Bruce M Spiegelman

List of Publications by Year
in descending order

148 papers	78,616 citations	2171 96 h-index	7165 147 g-index
158 all docs	158 docs citations	158 times ranked	50746 citing authors

#	Article	IF	Citations
1	REPTOR and CREBRF encode key regulators of muscle energy metabolism. Nature Communications, 2023, 14, .	13.0	2
2	Cysteine 253 of UCP1 regulates energy expenditure and sex-dependent adipose tissue inflammation. Cell Metabolism, 2022, 34, 140-157.e8.	15.7	35
3	Measurement of Futile Creatine Cycling Using Respirometry. Methods in Molecular Biology, 2022, 2448, 141-153.	0.7	4
4	SnapShot: Regulation and biology of PGC-1Î±. Cell, 2022, 185, 1444-1444.e1.	27.7	41
5	Role of Mitochondrial TNAP in Thermogenesis and Obesity. FASEB Journal, 2022, 36, .	0.4	0
6	Creatine kinase B controls futile creatine cycling in thermogenic fat. Nature, 2021, 590, 480-485.	35.8	124
7	Mitochondrial TNAP controls thermogenesis by hydrolysis of phosphocreatine. Nature, 2021, 593, 580-585.	35.8	79
8	Exercise hormone irisin is a critical regulator of cognitive function. Nature Metabolism, 2021, 3, 1058-1070.	11.2	174
9	Isthmin-1 is an adipokine that promotes glucose uptake and improves glucose tolerance and hepatic steatosis. Cell Metabolism, 2021, 33, 1836-1852.e11.	15.7	66
10	No evidence for brown adipose tissue activation after creatine supplementation in adult vegetarians. Nature Metabolism, 2021, 3, 107-117.	11.2	15
11	Obesity-Linked PPARÎ³ S273 Phosphorylation Promotes Insulin Resistance through Growth Differentiation Factor 3. Cell Metabolism, 2020, 32, 665-675.e6.	15.7	63
12	Mechanism of futile creatine cycling in thermogenesis. American Journal of Physiology - Endocrinology and Metabolism, 2020, 319, E947-E949.	3.7	5
13	Facultative protein selenation regulates redox sensitivity, adipose tissue thermogenesis, and obesity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10789-10796.	7.5	30
14	Meteorin-like facilitates skeletal muscle repair through a Stat3/IGF-1 mechanism. Nature Metabolism, 2020, 2, 278-289.	11.2	97
15	CD81 Controls Beige Fat Progenitor Cell Growth and Energy Balance via FAK Signaling. Cell, 2020, 182, 563-577.e20.	27.7	184
16	A Plasma Protein Network Regulates PM20D1 and N-Acyl Amino Acid Bioactivity. Cell Chemical Biology, 2020, 27, 1130-1139.e4.	5.2	11
17	Confounding issues in the â€˜humanizedâ€™ BAT of mice. Nature Metabolism, 2020, 2, 303-304.	11.2	12
18	Î³Î´ T cells and adipocyte IL-17RC control fat innervation and thermogenesis. Nature, 2020, 578, 610-614.	35.8	128

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19	Irisin directly stimulates osteoclastogenesis and bone resorption in vitro and in vivo. ELife, 2020, 9, .	5.9	76
20	H+ transport is an integral function of the mitochondrial ADP/ATP carrier. Nature, 2019, 571, 515-520.	35.8	196
21	Adipsin preserves beta cells in diabetic mice and associates with protection from type 2 diabetes in humans. Nature Medicine, 2019, 25, 1739-1747.	29.9	113
22	An Evolutionarily Conserved uORF Regulates PGC1Î± and Oxidative Metabolism in Mice, Flies, and Bluefin Tuna. Cell Metabolism, 2019, 30, 190-200.e6.	15.7	46
23	Innervation of thermogenic adipose tissue via a calsynteninÂ3Î²â€“S100b axis. Nature, 2019, 569, 229-235.	35.8	145
24	Ablation of adipocyte creatine transport impairs thermogenesis and causes diet-induced obesity. Nature Metabolism, 2019, 1, 360-370.	11.2	109
25	New Advances in Adaptive Thermogenesis: UCP1 and Beyond. Cell Metabolism, 2019, 29, 27-37.	15.7	512
26	Irisin Mediates Effects on Bone via Î±V Integrin Receptors. FASEB Journal, 2019, 33, 15.2.	0.4	0
27	Noncanonical agonist PPARÎ³ ligands modulate the response to DNA damage and sensitize cancer cells to cytotoxic chemotherapy. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 561-566.	7.5	49
28	Discovery of Hydrolysis-Resistant Isoindoline <i>N</i>-Acyl Amino Acid Analogues that Stimulate Mitochondrial Respiration. Journal of Medicinal Chemistry, 2018, 61, 3224-3230.	6.6	20
29	Irisin Mediates Effects on Bone and Fat via Î±V Integrin Receptors. Cell, 2018, 175, 1756-1768.e17.	27.7	409
30	Combined adult neurogenesis and BDNF mimic exercise effects on cognition in an Alzheimerâ€™s mouse model. Science, 2018, 361, .	19.8	576
31	Ablation of PM20D1 reveals <i>N</i> -acyl amino acid control of metabolism and nociception. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6937-E6945.	7.5	44
32	Brown Adipose Tissue Controls Skeletal Muscle Function via the Secretion of Myostatin. Cell Metabolism, 2018, 28, 631-643.e3.	15.7	166
33	Do Adipocytes Emerge from Mural Progenitors?. Cell Stem Cell, 2017, 20, 585-586.	10.7	20
34	UCP1 deficiency causes brown fat respiratory chain depletion and sensitizes mitochondria to calcium overload-induced dysfunction. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7981-7986.	7.5	143
35	Mitochondrial Patch Clamp of Beige Adipocytes Reveals UCP1-Positive and UCP1-Negative Cells Both Exhibiting Futile Creatine Cycling. Cell Metabolism, 2017, 25, 811-822.e4.	15.7	184
36	Crosstalk between KCNK3-Mediated Ion Current and Adrenergic Signaling Regulates Adipose Thermogenesis and Obesity. Cell, 2017, 171, 836-848.e13.	27.7	72

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37	Genetic Depletion of Adipocyte Creatine Metabolism Inhibits Diet-Induced Thermogenesis and Drives Obesity. Cell Metabolism, 2017, 26, 660-671.e3.	15.7	200
38	Mitochondrial reactive oxygen species and adipose tissue thermogenesis: Bridging physiology and mechanisms. Journal of Biological Chemistry, 2017, 292, 16810-16816.	3.5	80
39	Mitochondrial ROS regulate thermogenic energy expenditure and sulfenylation of UCP1. Nature, 2016, 532, 112-116.	35.8	351
40	Lysine-specific demethylase 1 promotes brown adipose tissue thermogenesis via repressing glucocorticoid activation. Genes and Development, 2016, 30, 1822-1836.	5.8	77
41	Cell biology of fat storage. Molecular Biology of the Cell, 2016, 27, 2523-2527.	2.4	166
42	Cachexia and Brown Fat: A Burning Issue in Cancer. Trends in Cancer, 2016, 2, 461-463.	7.7	72
43	The Secreted Enzyme PM20D1 Regulates Lipidated Amino Acid Uncouplers of Mitochondria. Cell, 2016, 166, 424-435.	27.7	199
44	PTH/PTHrP Receptor Mediates Cachexia in Models of Kidney Failure and Cancer. Cell Metabolism, 2016, 23, 315-323.	15.7	249
45	A Secreted Slit2 Fragment Regulates Adipose Tissue Thermogenesis and Metabolic Function. Cell Metabolism, 2016, 23, 454-466.	15.7	125
46	Expression and functional characterisation of System L amino acid transporters in the human term placenta. Reproductive Biology and Endocrinology, 2015, 13, 57.	3.3	62
47	Role of Endothelial Dysfunction and Arterial Stiffness in the Development of Diabetic Retinopathy. Diabetes Care, 2015, 38, e9-e10.	9.1	54
48	Appearance and disappearance of the mRNA signature characteristic of T _{reg} cells in visceral adipose tissue: Age, diet, and PPARÎ³ effects. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 482-487.	7.5	164
49	Combined Training Enhances Skeletal Muscle Mitochondrial Oxidative Capacity Independent of Age. Journal of Clinical Endocrinology and Metabolism, 2015, 100, 1654-1663.	3.6	99
50	The future of brown adipose tissues in the treatment of type 2 diabetes. Diabetologia, 2015, 58, 1704-1707.	6.5	36
51	A Creatine-Driven Substrate Cycle Enhances Energy Expenditure and Thermogenesis in Beige Fat. Cell, 2015, 163, 643-655.	27.7	608
52	Detection and Quantitation of Circulating Human Irisin by Tandem Mass Spectrometry. Cell Metabolism, 2015, 22, 734-740.	15.7	428
53	Brown and Beige Fat: Physiological Roles beyond Heat Generation. Cell Metabolism, 2015, 22, 546-559.	15.7	809
54	An ERK/Cdk5 axis controls the diabetogenic actions of PPARÎ³. Nature, 2015, 517, 391-395.	35.8	257

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55	Ablation of PRDM16 and Beige Adipose Causes Metabolic Dysfunction and a Subcutaneous to Visceral Fat Switch. Cell, 2014, 156, 304-316.	27.7	748
56	A Smooth Muscle-Like Origin for Beige Adipocytes. Cell Metabolism, 2014, 19, 810-820.	15.7	393
57	What We Talk About When We Talk About Fat. Cell, 2014, 156, 20-44.	27.7	1,870
58	Î²-Aminoisobutyric Acid Induces Browning of White Fat and Hepatic Î²-Oxidation and Is Inversely Correlated with Cardiometabolic Risk Factors. Cell Metabolism, 2014, 19, 96-108.	15.7	512
59	G protein-coupled receptor 56 regulates mechanical overload-induced muscle hypertrophy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15756-15761.	7.5	97
60	Irisin ERKs the Fat. Diabetes, 2014, 63, 381-383.	0.9	30
61	Thrap3 docks on phosphoserine 273 of PPARÎ³ and controls diabetic gene programming. Genes and Development, 2014, 28, 2361-2369.	5.8	54
62	Adipsin Is an Adipokine that Improves Î² Cell Function in Diabetes. Cell, 2014, 158, 41-53.	27.7	297
63	Tumour-derived PTH-related protein triggers adipose tissue browning and cancer cachexia. Nature, 2014, 513, 100-104.	35.8	538
64	IRF4 Is a Key Thermogenic Transcriptional Partner of PGC-1Î±. Cell, 2014, 158, 69-83.	27.7	253
65	Response to Comment on Wu and Spiegelman. Irisin ERKs the Fat. Diabetes 2014;63:381-383. Diabetes, 2014, 63, e17-e17.	0.9	7
66	Meteorin-like Is a Hormone that Regulates Immune-Adipose Interactions to Increase Beige Fat Thermogenesis. Cell, 2014, 157, 1279-1291.	27.7	732
67	Exercise Induces Hippocampal BDNF through a PGC-1Î±/FNDC5 Pathway. Cell Metabolism, 2013, 18, 649-659.	15.7	994
68	Banting Lecture 2012. Diabetes, 2013, 62, 1774-1782.	0.9	119
69	Fat cells directly sense temperature to activate thermogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12480-12485.	7.5	211
70	Adaptive thermogenesis in adipocytes: Is beige the new brown?. Genes and Development, 2013, 27, 234-250.	5.8	716
71	BostrÃ¶m et al. reply. Nature, 2012, 488, E10-E11.	35.8	14
72	A PGC-1Î± Isoform Induced by Resistance Training Regulates Skeletal Muscle Hypertrophy. Cell, 2012, 151, 1319-1331.	27.7	572

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73	TRPV4 Is a Regulator of Adipose Oxidative Metabolism, Inflammation, and Energy Homeostasis. Cell, 2012, 151, 96-110.	27.7	300
74	Zfp423 Expression Identifies Committed Preadipocytes and Localizes to Adipose Endothelial and Perivascular Cells. Cell Metabolism, 2012, 15, 230-239.	15.7	371
75	FGF21 regulates PGC-1Î± and browning of white adipose tissues in adaptive thermogenesis. Genes and Development, 2012, 26, 271-281.	5.8	1,307
76	Beige Adipocytes Are a Distinct Type of Thermogenic Fat Cell in Mouse and Human. Cell, 2012, 150, 366-376.	27.7	2,832
77	PPARÎ³ agonists Induce a White-to-Brown Fat Conversion through Stabilization of PRDM16 Protein. Cell Metabolism, 2012, 15, 395-404.	15.7	676
78	Elevated PGC-1Î± Activity Sustains Mitochondrial Biogenesis and Muscle Function without Extending Survival in a Mouse Model of Inherited ALS. Cell Metabolism, 2012, 15, 778-786.	15.7	161
79	A Novel Therapeutic Approach to Treating Obesity through Modulation of TGFÎ² Signaling. Endocrinology, 2012, 153, 3133-3146.	2.8	97
80	A PGC1-Î±-dependent myokine that drives brown-fat-like development of white fat and thermogenesis. Nature, 2012, 481, 463-468.	35.8	3,783
81	Development of insulin resistance in mice lacking PGC-1Î± in adipose tissues. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9635-9640.	7.5	255
82	Development and validation of LC/ESI-MS method for the detection and quantification of exogenous ceramide NP in stratum corneum and other layers of the skin. Journal of Pharmaceutical and Biomedical Analysis, 2012, 60, 7-13.	2.9	17
83	PGC-1 Coactivators and the Regulation of Skeletal Muscle Fiber-Type Determination. Cell Metabolism, 2011, 13, 351.	15.7	43
84	Antidiabetic actions of a non-agonist PPARÎ³ ligand blocking Cdk5-mediated phosphorylation. Nature, 2011, 477, 477-481.	35.8	495
85	Molecular mechanisms of cancer development in obesity. Nature Reviews Cancer, 2011, 11, 886-895.	28.6	748
86	'NRF said. Nature Reviews Cancer, 2011, 11, 833-833.	28.6	0
87	Prdm16 determines the thermogenic program of subcutaneous white adipose tissue in mice. Journal of Clinical Investigation, 2011, 121, 96-105.	6.6	1,070
88	Transcriptional control of preadipocyte determination by Zfp423. Nature, 2010, 464, 619-623.	35.8	447
89	Anti-diabetic drugs inhibit obesity-linked phosphorylation of PPARÎ³ by Cdk5. Nature, 2010, 466, 451-456.	35.8	806
90	PGC-1Î± regulates a HIF2Î±-dependent switch in skeletal muscle fiber types. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21866-21871.	7.5	125

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91	Transcriptional Control of Brown Adipogenesis and Energy Homeostasis. FASEB Journal, 2010, 24, 303.4.	0.4	0
92	Transcriptional control of brown adipocyte development and physiological functionâ€"of mice and men. Genes and Development, 2009, 23, 788-797.	5.8	256
93	Initiation of myoblast to brown fat switch by a PRDM16â€"C/EBP-Î² transcriptional complex. Nature, 2009, 460, 1154-1158.	35.8	634
94	PRDM16 controls a brown fat/skeletal muscle switch. Nature, 2008, 454, 961-967.	35.8	2,044
95	Fat and Beyond: The Diverse Biology of PPARÎ³. Annual Review of Biochemistry, 2008, 77, 289-312.	11.1	1,786
96	Regulation of the brown and white fat gene programs through a PRDM16/CtBP transcriptional complex. Genes and Development, 2008, 22, 1397-1409.	5.8	400
97	PGCâ€1Î± is required for exerciseâ€induced mitochondrial biogenesis, but not fiber type transformation, in skeletal muscle. FASEB Journal, 2008, 22, 754.17.	0.4	0
98	PGC-1Î± regulates the neuromuscular junction program and ameliorates Duchenne muscular dystrophy. Genes and Development, 2007, 21, 770-783.	5.8	311
99	Skeletal Muscle Fiber-type Switching, Exercise Intolerance, and Myopathy in PGC-1Î± Muscle-specific Knock-out Animals. Journal of Biological Chemistry, 2007, 282, 30014-30021.	3.5	542
100	Transcriptional Control of Brown Fat Determination by PRDM16. Cell Metabolism, 2007, 6, 38-54.	15.7	1,019
101	Synergy between PPARÎ³ Ligands and Platinum-Based Drugs in Cancer. Cancer Cell, 2007, 11, 395-406.	16.6	123
102	Transcriptional Control of Mitochondrial Energy Metabolism through the PGC1 Coactivators. Novartis Foundation Symposium, 2007, , 60-69.	0.0	166
103	Rb Intrinsically Promotes Erythropoiesis by Coupling Cell Cycle Exit with Mitochondrial Biogenesis.. Blood, 2007, 110, 638-638.	1.4	0
104	Peroxisome Proliferator-Activated Receptor Î³ Coactivator 1 Coactivators, Energy Homeostasis, and Metabolism. Endocrine Reviews, 2006, 27, 728-735.	20.2	999
105	Complementary action of the PGC-1 coactivators in mitochondrial biogenesis and brown fat differentiation. Cell Metabolism, 2006, 3, 333-341.	15.7	556
106	â€œThe Adipocyte: A Multifunctional Cellâ€ Cell Metabolism, 2006, 4, 425-427.	15.7	17
107	Adipocytes as regulators of energy balance and glucose homeostasis. Nature, 2006, 444, 847-853.	35.8	1,841
108	PGC-1Î± protects skeletal muscle from atrophy by suppressing FoxO3 action and atrophy-specific gene transcription. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16260-16265.	7.5	863

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109	Transcriptional coactivator PGC-1Î± controls the energy state and contractile function of cardiac muscle. Cell Metabolism, 2005, 1, 259-271.	15.7	618
110	p38 Mitogen-Activated Protein Kinase Is the Central Regulator of Cyclic AMP-Dependent Transcription of the Brown Fat Uncoupling Protein 1 Gene. Molecular and Cellular Biology, 2004, 24, 3057-3067.	2.4	491
111	Defects in Adaptive Energy Metabolism with CNS-Linked Hyperactivity in PGC-1Î± Null Mice. Cell, 2004, 119, 121-135.	27.7	1,089
112	Biological Control through Regulated Transcriptional Coactivators. Cell, 2004, 119, 157-167.	27.7	320
113	Use of the Peroxisome Proliferator-Activated Receptor (PPAR) Î³ Ligand Troglitazone as Treatment for Refractory Breast Cancer: A Phase II Study. Breast Cancer Research and Treatment, 2003, 79, 391-397.	2.5	214
114	Peroxisome Proliferator-Activated Receptor-Î³ Coactivator 1Î± (PGC-1Î±): Transcriptional Coactivator and Metabolic Regulator. Endocrine Reviews, 2003, 24, 78-90.	20.2	1,832
115	C/EBPÎ± induces adipogenesis through PPARÎ³: a unified pathway. Genes and Development, 2002, 16, 22-26.	5.8	1,244
116	Transcriptional co-activator PGC-1Î± drives the formation of slow-twitch muscle fibres. Nature, 2002, 418, 797-801.	35.8	2,269
117	Obesity and the Regulation of Energy Balance. Cell, 2001, 104, 531-543.	27.7	2,139
118	The role of PPAR-Î³ in macrophage differentiation and cholesterol uptake. Nature Medicine, 2001, 7, 41-47.	29.9	484
119	Adipose tissue reduction in mice lacking the translational inhibitor 4E-BP1. Nature Medicine, 2001, 7, 1128-1132.	29.9	345
120	Control of hepatic gluconeogenesis through the transcriptional coactivator PGC-1. Nature, 2001, 413, 131-138.	35.8	1,649
121	Towards a molecular understanding of adaptive thermogenesis. Nature, 2000, 404, 652-660.	35.8	1,456
122	Molecular Regulation of Adipogenesis. Annual Review of Cell and Developmental Biology, 2000, 16, 145-171.	9.3	1,149
123	Degradation of the Peroxisome Proliferator-activated Receptor Î³ Is Linked to Ligand-dependent Activation. Journal of Biological Chemistry, 2000, 275, 18527-18533.	3.5	330
124	Modulation of Estrogen Receptor-Î± Transcriptional Activity by the Coactivator PGC-1. Journal of Biological Chemistry, 2000, 275, 16302-16308.	3.5	195
125	<i>PAX8-PPAR</i> Î³ <i>1</i> Fusion in Oncogene Human Thyroid Carcinoma. Science, 2000, 289, 1357-1360.	19.8	801
126	Transcriptional activation of adipogenesis. Current Opinion in Cell Biology, 1999, 11, 689-694.	5.5	128

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127	PPARÎ³ Is Required for the Differentiation of Adipose Tissue In Vivo and In Vitro. Molecular Cell, 1999, 4, 611-617.	9.5	1,831
128	Cross-Regulation of C/EBPÎ± and PPARÎ³ Controls the Transcriptional Pathway of Adipogenesis and Insulin Sensitivity. Molecular Cell, 1999, 3, 151-158.	9.5	918
129	Loss-of-Function Mutations in PPARÎ³ Associated with Human Colon Cancer. Molecular Cell, 1999, 3, 799-804.	9.5	487
130	Mechanisms Controlling Mitochondrial Biogenesis and Respiration through the Thermogenic Coactivator PGC-1. Cell, 1999, 98, 115-124.	27.7	3,616
131	Differentiation and reversal of malignant changes in colon cancer through PPARÎ³. Nature Medicine, 1998, 4, 1046-1052.	29.9	937
132	Terminal Differentiation of Human Breast Cancer through PPARÎ³. Molecular Cell, 1998, 1, 465-470.	9.5	782
133	A Cold-Inducible Coactivator of Nuclear Receptors Linked to Adaptive Thermogenesis. Cell, 1998, 92, 829-839.	27.7	3,419
134	câ€Fos Deficiency Inhibits Induction of mRNA for Some, but Not All, Neurotransmitter Biosynthetic Enzymes by Immobilization Stress. Journal of Neurochemistry, 1998, 70, 1935-1940.	4.0	14
135	Functional Antagonism between CCAAT/Enhancer Binding Protein-Î± and Peroxisome Proliferator-activated Receptor-Î³ on the Leptin Promoter. Journal of Biological Chemistry, 1997, 272, 5283-5290.	3.5	223
136	Opposing activities of c-Fos and Fra-2 on AP-1 regulated transcriptional activity in mouse keratinocytes induced to differentiate by calcium and phorbol esters. Oncogene, 1997, 15, 1337-1346.	5.9	63
137	Regulation of Alternative Pathway Activation and C3a Production by Adipose Cells. Obesity, 1996, 4, 521-522.	3.8	38
138	Adipogenesis and Obesity: Rounding Out the Big Picture. Cell, 1996, 87, 377-389.	27.7	1,215
139	15-Deoxy-Î”12,14-Prostaglandin J2 is a ligand for the adipocyte determination factor PPARÎ³. Cell, 1995, 83, 803-812.	27.7	2,822
140	Stimulation of adipogenesis in fibroblasts by PPARÎ³2, a lipid-activated transcription factor. Cell, 1994, 79, 1147-1156.	27.7	3,361
141	Adipocyte-specific transcription factor ARF6 is a heterodimeric complex of two nuclear hormone receptors, PPAR7 and RXRa. Nucleic Acids Research, 1994, 22, 5628-5634.	13.9	355
142	Inhibition of complement alternative pathway in mice with Fab antibody to recombinant adipsin/factor D. European Journal of Immunology, 1993, 23, 1389-1392.	3.3	15
143	Identification of a fat cell enhancer: Analysis of requirements for adipose tissue-specific gene expression. Journal of Cellular Biochemistry, 1992, 49, 219-224.	2.6	63
144	DNA-binding activity of jun is increased through its interaction with Fos. Journal of Cellular Biochemistry, 1990, 42, 193-206.	2.6	36

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145	1-Butyryl-Glycerol: A novel angiogenesis factor secreted by differentiating adipocytes. Cell, 1990, 61, 223-230.	27.7	125
146	Heparin potentiation of 3T3-adipocyte stimulated angiogenesis: Mechanisms of action on endothelial cells. Journal of Cellular Physiology, 1986, 127, 323-329.	4.1	36
147	Transcriptional Control of Energy Homeostasis through the PGC1 Coactivators. Novartis Foundation Symposium, 0, , 3-12.	0.0	48
148	Chair's Introduction. Novartis Foundation Symposium, 0, , 1-2.	0.0	0