

Michael P Czech

List of Publications by Year in descending order

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91
papers

14,224
citations

38742

50
h-index

48315

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. <i>Nature Reviews Molecular Cell Biology</i> , 2008, 9, 367-377.	37.0	1,786
2	The GLUT4 Glucose Transporter. <i>Cell Metabolism</i> , 2007, 5, 237-252.	16.2	1,069
3	Insulin action and resistance in obesity and type 2 diabetes. <i>Nature Medicine</i> , 2017, 23, 804-814.	30.7	865
4	PIP2 and PIP3. <i>Cell</i> , 2000, 100, 603-606.	28.9	516
5	Mitochondrial remodeling in adipose tissue associated with obesity and treatment with rosiglitazone. <i>Journal of Clinical Investigation</i> , 2004, 114, 1281-1289.	8.2	508
6	Orally delivered siRNA targeting macrophage Map4k4 suppresses systemic inflammation. <i>Nature</i> , 2009, 458, 1180-1184.	27.8	506
7	Local Proliferation of Macrophages Contributes to Obesity-Associated Adipose Tissue Inflammation. <i>Cell Metabolism</i> , 2014, 19, 162-171.	16.2	486
8	Signaling by Phosphoinositide-3,4,5-Trisphosphate Through Proteins Containing Pleckstrin and Sec7 Homology Domains. <i>Science</i> , 1997, 275, 1927-1930.	12.6	422
9	Mitochondrial Biogenesis and Remodeling during Adipogenesis and in Response to the Insulin Sensitizer Rosiglitazone. <i>Molecular and Cellular Biology</i> , 2003, 23, 1085-1094.	2.3	416
10	What causes the insulin resistance underlying obesity?. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 2012, 19, 81-87.	2.3	380
11	Activation of the Nlrp3 inflammasome in infiltrating macrophages by endocannabinoids mediates beta cell loss in type 2 diabetes. <i>Nature Medicine</i> , 2013, 19, 1132-1140.	30.7	347
12	Insulin signaling through Akt/protein kinase B analyzed by small interfering RNA-mediated gene silencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 7569-7574.	7.1	330
13	Cidea is associated with lipid droplets and insulin sensitivity in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 7833-7838.	7.1	321
14	Depot-Specific Differences and Insufficient Subcutaneous Adipose Tissue Angiogenesis in Human Obesity. <i>Circulation</i> , 2011, 123, 186-194.	1.6	287
15	Fat-specific Protein 27, a Novel Lipid Droplet Protein That Enhances Triglyceride Storage. <i>Journal of Biological Chemistry</i> , 2007, 282, 34213-34218.	3.4	265
16	Endotrophin triggers adipose tissue fibrosis and metabolic dysfunction. <i>Nature Communications</i> , 2014, 5, 3485.	12.8	263
17	Similarity of mouse perivascular and brown adipose tissues and their resistance to diet-induced inflammation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 301, H1425-H1437.	3.2	248
18	Epicardial and Perivascular Adipose Tissues and Their Influence on Cardiovascular Disease: Basic Mechanisms and Clinical Associations. <i>Journal of the American Heart Association</i> , 2014, 3, e000582.	3.7	243

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19	Glucose transporter recycling in response to insulin is facilitated by myosin Myo1c. <i>Nature</i> , 2002, 420, 821-824.	27.8	235
20	Partial lipodystrophy and insulin resistant diabetes in a patient with a homozygous nonsense mutation in <i>CIDEc</i> . <i>EMBO Molecular Medicine</i> , 2009, 1, 280-287.	6.9	235
21	Hepatocyte-secreted DPP4 in obesity promotes adipose inflammation and insulin resistance. <i>Nature</i> , 2018, 555, 673-677.	27.8	209
22	Suppression of oxidative metabolism and mitochondrial biogenesis by the transcriptional corepressor RIP140 in mouse adipocytes. <i>Journal of Clinical Investigation</i> , 2005, 116, 125-136.	8.2	198
23	Body mass index-independent inflammation in omental adipose tissue associated with insulin resistance in morbid obesity. <i>Surgery for Obesity and Related Diseases</i> , 2011, 7, 60-67.	1.2	186
24	Activation of mTORC1 is essential for β -adrenergic stimulation of adipose browning. <i>Journal of Clinical Investigation</i> , 2016, 126, 1704-1716.	8.2	171
25	Regulation of GRP1-catalyzed ADP Ribosylation Factor Guanine Nucleotide Exchange by Phosphatidylinositol 3,4,5-Trisphosphate. <i>Journal of Biological Chemistry</i> , 1998, 273, 1859-1862.	3.4	150
26	An RNA interference-based screen identifies MAP4K4/NIK as a negative regulator of PPAR β , adipogenesis, and insulin-responsive hexose transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2087-2092.	7.1	142
27	Dynamics of Phosphoinositides in Membrane Retrieval and Insertion. <i>Annual Review of Physiology</i> , 2003, 65, 791-815.	13.1	138
28	Distinct Polyphosphoinositide Binding Selectivities for Pleckstrin Homology Domains of GRP1-like Proteins Based on Diglycine Versus Triglycine Motifs. <i>Journal of Biological Chemistry</i> , 2000, 275, 32816-32821.	3.4	134
29	Gene silencing in adipose tissue macrophages regulates whole-body metabolism in obese mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8278-8283.	7.1	132
30	Mechanisms of insulin resistance related to white, beige, and brown adipocytes. <i>Molecular Metabolism</i> , 2020, 34, 27-42.	6.5	129
31	MicroRNAs as Therapeutic Targets. <i>New England Journal of Medicine</i> , 2006, 354, 1194-1195.	27.0	124
32	Phox Homology Domains Specifically Bind Phosphatidylinositol Phosphates. <i>Biochemistry</i> , 2001, 40, 8940-8944.	2.5	121
33	Molecular pathways linking adipose innervation to insulin action in obesity and diabetes mellitus. <i>Nature Reviews Endocrinology</i> , 2019, 15, 207-225.	9.6	119
34	A major role of insulin in promoting obesity-associated adipose tissue inflammation. <i>Molecular Metabolism</i> , 2015, 4, 507-518.	6.5	116
35	IL-1 Signaling in Obesity-Induced Hepatic Lipogenesis and Steatosis. <i>PLoS ONE</i> , 2014, 9, e107265.	2.5	116
36	The Conserved Misshapen-Warts-Yorkie Pathway Acts in Enteroblasts to Regulate Intestinal Stem Cells in <i>Drosophila</i> . <i>Developmental Cell</i> , 2014, 31, 291-304.	7.0	112

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37	ADP-ribosylation Factor 6 as a Target of Guanine Nucleotide Exchange Factor GRP1. <i>Journal of Biological Chemistry</i> , 1999, 274, 27099-27104.	3.4	108
38	Perinuclear Localization and Insulin Responsiveness of GLUT4 Requires Cytoskeletal Integrity in 3T3-L1 Adipocytes. <i>Journal of Biological Chemistry</i> , 2000, 275, 38151-38159.	3.4	108
39	Glucan particles for selective delivery of siRNA to phagocytic cells in mice. <i>Biochemical Journal</i> , 2011, 436, 351-362.	3.7	98
40	PTEN, but Not SHIP2, Suppresses Insulin Signaling through the Phosphatidylinositol 3-Kinase/Akt Pathway in 3T3-L1 Adipocytes. <i>Journal of Biological Chemistry</i> , 2005, 280, 22523-22529.	3.4	94
41	RNAi-based therapeutic strategies for metabolic disease. <i>Nature Reviews Endocrinology</i> , 2011, 7, 473-484.	9.6	86
42	Biochemical basis of fat cell insulin resistance in obese rodents and man. <i>Metabolism: Clinical and Experimental</i> , 1977, 26, 1057-1078.	3.4	84
43	Endothelial protein kinase MAP4K4 promotes vascular inflammation and atherosclerosis. <i>Nature Communications</i> , 2015, 6, 8995.	12.8	81
44	Tumor Necrosis Factor $\hat{\pm}$ (TNF $\hat{\pm}$) Stimulates Map4k4 Expression through TNF $\hat{\pm}$ Receptor 1 Signaling to c-Jun and Activating Transcription Factor 2*. <i>Journal of Biological Chemistry</i> , 2007, 282, 19302-19312.	3.4	77
45	Lipid storage by adipose tissue macrophages regulates systemic glucose tolerance. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 307, E374-E383.	3.5	73
46	Phosphatidylinositol-4,5-Bisphosphate-Rich Plasma Membrane Patches Organize Active Zones of Endocytosis and Ruffling in Cultured Adipocytes. <i>Molecular and Cellular Biology</i> , 2004, 24, 9102-9123.	2.3	72
47	Stearoyl-CoA Desaturase 2 Is Required for Peroxisome Proliferator-activated Receptor $\hat{\beta}$ Expression and Adipogenesis in Cultured 3T3-L1 Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 2906-2916.	3.4	72
48	Single-Cell RNA Profiling Reveals Adipocyte to Macrophage Signaling Sufficient to Enhance Thermogenesis. <i>Cell Reports</i> , 2020, 32, 107998.	6.4	60
49	G $\hat{\pm}$ 11 Signaling through ARF6 Regulates F-Actin Mobilization and GLUT4 Glucose Transporter Translocation to the Plasma Membrane. <i>Molecular and Cellular Biology</i> , 2001, 21, 5262-5275.	2.3	59
50	Tenomodulin promotes human adipocyte differentiation and beneficial visceral adipose tissue expansion. <i>Nature Communications</i> , 2016, 7, 10686.	12.8	56
51	Activated Kupffer cells inhibit insulin sensitivity in obese mice. <i>FASEB Journal</i> , 2015, 29, 2959-2969.	0.5	54
52	Adipocyte lipid synthesis coupled to neuronal control of thermogenic programming. <i>Molecular Metabolism</i> , 2017, 6, 781-796.	6.5	52
53	Lipid rafts and insulin action. <i>Nature</i> , 2000, 407, 147-148.	27.8	47
54	Tumor Necrosis Factor- $\hat{\pm}$ Induces Caspase-mediated Cleavage of Peroxisome Proliferator-activated Receptor $\hat{\beta}$ in Adipocytes. <i>Journal of Biological Chemistry</i> , 2009, 284, 17082-17091.	3.4	45

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55	The Lipid Droplet Protein Hypoxia-inducible Gene 2 Promotes Hepatic Triglyceride Deposition by Inhibiting Lipolysis. <i>Journal of Biological Chemistry</i> , 2015, 290, 15175-15184.	3.4	45
56	CRISPR-delivery particles targeting nuclear receptor-interacting protein 1 (Nrip1) in adipose cells to enhance energy expenditure. <i>Journal of Biological Chemistry</i> , 2018, 293, 17291-17305.	3.4	43
57	Signaling Complexes of the FERM Domain-containing Protein GRSP1 Bound to ARF Exchange Factor GRP1. <i>Journal of Biological Chemistry</i> , 2001, 276, 40065-40070.	3.4	42
58	Adipocyte-specific Hypoxia-inducible gene 2 promotes fat deposition and diet-induced insulin resistance. <i>Molecular Metabolism</i> , 2016, 5, 1149-1161.	6.5	42
59	A Novel Pleckstrin Homology Domain-containing Protein Enhances Insulin-stimulated Akt Phosphorylation and GLUT4 Translocation in Adipocytes. <i>Journal of Biological Chemistry</i> , 2010, 285, 27581-27589.	3.4	41
60	CRISPR-enhanced human adipocyte browning as cell therapy for metabolic disease. <i>Nature Communications</i> , 2021, 12, 6931.	12.8	41
61	Developmental Role of Macrophage Cannabinoid-1 Receptor Signaling in Type 2 Diabetes. <i>Diabetes</i> , 2017, 66, 994-1007.	0.6	40
62	Control of Adipocyte Thermogenesis and Lipogenesis through β -Adrenergic and Thyroid Hormone Signal Integration. <i>Cell Reports</i> , 2020, 31, 107598.	6.4	37
63	Emerging evidence for beneficial macrophage functions in atherosclerosis and obesity-induced insulin resistance. <i>Journal of Molecular Medicine</i> , 2016, 94, 267-275.	3.9	35
64	Neuronal modulation of brown adipose activity through perturbation of white adipocyte lipogenesis. <i>Molecular Metabolism</i> , 2018, 16, 116-125.	6.5	34
65	Map4k4 Negatively Regulates Peroxisome Proliferator-activated Receptor (PPAR) β Protein Translation by Suppressing the Mammalian Target of Rapamycin (mTOR) Signaling Pathway in Cultured Adipocytes. <i>Journal of Biological Chemistry</i> , 2010, 285, 6595-6603.	3.4	32
66	Map4k4 Signaling Nodes in Metabolic and Cardiovascular Diseases. <i>Trends in Endocrinology and Metabolism</i> , 2016, 27, 484-492.	7.1	32
67	Decreasing CB1 receptor signaling in Kupffer cells improves insulin sensitivity in obese mice. <i>Molecular Metabolism</i> , 2017, 6, 1517-1528.	6.5	30
68	Crystal Structure of the C2 Domain of Class II Phosphatidylinositide 3-Kinase C2 β . <i>Journal of Biological Chemistry</i> , 2006, 281, 4254-4260.	3.4	29
69	Identification of Map4k4 as a Novel Suppressor of Skeletal Muscle Differentiation. <i>Molecular and Cellular Biology</i> , 2013, 33, 678-687.	2.3	28
70	Map4k4 suppresses Srebp-1 and adipocyte lipogenesis independent of JNK signaling. <i>Journal of Lipid Research</i> , 2013, 54, 2697-2707.	4.2	27
71	Inducible Deletion of Protein Kinase Map4k4 in Obese Mice Improves Insulin Sensitivity in Liver and Adipose Tissues. <i>Molecular and Cellular Biology</i> , 2015, 35, 2356-2365.	2.3	27
72	Association of Common Genetic Variants in the MAP4K4 Locus with Prediabetic Traits in Humans. <i>PLoS ONE</i> , 2012, 7, e47647.	2.5	27

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73	NETs and traps delay wound healing in diabetes. <i>Trends in Endocrinology and Metabolism</i> , 2015, 26, 451-452.	7.1	26
74	Fat Targets for Insulin Signaling. <i>Molecular Cell</i> , 2002, 9, 695-696.	9.7	25
75	Peptide- and Amine-Modified Glucan Particles for the Delivery of Therapeutic siRNA. <i>Molecular Pharmaceutics</i> , 2016, 13, 964-978.	4.6	22
76	Endothelial Mitogen-Activated Protein Kinase Kinase Kinase Kinase 4 Is Critical for Lymphatic Vascular Development and Function. <i>Molecular and Cellular Biology</i> , 2016, 36, 1740-1749.	2.3	21
77	Insulin's expanding control of forkheads. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 11198-11200.	7.1	20
78	An RNAi therapeutic targeting hepatic DGAT2 in a genetically obese mouse model of nonalcoholic steatohepatitis. <i>Molecular Therapy</i> , 2022, 30, 1329-1342.	8.2	18
79	Protein Kinase Mitogen-activated Protein Kinase Kinase Kinase 4 (MAP4K4) Promotes Obesity-induced Hyperinsulinemia. <i>Journal of Biological Chemistry</i> , 2016, 291, 16221-16230.	3.4	17
80	Obesity Notches up fatty liver. <i>Nature Medicine</i> , 2013, 19, 969-971.	30.7	15
81	Joint analysis of left ventricular expression and circulating plasma levels of Omentin after myocardial ischemia. <i>Cardiovascular Diabetology</i> , 2017, 16, 87.	6.8	15
82	Macrophages dispose of catecholamines in adipose tissue. <i>Nature Medicine</i> , 2017, 23, 1255-1257.	30.7	13
83	Loss of Antigen Presentation in Adipose Tissue Macrophages or in Adipocytes, but Not Both, Improves Glucose Metabolism. <i>Journal of Immunology</i> , 2019, 202, 2451-2459.	0.8	11
84	Insulin receptor kinase and its mode of signaling membrane components. <i>Diabetes/metabolism Reviews</i> , 1985, 1, 33-58.	0.3	10
85	Map4k4 impairs energy metabolism in endothelial cells and promotes insulin resistance in obesity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2017, 313, E303-E313.	3.5	9
86	The Misshapen subfamily of Ste20 kinases regulate proliferation in the aging mammalian intestinal epithelium. <i>Journal of Cellular Physiology</i> , 2019, 234, 21925-21936.	4.1	8
87	Loss of function of lysosomal acid lipase (LAL) profoundly impacts osteoblastogenesis and increases fracture risk in humans. <i>Bone</i> , 2021, 148, 115946.	2.9	8
88	Immunotherapy for Infarcts: In Vivo Postinfarction Macrophage Modulation Using Intramyocardial Microparticle Delivery of Map4k4 Small Interfering RNA. <i>BioResearch Open Access</i> , 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. <i>FASEB Journal</i> , 2009, 23, 866.2.	0.5	0

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91	Macrophage ROBOcalls rattle adipose nerves. Nature Metabolism, 2021, 3, 1441-1442.	11.9	0