Nico Mitro

List of Publications by Year
in descending order

130 papers	6,113 citations	66315 42 h-index	85498 71 g-index
135 all docs	135 docs citations	135 times ranked	9572 citing authors

#	Article	IF	Citations
1	The nuclear receptor LXR is a glucose sensor. Nature, 2007, 445, 219-223.	13.7	475
2	Fatty acid metabolism complements glycolysis in the selective regulatory T cell expansion during tumor growth. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6546-E6555.	3.3	234
3	T0901317 is a potent PXR ligand: Implications for the biology ascribed to LXR. FEBS Letters, 2007, 581, 1721-1726.	1.3	206
4	Inhibition of Class I Histone Deacetylases Unveils a Mitochondrial Signature and Enhances Oxidative Metabolism in Skeletal Muscle and Adipose Tissue. Diabetes, 2013, 62, 732-742.	0.3	196
5	Coordinated Control of Cholesterol Catabolism to Bile Acids and of Gluconeogenesis via a Novel Mechanism of Transcription Regulation Linked to the Fasted-to-fed Cycle. Journal of Biological Chemistry, 2003, 278, 39124-39132.	1.6	187
6	The Small Molecule Harmine Is an Antidiabetic Cell-Type-Specific Regulator of PPARÎ³ Expression. Cell Metabolism, 2007, 5, 357-370.	7.2	180
7	The Negative Effects of Bile Acids and Tumor Necrosis Factor-Î± on the Transcription of Cholesterol 7Î±-Hydroxylase Gene (CYP7A1) Converge to Hepatic Nuclear Factor-4. Journal of Biological Chemistry, 2001, 276, 30708-30716.	1.6	166
8	PPAR Agonists and Metabolic Syndrome: An Established Role?. International Journal of Molecular Sciences, 2018, 19, 1197.	1.8	165
9	Study of 1,4-Dihydropyridine Structural Scaffold: Discovery of Novel Sirtuin Activators and Inhibitors. Journal of Medicinal Chemistry, 2009, 52, 5496-5504.	2.9	147
10	Extracellular matrix mechanical cues regulate lipid metabolism through Lipin-1 and SREBP. Nature Cell Biology, 2019, 21, 338-347.	4.6	135
11	Obesity-Induced Metabolic Stress Leads to Biased Effector Memory CD4 + T Cell Differentiation via PI3K p110Î´-Akt-Mediated Signals. Cell Metabolism, 2017, 25, 593-609.	7.2	124
12	Levels and actions of progesterone and its metabolites in the nervous system during physiological and pathological conditions. Progress in Neurobiology, 2014, 113, 56-69.	2.8	113
13	Short-Term Fasting Reveals Amino Acid Metabolism as a Major Sex-Discriminating Factor in the Liver. Cell Metabolism, 2018, 28, 256-267.e5.	7.2	109
14	Minor Components of Olive Oil Modulate Proatherogenic Adhesion Molecules Involved in Endothelial Activation. Journal of Agricultural and Food Chemistry, 2006, 54, 3259-3264.	2.4	107
15	ELOVL5 Mutations Cause Spinocerebellar Ataxia 38. American Journal of Human Genetics, 2014, 95, 209-217.	2.6	107
16	Insights into the Mechanism of Partial Agonism. Journal of Biological Chemistry, 2007, 282, 17314-17324.	1.6	105
17	Myeloid apolipoprotein E controls dendritic cell antigen presentation and T cell activation. Nature Communications, 2018, 9, 3083.	5.8	95
18	Ejection of damaged mitochondria and their removal by macrophages ensure efficient thermogenesis in brown adipose tissue. Cell Metabolism, 2022, 34, 533-548.e12.	7.2	91

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19	Gene Set Enrichment in eQTL Data Identifies Novel Annotations and Pathway Regulators. PLoS Genetics, 2008, 4, e1000070.	1.5	90
20	An Essential Role for Liver ERÎ± in Coupling Hepatic Metabolism to the Reproductive Cycle. Cell Reports, 2016, 15, 360-371.	2.9	90
21	Lipids in the nervous system: From biochemistry and molecular biology to patho-physiology. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 51-60.	1.2	85
22	Mitochondria, lysosomes, and dysfunction: their meaning in neurodegeneration. Journal of Neurochemistry, 2018, 147, 291-309.	2.1	84
23	Diabetes-induced myelin abnormalities are associated with an altered lipid pattern: protective effects of LXR activation. Journal of Lipid Research, 2012, 53, 300-310.	2.0	83
24	Activation of the Liver X Receptor Increases Neuroactive Steroid Levels and Protects from Diabetes-Induced Peripheral Neuropathy. Journal of Neuroscience, 2010, 30, 11896-11901.	1.7	75
25	HDAC3 is a molecular brake of the metabolic switch supporting white adipose tissue browning. Nature Communications, 2017, 8, 93.	5.8	68
26	microRNA 221 Targets ADAM10 mRNA and is Downregulated in Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2017, 61, 113-123.	1.2	64
27	Dissection of the Insulin-Sensitizing Effect of Liver X Receptor Ligands. Molecular Endocrinology, 2007, 21, 3002-3012.	3.7	63
28	Regulation of A2B adenosine receptor functioning by tumour necrosis factor a in human astroglial cells. Journal of Neurochemistry, 2004, 91, 1180-1190.	2.1	62
29	Ketogenic Diet: A New Light Shining on Old but Gold Biochemistry. Nutrients, 2019, 11, 2497.	1.7	62
30	The pharmacological exploitation of cholesterol 7Î±-hydroxylase, the key enzyme in bile acid synthesis: from binding resins to chromatin remodelling to reduce plasma cholesterol. , 2007, 116, 449-472.		57
31	The ATP-binding cassette transporter A1 regulates phosphoantigen release and VÎ³9VÎ´2 T cell activation by dendritic cells. Nature Communications, 2017, 8, 15663.	5.8	57
32	N-Acylthiadiazolines, a New Class of Liver X Receptor Agonists with Selectivity for LXRÎ²2. Journal of Medicinal Chemistry, 2007, 50, 4255-4259.	2.9	55
33	LXR (liver X receptor) and HNF-4 (hepatocyte nuclear factor-4): key regulators in reverse cholesterol transport. Biochemical Society Transactions, 2004, 32, 92-96.	1.6	54
34	Synthesis, Biological Evaluation, and Molecular Modeling Investigation of New Chiral Fibrates with PPARÎ± and PPARÎ³ Agonist Activity. Journal of Medicinal Chemistry, 2005, 48, 5509-5519.	2.9	52
35	Age-related changes in bile acid synthesis and hepatic nuclear receptor expression. European Journal of Clinical Investigation, 2007, 37, 501-508.	1.7	52
36	Extracellular vesicles released by fibroblasts undergoing H-Ras induced senescence show changes in lipid profile. PLoS ONE, 2017, 12, e0188840.	1.1	52

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37	Lack of Sterol Regulatory Element Binding Factor-1c Imposes Glial Fatty Acid Utilization Leading to Peripheral Neuropathy. Cell Metabolism, 2015, 21, 571-583.	7.2	51
38	Hepatic ERÎ± accounts for sex differences in the ability to cope with an excess of dietary lipids. Molecular Metabolism, 2020, 32, 97-108.	3.0	50
39	PCSK9 deficiency rewires heart metabolism and drives heart failure with preserved ejection fraction. European Heart Journal, 2021, 42, 3078-3090.	1.0	50
40	Insights in the regulation of cholesterol 7Î±-hydroxylase gene reveal a target for modulating bile acid synthesis. Hepatology, 2007, 46, 885-897.	3.6	47
41	Structural Insight into Peroxisome Proliferator-Activated Receptor Î³ Binding of Two Ureidofibrate-Like Enantiomers by Molecular Dynamics, Cofactor Interaction Analysis, and Site-Directed Mutagenesis. Journal of Medicinal Chemistry, 2010, 53, 4354-4366.	2.9	47
42	Synthesis, Characterization and Biological Evaluation of Ureidofibrate-Like Derivatives Endowed with Peroxisome Proliferator-Activated Receptor Activity. Journal of Medicinal Chemistry, 2012, 55, 37-54.	2.9	46
43	Neuroactive steroids and the peripheral nervous system: An update. Steroids, 2015, 103, 23-30.	0.8	46
44	Neuroactive steroid treatment modulates myelin lipid profile in diabetic peripheral neuropathy. Journal of Steroid Biochemistry and Molecular Biology, 2014, 143, 115-121.	1.2	44
45	LXR and TSPO as new therapeutic targets to increase the levels of neuroactive steroids in the central nervous system of diabetic animals. Neurochemistry International, 2012, 60, 616-621.	1.9	43
46	Linking epigenetics to lipid metabolism: Focus on histone deacetylases. Molecular Membrane Biology, 2012, 29, 257-266.	2.0	43
47	DNA damage and transcription stress cause ATP-mediated redesign of metabolism and potentiation of anti-oxidant buffering. Nature Communications, 2019, 10, 4887.	5.8	43
48	Role of Neuroactive Steroids in the Peripheral Nervous System. Frontiers in Endocrinology, 2011, 2, 104.	1.5	42
49	The mitochondrial protein Opa1 promotes adipocyte browning that is dependent on urea cycle metabolites. Nature Metabolism, 2021, 3, 1633-1647.	5.1	42
50	Attenuation of diet-induced obesity and induction of white fat browning with a chemical inhibitor of histone deacetylases. International Journal of Obesity, 2017, 41, 289-298.	1.6	41
51	Treatment with LXR agonists after focal cerebral ischemia prevents brain damage. FEBS Letters, 2008, 582, 3396-3400.	1.3	40
52	Ca2+ overload- and ROS-associated mitochondrial dysfunction contributes to Î´-tocotrienol-mediated paraptosis in melanoma cells. Apoptosis: an International Journal on Programmed Cell Death, 2021, 26, 277-292.	2.2	39
53	Ring finger protein 10 is a novel synaptonuclear messenger encoding activation of NMDA receptors in hippocampus. ELife, 2016, 5, e12430.	2.8	39
54	The sirtuin class of histone deacetylases: Regulation and roles in lipid metabolism. IUBMB Life, 2014, 66, 89-99.	1.5	37

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55	Dihydrotestosterone as a Protective Agent in Chronic Experimental Autoimmune Encephalomyelitis. Neuroendocrinology, 2015, 101, 296-308.	1.2	35
56	Caloric Restriction Promotes Immunometabolic Reprogramming Leading to Protection from Tuberculosis. Cell Metabolism, 2021, 33, 300-318.e12.	7.2	35
57	Metabolic control of DNA methylation in naive pluripotent cells. Nature Genetics, 2021, 53, 215-229.	9.4	35
58	Gender-related metabolomics and lipidomics: From experimental animal models to clinical evidence. Journal of Proteomics, 2018, 178, 82-91.	1.2	34
59	Decreased hepatic expression of PPAR-gamma coactivator-1 in cholesterol cholelithiasis. European Journal of Clinical Investigation, 2006, 36, 170-175.	1.7	33
60	LT175 Is a Novel PPARÎ±/Î³ Ligand with Potent Insulin-sensitizing Effects and Reduced Adipogenic Properties. Journal of Biological Chemistry, 2014, 289, 6908-6920.	1.6	33
61	Inhibition of metalloproteinase-9 activity and gene expression by polyphenolic compounds isolated from the bark of Tristaniopsis calobuxus (Myrtaceae). Cellular and Molecular Life Sciences, 2003, 60, 1440-1448.	2.4	31
62	Lipid sensing and lipid sensors. Cellular and Molecular Life Sciences, 2007, 64, 2477-2491.	2.4	30
63	Inter-Laboratory Robustness of Next-Generation Bile Acid Study in Mice and Humans: International Ring Trial Involving 12 Laboratories. journal of applied laboratory medicine, The, 2016, 1, 129-142.	0.6	30
64	Docosahexaenoic acid is a beneficial replacement treatment for spinocerebellar ataxia 38. Annals of Neurology, 2017, 82, 615-621.	2.8	30
65	Motor Deficits and Cerebellar Atrophy in Elovl5 Knock Out Mice. Frontiers in Cellular Neuroscience, 2017, 11, 343.	1.8	29
66	Neuroactive steroids and diabetic complications in the nervous system. Frontiers in Neuroendocrinology, 2018, 48, 58-69.	2.5	29
67	Regulatory mechanisms of the early phase of white adipocyte differentiation: an overview. Cellular and Molecular Life Sciences, 2022, 79, 139.	2.4	28
68	Digoxin and ouabain induce the efflux of cholesterol via liver X receptor signalling and the synthesis of ATP in cardiomyocytes. Biochemical Journal, 2012, 447, 301-311.	1.7	27
69	Clinical and neuroradiological features of spinocerebellar ataxia 38 (SCA38). Parkinsonism and Related Disorders, 2016, 28, 80-86.	1.1	27
70	Olive oil phenolic extract regulates interleukinâ€8 expression by transcriptional and posttranscriptional mechanisms in Caco2â€2 cells. Molecular Nutrition and Food Research, 2015, 59, 1217-1221.	1.5	24
71	Diabetes induces mitochondrial dysfunction and alters cholesterol homeostasis and neurosteroidogenesis in the rat cerebral cortex. Journal of Steroid Biochemistry and Molecular Biology, 2018, 178, 108-116.	1.2	24
72	Enhanced axonal neuregulin-1 type-III signaling ameliorates neurophysiology and hypomyelination in a Charcotâ€“Marieâ€“Tooth type 1B mouse model. Human Molecular Genetics, 2019, 28, 992-1006.	1.4	24

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73	Diabetes alters myelin lipid profile in rat cerebral cortex: Protective effects of dihydroprogesterone. Journal of Steroid Biochemistry and Molecular Biology, 2017, 168, 60-70.	1.2	23
74	Short-term effects of diabetes on neurosteroidogenesis in the rat hippocampus. Journal of Steroid Biochemistry and Molecular Biology, 2017, 167, 135-143.	1.2	23
75	Zc3h10 is a novel mitochondrial regulator. EMBO Reports, 2018, 19, .	2.0	23
76	Axonal transport in a peripheral diabetic neuropathy model: sex-dimorphic features. Biology of Sex Differences, 2018, 9, 6.	1.8	23
77	Intermittent Fasting Applied in Combination with Rotenone Treatment Exacerbates Dopamine Neurons Degeneration in Mice. Frontiers in Cellular Neuroscience, 2018, 12, 4.	1.8	21
78	Zc3h10 regulates adipogenesis by controlling translation and F-actin/mitochondria interaction. Journal of Cell Biology, 2021, 220, .	2.3	21
79	Effects of FoxO4 overexpression on cholesterol biosynthesis, triacylglycerol accumulation, and glucose uptake. Journal of Lipid Research, 2010, 51, 1312-1324.	2.0	19
80	Non-insulin anti-diabetic drugs: An update on pharmacological interactions. Pharmacological Research, 2017, 115, 14-24.	3.1	19
81	Long-term efficacy of docosahexaenoic acid (DHA) for Spinocerebellar Ataxia 38 (SCA38) treatment: An open label extension study. Parkinsonism and Related Disorders, 2019, 63, 191-194.	1.1	19
82	Oncogenic H-Ras Expression Induces Fatty Acid Profile Changes in Human Fibroblasts and Extracellular Vesicles. International Journal of Molecular Sciences, 2018, 19, 3515.	1.8	18
83	Low-protein/high-carbohydrate diet induces AMPK-dependent canonical and non-canonical thermogenesis in subcutaneous adipose tissue. Redox Biology, 2020, 36, 101633.	3.9	18
84	The oligosaccharide portion of ganglioside GM1 regulates mitochondrial function in neuroblastoma cells. Glycoconjugate Journal, 2020, 37, 293-306.	1.4	18
85	PGC1s and Beyond: Disentangling the Complex Regulation of Mitochondrial and Cellular Metabolism. International Journal of Molecular Sciences, 2021, 22, 6913.	1.8	18
86	Bile acid signaling to the nucleus: finding new connections in the transcriptional regulation of metabolic pathways. Biochimie, 2004, 86, 771-778.	1.3	17
87	Mitochondrial functional and structural impairment is involved in the antitumor activity of Î´-tocotrienol in prostate cancer cells. Free Radical Biology and Medicine, 2020, 160, 376-390.	1.3	17
88	Liver X receptors, nervous system, and lipid metabolism. Journal of Endocrinological Investigation, 2013, 36, 435-43.	1.8	17
89	Metabolomic signature and mitochondrial dynamics outline the difference between vulnerability and resilience to chronic stress. Translational Psychiatry, 2022, 12, 87.	2.4	17
90	Physical Exercise Affects Adipose Tissue Profile and Prevents Arterial Thrombosis in BDNF Val66Met Mice. Cells, 2019, 8, 875.	1.8	16

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91	Lipidomic analysis of cancer cells cultivated at acidic pH reveals phospholipid fatty acids remodelling associated with transcriptional reprogramming. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 963-973.	2.5	16
92	When Food Meets Man: the Contribution of Epigenetics to Health. Nutrients, 2010, 2, 551-571.	1.7	14
93	Liver ERÎ± regulates AgRP neuronal activity in the arcuate nucleus of female mice. Scientific Reports, 2017, 7, 1194.	1.6	14
94	Fenofibrate attenuates cardiac and renal alterations in young salt-loaded spontaneously hypertensive stroke-prone rats through mitochondrial protection. Journal of Hypertension, 2018, 36, 1129-1146.	0.3	14
95	Mitochondrial dysfunction increases fatty acid Î²â€oxidation and translates into impaired neuroblast maturation. FEBS Letters, 2019, 593, 3173-3189.	1.3	14
96	â€œThe Loss of Golden Touchâ€: Mitochondria-Organelle Interactions, Metabolism, and Cancer. Cells, 2020, 9, 2519.	1.8	14
97	Epigenome modifiers and metabolic rewiring: New frontiers in therapeutics. , 2019, 193, 178-193.		13
98	Transient rapamycin treatment during developmental stage extends lifespan in Mus musculus and Drosophila melanogaster. EMBO Reports, 2022, 23, .	2.0	13
99	The untargeted lipidomic profile of quarter milk from dairy cows with subclinical intramammary infection by non-aureus staphylococci. Journal of Dairy Science, 2021, 104, 10268-10281.	1.4	12
100	Monocarboxylate transporter 1 deficiency impacts CD8+ T lymphocytes proliferation and recruitment to adipose tissue during obesity. IScience, 2022, 25, 104435.	1.9	12
101	In vitroandin vivoevaluation of silk fibroin functionalized with GABA and allopregnanolone for Schwann cell and neuron survival. Regenerative Medicine, 2018, 13, 141-157.	0.8	11
102	Inhibition of class I HDACs imprints adipogenesis toward oxidative and brown-like phenotype. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2020, 1865, 158594.	1.2	11
103	Lipid-activated nuclear receptors: from gene transcription to the control of cellular metabolism. European Journal of Lipid Science and Technology, 2004, 106, 432-450.	1.0	10
104	Glial cell activation and altered metabolic profile in the spinal-trigeminal axis in a rat model of multiple sclerosis associated with the development of trigeminal sensitization. Brain, Behavior, and Immunity, 2020, 89, 268-280.	2.0	10
105	Energizing Genetics and Epi-genetics: Role in the Regulation of Mitochondrial Function. Current Genomics, 2015, 15, 436-456.	0.7	10
106	Oxidative pentose phosphate pathway controls vascular mural cell coverage by regulating extracellular matrix composition. Nature Metabolism, 2022, 4, 123-140.	5.1	10
107	High pressure liquid chromatography and electrospray ionization mass spectrometry are advantageously integrated into a two-levels approach to detection and identification of haemoglobin variants. International Journal of Laboratory Hematology, 2005, 27, 111-119.	0.2	9
108	Neuronal Ablation of CoA Synthase Causes Motor Deficits, Iron Dyshomeostasis, and Mitochondrial Dysfunctions in a CoPAN Mouse Model. International Journal of Molecular Sciences, 2020, 21, 9707.	1.8	9

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109	Elovl5 is required for proper action potential conduction along peripheral myelinated fibers. Glia, 2021, 69, 2419-2428.	2.5	8
110	<scp>FABP</scp>1 in wonderland. Journal of Neurochemistry, 2016, 138, 371-373.	2.1	7
111	Sterol regulatory element binding proteinâ€1C knockout mice show altered neuroactive steroid levels in sciatic nerve. Journal of Neurochemistry, 2017, 142, 420-428.	2.1	7
112	Loss of voltage-gated hydrogen channel 1 expression reveals heterogeneous metabolic adaptation to intracellular acidification by T cells. JCI Insight, 2022, 7, .	2.3	7
113	Sustained activation of detoxification pathways promotes liver carcinogenesis in response to chronic bile acid-mediated damage. PLoS Genetics, 2018, 14, e1007380.	1.5	6
114	Investigating metabolism by mass spectrometry: From steady state to dynamic view. Journal of Mass Spectrometry, 2021, 56, e4658.	0.7	6
115	Histone Deacetylase 3 Regulates Adipocyte Phenotype at Early Stages of Differentiation. International Journal of Molecular Sciences, 2021, 22, 9300.	1.8	6
116	Sterolâ€"Protein Interactions in Cholesterol and Bile Acid Synthesis. Sub-Cellular Biochemistry, 2010, 51, 109-135.	1.0	5
117	Fluorescence Resonance Energy Transfer Techniques to Study Ligand-Mediated Interactions of PPARs with Coregulators. Methods in Molecular Biology, 2013, 952, 219-227.	0.4	4
118	Site-Directed Mutagenesis to Study the Role of Specific Amino Acids in the Ligand Binding Domain of PPARs. Methods in Molecular Biology, 2013, 952, 137-144.	0.4	3
119	Transcriptomic Profile Reveals Deregulation of Hearing-Loss Related Genes in Vestibular Schwannoma Cells Following Electromagnetic Field Exposure. Cells, 2021, 10, 1840.	1.8	3
120	Mass spectrometry and DNA sequencing are complementary techniques for characterizing hemoglobin variants: the example of hemoglobin J-Oxford. Haematologica, 2004, 89, 608-9.	1.7	3
121	Impact of LDL receptor on lymphocytes T cell differentiation and function. Atherosclerosis, 2018, 275, e21-e22.	0.4	2
122	Interferon regulatory factor 1 (IRF1) controls the metabolic programmes of low-grade pancreatic cancer cells. Gut, 2023, 72, 109-128.	6.1	2
123	PCSK9 deficiency and heart metabolism. Atherosclerosis, 2021, 331, e15.	0.4	1
124	Histone Deacetylase inhibitors modulate mitochondrial biogenesis in skeletal muscle. FASEB Journal, 2010, 24, lb119.	0.2	1
125	Changes in the lipidome of water buffalo milk during intramammary infection by non-aureus Staphylococci. Scientific Reports, 2022, 12, .	1.6	1
126	[65] ANTIDIABETIC AND ANTIOBESITY ACTIVITY OF A NOVEL DUAL PEROXYSOME PROLIFERATOR ACTIVATED RECEPTORS ALPHA/GAMMA LIGAND: A NEW SCAFFOLD MOLECULE DEVOID OF SOME SIDE-EFFECTS OF PPAR LIGANDS?. Nutrition, Metabolism and Cardiovascular Diseases, 2009, 19, S16-S17.	1.1	0

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127	The lipogenic regulator Sterol Regulatory Element Binding Factor-1c is required to maintain peripheral nerve structure and function. SpringerPlus, 2015, 4, L45.	1.2	0
128	Impaired fatty acid synthesis affects immune cells activation: Focus on sterol regulatory element binding factor-1c on T lymphocytes. Nutrition, Metabolism and Cardiovascular Diseases, 2017, 27, e9-e10.	1.1	0
129	Characterization of two synthetic ligands of peroxisome proliferatorâ€activated receptor Î³ (PPARÎ³) by cofactor recruitment, siteâ€directed mutagenesis and structure analysis. FASEB Journal, 2010, 24, lb200.	0.2	0
130	ATP-Binding-Cassette A1 Regulates Extracellular Isopentenyl Pyrophosphate Release and VÎ³9VÎ´2 T-Cell Activation By Dendritic Cells. Blood, 2016, 128, 3709-3709.	0.6	0