Sander Kersten

List of Publications by Year in Descending Order

230 papers	20,376 citations	77 h-index	139 g-index
241 ext. papers	23,110 ext. citations	8.5 avg, IF	7.17 L-index

#	Paper	IF	Citations
230	Triglyceride breakdown from lipid droplets regulates the inflammatory response in macrophages.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2114739119	11.5	1
229	Angiopoietin-like 4 governs diurnal lipoprotein lipase activity in brown adipose tissue.. *Molecular Metabolism*, **2022**, 101497	8.8	1
228	ANGPTL4 silencing via antisense oligonucleotides reduces plasma triglycerides and glucose in mice without causing lymphadenopathy. *Journal of Lipid Research*, **2022**, 100237	6.3	0
227	Role and mechanism of action of angiopoietin-like protein ANGPTL4 in plasma lipid metabolism. *Journal of Lipid Research*, **2021**, 100150	6.3	3
226	Metabolic responses to mild cold acclimation in type 2 diabetes patients. *Nature Communications*, **2021**, 12, 1516	17.4	5
225	Systemic PFOS and PFOA exposure and disturbed lipid homeostasis in humans: what do we know and what not?. *Critical Reviews in Toxicology*, **2021**, 51, 141-164	5.7	14
224	Hypoxia-inducible lipid droplet-associated induces DGAT1 and promotes lipid storage in hepatocytes. *Molecular Metabolism*, **2021**, 47, 101168	8.8	10
223	Inducible hepatic expression of CREBH mitigates diet-induced obesity, insulin resistance, and hepatic steatosis in mice. *Journal of Biological Chemistry*, **2021**, 297, 100815	5.4	1
222	Lipoprotein Lipase and Its Regulators: An Unfolding Story. *Trends in Endocrinology and Metabolism*, **2021**, 32, 48-61	8.8	21
221	Long-lost friend is back in the game. *Journal of Lipid Research*, **2021**, 62, 100072	6.3	1
220	RNA sequencing reveals niche gene expression effects of beta-hydroxybutyrate in primary myotubes. *Life Science Alliance*, **2021**, 4,	5.8	1
219	Triglyceride-rich lipoproteins and their remnants: metabolic insights, role in atherosclerotic cardiovascular disease, and emerging therapeutic strategies-a consensus statement from the European Atherosclerosis Society. *European Heart Journal*, **2021**,	9.5	35
218	ANGPTL3 as therapeutic target. *Current Opinion in Lipidology*, **2021**, 32, 335-341	4.4	5
217	Hepatic ADTRP overexpression does not influence lipid and glucose metabolism. *American Journal of Physiology - Cell Physiology*, **2021**, 321, C585-C595	5.4	1
216	Mild intermittent hypoxia exposure induces metabolic and molecular adaptations in men with obesity. *Molecular Metabolism*, **2021**, 53, 101287	8.8	1
215	MicroRNA-204-5p modulates mitochondrial biogenesis in C2C12 myotubes and associates with oxidative capacity in humans. *Journal of Cellular Physiology*, **2020**, 235, 9851-9863	7	10
214	Regulation of lipid droplet homeostasis by hypoxia inducible lipid droplet associated HILPDA. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2020**, 1865, 158738	5	12

213	Fasting induces ANGPTL4 and reduces LPL activity in human adipose tissue. *Molecular Metabolism*, **2020**, 40, 101033	8.8	15
212	A lipase fusion feasts on fat. *Journal of Biological Chemistry*, **2020**, 295, 2913-2914	5.4	2
211	Endoplasmic reticulum-associated degradation regulates mitochondrial dynamics in brown adipocytes. *Science*, **2020**, 368, 54-60	33.3	39
210	Perfluorooctanoic acid (PFOA), perfluorooctane sulfonic acid (PFOS), and perfluorononanoic acid (PFNA) increase triglyceride levels and decrease cholesterogenic gene expression in human HepaRG liver cells. *Archives of Toxicology*, **2020**, 94, 3137-3155	5.8	23
209	HILPDA Uncouples Lipid Droplet Accumulation in Adipose Tissue Macrophages from Inflammation and Metabolic Dysregulation. *Cell Reports*, **2020**, 30, 1811-1822.e6	10.6	21
208	Sel1L-Hrd1 ER-associated degradation maintains cell identity via TGF- signaling. *Journal of Clinical Investigation*, **2020**, 130, 3499-3510	15.9	14
207	Mechanisms of Action of trans Fatty Acids. *Advances in Nutrition*, **2020**, 11, 697-708	10	59
206	Probing metabolic memory in the hepatic response to fasting. *Physiological Genomics*, **2020**, 52, 602-617	3.6	3
205	Transcriptomic signature of fasting in human adipose tissue. *Physiological Genomics*, **2020**, 52, 451-467	3.6	4
204	Comparative transcriptome analysis of human skeletal muscle in response to cold acclimation and exercise training in human volunteers. *BMC Medical Genomics*, **2020**, 13, 124	3.7	3
203	No effect of 25-hydroxyvitamin D supplementation on the skeletal muscle transcriptome in vitamin D deficient frail older adults. *BMC Geriatrics*, **2019**, 19, 151	4.1	6
202	Toll-like receptors TLR2 and TLR4 block the replication of pancreatic cells in diet-induced obesity. *Nature Immunology*, **2019**, 20, 677-686	19.1	30
201	Transcriptional profiling of PPAR/- and CREB3L3-/- livers reveals disparate regulation of hepatoproliferative and metabolic functions of PPAR *BMC Genomics*, **2019**, 20, 199	4.5	7
200	Lipoprotein lipase in mouse kidney: effects of nutritional status and high-fat diet. *American Journal of Physiology - Renal Physiology*, **2019**, 316, F558-F571	4.3	2
199	A single day of high-fat diet feeding induces lipid accumulation and insulin resistance in brown adipose tissue in mice. *American Journal of Physiology - Endocrinology and Metabolism*, **2019**, 317, E820-E830	6	17
198	Characterization of ANGPTL4 function in macrophages and adipocytes using -knockout and -hypomorphic mice. *Journal of Lipid Research*, **2019**, 60, 1741-1754	6.3	22
197	Industrial Trans Fatty Acids Stimulate SREBP2-Mediated Cholesterogenesis and Promote Non-Alcoholic Fatty Liver Disease. *Molecular Nutrition and Food Research*, **2019**, 63, e1900385	5.9	17
196	New insights into angiopoietin-like proteins in lipid metabolism and cardiovascular disease risk. *Current Opinion in Lipidology*, **2019**, 30, 205-211	4.4	33

195	MicroRNA-382 silencing induces a mitonuclear protein imbalance and activates the mitochondrial unfolded protein response in muscle cells. *Journal of Cellular Physiology*, **2019**, 234, 6601-6610	7	12
194	The Peroxisome Proliferator-Activated Receptor is dispensable for cold-induced adipose tissue browning in mice. *Molecular Metabolism*, **2018**, 10, 39-54	8.8	25
193	Loss of angiopoietin-like 4 (ANGPTL4) in mice with diet-induced obesity uncouples visceral obesity from glucose intolerance partly via the gut microbiota. *Diabetologia*, **2018**, 61, 1447-1458	10.3	45
192	Regulation of angiopoietin-like 4 and lipoprotein lipase in human adipose tissue. *Journal of Clinical Lipidology*, **2018**, 12, 773-783	4.9	20
191	Hypoxia-inducible lipid droplet-associated protein inhibits adipose triglyceride lipase. *Journal of Lipid Research*, **2018**, 59, 531-541	6.3	39
190	Plasma angiopoietin-like 4 is related to phospholipid transfer protein activity in diabetic and non-diabetic subjects: role of enhanced low grade inflammation. *Lipids in Health and Disease*, **2018**, 17, 60	4.4	5
189	Weight loss moderately affects the mixed meal challenge response of the plasma metabolome and transcriptome of peripheral blood mononuclear cells in abdominally obese subjects. *Metabolomics*, **2018**, 14, 46	4.7	14
188	A Diurnal Rhythm in Brown Adipose Tissue Causes Rapid Clearance and Combustion of Plasma Lipids at Wakening. *Cell Reports*, **2018**, 22, 3521-3533	10.6	43
187	Circadian misalignment induces fatty acid metabolism gene profiles and compromises insulin sensitivity in human skeletal muscle. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 7789-7794	11.5	100
186	Angiopoietin-like 4 promotes the intracellular cleavage of lipoprotein lipase by PCSK3/furin in adipocytes. *Journal of Biological Chemistry*, **2018**, 293, 14134-14145	5.4	38
185	Multiple effects of cold exposure on livers of male mice. *Journal of Endocrinology*, **2018**, 238, 91-106	4.7	8
184	The whole transcriptome effects of the PPAR agonist fenofibrate on livers of hepatocyte humanized mice. *BMC Genomics*, **2018**, 19, 443	4.5	20
183	Short-term cooling increases serum angiopoietin-like 4 levels in healthy lean men. *Journal of Clinical Lipidology*, **2018**, 12, 56-61	4.9	5
182	Hepatic Sel1L-Hrd1 ER-associated degradation (ERAD) manages FGF21 levels and systemic metabolism via CREBH. *EMBO Journal*, **2018**, 37,	13	27
181	Global testing of shifts in metabolic phenotype. *Metabolomics*, **2018**, 14, 139	4.7	0
180	Integrative analysis of gut microbiota composition, host colonic gene expression and intraluminal metabolites in aging C57BL/6J mice. *Aging*, **2018**, 10, 930-950	5.6	29
179	The role and regulation of the peroxisome proliferator activated receptor alpha in human liver. *Biochimie*, **2017**, 136, 75-84	4.6	152
178	Hypoxia-Inducible Lipid Droplet-Associated Is Not a Direct Physiological Regulator of Lipolysis in Adipose Tissue. *Endocrinology*, **2017**, 158, 1231-1251	4.8	17

177	Feeding mice fat promotes foam cell formation in mesenteric lymph nodes without leading to ascites. *Journal of Lipid Research*, **2017**, 58, 1100-1113	6.3	13
176	Triglyceride Metabolism under Attack. *Cell Metabolism*, **2017**, 25, 1209-1210	24.6	5
175	Modulation of the gut microbiota impacts nonalcoholic fatty liver disease: a potential role for bile acids. *Journal of Lipid Research*, **2017**, 58, 1399-1416	6.3	66
174	System-wide Benefits of Intermeal Fasting by Autophagy. *Cell Metabolism*, **2017**, 26, 856-871.e5	24.6	66
173	Angiopoietin-like 3 in lipoprotein metabolism. *Nature Reviews Endocrinology*, **2017**, 13, 731-739	15.2	92
172	ANGPTL4 promotes bile acid absorption during taurocholic acid supplementation via a mechanism dependent on the gut microbiota. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids* , **2017**, 1862, 1056-1067	5	16
171	Regulation of lipid droplet-associated proteins by peroxisome proliferator-activated receptors. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2017**, 1862, 1212-1220	5	47
170	Potential mediators linking gut bacteria to metabolic health: a critical view. *Journal of Physiology*, **2017**, 595, 477-487	3.9	36
169	CREBH-FGF21 axis improves hepatic steatosis by suppressing adipose tissue lipolysis. *Scientific Reports*, **2016**, 6, 27938	4.9	34
168	Regulation of lipid metabolism by angiopoietin-like proteins. *Current Opinion in Lipidology*, **2016**, 27, 249-56	4.4	113
167	Angiopoietin-Like Protein 4 and Postprandial Skeletal Muscle Lipid Metabolism in Overweight and Obese Prediabetics. *Journal of Clinical Endocrinology and Metabolism*, **2016**, 101, 2332-9	5.6	12
166	Gene expression profiling in human precision cut liver slices in response to the FXR agonist obeticholic acid. *Journal of Hepatology*, **2016**, 64, 1158-1166	13.4	62
165	Muscle-specific inflammation induced by MCP-1 overexpression does not affect whole-body insulin sensitivity in mice. *Diabetologia*, **2016**, 59, 624-33	10.3	19
164	Angiopoietin-like 4 promotes intracellular degradation of lipoprotein lipase in adipocytes. *Journal of Lipid Research*, **2016**, 57, 1670-83	6.3	70
163	The search for exercise factors in humans. *FASEB Journal*, **2015**, 29, 1615-28	0.9	88
162	Hepatic genome-wide expression of lipid metabolism in diet-induced obesity rats treated with cocoa polyphenols. *Journal of Functional Foods*, **2015**, 17, 969-978	5.1	12
161	Short-term cold acclimation improves insulin sensitivity in patients with type 2 diabetes mellitus. *Nature Medicine*, **2015**, 21, 863-5	50.5	335
160	The role of the gut microbiota in metabolic health. *FASEB Journal*, **2015**, 29, 3111-23	0.9	120

159	Deletion of the gene encoding G0/G 1 switch protein 2 (G0s2) alleviates high-fat-diet-induced weight gain and insulin resistance, and promotes browning of white adipose tissue in mice. *Diabetologia*, **2015**, 58, 149-57	10.3	30
158	IRE1 is an endogenous substrate of endoplasmic-reticulum-associated degradation. *Nature Cell Biology*, **2015**, 17, 1546-55	23.4	115
157	Electric Pulse Stimulation of Myotubes as an In Vitro Exercise Model: Cell-Mediated and Non-Cell-Mediated Effects. *Scientific Reports*, **2015**, 5, 10944	4.9	34
156	The impact of PPAR activation on whole genome gene expression in human precision cut liver slices. *BMC Genomics*, **2015**, 16, 760	4.5	46
155	Exercise training improves liver steatosis in mice. *Nutrition and Metabolism*, **2015**, 12, 29	4.6	19
154	Effects of high-fat feeding on ectopic fat storage and postprandial lipid metabolism in mouse offspring. *Obesity*, **2015**, 23, 2242-50	8	1
153	Perilipin 5 mediated lipid droplet remodelling revealed by coherent Raman imaging. *Integrative Biology (United Kingdom)*, **2015**, 7, 467-76	3.7	19
152	Brown adipose tissue takes up plasma triglycerides mostly after lipolysis. *Journal of Lipid Research*, **2015**, 56, 51-9	6.3	106
151	Global profiling of the muscle metabolome: method optimization, validation and application to determine exercise-induced metabolic effects. *Metabolomics*, **2015**, 11, 271-285	4.7	13
150	ANGPTL4 mediates shuttling of lipid fuel to brown adipose tissue during sustained cold exposure. *ELife*, **2015**, 4,	8.9	77
149	Author response: ANGPTL4 mediates shuttling of lipid fuel to brown adipose tissue during sustained cold exposure **2015**,		3
148	Regulation of lipoprotein lipase by Angptl4. *Trends in Endocrinology and Metabolism*, **2014**, 25, 146-55	8.8	121
147	Physiological regulation of lipoprotein lipase. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2014**, 1841, 919-33	5	305
146	Circulating angiopoietin-like 4 links proteinuria with hypertriglyceridemia in nephrotic syndrome. *Nature Medicine*, **2014**, 20, 37-46	50.5	116
145	Sequestration of fatty acids in triglycerides prevents endoplasmic reticulum stress in an in vitro model of cardiomyocyte lipotoxicity. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2014**, 1841, 1648-55	5	51
144	Sel1L is indispensable for mammalian endoplasmic reticulum-associated degradation, endoplasmic reticulum homeostasis, and survival. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E582-91	11.5	101
143	IL-37 protects against obesity-induced inflammation and insulin resistance. *Nature Communications*, **2014**, 5, 4711	17.4	143
142	ANGPTL4 is produced by entero-endocrine cells in the human intestinal tract. *Histochemistry and Cell Biology*, **2014**, 141, 383-91	2.4	27

141	Molecular mechanisms underlying the potential antiobesity-related diseases effect of cocoa polyphenols. *Molecular Nutrition and Food Research*, **2014**, 58, 33-48	5.9	63
140	The ER-associated degradation adaptor protein Sel1L regulates LPL secretion and lipid metabolism. *Cell Metabolism*, **2014**, 20, 458-70	24.6	62
139	Angptl4 serves as an endogenous inhibitor of intestinal lipid digestion. *Molecular Metabolism*, **2014**, 3, 135-44	8.8	50
138	PPAR-alpha dependent regulation of vanin-1 mediates hepatic lipid metabolism. *Journal of Hepatology*, **2014**, 61, 366-72	13.4	48
137	Integrated physiology and systems biology of PPAR *Molecular Metabolism*, **2014**, 3, 354-71	8.8	339
136	Identification of human exercise-induced myokines using secretome analysis. *Physiological Genomics*, **2014**, 46, 256-67	3.6	111
135	Fatty acid-inducible ANGPTL4 governs lipid metabolic response to exercise. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E1043-52	11.5	90
134	Correction for Sun et al., Sel1L is indispensable for mammalian endoplasmic reticulum-associated degradation, endoplasmic reticulum homeostasis, and survival. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 6115-6115	11.5	78
133	Angiopoietin-like 4 stimulates STAT3-mediated iNOS expression and enhances angiogenesis to accelerate wound healing in diabetic mice. *Molecular Therapy*, **2014**, 22, 1593-604	11.7	62
132	PPAR activation in human myotubes increases mitochondrial fatty acid oxidative capacity and reduces glucose utilization by a switch in substrate preference. *Archives of Physiology and Biochemistry*, **2014**, 120, 12-21	2.2	17
131	Inflammation increases plasma angiopoietin-like protein 4 in patients with the metabolic syndrome and type 2 diabetes. *BMJ Open Diabetes Research and Care*, **2014**, 2, e000034	4.5	42
130	Mannose-binding lectin is required for the effective clearance of apoptotic cells by adipose tissue macrophages during obesity. *Diabetes*, **2014**, 63, 4143-53	0.9	18
129	Hypoxia-inducible lipid droplet-associated (HILPDA) is a novel peroxisome proliferator-activated receptor (PPAR) target involved in hepatic triglyceride secretion. *Journal of Biological Chemistry*, **2014**, 289, 19279-93	5.4	42
128	Transcriptomic signatures of peroxisome proliferator-activated receptor (PPAR) in different mouse liver models identify novel aspects of its biology. *BMC Genomics*, **2014**, 15, 1106	4.5	13
127	Adipocyte spliced form of X-box-binding protein 1 promotes adiponectin multimerization and systemic glucose homeostasis. *Diabetes*, **2014**, 63, 867-79	0.9	24
126	Bioactivity screening and mass spectrometric confirmation for the detection of PPAR agonists that increase type 1 muscle fibres. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 705-13	4.4	4
125	Overexpression of PLIN5 in skeletal muscle promotes oxidative gene expression and intramyocellular lipid content without compromising insulin sensitivity. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2013**, 1831, 844-52	5	88
124	Short-chain fatty acids stimulate angiopoietin-like 4 synthesis in human colon adenocarcinoma cells by activating peroxisome proliferator-activated receptor *Molecular and Cellular Biology*, **2013**, 33, 1303-16	4.8	156

123	Omega-3 long-chain fatty acids strongly induce angiopoietin-like 4 in humans. *Journal of Lipid Research*, **2013**, 54, 615-621	6.3	19
122	Overexpression of angiopoietin-like protein 4 protects against atherosclerosis development. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2013**, 33, 1529-37	9.4	63
121	PS1 - 7. Long-term cold exposure down-regulates Angptl4 expression in brown adipocytes. *Nederlands Tijdschrift Voor Diabetologie*, **2013**, 11, 146-147	0	
120	PS10 - 1. Fatty acid inducible myokine ANGPTL4 governs the lipid metabolic response to acute exercise. *Nederlands Tijdschrift Voor Diabetologie*, **2013**, 11, 159-160	0	
119	PS10 - 4. Exercise training lowered hepatic fat in a steatotic mice model. *Nederlands Tijdschrift Voor Diabetologie*, **2013**, 11, 161-162	0	
118	PS4 - 6. Hepatic vanin-1 is highly induced by PPAR-alpha and a key mediator of hepatic lipid metabolism in the fasted state. *Nederlands Tijdschrift Voor Diabetologie*, **2013**, 11, 197-198	0	
117	Caspase-1 deficiency in mice reduces intestinal triglyceride absorption and hepatic triglyceride secretion. *Journal of Lipid Research*, **2013**, 54, 448-56	6.3	25
116	Dietary modulation of plasma angiopoietin-like protein 4 concentrations in healthy volunteers and in patients with type 2 diabetes. *American Journal of Clinical Nutrition*, **2013**, 97, 255-60	7	40
115	The lipid droplet coat protein perilipin 5 also localizes to muscle mitochondria. *Histochemistry and Cell Biology*, **2012**, 137, 205-16	2.4	124
114	Mechanisms of gene regulation by fatty acids. *Advances in Nutrition*, **2012**, 3, 127-34	10	202
113	Energy-sensing factors coactivator peroxisome proliferator-activated receptor □coactivator 1-□ (PGC-1)□and AMP-activated protein kinase control expression of inflammatory mediators in liver: induction of interleukin 1 receptor antagonist. *Journal of Biological Chemistry*, **2012**, 287, 1847-60	5.4	40
112	Re-evaluating lipotoxic triggers in skeletal muscle: relating intramyocellular lipid metabolism to insulin sensitivity. *Progress in Lipid Research*, **2012**, 51, 36-49	14.3	96
111	Regulation of triglyceride metabolism by Angiopoietin-like proteins. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2012**, 1821, 782-9	5	127
110	Palmitic acid follows a different metabolic pathway than oleic acid in human skeletal muscle cells; lower lipolysis rate despite an increased level of adipose triglyceride lipase. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2012**, 1821, 1323-33	5	25
109	Perilipin 2 improves insulin sensitivity in skeletal muscle despite elevated intramuscular lipid levels. *Diabetes*, **2012**, 61, 2679-90	0.9	104
108	Linking nutritional regulation of Angptl4, Gpihbp1, and Lmf1 to lipoprotein lipase activity in rodent adipose tissue. *BMC Physiology*, **2012**, 12, 13	0	60
107	Mechanisms of inflammatory responses in obese adipose tissue. *Annual Review of Nutrition*, **2012**, 32, 261-86	9.9	207
106	Reduced kidney lipoprotein lipase and renal tubule triglyceride accumulation in cisplatin-mediated acute kidney injury. *American Journal of Physiology - Renal Physiology*, **2012**, 303, F437-48	4.3	20

105	Plasma mannose-binding lectin is stimulated by PPARin humans. *American Journal of Physiology - Endocrinology and Metabolism*, **2012**, 302, E595-602	6	17
104	Angiopoietin-like 4: a decade of research. *Bioscience Reports*, **2012**, 32, 211-9	4.1	171
103	Angiopoietin-like protein 4 is differentially regulated by glucocorticoids and insulin in vitro and in vivo in healthy humans. *Experimental and Clinical Endocrinology and Diabetes*, **2012**, 120, 598-603	2.3	33
102	The ATP-P2X7 signaling axis is dispensable for obesity-associated inflammasome activation in adipose tissue. *Diabetes*, **2012**, 61, 1471-8	0.9	58
101	PS3 - 14. The effect of the exercise-induced muscle secretome on liver gene expression. *Nederlands Tijdschrift Voor Diabetologie*, **2012**, 10, 108-109	0	
100	PS15 - 74. CD1d-restricted NKT cell function prevents insulin resistance in lean mice, and is regulated by adipocytes. *Nederlands Tijdschrift Voor Diabetologie*, **2012**, 10, 151-151	0	
99	The inflammatory response in acyl-CoA oxidase 1 deficiency (pseudoneonatal adrenoleukodystrophy). *Endocrinology*, **2012**, 153, 2568-75	4.8	26
98	Detailed transcriptomics analysis of the effect of dietary fatty acids on gene expression in the heart. *Physiological Genomics*, **2012**, 44, 352-61	3.6	27
97	Activation of natural killer T cells promotes M2 Macrophage polarization in adipose tissue and improves systemic glucose tolerance via interleukin-4 (IL-4)/STAT6 protein signaling axis in obesity. *Journal of Biological Chemistry*, **2012**, 287, 13561-71	5.4	155
96	G0/G1 switch gene-2 regulates human adipocyte lipolysis by affecting activity and localization of adipose triglyceride lipase. *Journal of Lipid Research*, **2012**, 53, 2307-17	6.3	76
95	Natural killer T cells in adipose tissue prevent insulin resistance. *Journal of Clinical Investigation*, **2012**, 122, 3343-54	15.9	155
94	Pronounced effects of acute endurance exercise on gene expression in resting and exercising human skeletal muscle. *PLoS ONE*, **2012**, 7, e51066	3.7	83
93	Saturated fatty acids and snoRNAs: partners in crime. *Cell Metabolism*, **2011**, 14, 1-2	24.6	3
92	A role for the peroxisomal 3-ketoacyl-CoA thiolase B enzyme in the control of PPARmediated upregulation of SREBP-2 target genes in the liver. *Biochimie*, **2011**, 93, 876-91	4.6	20
91	Calorie restriction-like effects of 30 days of resveratrol supplementation on energy metabolism and metabolic profile in obese humans. *Cell Metabolism*, **2011**, 14, 612-22	24.6	924
90	ANGPTL4 modulates vascular junction integrity by integrin signaling and disruption of intercellular VE-cadherin and claudin-5 clusters. *Blood*, **2011**, 118, 3990-4002	2.2	157
89	Podocyte-secreted angiopoietin-like-4 mediates proteinuria in glucocorticoid-sensitive nephrotic syndrome. *Nature Medicine*, **2011**, 17, 117-22	50.5	228
88	The effects of long- or medium-chain fat diets on glucose tolerance and myocellular content of lipid intermediates in rats. *Obesity*, **2011**, 19, 792-9	8	17

87	Angiopoietin-like 4 protein elevates the prosurvival intracellular O2(-):H2O2 ratio and confers anoikis resistance to tumors. *Cancer Cell*, **2011**, 19, 401-15	24.3	193
86	PS7 - 38. Effects of acute endurance exercise on gene expression in skeletal muscle. *Nederlands Tijdschrift Voor Diabetologie*, **2011**, 9, 117-117	0	
85	PS14 - 72. The lipid droplet coat protein perilipin 5 also localizes to muscle mitochondria. *Nederlands Tijdschrift Voor Diabetologie*, **2011**, 9, 139-139	0	
84	Fight fat with DGAT. *Journal of Lipid Research*, **2011**, 52, 591-2	6.3	3
83	Comparative transcriptomic and metabolomic analysis of fenofibrate and fish oil treatments in mice. *Physiological Genomics*, **2011**, 43, 1307-18	3.6	37
82	Nutrigenomics of Fatty Acid Sensing **2011**, 173-184		1
81	Adipose tissue dysfunction signals progression of hepatic steatosis towards nonalcoholic steatohepatitis in C57BL/6 mice. *Diabetes*, **2010**, 59, 3181-91	0.9	135
80	Metabolic switching of human myotubes is improved by n-3 fatty acids. *Journal of Lipid Research*, **2010**, 51, 2090-104	6.3	55
79	Peroxisome Proliferator-Activated Receptor □(PPAR□) but Not PPAR□ Serves as a Plasma Free Fatty Acid Sensor in Liver. *Molecular and Cellular Biology*, **2010**, 30, 4977-4977	4.8	78
78	Peroxisome proliferator-activated receptor alpha target genes. *PPAR Research*, **2010**, 2010,	4.3	472
77	Induction of cardiac Angptl4 by dietary fatty acids is mediated by peroxisome proliferator-activated receptor beta/delta and protects against fatty acid-induced oxidative stress. *Circulation Research*, **2010**, 106, 1712-21	15.7	101
76	Profiling of promoter occupancy by PPARalpha in human hepatoma cells via ChIP-chip analysis. *Nucleic Acids Research*, **2010**, 38, 2839-50	20.1	90
75	Angiopoietin-like 4 interacts with matrix proteins to modulate wound healing. *Journal of Biological Chemistry*, **2010**, 285, 32999-33009	5.4	94
74	LXR{beta} is the dominant LXR subtype in skeletal muscle regulating lipogenesis and cholesterol efflux. *American Journal of Physiology - Endocrinology and Metabolism*, **2010**, 298, E602-13	6	24
73	PPARs: Important Regulators in Metabolism and Inflammation **2010**, 259-285		1
72	Modulation of plasma TG lipolysis by Angiopoietin-like proteins and GPIHBP1. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2010**, 1801, 415-20	5	61
71	Angptl4 protects against severe proinflammatory effects of saturated fat by inhibiting fatty acid uptake into mesenteric lymph node macrophages. *Cell Metabolism*, **2010**, 12, 580-92	24.6	178
70	The inflammasome-mediated caspase-1 activation controls adipocyte differentiation and insulin sensitivity. *Cell Metabolism*, **2010**, 12, 593-605	24.6	472

69	Angiopoietin-like 4 interacts with integrins beta1 and beta5 to modulate keratinocyte migration. *American Journal of Pathology*, **2010**, 177, 2791-803	5.8	92
68	Transcriptional profiling reveals divergent roles of PPARalpha and PPARbeta/delta in regulation of gene expression in mouse liver. *Physiological Genomics*, **2010**, 41, 42-52	3.6	92
67	Analysis of the heat shock response in mouse liver reveals transcriptional dependence on the nuclear receptor peroxisome proliferator-activated receptor alpha (PPARalpha). *BMC Genomics*, **2010**, 11, 16	4.5	25
66	Kupffer cells promote hepatic steatosis via interleukin-1beta-dependent suppression of peroxisome proliferator-activated receptor alpha activity. *Hepatology*, **2010**, 51, 511-22	11.2	309
65	Reply:. *Hepatology*, **2010**, 51, 722-722	11.2	
64	Regulation of nutrient metabolism and inflammation. *Results and Problems in Cell Differentiation*, **2010**, 52, 13-25	1.4	13
63	Comparative analysis of gene regulation by the transcription factor PPARalpha between mouse and human. *PLoS ONE*, **2009**, 4, e6796	3.7	218
62	Peroxisome proliferator-activated receptor gamma regulates expression of the anti-lipolytic G-protein-coupled receptor 81 (GPR81/Gpr81). *Journal of Biological Chemistry*, **2009**, 284, 26385-93	5.4	59
61	Stabilizing lipoprotein lipase. *Journal of Lipid Research*, **2009**, 50, 2335-6	6.3	1
60	Peroxisome proliferator-activated receptor beta/delta (PPARbeta/delta) but not PPARalpha serves as a plasma free fatty acid sensor in liver. *Molecular and Cellular Biology*, **2009**, 29, 6257-67	4.8	107
59	Caloric restriction and exercise increase plasma ANGPTL4 levels in humans via elevated free fatty acids. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2009**, 29, 969-74	9.4	155
58	Dropping liver fat droplets. *Hepatology*, **2009**, 50, 645-7	11.2	1
57	Peroxisome proliferator-activated receptor alpha controls hepatic heme biosynthesis through ALAS1. *Journal of Molecular Biology*, **2009**, 388, 225-38	6.5	16
56	Angiopoietin-Like Proteins and Lipid Metabolism **2009**, 237-249		4
55	The glucocorticoid receptor controls hepatic dyslipidemia through Hes1. *Cell Metabolism*, **2008**, 8, 212-23	14.6	108
54	Peroxisome proliferator-activated receptor gamma activation promotes infiltration of alternatively activated macrophages into adipose tissue. *Journal of Biological Chemistry*, **2008**, 283, 22620-7	5.4	147
53	Peroxisome proliferator activated receptors and lipoprotein metabolism. *PPAR Research*, **2008**, 2008, 132960	4.3	85
52	The PPARgamma ligand rosiglitazone influences triacylglycerol metabolism in non-obese males, without increasing the transcriptional activity of PPARgamma in the subcutaneous adipose tissue. *British Journal of Nutrition*, **2008**, 99, 487-93	3.6	3

51	Effect of synthetic dietary triglycerides: a novel research paradigm for nutrigenomics. *PLoS ONE*, **2008**, 3, e1681	3.7	81
50	Moderate alcohol consumption increases insulin sensitivity and ADIPOQ expression in postmenopausal women: a randomised, crossover trial. *Diabetologia*, **2008**, 51, 1375-81	10.3	110
49	The roles of PPARα and PPARβ/δ in liver: Dietary versus endogenous fat sensor. *Chemistry and Physics of Lipids*, **2008**, 154, S17	3.7	4
48	Sulfonylureas and glinides exhibit peroxisome proliferator-activated receptor gamma activity: a combined virtual screening and biological assay approach. *Molecular Pharmacology*, **2007**, 71, 398-406	4.3	42
47	Peroxisome proliferator-activated receptor expression is reduced in skeletal muscle in COPD. *European Respiratory Journal*, **2007**, 30, 245-52	13.6	124
46	Glycogen synthase 2 is a novel target gene of peroxisome proliferator-activated receptors. *Cellular and Molecular Life Sciences*, **2007**, 64, 1145-57	10.3	56
45	PPARs, Obesity, and Inflammation. *PPAR Research*, **2007**, 2007, 95974	4.3	170
44	Genome-wide analysis of PPARalpha activation in murine small intestine. *Physiological Genomics*, **2007**, 30, 192-204	3.6	105
43	Peroxisome proliferator-activated receptor alpha protects against obesity-induced hepatic inflammation. *Endocrinology*, **2007**, 148, 2753-63	4.8	145
42	Angptl4 upregulates cholesterol synthesis in liver via inhibition of LPL- and HL-dependent hepatic cholesterol uptake. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 2420-7	9.4	133
41	Comprehensive analysis of PPARalpha-dependent regulation of hepatic lipid metabolism by expression profiling. *PPAR Research*, **2007**, 2007, 26839	4.3	159
40	Design guidelines for the development of digital nutrigenomics learning material for heterogeneous target groups. *American Journal of Physiology - Advances in Physiology Education*, **2007**, 31, 67-75	1.9	8
39	PPARS and Obesity. *PPAR Research*, **2007**, 2007, 78475	4.3	5
38	PPARalpha and dyslipidemia. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2007**, 1771, 961-71	5	144
37	Exploration of PPAR functions by microarray technology--a paradigm for nutrigenomics. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2007**, 1771, 1046-64	5	38
36	The Interleukin-1 receptor antagonist is a direct target gene of PPARalpha in liver. *Journal of Hepatology*, **2007**, 46, 869-77	13.4	52
35	PPARalpha-dependent induction of the energy homeostasis-regulating nuclear receptor NR1i3 (CAR) in rat hepatocytes: potential role in starvation adaptation. *FEBS Letters*, **2007**, 581, 5617-26	3.8	35
34	Fasting-induced adipose factor/ angiopoietin-like protein 4: a potential target for dyslipidemia?. *Future Lipidology*, **2006**, 1, 227-236		22

33	Peroxisome proliferator-activated receptor-alpha-null mice have increased white adipose tissue glucose utilization, GLUT4, and fat mass: Role in liver and brain. *Endocrinology*, **2006**, 147, 4067-78	4.8	68
32	PPARgamma activity in subcutaneous abdominal fat tissue and fat mass gain during short-term overfeeding. *International Journal of Obesity*, **2006**, 30, 302-7	5.5	17
31	Peroxisome proliferator-activated receptor alpha mediates the effects of high-fat diet on hepatic gene expression. *Endocrinology*, **2006**, 147, 1508-16	4.8	239
30	The fasting-induced adipose factor/angiopoietin-like protein 4 is physically associated with lipoproteins and governs plasma lipid levels and adiposity. *Journal of Biological Chemistry*, **2006**, 281, 934-44	5.4	301
29	Regulation of Lipogenic Genes in Obesity **2006**, 208-219		3
28	Angiopoietin-like-4 is a potential angiogenic mediator in arthritis. *Clinical Immunology*, **2005**, 115, 93-101	9	65
27	The G0/G1 switch gene 2 is a novel PPAR target gene. *Biochemical Journal*, **2005**, 392, 313-24	3.8	176
26	Regulation of lipid metabolism via angiopoietin-like proteins. *Biochemical Society Transactions*, **2005**, 33, 1059-62	5.1	99
25	Promoter rearrangements cause species-specific hepatic regulation of the glyoxylate reductase/hydroxypyruvate reductase gene by the peroxisome proliferator-activated receptor alpha. *Journal of Biological Chemistry*, **2005**, 280, 24143-52	5.4	18
24	The direct peroxisome proliferator-activated receptor target fasting-induced adipose factor (FIAF/PGAR/ANGPTL4) is present in blood plasma as a truncated protein that is increased by fenofibrate treatment. *Journal of Biological Chemistry*, **2004**, 279, 34411-20	5.4	207
23	In vivo activation of PPAR target genes by RXR homodimers. *EMBO Journal*, **2004**, 23, 2083-91	13	159
22	Peroxisome proliferator-activated receptor alpha target genes. *Cellular and Molecular Life Sciences*, **2004**, 61, 393-416	10.3	779
21	PPAR□overns glycerol metabolism. *Journal of Clinical Investigation*, **2004**, 114, 94-103	15.9	184
20	PPARalpha governs glycerol metabolism. *Journal of Clinical Investigation*, **2004**, 114, 94-103	15.9	93
19	Understanding the Coordinated Effects of PPARs on Lipid Metabolism Using Microarrays **2004**, 249-263		
18	Peroxisome proliferator activated receptor ligands for the treatment of insulin resistance. *Current Opinion in Investigational Drugs*, **2004**, 5, 1045-50		19
17	Nutrigenomics: goals and strategies. *Nature Reviews Genetics*, **2003**, 4, 315-22	30.1	452
16	Peroxisome proliferator activated receptors and obesity. *European Journal of Pharmacology*, **2002**, 440, 223-34	5.3	112

15	Effects of fatty acids on gene expression: role of peroxisome proliferator-activated receptor alpha, liver X receptor alpha and sterol regulatory element-binding protein-1c. *Proceedings of the Nutrition Society*, **2002**, 61, 371-4	2.9	35
14	Peroxisome Proliferator Activated Receptor Alpha Coordinates Intermediary Metabolism During Fasting. *Medical Science Symposia Series*, **2002**, 1-4		
13	The peroxisome proliferator-activated receptor alpha regulates amino acid metabolism. *FASEB Journal*, **2001**, 15, 1971-8	0.9	177
12	Mechanisms of nutritional and hormonal regulation of lipogenesis. *EMBO Reports*, **2001**, 2, 282-6	6.5	422
11	Roles of PPARs in health and disease. *Nature*, **2000**, 405, 421-4	50.4	1589
10	Characterization of the fasting-induced adipose factor FIAF, a novel peroxisome proliferator-activated receptor target gene. *Journal of Biological Chemistry*, **2000**, 275, 28488-93	5.4	404
9	Peroxisome proliferator activated receptor agonists. *Exs*, **2000**, 89, 141-51		57
8	Peroxisome proliferator-activated receptor alpha mediates the adaptive response to fasting. *Journal of Clinical Investigation*, **1999**, 103, 1489-98	15.9	1256
7	Auto-silencing by the retinoid X receptor. *Journal of Molecular Biology*, **1998**, 284, 21-32	6.5	34
6	The DNA binding pattern of the retinoid X receptor is regulated by ligand-dependent modulation of its oligomeric state. *Journal of Biological Chemistry*, **1997**, 272, 12771-7	5.4	25
5	The tetramerization region of the retinoid X receptor is important for transcriptional activation by the receptor. *Journal of Biological Chemistry*, **1997**, 272, 29759-68	5.4	32
4	Individual subunits of heterodimers comprised of retinoic acid and retinoid X receptors interact with their ligands independently. *Biochemistry*, **1996**, 35, 3816-24	3.2	49
3	On the role of ligand in retinoid signaling: positive cooperativity in the interactions of 9-cis retinoic acid with tetramers of the retinoid X receptor. *Biochemistry*, **1995**, 34, 14263-9	3.2	33
2	Role of ligand in retinoid signaling. 9-cis-retinoic acid modulates the oligomeric state of the retinoid X receptor. *Biochemistry*, **1995**, 34, 13717-21	3.2	46
1	Retinoid X receptor alpha forms tetramers in solution. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 8645-9	11.5	87