenergic receptors in brown adipocytes. Canadian Journal of Physiology and Pharmacology, 1998, 76, 428-433.	0.7	14

#	Article	IF	Citations
163	As the proliferation promoter noradrenaline induces expression of ICER (induced cAMP early) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Biochemical Journal, 2001, 354, 169-177.	1.7	13
164	Leptin-deficient mice are not hypothermic, they are anapyrexic. Molecular Metabolism, 2017, 6, 173.	3.0	13
165	Cold-induced reduction in GiÎ± proteins in brown adipose tissue. Effects on the cellular hypersensitization to noradrenaline caused by pertussis-toxin treatment. Biochemical Journal, 1996, 314, 761-768.	1.7	12
166	Caveolin-1-ablated mice survive in cold by nonshivering thermogenesis despite desensitized adrenergic responsiveness. American Journal of Physiology - Endocrinology and Metabolism, 2010, 299, E374-E383.	1.8	12
167	A pyrexic effect of FGF21 independent of energy expenditure and UCP1. Molecular Metabolism, 2021, 53, 101324.	3.0	12
168	Postnatal selective suppression of lipoprotein lipase gene expression in brown adipose tissue (relative) Tj ETQq0 0 0 rgBT /Overlock 10 T possible specific inhibitory effect of colostrum. Biochemical Journal, 1996, 314, 261-267.	1.7	11
169	Uncoupling protein-1: involvement in a novel pathway for Î²-adrenergic, cAMP-mediated intestinal relaxation. American Journal of Physiology - Renal Physiology, 2002, 283, G1107-G1116.	1.6	11
170	Characterization of [3H]Dihydroergocryptine Binding Sites in Brown Adipose Tissue. Evidence for the Presence of alpha-Adrenergic Receptors.. Acta Chemica Scandinavica, 1980, 34b, 231-232.	0.7	11
171	Contrasting adrenergic effects on lipoprotein lipase gene expression in the brown adipose tissue of intact mice and in cultured brown adipocytes from mice. Lipids and Lipid Metabolism, 1997, 1345, 327-337.	2.6	10
172	Benidipine induces thermogenesis in brown adipose tissue by releasing endogenous noradrenaline: a possible mechanism for the anti-obesity effect of calcium antagonists. International Journal of Obesity, 1999, 23, 238-245.	1.6	10
173	Brown adipose tissue: molecular mechanisms controlling activity and thermogenesis. , 1985, , 223-270.		9
174	Sulfonates are low-affinity ligands for the GDP-binding site of brown-fat mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1185, 311-317.	0.5	9
175	A novel principle for conferring selectivity to poly(A)-binding proteins: interdependence of two ATP synthase Î²-subunit mRNA-binding proteins. Biochemical Journal, 2000, 346, 33-39.	1.7	9
176	Arotinolol is a weak partial agonist on Î²3-adrenergic receptors in brown adipocytes. Canadian Journal of Physiology and Pharmacology, 2001, 79, 585-593.	0.7	9
177	No insulating effect of obesity, neither in mice nor in humans. American Journal of Physiology - Endocrinology and Metabolism, 2019, 317, E952-E953.	1.8	9
178	The molecular basis for adrenergic desensitization in hamster brown adipose tissue: Uncoupling of adenylate cyclase activation. Comparative Biochemistry and Physiology Part C: Comparative Pharmacology, 1984, 78, 159-170.	0.2	8
179	Adrenergic receptor density in brown adipose tissue of active and hibernating hamsters and ground squirrels. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 146, 408-414.	0.8	8
180	Diet-Induced Thermogenesis: Principles and Pitfalls. Methods in Molecular Biology, 2022, 2448, 177-202.	0.4	8

#	Article	IF	Citations
181	Chapter 10 Thermogenic mitochondria. New Comprehensive Biochemistry, 1984, , 291-314.	0.1	7
182	Reply to â€˜Confounding issues in the â€˜humanizedâ€™ brown fat of miceâ€™. Nature Metabolism, 2020, 2, 305-306.	5.1	7
183	Is there a Life in the Cold without UCP1? Uncoupling Proteins and Thermoregulatory Thermogenesis. , 2000, , 387-400.		7
184	A novel principle for conferring selectivity to poly(A)-binding proteins: interdependence of two ATP synthase Î²-subunit mRNA-binding proteins. Biochemical Journal, 2000, 346, 33.	1.7	6
185	Enzyme-linked immunosorbent assay (ELISA) studies of the interaction between mammalian and avian anti-thermogenin antibodies and brown-adipose-tissue mitochondria from different species. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1984, 79, 441-445.	0.2	5
186	As the proliferation promoter noradrenaline induces expression of ICER (induced cAMP early) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Biochemical Journal, 2001, 354, 169.	1.7	5
187	A sequence predicted to form a stemâ€“loop is proposed to be required for formation of an RNAâ€“protein complex involving the 3'UTR of Î²-subunit F0F1-ATPase mRNA. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 747-757.	0.5	5
188	Reply to letter to the editor: at thermoneutrality, neither the lean nor the obese freeze. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E639-E639.	1.8	5
189	UCP1-independent glucose-lowering effect of leptin in type 1 diabetes: only in conditions of hypoleptinemia. American Journal of Physiology - Endocrinology and Metabolism, 2020, 318, E72-E86.	1.8	5
190	Thermogenic recruitment of brown and brite/beige adipose tissues is not obligatorily associated with macrophage accretion or attrition. American Journal of Physiology - Endocrinology and Metabolism, 2021, 320, E359-E378.	1.8	5
191	Partial protection erucoyl-carnitine inhibition in hamster brown-adipose-tissue mitochondria is due to high CoA levels: A comparison with rat brown-adipose-tissue mitochondria. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1986, 83, 191-196.	0.2	4
192	Stimulation of nonshivering thermogenesis in the Syrian hamster by norepinephrine and Î²-selective adrenergic agents: A phenomenon of refractoriness. Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology, 1996, 113, 37-43.	0.5	4
193	Establishing the potency of N-acyl amino acids versus conventional fatty acids as thermogenic uncouplers in cells and mitochondria from different tissues. Biochimica Et Biophysica Acta - Bioenergetics, 2022, 1863, 148542.	0.5	4
194	Characteristics of Ca2+ uptake in mitochondria of brown adipose tissue. Cell Calcium, 1980, 1, 401-410.	1.1	3
195	Analysis of the Cellular Mechanism for Halothane Inhibition of Brown Adipose Tissue Thermogenesis. Annals of the New York Academy of Sciences, 1997, 813, 718-721.	1.8	3
196	Brown Adipose Tissue. , 2017, , 354-363.e4.		3
197	Promotion of lipid storage rather than of thermogenic competence by fetal versus newborn calf serum in primary cultures of brown adipocytes. Adipocyte, 2018, 7, 166-179.	1.3	3
198	A PERKy way to make mitochondrial cristae. Trends in Endocrinology and Metabolism, 2021, 32, 417-419.	3.1	2

#	Article	IF	Citations
199	On the Validity of Adipogenic Cell Lines as Model Systems for Browning Processes: In Authentic Brown, Brite/Beige, and White Preadipocytes, There is No Cell-Autonomous Thermogenic Recruitment by Green Tea Compounds. Frontiers in Nutrition, 2021, 8, 715859.	1.6	2
200	Brown Adipose Tissue: Development and Function. , 2004, , 404-415.		2
201	Brown Adipose Tissue: A Seasonal Tissue in Mammals, Including Humans?. , 2012, , 447-458.		1
202	Regulation of the Amount and Activity of the Uncoupling Protein Thermogenin in Brown Adipose Tissue. , 1989, , 269-281.		1
203	Brown Adipose Tissue: Development and Function. , 2011, , 470-482.		1
204	The Î²-adrenergic receptor of brown adipose tissue: The effect of cold adaptation on affinity and number of receptors. Cryobiology, 1981, 18, 105.	0.3	0
205	Choline+ is a low-affinity ligand for Î±1-adrenoceptors. Biochemical Pharmacology, 1994, 48, 1519-1523.	2.0	0
206	è„‚è‚ªã§ã„ã•ã‚Œã•è‚ã§ã„ã•ã;. Nature Digest, 2008, 5, 22-24.	0.0	0
207	Cardiolipin: Altered content and fatty acid composition in mitochondria from mtDNA mutator mice. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 64.	0.5	0
208	Metabolic and Angiogenic Consequences of the Presence or Absence of UCP1. Research and Perspectives in Endocrine Interactions, 2010, , 111-120.	0.2	0
209	Mitochondrial dynamics regulate brown adiopcyte energy expenditure. FASEB Journal, 2013, 27, 582.4.	0.2	0
210	Brown Adipose Tissue: Receptors and Recruitment. , 1994, , 345-350.		0