Michael P Czech

List of Publications by Year
in descending order

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91 papers	14,224 citations	38660 50 h-index	48187 88 g-index
107 all docs	107 docs citations	107 times ranked	20050 citing authors

#	Article	IF	Citations
1	Adipocyte dysfunctions linking obesity to insulin resistance and type 2 diabetes. Nature Reviews Molecular Cell Biology, 2008, 9, 367-377.	16.1	1,786
2	The GLUT4 Glucose Transporter. Cell Metabolism, 2007, 5, 237-252.	7.2	1,069
3	Insulin action and resistance in obesity and type 2 diabetes. Nature Medicine, 2017, 23, 804-814.	15.2	865
4	PIP2 and PIP3. Cell, 2000, 100, 603-606.	13.5	516
5	Mitochondrial remodeling in adipose tissue associated with obesity and treatment with rosiglitazone. Journal of Clinical Investigation, 2004, 114, 1281-1289.	3.9	508
6	Orally delivered siRNA targeting macrophage Map4k4 suppresses systemic inflammation. Nature, 2009, 458, 1180-1184.	13.7	506
7	Local Proliferation of Macrophages Contributes to Obesity-Associated Adipose Tissue Inflammation. Cell Metabolism, 2014, 19, 162-171.	7.2	486
8	Signaling by Phosphoinositide-3,4,5-Trisphosphate Through Proteins Containing Pleckstrin and Sec7 Homology Domains. Science, 1997, 275, 1927-1930.	6.0	422
9	Mitochondrial Biogenesis and Remodeling during Adipogenesis and in Response to the Insulin Sensitizer Rosiglitazone. Molecular and Cellular Biology, 2003, 23, 1085-1094.	1.1	416
10	What causes the insulin resistance underlying obesity?. Current Opinion in Endocrinology, Diabetes and Obesity, 2012, 19, 81-87.	1.2	380
11	Activation of the Nlrp3 inflammasome in infiltrating macrophages by endocannabinoids mediates beta cell loss in type 2 diabetes. Nature Medicine, 2013, 19, 1132-1140.	15.2	347
12	Insulin signaling through Akt/protein kinase B analyzed by small interfering RNA-mediated gene silencing. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7569-7574.	3.3	330
13	Cidea is associated with lipid droplets and insulin sensitivity in humans. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7833-7838.	3.3	321
14	Depot-Specific Differences and Insufficient Subcutaneous Adipose Tissue Angiogenesis in Human Obesity. Circulation, 2011, 123, 186-194.	1.6	287
15	Fat-specific Protein 27, a Novel Lipid Droplet Protein That Enhances Triglyceride Storage. Journal of Biological Chemistry, 2007, 282, 34213-34218.	1.6	265
16	Endotrophin triggers adipose tissue fibrosis and metabolic dysfunction. Nature Communications, 2014, 5, 3485.	5.8	263
17	Similarity of mouse perivascular and brown adipose tissues and their resistance to diet-induced inflammation. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H1425-H1437.	1.5	248
18	Epicardial and Perivascular Adipose Tissues and Their Influence on Cardiovascular Disease: Basic Mechanisms and Clinical Associations. Journal of the American Heart Association, 2014, 3, e000582.	1.6	243

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19	Glucose transporter recycling in response to insulin is facilitated by myosin Myo1c. Nature, 2002, 420, 821-824.	13.7	235
20	Partial lipodystrophy and insulin resistant diabetes in a patient with a homozygous nonsense mutation in <i>CIDEC</i>. EMBO Molecular Medicine, 2009, 1, 280-287.	3.3	235
21	Hepatocyte-secreted DPP4 in obesity promotes adipose inflammation and insulin resistance. Nature, 2018, 555, 673-677.	13.7	209
22	Suppression of oxidative metabolism and mitochondrial biogenesis by the transcriptional corepressor RIP140 in mouse adipocytes. Journal of Clinical Investigation, 2005, 116, 125-136.	3.9	198
23	Body mass index-independent inflammation in omental adipose tissue associated with insulin resistance in morbid obesity. Surgery for Obesity and Related Diseases, 2011, 7, 60-67.	1.0	186
24	Activation of mTORC1 is essential for Î²-adrenergic stimulation of adipose browning. Journal of Clinical Investigation, 2016, 126, 1704-1716.	3.9	171
25	Regulation of GRP1-catalyzed ADP Ribosylation Factor Guanine Nucleotide Exchange by Phosphatidylinositol 3,4,5-Trisphosphate. Journal of Biological Chemistry, 1998, 273, 1859-1862.	1.6	150
26	An RNA interference-based screen identifies MAP4K4/NIK as a negative regulator of PPARÎ³, adipogenesis, and insulin-responsive hexose transport. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2087-2092.	3.3	142
27	Dynamics of Phosphoinositides in Membrane Retrieval and Insertion. Annual Review of Physiology, 2003, 65, 791-815.	5.6	138
28	Distinct Polyphosphoinositide Binding Selectivities for Pleckstrin Homology Domains of GRP1-like Proteins Based on DiglycineVersus Triglycine Motifs. Journal of Biological Chemistry, 2000, 275, 32816-32821.	1.6	134
29	Gene silencing in adipose tissue macrophages regulates whole-body metabolism in obese mice. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8278-8283.	3.3	132
30	Mechanisms of insulin resistance related to white, beige, and brown adipocytes. Molecular Metabolism, 2020, 34, 27-42.	3.0	129
31	MicroRNAs as Therapeutic Targets. New England Journal of Medicine, 2006, 354, 1194-1195.	13.9	124
32	Phox Homology Domains Specifically Bind Phosphatidylinositol Phosphates. Biochemistry, 2001, 40, 8940-8944.	1.2	121
33	Molecular pathways linking adipose innervation to insulin action in obesity and diabetes mellitus. Nature Reviews Endocrinology, 2019, 15, 207-225.	4.3	119
34	A major role of insulin in promoting obesity-associated adipose tissue inflammation. Molecular Metabolism, 2015, 4, 507-518.	3.0	116
35	IL-1 Signaling in Obesity-Induced Hepatic Lipogenesis and Steatosis. PLoS ONE, 2014, 9, e107265.	1.1	116
36	The Conserved Misshapen-Warts-Yorkie Pathway Acts in Enteroblasts to Regulate Intestinal Stem Cells in Drosophila. Developmental Cell, 2014, 31, 291-304.	3.1	112

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37	ADP-ribosylation Factor 6 as a Target of Guanine Nucleotide Exchange Factor GRP1. Journal of Biological Chemistry, 1999, 274, 27099-27104.	1.6	108
38	Perinuclear Localization and Insulin Responsiveness of GLUT4 Requires Cytoskeletal Integrity in 3T3-L1 Adipocytes. Journal of Biological Chemistry, 2000, 275, 38151-38159.	1.6	108
39	Glucan particles for selective delivery of siRNA to phagocytic cells in mice. Biochemical Journal, 2011, 436, 351-362.	1.7	98
40	PTEN, but Not SHIP2, Suppresses Insulin Signaling through the Phosphatidylinositol 3-Kinase/Akt Pathway in 3T3-L1 Adipocytes. Journal of Biological Chemistry, 2005, 280, 22523-22529.	1.6	94
41	RNAi-based therapeutic strategies for metabolic disease. Nature Reviews Endocrinology, 2011, 7, 473-484.	4.3	86
42	Biochemical basis of fat cell insulin resistance in obese rodents and man. Metabolism: Clinical and Experimental, 1977, 26, 1057-1078.	1.5	84
43	Endothelial protein kinase MAP4K4 promotes vascular inflammation and atherosclerosis. Nature Communications, 2015, 6, 8995.	5.8	81
44	Tumor Necrosis Factor Î± (TNFÎ±) Stimulates Map4k4 Expression through TNFÎ± Receptor 1 Signaling to c-Jun and Activating Transcription Factor 2*. Journal of Biological Chemistry, 2007, 282, 19302-19312.	1.6	77
45	Lipid storage by adipose tissue macrophages regulates systemic glucose tolerance. American Journal of Physiology - Endocrinology and Metabolism, 2014, 307, E374-E383.	1.8	73
46	Phosphatidylinositol-4,5-Bisphosphate-Rich Plasma Membrane Patches Organize Active Zones of Endocytosis and Ruffling in Cultured Adipocytes. Molecular and Cellular Biology, 2004, 24, 9102-9123.	1.1	72
47	Stearoyl-CoA Desaturase 2 Is Required for Peroxisome Proliferator-activated Receptor Î³ Expression and Adipogenesis in Cultured 3T3-L1 Cells. Journal of Biological Chemistry, 2008, 283, 2906-2916.	1.6	72
48	Single-Cell RNA Profiling Reveals Adipocyte to Macrophage Signaling Sufficient to Enhance Thermogenesis. Cell Reports, 2020, 32, 107998.	2.9	60
49	G Î± 11 Signaling through ARF6 Regulates F-Actin Mobilization and GLUT4 Glucose Transporter Translocation to the Plasma Membrane. Molecular and Cellular Biology, 2001, 21, 5262-5275.	1.1	59
50	Tenomodulin promotes human adipocyte differentiation and beneficial visceral adipose tissue expansion. Nature Communications, 2016, 7, 10686.	5.8	56
51	Activated Kupffer cells inhibit insulin sensitivity in obese mice. FASEB Journal, 2015, 29, 2959-2969.	0.2	54
52	Adipocyte lipid synthesis coupled to neuronal control of thermogenic programming. Molecular Metabolism, 2017, 6, 781-796.	3.0	52
53	Lipid rafts and insulin action. Nature, 2000, 407, 147-148.	13.7	47
54	Tumor Necrosis Factor-Î± Induces Caspase-mediated Cleavage of Peroxisome Proliferator-activated Receptor Î³ in Adipocytes. Journal of Biological Chemistry, 2009, 284, 17082-17091.	1.6	45

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55	The Lipid Droplet Protein Hypoxia-inducible Gene 2 Promotes Hepatic Triglyceride Deposition by Inhibiting Lipolysis. Journal of Biological Chemistry, 2015, 290, 15175-15184.	1.6	45
56	CRISPR-delivery particles targeting nuclear receptorâ€“interacting protein 1 (Nrip1) in adipose cells to enhance energy expenditure. Journal of Biological Chemistry, 2018, 293, 17291-17305.	1.6	43
57	Signaling Complexes of the FERM Domain-containing Protein GRSP1 Bound to ARF Exchange Factor GRP1. Journal of Biological Chemistry, 2001, 276, 40065-40070.	1.6	42
58	Adipocyte-specific Hypoxia-inducible gene 2 promotes fat deposition and diet-induced insulin resistance. Molecular Metabolism, 2016, 5, 1149-1161.	3.0	42
59	A Novel Pleckstrin Homology Domain-containing Protein Enhances Insulin-stimulated Akt Phosphorylation and GLUT4 Translocation in Adipocytes. Journal of Biological Chemistry, 2010, 285, 27581-27589.	1.6	41
60	CRISPR-enhanced human adipocyte browning as cell therapy for metabolic disease. Nature Communications, 2021, 12, 6931.	5.8	41
61	Developmental Role of Macrophage Cannabinoid-1 Receptor Signaling in Type 2 Diabetes. Diabetes, 2017, 66, 994-1007.	0.3	40
62	Control of Adipocyte Thermogenesis and Lipogenesis through Î²3-Adrenergic and Thyroid Hormone Signal Integration. Cell Reports, 2020, 31, 107598.	2.9	37
63	Emerging evidence for beneficial macrophage functions in atherosclerosis and obesity-induced insulin resistance. Journal of Molecular Medicine, 2016, 94, 267-275.	1.7	35
64	Neuronal modulation of brown adipose activity through perturbation of white adipocyte lipogenesis. Molecular Metabolism, 2018, 16, 116-125.	3.0	34
65	Map4k4 Negatively Regulates Peroxisome Proliferator-activated Receptor (PPAR) Î³ Protein Translation by Suppressing the Mammalian Target of Rapamycin (mTOR) Signaling Pathway in Cultured Adipocytes. Journal of Biological Chemistry, 2010, 285, 6595-6603.	1.6	32
66	Map4k4 Signaling Nodes in Metabolic and Cardiovascular Diseases. Trends in Endocrinology and Metabolism, 2016, 27, 484-492.	3.1	32
67	Decreasing CB1 receptor signaling in Kupffer cells improves insulin sensitivity in obese mice. Molecular Metabolism, 2017, 6, 1517-1528.	3.0	30
68	Crystal Structure of the C2 Domain of Class II Phosphatidylinositide 3-Kinase C2Î±. Journal of Biological Chemistry, 2006, 281, 4254-4260.	1.6	29
69	Identification of Map4k4 as a Novel Suppressor of Skeletal Muscle Differentiation. Molecular and Cellular Biology, 2013, 33, 678-687.	1.1	28
70	Map4k4 suppresses Srebp-1 and adipocyte lipogenesis independent of JNK signaling. Journal of Lipid Research, 2013, 54, 2697-2707.	2.0	27
71	Inducible Deletion of Protein Kinase Map4k4 in Obese Mice Improves Insulin Sensitivity in Liver and Adipose Tissues. Molecular and Cellular Biology, 2015, 35, 2356-2365.	1.1	27
72	Association of Common Genetic Variants in the MAP4K4 Locus with Prediabetic Traits in Humans. PLoS ONE, 2012, 7, e47647.	1.1	27

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73	NETs and traps delay wound healing in diabetes. Trends in Endocrinology and Metabolism, 2015, 26, 451-452.	3.1	26
74	Fat Targets for Insulin Signaling. Molecular Cell, 2002, 9, 695-696.	4.5	25
75	Peptide- and Amine-Modified Glucan Particles for the Delivery of Therapeutic siRNA. Molecular Pharmaceutics, 2016, 13, 964-978.	2.3	22
76	Endothelial Mitogen-Activated Protein Kinase Kinase Kinase Kinase 4 Is Critical for Lymphatic Vascular Development and Function. Molecular and Cellular Biology, 2016, 36, 1740-1749.	1.1	21
77	Insulin's expanding control of forkheads. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11198-11200.	3.3	20
78	An RNAi therapeutic targeting hepatic DGAT2 in a genetically obese mouse model of nonalcoholic steatohepatitis. Molecular Therapy, 2022, 30, 1329-1342.	3.7	18
79	Protein Kinase Mitogen-activated Protein Kinase Kinase Kinase Kinase 4 (MAP4K4) Promotes Obesity-induced Hyperinsulinemia. Journal of Biological Chemistry, 2016, 291, 16221-16230.	1.6	17
80	Obesity Notches up fatty liver. Nature Medicine, 2013, 19, 969-971.	15.2	15
81	Joint analysis of left ventricular expression and circulating plasma levels of Omentin after myocardial ischemia. Cardiovascular Diabetology, 2017, 16, 87.	2.7	15
82	Macrophages dispose of catecholamines in adipose tissue. Nature Medicine, 2017, 23, 1255-1257.	15.2	13
83	Loss of Antigen Presentation in Adipose Tissue Macrophages or in Adipocytes, but Not Both, Improves Glucose Metabolism. Journal of Immunology, 2019, 202, 2451-2459.	0.4	11
84	Insulin receptor kinase and its mode of signaling membrane components. Diabetes/metabolism Reviews, 1985, 1, 33-58.	0.2	10
85	Map4k4 impairs energy metabolism in endothelial cells and promotes insulin resistance in obesity. American Journal of Physiology - Endocrinology and Metabolism, 2017, 313, E303-E313.	1.8	9
86	The Misshapen subfamily of Ste20 kinases regulate proliferation in the aging mammalian intestinal epithelium. Journal of Cellular Physiology, 2019, 234, 21925-21936.	2.0	8
87	Loss of function of lysosomal acid lipase (LAL) profoundly impacts osteoblastogenesis and increases fracture risk in humans. Bone, 2021, 148, 115946.	1.4	8
88	Immunotherapy for Infarcts: In Vivo Postinfarction Macrophage Modulation Using Intramyocardial Microparticle Delivery of Map4k4 Small Interfering RNA. BioResearch Open Access, 2020, 9, 258-268.	2.6	2
89	Phosphatidylinositol-3-Phosphate. , 2004, , 272-276.		0
90	Cidea and FSP27: novel proteins associated with triglyceride storage in adipocytes. FASEB Journal, 2009, 23, 866.2.	0.2	0

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91	Macrophage ROBOcalls rattle adipose nerves. Nature Metabolism, 2021, 3, 1441-1442.	5.1	0