Mathieu Laplante

List of Publications by Citations

56 papers	12,618 citations	28 h-index	56 g-index
56 ext. papers	14,386 ext. citations	10.1 avg, IF	7.15 L-index

#	Paper	IF	Citations
56	mTOR signaling in growth control and disease. *Cell*, **2012**, 149, 274-93	56.2	5838
55	mTOR signaling at a glance. *Journal of Cell Science*, **2009**, 122, 3589-94	5.3	1587
54	Obesity-associated improvements in metabolic profile through expansion of adipose tissue. *Journal of Clinical Investigation*, **2007**, 117, 2621-37	15.9	938
53	DEPTOR is an mTOR inhibitor frequently overexpressed in multiple myeloma cells and required for their survival. *Cell*, **2009**, 137, 873-86	56.2	904
52	An emerging role of mTOR in lipid biosynthesis. *Current Biology*, **2009**, 19, R1046-52	6.3	437
51	mTORC1 controls fasting-induced ketogenesis and its modulation by ageing. *Nature*, **2010**, 468, 1100-4	50.4	430
50	Regulation of mTORC1 and its impact on gene expression at a glance. *Journal of Cell Science*, **2013**, 126, 1713-9	5.3	409
49	mTOR Signaling. *Cold Spring Harbor Perspectives in Biology*, **2012**, 4,	10.2	187
48	The Roles of mTOR Complexes in Lipid Metabolism. *Annual Review of Nutrition*, **2015**, 35, 321-48	9.9	167
47	Connecting mTORC1 signaling to SREBP-1 activation. *Current Opinion in Lipidology*, **2012**, 23, 226-234	4.4	163
46	In vivo measurement of energy substrate contribution to cold-induced brown adipose tissue thermogenesis. *FASEB Journal*, **2015**, 29, 2046-58	0.9	145
45	PPAR-gamma activation mediates adipose depot-specific effects on gene expression and lipoprotein lipase activity: mechanisms for modulation of postprandial lipemia and differential adipose accretion. *Diabetes*, **2003**, 52, 291-9	0.9	137
44	A Mitofusin-2-dependent inactivating cleavage of Opa1 links changes in mitochondria cristae and ER contacts in the postprandial liver. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 16017-22	11.5	110
43	mTORC1 activates SREBP-1c and uncouples lipogenesis from gluconeogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 3281-2	11.5	105
42	Mechanisms of the depot specificity of peroxisome proliferator-activated receptor gamma action on adipose tissue metabolism. *Diabetes*, **2006**, 55, 2771-8	0.9	103
41	DEPTOR cell-autonomously promotes adipogenesis, and its expression is associated with obesity. *Cell Metabolism*, **2012**, 16, 202-12	24.6	90
40	A comparative perspective on lipid storage in animals. *Journal of Cell Science*, **2013**, 126, 1541-52	5.3	78

39	Myeloid-specific Rictor deletion induces M1 macrophage polarization and potentiates in vivo pro-inflammatory response to lipopolysaccharide. *PLoS ONE*, **2014**, 9, e95432	3.7	73
38	Depot-specific effects of the PPARgamma agonist rosiglitazone on adipose tissue glucose uptake and metabolism. *Journal of Lipid Research*, **2009**, 50, 1185-94	6.3	61
37	Metabolic activity of brown, "beige," and white adipose tissues in response to chronic adrenergic stimulation in male mice. *American Journal of Physiology - Endocrinology and Metabolism*, **2016**, 311, E260-8	6	56
36	Obese mice lacking inducible nitric oxide synthase are sensitized to the metabolic actions of peroxisome proliferator-activated receptor-gamma agonism. *Diabetes*, **2008**, 57, 1999-2011	0.9	49
35	The PPARgamma agonist rosiglitazone enhances rat brown adipose tissue lipogenesis from glucose without altering glucose uptake. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2009**, 296, R1327-35	3.2	46
34	PGC1A regulates the IRS1:IRS2 ratio during fasting to influence hepatic metabolism downstream of insulin. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 4285-4290	11.5	45
33	Interrelationships between ghrelin, insulin and glucose homeostasis: Physiological relevance. *World Journal of Diabetes*, **2014**, 5, 328-41	4.7	45
32	DEPTOR at the Nexus of Cancer, Metabolism, and Immunity. *Physiological Reviews*, **2018**, 98, 1765-1803	47.9	42
31	mTORC1 is Required for Brown Adipose Tissue Recruitment and Metabolic Adaptation to Cold. *Scientific Reports*, **2016**, 6, 37223	4.9	40
30	Tissue-specific postprandial clearance is the major determinant of PPARgamma-induced triglyceride lowering in the rat. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2009**, 296, R57-66	3.2	36
29	Rosiglitazone-induced heart remodelling is associated with enhanced turnover of myofibrillar protein and mTOR activation. *Journal of Molecular and Cellular Cardiology*, **2009**, 47, 85-95	5.8	29
28	Loss of hepatic DEPTOR alters the metabolic transition to fasting. *Molecular Metabolism*, **2017**, 6, 447-458	8.8	28
27	Involvement of adipose tissues in the early hypolipidemic action of PPARgamma agonism in the rat. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2007**, 292, R1408-17	3.2	27
26	Versatile and robust genome editing with CRISPR1-Cas9. *Genome Research*, **2020**, 30, 107-117	9.7	25
25	Mediobasal hypothalamic overexpression of DEPTOR protects against high-fat diet-induced obesity. *Molecular Metabolism*, **2016**, 5, 102-112	8.8	24
24	The hepatokine Tsukushi is released in response to NAFLD and impacts cholesterol homeostasis. *JCI Insight*, **2019**, 4,	9.9	22
23	Involvement of the Acyl-CoA binding domain containing 7 in the control of food intake and energy expenditure in mice. *ELife*, **2016**, 5,	8.9	18
22	DEP domain-containing mTOR-interacting protein in the rat brain: distribution of expression and potential implication. *Journal of Comparative Neurology*, **2015**, 523, 93-107	3.4	14

21	Preliminary report: pharmacologic 11beta-hydroxysteroid dehydrogenase type 1 inhibition increases hepatic fat oxidation in vivo and expression of related genes in rats fed an obesogenic diet. *Metabolism: Clinical and Experimental*, **2010**, 59, 114-7	12.7	14
20	DEPTOR in POMC neurons affects liver metabolism but is dispensable for the regulation of energy balance. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2016**, 310, R1322-31	3.2	13
19	Amplification of Adipogenic Commitment by VSTM2A. *Cell Reports*, **2017**, 18, 93-106	10.6	11
18	The Hepatokine TSK does not affect brown fat thermogenic capacity, body weight gain, and glucose homeostasis. *Molecular Metabolism*, **2019**, 30, 184-191	8.8	10
17	Insulin stimulates IGFBP-2 expression in 3T3-L1 adipocytes through the PI3K/mTOR pathway. *Molecular and Cellular Endocrinology*, **2012**, 358, 63-8	4.4	10
16	Cytokines promote lipolysis in 3T3-L1 adipocytes through induction of NADPH oxidase 3 expression and superoxide production. *Journal of Lipid Research*, **2018**, 59, 2321-2328	6.3	8
15	Limited survival and impaired hepatic fasting metabolism in mice with constitutive Rag GTPase signaling. *Nature Communications*, **2021**, 12, 3660	17.4	7
14	DEPTOR modulates activation responses in CD4 T cells and enhances immunoregulation following transplantation. *American Journal of Transplantation*, **2019**, 19, 77-88	8.7	6
13	Lung cancer susceptibility genetic variants modulate HOXB2 expression in the lung. *International Journal of Developmental Biology*, **2018**, 62, 857-864	1.9	6
12	A Phosphorylatable Sphingosine Analog Induces Airway Smooth Muscle Cytostasis and Reverses Airway Hyperresponsiveness in Experimental Asthma. *Frontiers in Pharmacology*, **2017**, 8, 78	5.6	4
11	Metabolic responses to intermittent hypoxia are regulated by sex and estradiol in mice. *American Journal of Physiology - Endocrinology and Metabolism*, **2021**, 320, E316-E325	6	4
10	HNF4□s a novel regulator of intestinal glucose-dependent insulinotropic polypeptide. *Scientific Reports*, **2019**, 9, 4200	4.9	3
9	The transcription factor hepatocyte nuclear factor 4A acts in the intestine to promote white adipose tissue energy storage.. *Nature Communications*, **2022**, 13, 224	17.4	3
8	Control of adipogenic commitment by a STAT3-VSTM2A axis. *American Journal of Physiology - Endocrinology and Metabolism*, **2021**, 320, E259-E269	6	3
7	ZNF768 Expression Associates with High Proliferative Clinicopathological Features in Lung Adenocarcinoma. *Cancers*, **2021**, 13,	6.6	2
6	ZNF768 links oncogenic RAS to cellular senescence. *Nature Communications*, **2021**, 12, 4841	17.4	2
5	Adipocyte-specific mTORC2 deficiency impairs BAT and iWAT thermogenic capacity without affecting glucose uptake and energy expenditure in cold-acclimated mice. *American Journal of Physiology - Endocrinology and Metabolism*, **2021**, 321, E592-E605	6	2
4	Versatile and robust genome editing with Streptococcus thermophilus CRISPR1-Cas9		1

3	Critical importance of dietary methionine and choline in the maintenance of lung homeostasis during normal and cigarette smoke exposure conditions. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2020**, 319, L391-L402	5.8	1
2	Glycerol contained in vaping liquids affects the liver and aspects of energy homeostasis in a sex-dependent manner.. *Physiological Reports*, **2022**, 10, e15146	2.6	0
1	ZNF768: controlling cellular senescence and proliferation with ten fingers.. *Molecular and Cellular Oncology*, **2021**, 8, 1985930	1.2	