

Antonio Vidal-Puig

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281
papers

20,863
citations

78
h-index

138
g-index

311
ext. papers

23,663
ext. citations

9.4
avg, IF

6.81
L-index

#	Paper	IF	Citations
281	The organization, promoter analysis, and expression of the human PPARgamma gene. <i>Journal of Biological Chemistry</i> , 1997 , 272, 18779-89	5.4	889
280	UCP3: an uncoupling protein homologue expressed preferentially and abundantly in skeletal muscle and brown adipose tissue. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 235, 79-82	3.4	639
279	Resistin / Fizz3 expression in relation to obesity and peroxisome proliferator-activated receptor-gamma action in humans. <i>Diabetes</i> , 2001 , 50, 2199-202	0.9	637
278	Adipose tissue expandability, lipotoxicity and the Metabolic Syndrome--an allostatic perspective. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010 , 1801, 338-49	5	622
277	Hypothalamic AMPK and fatty acid metabolism mediate thyroid regulation of energy balance. <i>Nature Medicine</i> , 2010 , 16, 1001-8	50.5	502
276	Regulation of PPAR gamma gene expression by nutrition and obesity in rodents. <i>Journal of Clinical Investigation</i> , 1996 , 97, 2553-61	15.9	502
275	Adipogenesis and WNT signalling. <i>Trends in Endocrinology and Metabolism</i> , 2009 , 20, 16-24	8.8	420
274	BMP8B increases brown adipose tissue thermogenesis through both central and peripheral actions. <i>Cell</i> , 2012 , 149, 871-85	56.2	419
273	AMPK: a metabolic gauge regulating whole-body energy homeostasis. <i>Trends in Molecular Medicine</i> , 2008 , 14, 539-49	11.5	412
272	Hypothalamic fatty acid metabolism mediates the orexigenic action of ghrelin. <i>Cell Metabolism</i> , 2008 , 7, 389-99	24.6	363
271	Human metabolic syndrome resulting from dominant-negative mutations in the nuclear receptor peroxisome proliferator-activated receptor-gamma. <i>Diabetes</i> , 2003 , 52, 910-7	0.9	361
270	Mitochondria are required for pro-ageing features of the senescent phenotype. <i>EMBO Journal</i> , 2016 , 35, 724-42	13	357
269	The different shades of fat. <i>Nature</i> , 2014 , 510, 76-83	50.4	306
268	Nuclear receptor corepressor RIP140 regulates fat accumulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 8437-42	11.5	306
267	PPAR gamma 2 prevents lipotoxicity by controlling adipose tissue expandability and peripheral lipid metabolism. <i>PLoS Genetics</i> , 2007 , 3, e64	6	304
266	Differential lipid partitioning between adipocytes and tissue macrophages modulates macrophage lipotoxicity and M2/M1 polarization in obese mice. <i>Diabetes</i> , 2011 , 60, 797-809	0.9	248
265	Coordination of PGC-1beta and iron uptake in mitochondrial biogenesis and osteoclast activation. <i>Nature Medicine</i> , 2009 , 15, 259-66	50.5	246

264	Genetic variation near IRS1 associates with reduced adiposity and an impaired metabolic profile. <i>Nature Genetics</i> , 2011 , 43, 753-60	36.3	237
263	Pathways to the analysis of microarray data. <i>Trends in Biotechnology</i> , 2005 , 23, 429-35	15.1	229
262	Ablation of PGC-1beta results in defective mitochondrial activity, thermogenesis, hepatic function, and cardiac performance. <i>PLoS Biology</i> , 2006 , 4, e369	9.7	217
261	It's not how fat you are, it's what you do with it that counts. <i>PLoS Biology</i> , 2008 , 6, e237	9.7	211
260	Adipose tissue plasticity: how fat depots respond differently to pathophysiological cues. <i>Diabetologia</i> , 2016 , 59, 1075-88	10.3	206
259	Extracellular Vesicles: Novel Mediators of Cell Communication In Metabolic Disease. <i>Trends in Endocrinology and Metabolism</i> , 2017 , 28, 3-18	8.8	205
258	Bioinformatics strategies for lipidomics analysis: characterization of obesity related hepatic steatosis. <i>BMC Systems Biology</i> , 2007 , 1, 12	3.5	204
257	Visfatin: the missing link between intra-abdominal obesity and diabetes?. <i>Trends in Molecular Medicine</i> , 2005 , 11, 344-7	11.5	191
256	IGF-binding protein-2 protects against the development of obesity and insulin resistance. <i>Diabetes</i> , 2007 , 56, 285-94	0.9	187
255	GDF15 mediates the effects of metformin on body weight and energy balance. <i>Nature</i> , 2020 , 578, 444-448	30.4	171
254	Beyond the sympathetic tone: the new brown fat activators. <i>Cell Metabolism</i> , 2013 , 17, 638-43	24.6	170
253	Lipotoxicity, overnutrition and energy metabolism in aging. <i>Ageing Research Reviews</i> , 2006 , 5, 144-64	12	170
252	Association of lipidome remodeling in the adipocyte membrane with acquired obesity in humans. <i>PLoS Biology</i> , 2011 , 9, e1000623	9.7	169
251	DNA damage links mitochondrial dysfunction to atherosclerosis and the metabolic syndrome. <i>Circulation Research</i> , 2010 , 107, 1021-31	15.7	168
250	Informatics and computational strategies for the study of lipids. <i>Molecular BioSystems</i> , 2008 , 4, 121-7		167
249	Monounsaturated fat-rich diet prevents central body fat distribution and decreases postprandial adiponectin expression induced by a carbohydrate-rich diet in insulin-resistant subjects. <i>Diabetes Care</i> , 2007 , 30, 1717-23	14.6	167
248	Brain fatty acid synthase activates PPARalpha to maintain energy homeostasis. <i>Journal of Clinical Investigation</i> , 2007 , 117, 2539-52	15.9	166
247	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. <i>Circulation</i> , 2013 , 128, 702-12	16.7	160

246	Consequences of long-term oral administration of the mitochondria-targeted antioxidant MitoQ to wild-type mice. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 161-72	7.8	157
245	Wnt signalling and the control of cellular metabolism. <i>Biochemical Journal</i> , 2010 , 427, 1-17	3.8	155
244	A MUFA-rich diet improves postprandial glucose, lipid and GLP-1 responses in insulin-resistant subjects. <i>Journal of the American College of Nutrition</i> , 2007 , 26, 434-44	3.5	154
243	GDF15 Provides an Endocrine Signal of Nutritional Stress in Mice and Humans. <i>Cell Metabolism</i> , 2019 , 29, 707-718.e8	24.6	153
242	Expression of the thermogenic nuclear hormone receptor coactivator PGC-1alpha is reduced in the adipose tissue of morbidly obese subjects. <i>International Journal of Obesity</i> , 2004 , 28, 176-9	5.5	152
241	Regulation of adiponectin expression in human adipocytes: effects of adiposity, glucocorticoids, and tumor necrosis factor alpha. <i>Obesity</i> , 2005 , 13, 662-9		151
240	The link between nutritional status and insulin sensitivity is dependent on the adipocyte-specific peroxisome proliferator-activated receptor-gamma2 isoform. <i>Diabetes</i> , 2005 , 54, 1706-16	0.9	139
239	Mitochondrial fusion is increased by the nuclear coactivator PGC-1beta. <i>PLoS ONE</i> , 2008 , 3, e3613	3.7	137
238	The obese healthy paradox: is inflammation the answer?. <i>Biochemical Journal</i> , 2010 , 430, 141-9	3.8	133
237	Lipidomics: a new window to biomedical frontiers. <i>Trends in Biotechnology</i> , 2008 , 26, 647-52	15.1	133
236	Adipogenesis and lipotoxicity: role of peroxisome proliferator-activated receptor gamma (PPARGamma) and PPARGammacoactivator-1 (PGC1). <i>Public Health Nutrition</i> , 2007 , 10, 1132-7	3.3	133
235	The human uncoupling protein-3 gene. Genomic structure, chromosomal localization, and genetic basis for short and long form transcripts. <i>Journal of Biological Chemistry</i> , 1997 , 272, 25433-6	5.4	131
234	Anaplerotic roles of pyruvate carboxylase in mammalian tissues. <i>Cellular and Molecular Life Sciences</i> , 2006 , 63, 843-54	10.3	130
233	Nicotine induces negative energy balance through hypothalamic AMP-activated protein kinase. <i>Diabetes</i> , 2012 , 61, 807-17	0.9	129
232	Hypothalamic AMPK-ER Stress-JNK1 Axis Mediates the Central Actions of Thyroid Hormones on Energy Balance. <i>Cell Metabolism</i> , 2017 , 26, 212-229.e12	24.6	128
231	The Wnt antagonist Dickkopf-1 and its receptors are coordinately regulated during early human adipogenesis. <i>Journal of Cell Science</i> , 2006 , 119, 2613-2620	5.3	128
230	The mitochondria-targeted antioxidant MitoQ decreases features of the metabolic syndrome in ATM+/-/ApoE-/- mice. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 841-9	7.8	127
229	Genetic variability in the TNF-alpha promoter is not associated with type II diabetes mellitus (NIDDM). <i>Biochemical and Biophysical Research Communications</i> , 1995 , 211, 833-9	3.4	125

228	Adipose tissue expandability: the metabolic problems of obesity may arise from the inability to become more obese. <i>Biochemical Society Transactions</i> , 2008 , 36, 935-40	5.1	121
227	Digenic inheritance of severe insulin resistance in a human pedigree. <i>Nature Genetics</i> , 2002 , 31, 379-84	36.3	121
226	Regulation of mitochondrial morphology and function by stearoylation of TFR1. <i>Nature</i> , 2015 , 525, 124-8	50.4	119
225	CXC ligand 5 is an adipose-tissue derived factor that links obesity to insulin resistance. <i>Cell Metabolism</i> , 2009 , 9, 339-49	24.6	119
224	Hypothalamic fatty acid metabolism: a housekeeping pathway that regulates food intake. <i>BioEssays</i> , 2007 , 29, 248-61	4.1	113
223	Human Adipocytes Induce Inflammation and Atrophy in Muscle Cells During Obesity. <i>Diabetes</i> , 2015 , 64, 3121-34	0.9	111
222	PGC-1 α deficiency accelerates the transition to heart failure in pressure overload hypertrophy. <i>Circulation Research</i> , 2011 , 109, 783-93	15.7	110
221	Using brown adipose tissue to treat obesity - the central issue. <i>Trends in Molecular Medicine</i> , 2011 , 17, 405-11	11.5	109
220	WNT10B mutations in human obesity. <i>Diabetologia</i> , 2006 , 49, 678-84	10.3	103
219	PPARs and adipocyte function. <i>Molecular and Cellular Endocrinology</i> , 2010 , 318, 61-8	4.4	101
218	Ghrelin effects on neuropeptides in the rat hypothalamus depend on fatty acid metabolism actions on BSX but not on gender. <i>FASEB Journal</i> , 2010 , 24, 2670-9	0.9	95
217	Adipose Tissue Function and Expandability as Determinants of Lipotoxicity and the Metabolic Syndrome. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 960, 161-196	3.6	93
216	Role of the beta(3)-adrenergic receptor and/or a putative beta(4)-adrenergic receptor on the expression of uncoupling proteins and peroxisome proliferator-activated receptor-gamma coactivator-1. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 261, 870-6	3.4	91
215	Central resistin regulates hypothalamic and peripheral lipid metabolism in a nutritional-dependent fashion. <i>Endocrinology</i> , 2008 , 149, 4534-43	4.8	88
214	Lipid zonation and phospholipid remodeling in nonalcoholic fatty liver disease. <i>Hepatology</i> , 2017 , 65, 1165-1180	11.2	87
213	Leptin in relation to resumption of menses in women with anorexia nervosa. <i>Molecular Psychiatry</i> , 1998 , 3, 544-7	15.1	87
212	A Selective Sweep on a Deleterious Mutation in CPT1A in Arctic Populations. <i>American Journal of Human Genetics</i> , 2014 , 95, 584-589	11	86
211	Regional differences in the response of human pre-adipocytes to PPARgamma and RXRalpha agonists. <i>Diabetes</i> , 2002 , 51, 718-23	0.9	86

210	UCPs--unlikely calcium porters. <i>Nature Cell Biology</i> , 2008 , 10, 1235-7; author reply 1237-40	23.4	85
209	Metabolomic approaches to phenotype characterization and applications to complex diseases. <i>Expert Review of Molecular Diagnostics</i> , 2006 , 6, 575-85	3.8	82
208	Characterisation of the phosphorylation of beta-catenin at the GSK-3 priming site Ser45. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 294, 324-8	3.4	82
207	Troglitazone effects on gene expression in human skeletal muscle of type II diabetes involve up-regulation of peroxisome proliferator-activated receptor-gamma. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1998 , 83, 2830-5	5.6	82
206	Could increased time spent in a thermal comfort zone contribute to population increases in obesity?. <i>Obesity Reviews</i> , 2011 , 12, 543-51	10.6	81
205	An allostatic control of membrane lipid composition by SREBP1. <i>FEBS Letters</i> , 2010 , 584, 2689-98	3.8	80
204	Olanzapine-induced hyperphagia and weight gain associate with orexigenic hypothalamic neuropeptide signaling without concomitant AMPK phosphorylation. <i>PLoS ONE</i> , 2011 , 6, e20571	3.7	79
203	Regulation of glucose homeostasis by brown adipose tissue. <i>Lancet Diabetes and Endocrinology</i> , 2013 , 1, 353-60	18.1	78
202	Corrigendum to Ablation of PGC1 beta prevents mTOR dependent endoplasmic reticulum stress response [Exp. Neurol. 237/2 (2012) 396-406]. <i>Experimental Neurology</i> , 2013 , 239, 101	5.7	78
201	A role for adipocyte-derived lipopolysaccharide-binding protein in inflammation- and obesity-associated adipose tissue dysfunction. <i>Diabetologia</i> , 2013 , 56, 2524-37	10.3	75
200	Visceral fat accumulation during lipid overfeeding is related to subcutaneous adipose tissue characteristics in healthy men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013 , 98, 802-10	5.6	73
199	Regulation of insulin secretion, glucokinase gene transcription and beta cell proliferation by adipocyte-derived Wnt signalling molecules. <i>Diabetologia</i> , 2008 , 51, 147-54	10.3	73
198	Transcript and metabolite analysis of the effects of tamoxifen in rat liver reveals inhibition of fatty acid synthesis in the presence of hepatic steatosis. <i>FASEB Journal</i> , 2005 , 19, 1108-19	0.9	73
197	Leptin deficiency unmasks the deleterious effects of impaired peroxisome proliferator-activated receptor gamma function (P465L PPARgamma) in mice. <i>Diabetes</i> , 2006 , 55, 2669-77	0.9	71
196	Metabolic phenotyping of a model of adipocyte differentiation. <i>Physiological Genomics</i> , 2009 , 39, 109-19	3.6	70
195	PPARs and Metabolic Disorders Associated with Challenged Adipose Tissue Plasticity. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	68
194	ETO/MTG8 is an inhibitor of C/EBPbeta activity and a regulator of early adipogenesis. <i>Molecular and Cellular Biology</i> , 2004 , 24, 9863-72	4.8	68
193	Increasing circulating IGFBP1 levels improves insulin sensitivity, promotes nitric oxide production, lowers blood pressure, and protects against atherosclerosis. <i>Diabetes</i> , 2012 , 61, 915-24	0.9	64

192	Olanzapine, but not aripiprazole, weight-independently elevates serum triglycerides and activates lipogenic gene expression in female rats. <i>International Journal of Neuropsychopharmacology</i> , 2012 , 15, 163-79	5.8	63
191	Stimulation of mitochondrial proton conductance by hydroxynonenal requires a high membrane potential. <i>Bioscience Reports</i> , 2008 , 28, 83-8	4.1	63
190	Assessment of brown adipose tissue function. <i>Frontiers in Physiology</i> , 2013 , 4, 128	4.6	62
189	Uncoupling protein 3 (UCP3) stimulates glucose uptake in muscle cells through a phosphoinositide 3-kinase-dependent mechanism. <i>Journal of Biological Chemistry</i> , 2001 , 276, 12520-9	5.4	62
188	Acute effects of orexigenic antipsychotic drugs on lipid and carbohydrate metabolism in rat. <i>Psychopharmacology</i> , 2012 , 219, 783-94	4.7	60
187	Secreted frizzled-related protein 1 regulates adipose tissue expansion and is dysregulated in severe obesity. <i>International Journal of Obesity</i> , 2010 , 34, 1695-705	5.5	60
186	Stress-induced activation of brown adipose tissue prevents obesity in conditions of low adaptive thermogenesis. <i>Molecular Metabolism</i> , 2016 , 5, 19-33	8.8	59
185	Hypothalamic AMP-activated protein kinase as a mediator of whole body energy balance. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2011 , 12, 127-40	10.5	59
184	Energization-dependent endogenous activation of proton conductance in skeletal muscle mitochondria. <i>Biochemical Journal</i> , 2008 , 412, 131-9	3.8	58
183	Candidate genes for insulin resistance. <i>Diabetes Care</i> , 1996 , 19, 396-400	14.6	58
182	Adipocyte-secreted BMP8b mediates adrenergic-induced remodeling of the neuro-vascular network in adipose tissue. <i>Nature Communications</i> , 2018 , 9, 4974	17.4	58
181	Adaptive changes of the Insig1/SREBP1/SCD1 set point help adipose tissue to cope with increased storage demands of obesity. <i>Diabetes</i> , 2013 , 62, 3697-708	0.9	56
180	Pharmacological strategies for targeting BAT thermogenesis. <i>Trends in Pharmacological Sciences</i> , 2013 , 34, 347-55	13.2	55
179	Comparative sensitivity of alternative single-strand conformation polymorphism (SSCP) methods. <i>BioTechniques</i> , 1994 , 17, 490-2, 494, 496	2.5	55
178	Sphingolipids and glycerophospholipids - The "ying and yang" of lipotoxicity in metabolic diseases. <i>Progress in Lipid Research</i> , 2017 , 66, 14-29	14.3	53
177	Protein CoAlation: a redox-regulated protein modification by coenzyme A in mammalian cells. <i>Biochemical Journal</i> , 2017 , 474, 2489-2508	3.8	53
176	Dihydroceramide desaturase 1, the gatekeeper of ceramide induced lipotoxicity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2015 , 1851, 40-50	5	53
175	Adipose Tissue-Liver Cross Talk in the Control of Whole-Body Metabolism: Implications in Nonalcoholic Fatty Liver Disease. <i>Gastroenterology</i> , 2020 , 158, 1899-1912	13.3	53

174	Below thermoneutrality, changes in activity do not drive changes in total daily energy expenditure between groups of mice. <i>Cell Metabolism</i> , 2012 , 16, 665-71	24.6	53
173	Obesity as a clinical and public health problem: is there a need for a new definition based on lipotoxicity effects?. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010 , 1801, 400-4		52
172	Decreased brown adipocyte recruitment and thermogenic capacity in mice with impaired peroxisome proliferator-activated receptor (P465L PPARgamma) function. <i>Endocrinology</i> , 2006 , 147, 5708-14	4.8	52
171	Ghrelin and lipid metabolism: key partners in energy balance. <i>Journal of Molecular Endocrinology</i> , 2011 , 46, R43-63	4.5	51
170	Transcriptomic profiling across the nonalcoholic fatty liver disease spectrum reveals gene signatures for steatohepatitis and fibrosis. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	51
169	Leptin-mediated changes in hepatic mitochondrial metabolism, structure, and protein levels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 13100-5	11.5	50
168	Effects of obesity and stable weight reduction on UCP2 and UCP3 gene expression in humans. <i>Obesity</i> , 1999 , 7, 133-40		48
167	Soluble LR11/SorLA represses thermogenesis in adipose tissue and correlates with BMI in humans. <i>Nature Communications</i> , 2015 , 6, 8951	17.4	46
166	PGC-1 β negatively regulates extrasynaptic NMDAR activity and excitotoxicity. <i>Journal of Neuroscience</i> , 2012 , 32, 6995-7000	6.6	46
165	Origins of metabolic complications in obesity: ectopic fat accumulation. The importance of the qualitative aspect of lipotoxicity. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2011 , 14, 520-6	3.8	46
164	Bsx, a novel hypothalamic factor linking feeding with locomotor activity, is regulated by energy availability. <i>Endocrinology</i> , 2008 , 149, 3009-15	4.8	46
163	Genetic variants in human sterol regulatory element binding protein-1c in syndromes of severe insulin resistance and type 2 diabetes. <i>Diabetes</i> , 2004 , 53, 842-6	0.9	46
162	Hepatic steatosis risk is partly driven by increased de novo lipogenesis following carbohydrate consumption. <i>Genome Biology</i> , 2018 , 19, 79	18.3	45
161	Dietary (Poly)phenols, Brown Adipose Tissue Activation, and Energy Expenditure: A Narrative Review. <i>Advances in Nutrition</i> , 2017 , 8, 694-704	10	45
160	Genetic and physiologic analysis of the role of uncoupling protein 3 in human energy homeostasis. <i>Diabetes</i> , 1999 , 48, 1890-5	0.9	45
159	Transforming Growth Factor- β Regulates Adipocyte Number in Subcutaneous White Adipose Tissue. <i>Cell Reports</i> , 2018 , 25, 551-560.e5	10.6	45
158	Hypophagia and metabolic adaptations in mice with defective ATGL-mediated lipolysis cause resistance to HFD-induced obesity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13850-5	11.5	44
157	Peroxisome proliferator-activated receptor β dependent regulation of lipolytic nodes and metabolic flexibility. <i>Molecular and Cellular Biology</i> , 2012 , 32, 1555-65	4.8	44

156	Increased dihydroceramide/ceramide ratio mediated by defective expression of degs1 impairs adipocyte differentiation and function. <i>Diabetes</i> , 2015 , 64, 1180-92	0.9	43
155	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. <i>Biochemical Journal</i> , 2005 , 386, 505-13	3.8	43
154	Thyroid-Hormone-Induced Browning of White Adipose Tissue Does Not Contribute to Thermogenesis and Glucose Consumption. <i>Cell Reports</i> , 2019 , 27, 3385-3400.e3	10.6	42
153	Dietary stearic acid regulates mitochondria in vivo in humans. <i>Nature Communications</i> , 2018 , 9, 3129	17.4	42
152	Psychosocial stress induces hyperphagia and exacerbates diet-induced insulin resistance and the manifestations of the Metabolic Syndrome. <i>Psychoneuroendocrinology</i> , 2013 , 38, 2933-42	5	42
151	Ribosomal S6K1 in POMC and AgRP Neurons Regulates Glucose Homeostasis but Not Feeding Behavior in Mice. <i>Cell Reports</i> , 2015 , 11, 335-43	10.6	42
150	A new role for lipocalin prostaglandin d synthase in the regulation of brown adipose tissue substrate utilization. <i>Diabetes</i> , 2012 , 61, 3139-47	0.9	42
149	Role of the POZ zinc finger transcription factor FBI-1 in human and murine adipogenesis. <i>Journal of Biological Chemistry</i> , 2004 , 279, 11711-8	5.4	40
148	Genome-wide profiling of microRNAs in adipose mesenchymal stem cell differentiation and mouse models of obesity. <i>PLoS ONE</i> , 2011 , 6, e21305	3.7	39
147	DLK1/PREF1 regulates nutrient metabolism and protects from steatosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16088-93	11.5	38
146	Adipogenesis: new insights into brown adipose tissue differentiation. <i>Journal of Molecular Endocrinology</i> , 2013 , 51, T75-85	4.5	38
145	Postprandial inflammatory response in adipose tissue of patients with metabolic syndrome after the intake of different dietary models. <i>Molecular Nutrition and Food Research</i> , 2011 , 55, 1759-70	5.9	38
144	Extracellular fatty acid synthase: a possible surrogate biomarker of insulin resistance. <i>Diabetes</i> , 2010 , 59, 1506-11	0.9	38
143	Adaptation and failure of pancreatic beta cells in murine models with different degrees of metabolic syndrome. <i>DMM Disease Models and Mechanisms</i> , 2009 , 2, 582-92	4.1	38
142	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. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2008 , 93, 2859-65	5.6	38
141	Resistin: a new link between obesity and insulin resistance?. <i>Clinical Endocrinology</i> , 2001 , 55, 437-8	3.4	38
140	Fatty Acid and Glucose Sensors in Hepatic Lipid Metabolism: Implications in NAFLD. <i>Seminars in Liver Disease</i> , 2015 , 35, 250-61	7.3	37
139	Adipose tissue fatty acid chain length and mono-unsaturation increases with obesity and insulin resistance. <i>Scientific Reports</i> , 2015 , 5, 18366	4.9	37

138	Current challenges in metabolomics for diabetes research: a vital functional genomic tool or just a ploy for gaining funding?. <i>Physiological Genomics</i> , 2008 , 34, 1-5	3.6	36
137	Signalling activity of beta-catenin targeted to different subcellular compartments. <i>Biochemical Journal</i> , 2004 , 379, 471-7	3.8	36
136	Brown Adipose Tissue Thermogenic Capacity Is Regulated by Elovl6. <i>Cell Reports</i> , 2015 , 13, 2039-47	10.6	35
135	SGBS cells as a model of human adipocyte browning: A comprehensive comparative study with primary human white subcutaneous adipocytes. <i>Scientific Reports</i> , 2017 , 7, 4031	4.9	34
134	Genetic identification of thiosulfate sulfurtransferase as an adipocyte-expressed antidiabetic target in mice selected for leanness. <i>Nature Medicine</i> , 2016 , 22, 771-9	50.5	33
133	Understanding disease mechanisms with models of signaling pathway activities. <i>BMC Systems Biology</i> , 2014 , 8, 121	3.5	33
132	A prevalent variant in PPP1R3A impairs glycogen synthesis and reduces muscle glycogen content in humans and mice. <i>PLoS Medicine</i> , 2008 , 5, e27	11.6	33
131	Mice expressing human but not murine beta3-adrenergic receptors under the control of human gene regulatory elements. <i>Diabetes</i> , 1998 , 47, 1464-71	0.9	32
130	Critical assessment of the current guidelines for the management and treatment of morbidly obese patients. <i>Journal of Endocrinological Investigation</i> , 2007 , 30, 844-52	5.2	31
129	Differential effects of adiposity on peroxisomal proliferator-activated receptor gamma1 and gamma2 messenger ribonucleic acid expression in human adipocytes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002 , 87, 4203-7	5.6	31
128	Lamin expression in human adipose cells in relation to anatomical site and differentiation state. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002 , 87, 728-34	5.6	31
127	Liver-specific deletion of insulin receptor substrate 2 does not impair hepatic glucose and lipid metabolism in mice. <i>Diabetologia</i> , 2006 , 49, 552-61	10.3	29
126	Prostaglandin profiling reveals a role for haematopoietic prostaglandin D synthase in adipose tissue macrophage polarisation in mice and humans. <i>International Journal of Obesity</i> , 2015 , 39, 1151-60	5.5	28
125	Brown and beige fat: From molecules to physiology and pathophysiology. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019 , 1864, 37-50	5	28
124	Adipose tissue expandability, lipotoxicity and the metabolic syndrome. <i>Endocrinologia Y Nutricion: Organo De La Sociedad Espanola De Endocrinologia Y Nutricion</i> , 2013 , 60 Suppl 1, 39-43		28
123	Accelerated renal disease is associated with the development of metabolic syndrome in a glucolipotoxic mouse model. <i>DMM Disease Models and Mechanisms</i> , 2012 , 5, 636-48	4.1	26
122	Accelerated phosphatidylcholine turnover in macrophages promotes adipose tissue inflammation in obesity. <i>ELife</i> , 2019 , 8,	8.9	26
121	Interaction between hormone-sensitive lipase and ChREBP in fat cells controls insulin sensitivity. <i>Nature Metabolism</i> , 2019 , 1, 133-146	14.6	26

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