Antonio Vidal-Puig

List of Publications by Year
in descending order

288	26,213	84	152
papers	citations	h-index	g-index
		4942	7333

311	311	311	33475
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Organization, Promoter Analysis, and Expression of the Human PPARÎ³ Gene. Journal of Biological Chemistry, 1997, 272, 18779-18789.	1.6	1,034
2	Adipose tissue expandability, lipotoxicity and the Metabolic Syndrome â€" An allostatic perspective. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2010, 1801, 338-349.	1.2	748
3	Resistin / Fizz3 Expression in Relation to Obesity and Peroxisome Proliferator-Activated Receptor-Â Action in Humans. Diabetes, 2001, 50, 2199-2202.	0.3	716
4	UCP3: An Uncoupling Protein Homologue Expressed Preferentially and Abundantly in Skeletal Muscle and Brown Adipose Tissue. Biochemical and Biophysical Research Communications, 1997, 235, 79-82.	1.0	697
5	Hypothalamic AMPK and fatty acid metabolism mediate thyroid regulation of energy balance. Nature Medicine, 2010, 16, 1001-1008.	15.2	581
6	Regulation of PPAR gamma gene expression by nutrition and obesity in rodents.. Journal of Clinical Investigation, 1996, 97, 2553-2561.	3.9	574
7	Mitochondria are required for proâ€ageing features of the senescent phenotype. EMBO Journal, 2016, 35, 724-742.	3.5	527
8	Adipogenesis and WNT signalling. Trends in Endocrinology and Metabolism, 2009, 20, 16-24.	3.1	491
9	BMP8B Increases Brown Adipose Tissue Thermogenesis through Both Central and Peripheral Actions. Cell, 2012, 149, 871-885.	13.5	481
10	AMPK: a metabolic gauge regulating whole-body energy homeostasis. Trends in Molecular Medicine, 2008, 14, 539-549.	3.5	465
11	Hypothalamic Fatty Acid Metabolism Mediates the Orexigenic Action of Ghrelin. Cell Metabolism, 2008, 7, 389-399.	7.2	417
12	Human Metabolic Syndrome Resulting From Dominant-Negative Mutations in the Nuclear Receptor Peroxisome Proliferator-Activated Receptor-Â. Diabetes, 2003, 52, 910-917.	0.3	412
13	The different shades of fat. Nature, 2014, 510, 76-83.	13.7	378
14	PPAR gamma 2 Prevents Lipotoxicity by Controlling Adipose Tissue Expandability and Peripheral Lipid Metabolism. PLoS Genetics, 2007, 3, e64.	1.5	346
15	Nuclear receptor corepressor RIP140 regulates fat accumulation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8437-8442.	3.3	337
16	GDF15 mediates the effects of metformin on body weight and energy balance. Nature, 2020, 578, 444-448.	13.7	326
17	Coordination of PGC-1Î² and iron uptake in mitochondrial biogenesis and osteoclast activation. Nature Medicine, 2009, 15, 259-266.	15.2	315
18	Adipose tissue plasticity: how fat depots respond differently to pathophysiological cues. Diabetologia, 2016, 59, 1075-1088.	2.9	298

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19	Differential Lipid Partitioning Between Adipocytes and Tissue Macrophages Modulates Macrophage Lipotoxicity and M2/M1 Polarization in Obese Mice. Diabetes, 2011, 60, 797-809.	0.3	297
20	Genetic variation near IRS1 associates with reduced adiposity and an impaired metabolic profile. Nature Genetics, 2011, 43, 753-760.	9.4	289
21	GDF15 Provides an Endocrine Signal of Nutritional Stress in Mice and Humans. Cell Metabolism, 2019, 29, 707-718.e8.	7.2	286
22	Pathways to the analysis of microarray data. Trends in Biotechnology, 2005, 23, 429-435.	4.9	269
23	Extracellular Vesicles: Novel Mediators of Cell Communication In Metabolic Disease. Trends in Endocrinology and Metabolism, 2017, 28, 3-18.	3.1	268
24	Ablation of PGC-1Î² Results in Defective Mitochondrial Activity, Thermogenesis, Hepatic Function, and Cardiac Performance. PLoS Biology, 2006, 4, e369.	2.6	249
25	It's Not How Fat You Are, It's What You Do with It That Counts. PLoS Biology, 2008, 6, e237.	2.6	244
26	Visfatin: the missing link between intra-abdominal obesity and diabetes?. Trends in Molecular Medicine, 2005, 11, 344-347.	3.5	238
27	Bioinformatics strategies for lipidomics analysis: characterization of obesity related hepatic steatosis. BMC Systems Biology, 2007, 1, 12.	3.0	234
28	IGF-Binding Protein-2 Protects Against the Development of Obesity and Insulin Resistance. Diabetes, 2007, 56, 285-294.	0.3	231
29	Mitochondrial DNA Damage Can Promote Atherosclerosis Independently of Reactive Oxygen Species Through Effects on Smooth Muscle Cells and Monocytes and Correlates With Higher-Risk Plaques in Humans. Circulation, 2013, 128, 702-712.	1.6	218
30	Association of Lipidome Remodeling in the Adipocyte Membrane with Acquired Obesity in Humans. PLoS Biology, 2011, 9, e1000623.	2.6	213
31	Lipotoxicity, overnutrition and energy metabolism in aging. Ageing Research Reviews, 2006, 5, 144-164.	5.0	206
32	Transcriptomic profiling across the nonalcoholic fatty liver disease spectrum reveals gene signatures for steatohepatitis and fibrosis. Science Translational Medicine, 2020, 12, .	5.8	205
33	DNA Damage Links Mitochondrial Dysfunction to Atherosclerosis and the Metabolic Syndrome. Circulation Research, 2010, 107, 1021-1031.	2.0	199
34	Monounsaturated Fat-Rich Diet Prevents Central Body Fat Distribution and Decreases Postprandial Adiponectin Expression Induced by a Carbohydrate-Rich Diet in Insulin-Resistant Subjects. Diabetes Care, 2007, 30, 1717-1723.	4.3	197
35	Wnt signalling and the control of cellular metabolism. Biochemical Journal, 2010, 427, 1-17.	1.7	196
36	Consequences of long-term oral administration of the mitochondria-targeted antioxidant MitoQ to wild-type mice. Free Radical Biology and Medicine, 2010, 48, 161-172.	1.3	193

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37	Beyond the Sympathetic Tone: The New Brown Fat Activators. Cell Metabolism, 2013, 17, 638-643.	7.2	191
38	Informatics and computational strategies for the study of lipids. Molecular BioSystems, 2008, 4, 121-127.	2.9	189
39	A MUFA-Rich Diet Improves Posprandial Glucose, Lipid and GLP-1 Responses in Insulin-Resistant Subjects. Journal of the American College of Nutrition, 2007, 26, 434-444.	1.1	187
40	Brain fatty acid synthase activates PPARÎ± to maintain energy homeostasis. Journal of Clinical Investigation, 2007, 117, 2539-2552.	3.9	183
41	Expression of the thermogenic nuclear hormone receptor coactivator PGC-1Î± is reduced in the adipose tissue of morbidly obese subjects. International Journal of Obesity, 2004, 28, 176-179.	1.6	180
42	Regulation of Adiponectin Expression in Human Adipocytes: Effects of Adiposity, Glucocorticoids, and Tumor Necrosis Factor Î±. Obesity, 2005, 13, 662-669.	4.0	177
43	Regulation of mitochondrial morphology and function by stearoylation of TFR1. Nature, 2015, 525, 124-128.	13.7	174
44	Hypothalamic AMPK-ER Stress-JNK1 Axis Mediates the Central Actions of Thyroid Hormones on Energy Balance. Cell Metabolism, 2017, 26, 212-229.e12.	7.2	167
45	Adipogenesis and lipotoxicity: role of peroxisome proliferator-activated receptor Î³ (PPARÎ³) and PPARÎ³coactivator-1 (PGC1). Public Health Nutrition, 2007, 10, 1132-1137.	1.1	165
46	The Human Uncoupling Protein-3 Gene. Journal of Biological Chemistry, 1997, 272, 25433-25436.	1.6	164
47	Lipidomics: a new window to biomedical frontiers. Trends in Biotechnology, 2008, 26, 647-652.	4.9	160
48	Mitochondrial Fusion Is Increased by the Nuclear Coactivator PGC-1Î². PLoS ONE, 2008, 3, e3613.	1.1	159
49	The Link Between Nutritional Status and Insulin Sensitivity Is Dependent on the Adipocyte-Specific Peroxisome Proliferator-Activated Receptor-Â2 Isoform. Diabetes, 2005, 54, 1706-1716.	0.3	157
50	Adipose Tissue-Liver Cross Talk in the Control of Whole-Body Metabolism: Implications in Nonalcoholic Fatty Liver Disease. Gastroenterology, 2020, 158, 1899-1912.	0.6	157
51	The mitochondria-targeted antioxidant MitoQ decreases features of the metabolic syndrome in ATM+/â€"/ApoEâ€"/â€" mice. Free Radical Biology and Medicine, 2012, 52, 841-849.	1.3	154
52	The obese healthy paradox: is inflammation the answer?. Biochemical Journal, 2010, 430, 141-149.	1.7	151
53	CXC Ligand 5 Is an Adipose-Tissue Derived Factor that Links Obesity to Insulin Resistance. Cell Metabolism, 2009, 9, 339-349.	7.2	148
54	Nicotine Induces Negative Energy Balance Through Hypothalamic AMP-Activated Protein Kinase. Diabetes, 2012, 61, 807-817.	0.3	147

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55	Genetic Variability in the TNF-Î± Promoter Is Not Associated with Type II Diabetes Mellitus (NIDDM). Biochemical and Biophysical Research Communications, 1995, 211, 833-839.	1.0	146
56	Human Adipocytes Induce Inflammation and Atrophy in Muscle Cells During Obesity. Diabetes, 2015, 64, 3121-3134.	0.3	146
57	Adipose tissue expandability: the metabolic problems of obesity may arise from the inability to become more obese. Biochemical Society Transactions, 2008, 36, 935-940.	1.6	143
58	Anaplerotic roles of pyruvate carboxylase in mammalian tissues. Cellular and Molecular Life Sciences, 2006, 63, 843-854.	2.4	138
59	The Wnt antagonist Dickkopf-1 and its receptors are coordinately regulated during early human adipogenesis. Journal of Cell Science, 2006, 119, 2613-2620.	1.2	138
60	Lipid zonation and phospholipid remodeling in nonalcoholic fatty liver disease. Hepatology, 2017, 65, 1165-1180.	3.6	138
61	PGC-1Î² Deficiency Accelerates the Transition to Heart Failure in Pressure Overload Hypertrophy. Circulation Research, 2011, 109, 783-793.	2.0	136
62	Adipose Tissue Function and Expandability as Determinants of Lipotoxicity and the Metabolic Syndrome. Advances in Experimental Medicine and Biology, 2017, 960, 161-196.	0.8	136
63	Digenic inheritance of severe insulin resistance in a human pedigree. Nature Genetics, 2002, 31, 379-384.	9.4	134
64	WNT10B mutations in human obesity. Diabetologia, 2006, 49, 678-684.	2.9	127
65	Hypothalamic fatty acid metabolism: A housekeeping pathway that regulates food intake. BioEssays, 2007, 29, 248-261.	1.2	127
66	Using brown adipose tissue to treat obesity â€“ the central issue. Trends in Molecular Medicine, 2011, 17, 405-411.	3.5	127
67	PPARs and adipocyte function. Molecular and Cellular Endocrinology, 2010, 318, 61-68.	1.6	119
68	A Selective Sweep on a Deleterious Mutation in CPT1A in Arctic Populations. American Journal of Human Genetics, 2014, 95, 584-589.	2.6	119
69	An allostatic control of membrane lipid composition by SREBP1. FEBS Letters, 2010, 584, 2689-2698.	1.3	117
70	PPARs and Metabolic Disorders Associated with Challenged Adipose Tissue Plasticity. International Journal of Molecular Sciences, 2018, 19, 2124.	1.8	116
71	A role for adipocyte-derived lipopolysaccharide-binding protein in inflammation- and obesity-associated adipose tissue dysfunction. Diabetologia, 2013, 56, 2524-2537.	2.9	109
72	Ghrelin effects on neuropeptides in the rat hypothalamus depend on fatty acid metabolism actions on BSX but not on gender. FASEB Journal, 2010, 24, 2670-2679.	0.2	108

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73	Could increased time spent in a thermal comfort zone contribute to population increases in obesity?. Obesity Reviews, 2011, 12, 543-551.	3.1	104
74	Adipocyte-secreted BMP8b mediates adrenergic-induced remodeling of the neuro-vascular network in adipose tissue. Nature Communications, 2018, 9, 4974.	5.8	104
75	Central Resistin Regulates Hypothalamic and Peripheral Lipid Metabolism in a Nutritional-Dependent Fashion. Endocrinology, 2008, 149, 4534-4543.	1.4	102
76	Olanzapine-Induced Hyperphagia and Weight Gain Associate with Orexigenic Hypothalamic Neuropeptide Signaling without Concomitant AMPK Phosphorylation. PLoS ONE, 2011, 6, e20571.	1.1	101
77	Leptin in relation to resumption of menses in women with anorexia nervosa. Molecular Psychiatry, 1998, 3, 544-547.	4.1	99
78	Regulation of glucose homoeostasis by brown adipose tissue. Lancet Diabetes and Endocrinology,the, 2013, 1, 353-360.	5.5	97
79	Role of the Î²3-Adrenergic Receptor and/or a Putative Î²4-Adrenergic Receptor on the Expression of Uncoupling Proteins and Peroxisome Proliferator-Activated Receptor-Î³ Coactivator-1. Biochemical and Biophysical Research Communications, 1999, 261, 870-876.	1.0	96
80	Increasing Circulating IGFBP1 Levels Improves Insulin Sensitivity, Promotes Nitric Oxide Production, Lowers Blood Pressure, and Protects Against Atherosclerosis. Diabetes, 2012, 61, 915-924.	0.3	96
81	Sphingolipids and glycerophospholipids â€" The â€œying and yangâ€•of lipotoxicity in metabolic diseases. Progress in Lipid Research, 2017, 66, 14-29.	5.3	96
82	Regional Differences in the Response of Human Pre-Adipocytes to PPARÂ and RXRÂ Agonists. Diabetes, 2002, 51, 718-723.	0.3	94
83	Troglitazone Effects on Gene Expression in Human Skeletal Muscle of Type II Diabetes Involve Up-Regulation of Peroxisome Proliferator-Activated Receptor-Î³1. Journal of Clinical Endocrinology and Metabolism, 1998, 83, 2830-2835.	1.8	89
84	UCPs â€" unlikely calcium porters. Nature Cell Biology, 2008, 10, 1235-1237.	4.6	88
85	Characterisation of the phosphorylation of Î²-catenin at the GSK-3 priming site Ser45. Biochemical and Biophysical Research Communications, 2002, 294, 324-328.	1.0	87
86	Transcript and metabolite analysis of the effects of tamoxifen in rat liver reveals inhibition of fatty acid synthesis in the presence of hepatic steatosis. FASEB Journal, 2005, 19, 1108-1119.	0.2	87
87	Regulation of insulin secretion, glucokinase gene transcription and beta cell proliferation by adipocyte-derived Wnt signalling molecules. Diabetologia, 2007, 51, 147-154.	2.9	86
88	Metabolomic approaches to phenotype characterization and applications to complex diseases. Expert Review of Molecular Diagnostics, 2006, 6, 575-585.	1.5	84
89	Visceral Fat Accumulation During Lipid Overfeeding Is Related to Subcutaneous Adipose Tissue Characteristics in Healthy Men. Journal of Clinical Endocrinology and Metabolism, 2013, 98, 802-810.	1.8	84
90	GTTs and ITTs in mice: simple tests, complex answers. Nature Metabolism, 2021, 3, 883-886.	5.1	84

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91	Hepatic steatosis risk is partly driven by increased de novo lipogenesis following carbohydrate consumption. Genome Biology, 2018, 19, 79.	3.8	83
92	Brown and beige adipose tissue regulate systemic metabolism through a metabolite interorgan signaling axis. Nature Communications, 2021, 12, 1905.	5.8	82
93	Leptin Deficiency Unmasks the Deleterious Effects of Impaired Peroxisome Proliferator-Activated Receptor Â Function (P465L PPARÂ) in Mice. Diabetes, 2006, 55, 2669-2677.	0.3	80
94	Assessment of brown adipose tissue function. Frontiers in Physiology, 2013, 4, 128.	1.3	80
95	Dietary stearic acid regulates mitochondria in vivo in humans. Nature Communications, 2018, 9, 3129.	5.8	80
96	Metabolic phenotyping of a model of adipocyte differentiation. Physiological Genomics, 2009, 39, 109-119.	1.0	78
97	Secreted frizzled-related protein 1 regulates adipose tissue expansion and is dysregulated in severe obesity. International Journal of Obesity, 2010, 34, 1695-1705.	1.6	78
98	Stress-induced activation of brown adipose tissue prevents obesity in conditions of low adaptive thermogenesis. Molecular Metabolism, 2016, 5, 19-33.	3.0	78
99	Adaptive Changes of the Insig1/SREBP1/SCD1 Set Point Help Adipose Tissue to Cope With Increased Storage Demands of Obesity. Diabetes, 2013, 62, 3697-3708.	0.3	76
100	Thyroid-Hormone-Induced Browning of White Adipose Tissue Does Not Contribute to Thermogenesis and Glucose Consumption. Cell Reports, 2019, 27, 3385-3400.e3.	2.9	76
101	Lipid Remodeling in Hepatocyte Proliferation and Hepatocellular Carcinoma. Hepatology, 2021, 73, 1028-1044.	3.6	76
102	Uncoupling Protein 3 (UCP3) Stimulates Glucose Uptake in Muscle Cells through a Phosphoinositide 3-Kinase-dependent Mechanism. Journal of Biological Chemistry, 2001, 276, 12520-12529.	1.6	75
103	ETO/MTG8 Is an Inhibitor of C/EBPÎ² Activity and a Regulator of Early Adipogenesis. Molecular and Cellular Biology, 2004, 24, 9863-9872.	1.1	75
104	Dietary (Poly)phenols, Brown Adipose Tissue Activation, and Energy Expenditure: A Narrative Review. Advances in Nutrition, 2017, 8, 694-704.	2.9	70
105	Genome-wide discovery of genetic loci that uncouple excess adiposity from its comorbidities. Nature Metabolism, 2021, 3, 228-243.	5.1	70
106	Stimulation of mitochondrial proton conductance by hydroxynonenal requires a high membrane potential. Bioscience Reports, 2008, 28, 83-88.	1.1	69
107	Below Thermoneutrality, Changes in Activity Do Not Drive Changes in Total Daily Energy Expenditure between Groups of Mice. Cell Metabolism, 2012, 16, 665-671.	7.2	69
108	Olanzapine, but not aripiprazole, weight-independently elevates serum triglycerides and activates lipogenic gene expression in female rats. International Journal of Neuropsychopharmacology, 2012, 15, 163-179.	1.0	69

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109	Obesity as a clinical and public health problem: Is there a need for a new definition based on lipotoxicity effects?. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2010, 1801, 400-404.	1.2	68
110	Dihydroceramide desaturase 1, the gatekeeper of ceramide induced lipotoxicity. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 40-50.	1.2	68
111	Transforming Growth Factor-Î²3 Regulates Adipocyte Number in Subcutaneous White Adipose Tissue. Cell Reports, 2018, 25, 551-560.e5.	2.9	68
112	Acute effects of orexigenic antipsychotic drugs on lipid and carbohydrate metabolism in rat. Psychopharmacology, 2012, 219, 783-794.	1.5	67
113	Candidate Genes for Insulin Resistance. Diabetes Care, 1996, 19, 396-400.	4.3	65
114	Ghrelin and lipid metabolism: key partners in energy balance. Journal of Molecular Endocrinology, 2011, 46, R43-63.	1.1	65
115	Pharmacological strategies for targeting BAT thermogenesis. Trends in Pharmacological Sciences, 2013, 34, 347-355.	4.0	65
116	Protein CoAlation: a redox-regulated protein modification by coenzyme A in mammalian cells. Biochemical Journal, 2017, 474, 2489-2508.	1.7	65
117	Energization-dependent endogenous activation of proton conductance in skeletal muscle mitochondria. Biochemical Journal, 2008, 412, 131-139.	1.7	64
118	Hypothalamic AMP-activated protein kinase as a mediator of whole body energy balance. Reviews in Endocrine and Metabolic Disorders, 2011, 12, 127-140.	2.6	64
119	Comparative sensitivity of alternative single-strand conformation polymorphism (SSCP) methods. BioTechniques, 1994, 17, 490-2, 494, 496.	0.8	63
120	Ribosomal S6K1 in POMC and AgRP Neurons Regulates Glucose Homeostasis but Not Feeding Behavior in Mice. Cell Reports, 2015, 11, 335-343.	2.9	59
121	Soluble LR11/SorLA represses thermogenesis in adipose tissue and correlates with BMI in humans. Nature Communications, 2015, 6, 8951.	5.8	59
122	Origins of metabolic complications in obesity. Current Opinion in Clinical Nutrition and Metabolic Care, 2011, 14, 520-526.	1.3	58
123	Hypophagia and metabolic adaptations in mice with defective ATGL-mediated lipolysis cause resistance to HFD-induced obesity. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13850-13855.	3.3	58
124	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
125	Genetic identification of thiosulfate sulfurtransferase as an adipocyte-expressed antidiabetic target in mice selected for leanness. Nature Medicine, 2016, 22, 771-779.	15.2	57
126	Effects of Obesity and Stable Weight Reduction on UCP2 and UCP3 Gene Expression in Humans. Obesity, 1999, 7, 133-140.	4.0	56

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127	Genetic Variants in Human Sterol Regulatory Element Binding Protein-1c in Syndromes of Severe Insulin Resistance and Type 2 Diabetes. Diabetes, 2004, 53, 842-846.	0.3	55
128	PGC-1Î± Negatively Regulates Extrasynaptic NMDAR Activity and Excitotoxicity. Journal of Neuroscience, 2012, 32, 6995-7000.	1.7	55
129	Increased Dihydroceramide/Ceramide Ratio Mediated by Defective Expression of <i>degs1</i> Impairs Adipocyte Differentiation and Function. Diabetes, 2015, 64, 1180-1192.	0.3	55
130	Leptin-mediated changes in hepatic mitochondrial metabolism, structure, and protein levels. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13100-13105.	3.3	54
131	Peroxisome Proliferator-Activated Receptor Î³-Dependent Regulation of Lipolytic Nodes and Metabolic Flexibility. Molecular and Cellular Biology, 2012, 32, 1555-1565.	1.1	54
132	DLK1/PREF1 regulates nutrient metabolism and protects from steatosis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16088-16093.	3.3	54
133	Bsx, a Novel Hypothalamic Factor Linking Feeding with Locomotor Activity, Is Regulated by Energy Availability. Endocrinology, 2008, 149, 3009-3015.	1.4	52
134	Brown Adipose Tissue Thermogenic Capacity Is Regulated by Elovl6. Cell Reports, 2015, 13, 2039-2047.	2.9	52
135	Psychosocial stress induces hyperphagia and exacerbates diet-induced insulin resistance and the manifestations of the Metabolic Syndrome. Psychoneuroendocrinology, 2013, 38, 2933-2942.	1.3	51
136	Adipose tissue fatty acid chain length and mono-unsaturation increases with obesity and insulin resistance. Scientific Reports, 2015, 5, 18366.	1.6	50
137	Genome-Wide Profiling of MicroRNAs in Adipose Mesenchymal Stem Cell Differentiation and Mouse Models of Obesity. PLoS ONE, 2011, 6, e21305.	1.1	49
138	Genetic and physiologic analysis of the role of uncoupling protein 3 in human energy homeostasis. Diabetes, 1999, 48, 1890-1895.	0.3	48
139	Thyroid hormones directly activate the expression of the human and mouse uncoupling protein-3 genes through a thyroid response element in the proximal promoter region. Biochemical Journal, 2005, 386, 505-513.	1.7	48
140	Current challenges in metabolomics for diabetes research: a vital functional genomic tool or just a ploy for gaining funding?. Physiological Genomics, 2008, 34, 1-5.	1.0	48
141	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
142	Extracellular Fatty Acid Synthase: A Possible Surrogate Biomarker of Insulin Resistance. Diabetes, 2010, 59, 1506-1511.	0.3	47
143	SGBS cells as a model of human adipocyte browning: A comprehensive comparative study with primary human white subcutaneous adipocytes. Scientific Reports, 2017, 7, 4031.	1.6	47
144	Role of the POZ Zinc Finger Transcription Factor FBI-1 in Human and Murine Adipogenesis. Journal of Biological Chemistry, 2004, 279, 11711-11718.	1.6	46

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145	Gateway to the metabolic syndrome. Nature Medicine, 2005, 11, 602-603.	15.2	46
146	Adipogenesis: new insights into brown adipose tissue differentiation. Journal of Molecular Endocrinology, 2013, 51, T75-T85.	1.1	46
147	Fatty Acid and Glucose Sensors in Hepatic Lipid Metabolism: Implications in NAFLD. Seminars in Liver Disease, 2015, 35, 250-261.	1.8	46
148	Accelerated phosphatidylcholine turnover in macrophages promotes adipose tissue inflammation in obesity. ELife, 2019, 8, .	2.8	46
149	Brown and beige fat: From molecules to physiology and pathophysiology. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 37-50.	1.2	45
150	Resistin: a new link between obesity and insulin resistance?. Clinical Endocrinology, 2001, 55, 437-438.	1.2	44
151	A Prevalent Variant in PPP1R3A Impairs Glycogen Synthesis and Reduces Muscle Glycogen Content in Humans and Mice. PLoS Medicine, 2008, 5, e27.	3.9	44
152	Postprandial inflammatory response in adipose tissue of patients with metabolic syndrome after the intake of different dietary models. Molecular Nutrition and Food Research, 2011, 55, 1759-1770.	1.5	44
153	Adaptation and failure of pancreatic Î² cells in murine models with different degrees of metabolic syndrome. DMM Disease Models and Mechanisms, 2009, 2, 582-592.	1.2	43
154	Serum Levels of Retinol-Binding Protein 4 and Adiponectin in Women with Polycystic Ovary Syndrome: Associations with Visceral Fat But No Evidence for Fat Mass-Independent Effects on Pathogenesis in This Condition. Journal of Clinical Endocrinology and Metabolism, 2008, 93, 2859-2865.	1.8	42
155	Adipose tissue expandability, lipotoxicity and the metabolic syndrome. Endocrinologia Y Nutricion: Organo De La Sociedad Espanola De Endocrinologia Y Nutricion, 2013, 60, 39-43.	0.8	42
156	Understanding disease mechanisms with models of signaling pathway activities. BMC Systems Biology, 2014, 8, 121.	3.0	42
157	Interaction between hormone-sensitive lipase and ChREBP in fat cells controls insulin sensitivity. Nature Metabolism, 2019, 1, 133-146.	5.1	42
158	Signalling activity of beta-catenin targeted to different subcellular compartments. Biochemical Journal, 2004, 379, 471-477.	1.7	40
159	Prostaglandin profiling reveals a role for haematopoietic prostaglandin D synthase in adipose tissue macrophage polarisation in mice and humans. International Journal of Obesity, 2015, 39, 1151-1160.	1.6	40
160	Pancreatic Î² cells control glucose homeostasis via the secretion of exosomal miRâ€29 family. Journal of Extracellular Vesicles, 2021, 10, e12055.	5.5	39
161	Mice expressing human but not murine beta3-adrenergic receptors under the control of human gene regulatory elements. Diabetes, 1998, 47, 1464-1471.	0.3	38
162	Critical assessment of the current guidelines for the management and treatment of morbidly obese patients. Journal of Endocrinological Investigation, 2007, 30, 844-852.	1.8	38

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163	Fed-EXosome: extracellular vesicles and cellâ€“cell communication in metabolic regulation. Essays in Biochemistry, 2018, 62, 165-175.	2.1	37
164	Controlling the glucose factory. Nature, 2001, 413, 125-126.	13.7	36
165	Lamin Expression in Human Adipose Cells in Relation to Anatomical Site and Differentiation State. Journal of Clinical Endocrinology and Metabolism, 2002, 87, 728-734.	1.8	35
166	Accelerated renal disease is associated with the development of metabolic syndrome in a glucolipotoxic mouse model. DMM Disease Models and Mechanisms, 2012, 5, 636-48.	1.2	35
167	Peroxisome Proliferator-Activated Receptor Î³2 Controls the Rate of Adipose Tissue Lipid Storage and Determines Metabolic Flexibility. Cell Reports, 2018, 24, 2005-2012.e7.	2.9	35
168	Differential Effects of Adiposity on Peroxisomal Proliferator-Activated Receptor Î³1 and Î³2 Messenger Ribonucleic Acid Expression in Human Adipocytes. Journal of Clinical Endocrinology and Metabolism, 2002, 87, 4203-4207.	1.8	34
169	Liver-specific deletion of insulin receptor substrate 2 does not impair hepatic glucose and lipid metabolism in mice. Diabetologia, 2006, 49, 552-561.	2.9	34
170	Defective glucose and lipid metabolism in rheumatoid arthritis is determined by chronic inflammation in metabolic tissues. Journal of Internal Medicine, 2018, 284, 61-77.	2.7	34
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