

A Recurring Problem With the Analysis of Energy Expenditure in Lean and Obese Phenotypes

Diabetes

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Long-term Infusion of Brain-Derived Neurotrophic Factor Reduces Food Intake and Body Weight via a Corticotrophin-Releasing Hormone Pathway in the Paraventricular Nucleus of the Hypothalamus. <i>Journal of Neuroendocrinology</i> , 2010, 22, 987-995.	1.2	72
3	Brown fat thermogenesis and body weight regulation in mice: relevance to humans. <i>International Journal of Obesity</i> , 2010, 34, S23-S27.	1.6	64
4	Disruption of hypothalamic leptin signaling in mice leads to early-onset obesity, but physiological adaptations in mature animals stabilize adiposity levels. <i>Journal of Clinical Investigation</i> , 2010, 120, 2931-2941.	3.9	99
5	Identification of Body Fat Mass as a Major Determinant of Metabolic Rate in Mice. <i>Diabetes</i> , 2010, 59, 1657-1666.	0.3	140
6	Up-regulation of hepatic lipolysis stimulated lipoprotein receptor by leptin: a potential lever for controlling lipid clearance during the postprandial phase. <i>FASEB Journal</i> , 2010, 24, 4218-4228.	0.2	27
7	The Genetics of Brown Adipose Tissue. <i>Progress in Molecular Biology and Translational Science</i> , 2010, 94, 75-123.	0.9	20
8	Brown Fat and the Myth of Diet-Induced Thermogenesis. <i>Cell Metabolism</i> , 2010, 11, 263-267.	7.2	215
9	PI3K Signaling in the Ventromedial Hypothalamic Nucleus Is Required for Normal Energy Homeostasis. <i>Cell Metabolism</i> , 2010, 12, 88-95.	7.2	96
10	Leptin Action in the Dorsomedial Hypothalamus Increases Sympathetic Tone to Brown Adipose Tissue in Spite of Systemic Leptin Resistance. <i>Journal of Neuroscience</i> , 2011, 31, 12189-12197.	1.7	261
11	Homeostatic and non-homeostatic functions of melanocortin-3 receptors in the control of energy balance and metabolism. <i>Physiology and Behavior</i> , 2011, 104, 546-554.	1.0	26
12	The Arrestin Domain-Containing 3 Protein Regulates Body Mass and Energy Expenditure. <i>Cell Metabolism</i> , 2011, 14, 671-683.	7.2	108
13	Leptin-Independent Programming of Adult Body Weight and Adiposity in Mice. <i>Endocrinology</i> , 2011, 152, 476-482.	1.4	28
14	Biology's response to dieting: the impetus for weight regain. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R581-R600.	0.9	348
15	Where to go with FTO?. <i>Trends in Endocrinology and Metabolism</i> , 2011, 22, 53-59.	3.1	65
16	Thermogenesis and Related Metabolic Targets in Anti-Diabetic Therapy. <i>Handbook of Experimental Pharmacology</i> , 2011, , 201-255.	0.9	11
17	Inflammatory links between obesity and metabolic disease. <i>Journal of Clinical Investigation</i> , 2011, 121, 2111-2117.	3.9	1,845
18	Predicting Changes of Body Weight, Body Fat, Energy Expenditure and Metabolic Fuel Selection in C57BL/6 Mice. <i>PLoS ONE</i> , 2011, 6, e15961.	1.1	53
19	Increased Lipolysis and Energy Expenditure in a Mouse Model with Severely Impaired Glucagon Secretion. <i>PLoS ONE</i> , 2011, 6, e26671.	1.1	11

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20	A new, highly selective murine peroxisome proliferator-activated receptor γ agonist increases responsiveness to thermogenic stimuli and glucose uptake in skeletal muscle in obese mice. <i>Diabetes, Obesity and Metabolism</i> , 2011, 13, 455-464.	2.2	17
21	Ablation of ghrelin receptor reduces adiposity and improves insulin sensitivity during aging by regulating fat metabolism in white and brown adipose tissues. <i>Aging Cell</i> , 2011, 10, 996-1010.	3.0	161
22	Profound Obesity Secondary to Hyperphagia in Mice Lacking Kinase Suppressor of Ras 2. <i>Obesity</i> , 2011, 19, 1010-1018.	1.5	47
23	From GWAS to biology: lessons from FTO. <i>Annals of the New York Academy of Sciences</i> , 2011, 1220, 162-171.	1.8	81
24	Hypothalamic inflammation: a double-edged sword to nutritional diseases. <i>Annals of the New York Academy of Sciences</i> , 2011, 1243, E1-39.	1.8	131
25	Direct animal calorimetry, the underused gold standard for quantifying the fire of life. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2011, 158, 252-264.	0.8	64
26	Neuropeptide Y and Agouti-Related Peptide Mediate Complementary Functions of Hyperphagia and Reduced Energy Expenditure in Leptin Receptor Deficiency. <i>Endocrinology</i> , 2011, 152, 883-889.	1.4	28
27	PWD/PhJ and WSB/Eij Mice Are Resistant to Diet-Induced Obesity But Have Abnormal Insulin Secretion. <i>Endocrinology</i> , 2011, 152, 3005-3017.	1.4	28
28	Nonshivering thermogenesis and its adequate measurement in metabolic studies. <i>Journal of Experimental Biology</i> , 2011, 214, 242-253.	0.8	563
29	Deficiency of MGAT2 increases energy expenditure without high-fat feeding and protects genetically obese mice from excessive weight gain. <i>Journal of Lipid Research</i> , 2011, 52, 1723-1732.	2.0	37
30	Increased energy expenditure and leptin sensitivity account for low fat mass in myostatin-deficient mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 300, E1031-E1037.	1.8	39
31	Comment on: Kaiyala et al. (2010) Identification of Body Fat Mass as a Major Determinant of Metabolic Rate in Mice. <i>Diabetes</i> ;59:1657-1666. <i>Diabetes</i> , 2011, 60, e3-e3.	0.3	2
32	PI3K β within a nonhematopoietic cell type negatively regulates diet-induced thermogenesis and promotes obesity and insulin resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E854-63.	3.3	55
33	Genetic Dissection of the Functions of the Melanocortin-3 Receptor, a Seven-transmembrane G-protein-coupled Receptor, Suggests Roles for Central and Peripheral Receptors in Energy Homeostasis. <i>Journal of Biological Chemistry</i> , 2011, 286, 40771-40781.	1.6	53
34	Toward a More Complete (and Less Controversial) Understanding of Energy Expenditure and Its Role in Obesity Pathogenesis. <i>Diabetes</i> , 2011, 60, 17-23.	0.3	139
35	Transcriptional profiling reveals a role for ROR α in regulating gene expression in obesity-associated inflammation and hepatic steatosis. <i>Physiological Genomics</i> , 2011, 43, 818-828.	1.0	85
36	Variable penetrance of metabolic phenotypes and development of high-fat diet-induced adiposity in NEIL1-deficient mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 300, E724-E734.	1.8	47
37	Acute Disruption of Leptin Signaling in Vivo Leads to Increased Insulin Levels and Insulin Resistance. <i>Endocrinology</i> , 2011, 152, 3385-3395.	1.4	37

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38	Promyelocytic leukemia inhibits adipogenesis, and loss of promyelocytic leukemia results in fat accumulation in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 301, E1130-E1142.	1.8	22
39	A VASP-Rac ¹ Soluble Guanylyl Cyclase Pathway Controls cGMP Production in Adipocytes. <i>Science Signaling</i> , 2012, 5, ra62.	1.6	31
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41	Effects of acutely inhibiting PI3K isoforms and mTOR on regulation of glucose metabolism <i>in vivo</i> . <i>Biochemical Journal</i> , 2012, 442, 161-169.	1.7	42
42	Indirect calorimetry in laboratory mice and rats: principles, practical considerations, interpretation and perspectives. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 303, R459-R476.	0.9	185
43	Protein kinase C δ deficiency attenuates obesity syndrome of ob/ob mice by promoting white adipose tissue remodeling. <i>Journal of Lipid Research</i> , 2012, 53, 368-378.	2.0	43
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45	Resting Energy Expenditure and Energetic Cost of Feeding Are Augmented after Roux-en-Y Gastric Bypass in Obese Mice. <i>Endocrinology</i> , 2012, 153, 2234-2244.	1.4	80
46	Sex-Specific Effect of Estrogen Sulfotransferase on Mouse Models of Type 2 Diabetes. <i>Diabetes</i> , 2012, 61, 1543-1551.	0.3	59
47	Mitochondrial biogenesis and increased uncoupling protein 1 in brown adipose tissue of mice fed a ketone ester diet. <i>FASEB Journal</i> , 2012, 26, 2351-2362.	0.2	101
48	Loss of Akt1 in Mice Increases Energy Expenditure and Protects against Diet-Induced Obesity. <i>Molecular and Cellular Biology</i> , 2012, 32, 96-106.	1.1	56
49	Peripheral oxytocin suppresses food intake and causes weight loss in diet-induced obese rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 302, E134-E144.	1.8	172
50	Reduction in BACE1 decreases body weight, protects against diet-induced obesity and enhances insulin sensitivity in mice. <i>Biochemical Journal</i> , 2012, 441, 285-296.	1.7	96
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52	Evolving concepts on adjusting human resting energy expenditure measurements for body size. <i>Obesity Reviews</i> , 2012, 13, 1001-1014.	3.1	80
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55	A Model of Prediction and Cross-Validation of Fat-Free Mass in Men With Motor Complete Spinal Cord Injury. <i>Archives of Physical Medicine and Rehabilitation</i> , 2012, 93, 1240-1245.	0.5	20

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57	FoxO1 Target Gpr17 Activates AgRP Neurons to Regulate Food Intake. <i>Cell</i> , 2012, 149, 1314-1326.	13.5	164
58	Pten Positively Regulates Brown Adipose Function, Energy Expenditure, and Longevity. <i>Cell Metabolism</i> , 2012, 15, 382-394.	7.2	308
59	Lipid-Induced Mitochondrial Stress and Insulin Action in Muscle. <i>Cell Metabolism</i> , 2012, 15, 595-605.	7.2	294
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61	A guide to analysis of mouse energy metabolism. <i>Nature Methods</i> , 2012, 9, 57-63.	9.0	655
62	The Angiogenic Inhibitor TNP-470 Decreases Caloric Intake and Weight Gain in High-Fat Fed Mice. <i>Obesity</i> , 2012, 20, 2003-2009.	1.5	30
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64	Hypothalamic AgRP-neurons control peripheral substrate utilization and nutrient partitioning. <i>EMBO Journal</i> , 2012, 31, 4276-4288.	3.5	105
65	Relationship Between Myocardial Ischemia/Reperfusion and Time of Day. , 2012, , 1-38.		1
66	GIP-Overexpressing Mice Demonstrate Reduced Diet-Induced Obesity and Steatosis, and Improved Glucose Homeostasis. <i>PLoS ONE</i> , 2012, 7, e40156.	1.1	125
67	The Influence of Shc Proteins and Aging on Whole Body Energy Expenditure and Substrate Utilization in Mice. <i>PLoS ONE</i> , 2012, 7, e48790.	1.1	4
68	Chronic HO-1 induction with cobalt protoporphyrin (CoPP) treatment increases oxygen consumption, activity, heat production and lowers body weight in obese melanocortin-4 receptor-deficient mice. <i>International Journal of Obesity</i> , 2012, 36, 244-253.	1.6	35
69	Perilipin 1 ablation in mice enhances lipid oxidation during exercise and does not impair exercise performance. <i>Metabolism: Clinical and Experimental</i> , 2012, 61, 415-423.	1.5	14
70	Differential effects of chow and purified diet on the consumption of sucrose solution and lard and the development of obesity. <i>Physiology and Behavior</i> , 2012, 105, 325-331.	1.0	30
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72	Adaptive thermogenesis with weight loss in humans. <i>Obesity</i> , 2013, 21, 218-228.	1.5	119
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77	Melanocortin-3 Receptors and Metabolic Homeostasis. <i>Progress in Molecular Biology and Translational Science</i> , 2013, 114, 109-146.	0.9	31
78	Effects of dietary history on energy metabolism and physiological parameters in C57BL/6J mice. <i>Experimental Physiology</i> , 2013, 98, 1053-1062.	0.9	26
79	The interaction of amylin with other hormones in the control of eating. <i>Diabetes, Obesity and Metabolism</i> , 2013, 15, 99-111.	2.2	47
80	Differential effects of chronic social stress and fluoxetine on meal patterns in mice. <i>Appetite</i> , 2013, 64, 81-88.	1.8	46
81	Deficiency of the Rii1 ² subunit of PKA affects locomotor activity and energy homeostasis in distinct neuronal populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E1631-40.	3.3	28
82	Role of the locus coeruleus in enhanced orexin A-induced spontaneous physical activity in obesity-resistant rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R1337-R1345.	0.9	34
83	The "39 steps"™: an algorithm for performing statistical analysis of data on energy intake and expenditure. <i>DMM Disease Models and Mechanisms</i> , 2013, 6, 293-301.	1.2	35
84	<i>Moo1</i> obesity quantitative trait locus in BTBR T ⁺ <i>ltpr3</i> ^{tf} mice increases food intake. <i>Physiological Genomics</i> , 2013, 45, F191-F199.	1.0	6
85	Adult Onset Global Loss of the Fto Gene Alters Body Composition and Metabolism in the Mouse. <i>PLoS Genetics</i> , 2013, 9, e1003166.	1.5	129
86	CTRP9 transgenic mice are protected from diet-induced obesity and metabolic dysfunction. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R522-R533.	0.9	106
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93	Intestine-specific expression of MOGAT2 partially restores metabolic efficiency in Mogat2-deficient mice. <i>Journal of Lipid Research</i> , 2013, 54, 1644-1652.	2.0	32
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96	Perinatal Exposure of Mice to the Pesticide DDT Impairs Energy Expenditure and Metabolism in Adult Female Offspring. <i>PLoS ONE</i> , 2014, 9, e103337.	1.1	135
97	High-Resolution Mapping of a Genetic Locus Regulating Preferential Carbohydrate Intake, Total Kilocalories, and Food Volume on Mouse Chromosome 17. <i>PLoS ONE</i> , 2014, 9, e110424.	1.1	3
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99	GLP-1(28-36)amide, the Glucagon-like peptide-1 metabolite: friend, foe, or pharmacological folly?. <i>Drug Design, Development and Therapy</i> , 2014, 8, 677.	2.0	4
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101	Syndecan-1 Is Required to Maintain Intradermal Fat and Prevent Cold Stress. <i>PLoS Genetics</i> , 2014, 10, e1004514.	1.5	89
102	Interaction of growth hormone receptor/binding protein gene disruption and caloric restriction for insulin sensitivity and attenuated aging. <i>F1000Research</i> , 2014, 3, 256.	0.8	2
103	The Impact of Dietary Methionine Restriction on Biomarkers of Metabolic Health. <i>Progress in Molecular Biology and Translational Science</i> , 2014, 121, 351-376.	0.9	81
104	Oxytocin Reverses Ovariectomy-Induced Osteopenia and Body Fat Gain. <i>Endocrinology</i> , 2014, 155, 1340-1352.	1.4	55
105	Central Nervous System Regulation of Brown Adipose Tissue. , 2014, 4, 1677-1713.		110
106	Approach to assessing determinants of glucose homeostasis in the conscious mouse. <i>Mammalian Genome</i> , 2014, 25, 522-538.	1.0	38
107	Specific suppression of insulin sensitivity in <i>growth hormone receptor</i> geneâ€disrupted (<sc>GHR</sc>â€<sc>KO</sc>) mice attenuates phenotypic features of slow aging. <i>Aging Cell</i> , 2014, 13, 981-1000.	3.0	27
108	Mechanisms underlying obesity resistance associated with high spontaneous physical activity. <i>Neuroscience</i> , 2014, 256, 91-100.	1.1	29
109	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

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110	Enhancement of brown fat thermogenesis using chenodeoxycholic acid in mice. <i>International Journal of Obesity</i> , 2014, 38, 1027-1034.	1.6	55
111	Central Neural Regulation of Brown Adipose Tissue Thermogenesis and Energy Expenditure. <i>Cell Metabolism</i> , 2014, 19, 741-756.	7.2	352
112	Dietary Supplementation of Chinese Ginseng Prevents Obesity and Metabolic Syndrome in High-Fat Diet-Fed Mice. <i>Journal of Medicinal Food</i> , 2014, 17, 1287-1297.	0.8	22
113	Oestrogen signalling in white adipose progenitor cells inhibits differentiation into brown adipose and smooth muscle cells. <i>Nature Communications</i> , 2014, 5, 5196.	5.8	46
114	Central (mainly) actions of GPCRs in energy homeostasis/balance: view from the Chair. <i>International Journal of Obesity Supplements</i> , 2014, 4, S21-S25.	12.5	0
115	Fatty acid metabolism, energy expenditure and insulin resistance in muscle. <i>Journal of Endocrinology</i> , 2014, 220, T61-T79.	1.2	155
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117	MicroRNA-378 controls classical brown fat expansion to counteract obesity. <i>Nature Communications</i> , 2014, 5, 4725.	5.8	106
118	The Browning of White Adipose Tissue: Some Burning Issues. <i>Cell Metabolism</i> , 2014, 20, 396-407.	7.2	428
119	Acute physiological effects of whole body vibration (WBV) on central hemodynamics, muscle oxygenation and oxygen consumption in individuals with chronic spinal cord injury. <i>Disability and Rehabilitation</i> , 2014, 36, 136-145.	0.9	22
120	Xbp1s in Pomc Neurons Connects ER Stress with Energy Balance and Glucose Homeostasis. <i>Cell Metabolism</i> , 2014, 20, 471-482.	7.2	213
121	Leanness and heightened nonresting energy expenditure: role of skeletal muscle activity thermogenesis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 306, E635-E647.	1.8	49
122	Inhibition of Endothelial p53 Improves Metabolic Abnormalities Related to Dietary Obesity. <i>Cell Reports</i> , 2014, 7, 1691-1703.	2.9	95
123	Genetic variation in brown fat activity and body weight regulation in mice: Lessons for human studies. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 370-376.	1.8	11
124	Mathematical Model for the Contribution of Individual Organs to Non-Zero Y-Intercepts in Single and Multi-Compartment Linear Models of Whole-Body Energy Expenditure. <i>PLoS ONE</i> , 2014, 9, e103301.	1.1	14
125	Obesity genetics in mouse and human: back and forth, and back again. <i>PeerJ</i> , 2015, 3, e856.	0.9	122
126	UCP1 is an essential mediator of the effects of methionine restriction on energy balance but not insulin sensitivity. <i>FASEB Journal</i> , 2015, 29, 2603-2615.	0.2	68
127	Oxygen restriction as challenge test reveals early high-fat-diet-induced changes in glucose and lipid metabolism. <i>Pflugers Archiv European Journal of Physiology</i> , 2015, 467, 1179-1193.	1.3	8

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129	Protective Mechanisms of Mitochondria and Heart Function in Diabetes. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 1563-1586.	2.5	59
130	Triggering Receptor Expressed on Myeloid Cells 2 (TREM2) Promotes Adipogenesis and Diet-Induced Obesity. <i>Diabetes</i> , 2015, 64, 117-127.	0.3	52
131	Chronic oxytocin administration inhibits food intake, increases energy expenditure, and produces weight loss in fructose-fed obese rhesus monkeys. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 308, R431-R438.	0.9	141
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133	Contribution of regional brain melanocortin receptor subtypes to elevated activity energy expenditure in lean, active rats. <i>Neuroscience</i> , 2015, 310, 252-267.	1.1	7
134	Do altered energy metabolism or spontaneous locomotion $\hat{=}$ mediate $\hat{=}$ ™ decelerated senescence?. <i>Aging Cell</i> , 2015, 14, 483-490.	3.0	1
135	Role of VGF-Derived Carboxy-Terminal Peptides in Energy Balance and Reproduction: Analysis of $\hat{=}$ Humanized $\hat{=}$ ™ Knockin Mice Expressing Full-Length or Truncated VGF. <i>Endocrinology</i> , 2015, 156, 1724-1738.	1.4	19
136	Modeling Energy Dynamics in Mice with Skeletal Muscle Hypertrophy Fed High Calorie Diets. <i>International Journal of Biological Sciences</i> , 2016, 12, 617-630.	2.6	9
137	Loss of CTRP1 disrupts glucose and lipid homeostasis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 311, E678-E697.	1.8	59
138	Bile acids induce uncoupling protein 1-dependent thermogenesis and stimulate energy expenditure at thermoneutrality in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 310, E346-E354.	1.8	66
139	Mediobasal hypothalamic overexpression of DEPTOR protects against high-fat diet-induced obesity. <i>Molecular Metabolism</i> , 2016, 5, 102-112.	3.0	33
140	Adipose-Specific Deficiency of Fumarate Hydratase in Mice Protects Against Obesity, Hepatic Steatosis, and Insulin Resistance. <i>Diabetes</i> , 2016, 65, 3396-3409.	0.3	24
141	Comprehensive Energy Balance Measurements in Mice. <i>Current Protocols in Mouse Biology</i> , 2016, 6, 211-222.	1.2	11
142	No insulating effect of obesity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 311, E202-E213.	1.8	51
143	GPR30 regulates diet-induced adiposity in female mice and adipogenesis in vitro. <i>Scientific Reports</i> , 2016, 6, 34302.	1.6	40
144	PI3K in the ventromedial hypothalamic nucleus mediates estrogenic actions on energy expenditure in female mice. <i>Scientific Reports</i> , 2016, 6, 23459.	1.6	32
145	Brown adipose tissue: The heat is on the heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H1592-H1605.	1.5	34

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147	Long-Acting PASylated Leptin Ameliorates Obesity by Promoting Satiety and Preventing Hypometabolism in Leptin-Deficient Lepob/ob Mice. <i>Endocrinology</i> , 2016, 157, 233-244.	1.4	27
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