Julie St-Pierre

List of Publications by Year
in descending order

91 papers	18,845 citations	53939 47 h-index	71088 80 g-index
96 all docs	96 docs citations	96 times ranked	28961 citing authors

#	Article	IF	Citations
1	HSP90 inhibitors induce GPNMB cell-surface expression by modulating lysosomal positioning and sensitize breast cancer cells to glembatumumab vedotin. Oncogene, 2022, 41, 1701-1717.	2.6	8
2	Food for Growth: Distinct Nutrient Preferences between Primary Tumors and Metastases. Molecular Cell, 2021, 81, 220-222.	4.5	1
3	Altered mitochondrial fusion drives defensive glutathione synthesis in cells able to switch to glycolytic ATP production. Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 118854.	1.9	14
4	Perturbations of cancer cell metabolism by the antidiabetic drug canagliflozin. Neoplasia, 2021, 23, 391-399.	2.3	18
5	Resistance to different anthracycline chemotherapeutics elicits distinct and actionable primary metabolic dependencies in breast cancer. ELife, 2021, 10, .	2.8	23
6	STAT1 potentiates oxidative stress revealing a targetable vulnerability that increases phenformin efficacy in breast cancer. Nature Communications, 2021, 12, 3299.	5.8	24
7	Metabolic Fitness and Plasticity in Cancer Progression. Trends in Cancer, 2020, 6, 49-61.	3.8	76
8	Inhibition of DNMT1 and ERRÎ± crosstalk suppresses breast cancer via derepression of IRF4. Oncogene, 2020, 39, 6406-6420.	2.6	25
9	Methotrexate elicits pro-respiratory and anti-growth effects by promoting AMPK signaling. Scientific Reports, 2020, 10, 7838.	1.6	10
10	Estrogen-related receptors are targetable ROS sensors. Genes and Development, 2020, 34, 544-559.	2.7	64
11	Peroxisome proliferatorâ€activated receptor Î³ coactivator 1Î± regulates mitochondrial calcium homeostasis, sarcoplasmic reticulum stress, and cell death to mitigate skeletal muscle aging. Aging Cell, 2019, 18, e12993.	3.0	23
12	Pituitary cell translation and secretory capacities are enhanced cell autonomously by the transcription factor Creb3l2. Nature Communications, 2019, 10, 3960.	5.8	30
13	Immature Low-Density Neutrophils Exhibit Metabolic Flexibility that Facilitates Breast Cancer Liver Metastasis. Cell Reports, 2019, 27, 3902-3915.e6.	2.9	144
14	RSK Regulates PFK-2 Activity to Promote Metabolic Rewiring in Melanoma. Cancer Research, 2018, 78, 2191-2204.	0.4	47
15	Divergent Role of Estrogen-Related Receptor Î± in Lipid- and Fasting-Induced Hepatic Steatosis in Mice. Endocrinology, 2018, 159, 2153-2164.	1.4	29
16	A salicylic acid derivative extends the lifespan of Caenorhabditis elegans by activating autophagy and the mitochondrial unfolded protein response. Aging Cell, 2018, 17, e12830.	3.0	24
17	Translational and HIF-1Î±-Dependent Metabolic Reprogramming Underpin Metabolic Plasticity and Responses to Kinase Inhibitors and Biguanides. Cell Metabolism, 2018, 28, 817-832.e8.	7.2	61
18	Metabolic Profiles Associated With Metformin Efficacy in Cancer. Frontiers in Endocrinology, 2018, 9, 372.	1.5	61

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19	Interplay between ShcA Signaling and PGC-1Î± Triggers Targetable Metabolic Vulnerabilities in Breast Cancer. Cancer Research, 2018, 78, 4826-4838.	0.4	10
20	The Essential Role of Primary Caregiver in Early Detection of Familial Hypercholesterolemia and Cardiovascular Prevention. Current Pediatric Reviews, 2018, 13, 260-264.	0.4	0
21	AMPK Maintains Cellular Metabolic Homeostasis through Regulation of Mitochondrial Reactive Oxygen Species. Cell Reports, 2017, 21, 1-9.	2.9	405
22	PGC-1Î± Promotes Breast Cancer Metastasis and Confers Bioenergetic Flexibility against Metabolic Drugs. Cell Metabolism, 2017, 26, 778-787.e5.	7.2	181
23	mTOR Controls Mitochondrial Dynamics and Cell Survival via MTFP1. Molecular Cell, 2017, 67, 922-935.e5.	4.5	249
24	Androgen-Dependent Repression of ERRÎ³ Reprograms Metabolism in Prostate Cancer. Cancer Research, 2017, 77, 378-389.	0.4	59
25	PRL2 links magnesium flux and sex-dependent circadian metabolic rhythms. JCI Insight, 2017, 2, .	2.3	18
26	ERRÎ± mediates metabolic adaptations driving lapatinib resistance in breast cancer. Nature Communications, 2016, 7, 12156.	5.8	98
27	Chronic AMPK activation via loss of FLCN induces functional beige adipose tissue through PGC-1Î±/ERRÎ±. Genes and Development, 2016, 30, 1034-1046.	2.7	83
28	Metabolomics Analyses of Cancer Cells in Controlled Microenvironments. Methods in Molecular Biology, 2016, 1458, 273-290.	0.4	14
29	Nucleus to Mitochondria: Lost in Transcription, Found in Translation. Developmental Cell, 2016, 37, 490-492.	3.1	5
30	nanoCAGE reveals 5â€² UTR features that define specific modes of translation of functionally related MTOR-sensitive mRNAs. Genome Research, 2016, 26, 636-648.	2.4	177
31	The PGC-1Î±/ERRÎ± Axis Represses One-Carbon Metabolism and Promotes Sensitivity to Anti-folate Therapy in Breast Cancer. Cell Reports, 2016, 14, 920-931.	2.9	73
32	mTOR coordinates protein synthesis, mitochondrial activity and proliferation. Cell Cycle, 2015, 14, 473-480.	1.3	397
33	A roadmap for interpreting 13 C metabolite labeling patterns from cells. Current Opinion in Biotechnology, 2015, 34, 189-201.	3.3	513
34	PDK1-Dependent Metabolic Reprogramming Dictates Metastatic Potential in Breast Cancer. Cell Metabolism, 2015, 22, 577-589.	7.2	430
35	Struggling for breath in Sherbrooke 1st Symposium on â€œOne mitochondrion, many diseasesâ€•in Sherbrooke, QuÃ©bec, Canada, March 11th, 2015. Microbial Cell, 2015, 2, 208-213.	1.4	1
36	Stable Isotope Tracer Analysis in Isolated Mitochondria from Mammalian Systems. Metabolites, 2014, 4, 166-183.	1.3	33

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37	Morphological and functional remodelling of the neuromuscular junction by skeletal muscle PGC-1Î±. Nature Communications, 2014, 5, 3569.	5.8	64
38	Serine Deprivation Enhances Antineoplastic Activity of Biguanides. Cancer Research, 2014, 74, 7521-7533.	0.4	113
39	Metformin directly acts on mitochondria to alter cellular bioenergetics. Cancer & Metabolism, 2014, 2, 12.	2.4	330
40	Dual mode of action of metformin on mitochondrial metabolism. Cancer & Metabolism, 2014, 2, .	2.4	0
41	Abstract 2436: Regulation of breast cancer cell metabolism by the AMPK/ERR/PGC pathway. , 2014, , .		0
42	mTORC1 Controls Mitochondrial Activity and Biogenesis through 4E-BP-Dependent Translational Regulation. Cell Metabolism, 2013, 18, 698-711.	7.2	647
43	PGC-1Î± supports glutamine metabolism in breast cancer. Cancer & Metabolism, 2013, 1, 22.	2.4	130
44	The PGC-1/ERR signaling axis in cancer. Oncogene, 2013, 32, 3483-3490.	2.6	145
45	The complete targeted profile of the organic acid intermediates of the citric acid cycle using a single stable isotope dilution analysis, sodium borodeuteride reduction and selected ion monitoring GC/MS. Metabolomics, 2013, 9, 1019-1030.	1.4	44
46	Stomatin-like Protein 2 Deficiency in T Cells Is Associated with Altered Mitochondrial Respiration and Defective CD4+ T Cell Responses. Journal of Immunology, 2012, 189, 4349-4360.	0.4	44
47	PGC-1Î± Promotes the Growth of ErbB2/Neuâ€“Induced Mammary Tumors by Regulating Nutrient Supply. Cancer Research, 2012, 72, 1538-1546.	0.4	45
48	Carbon Source and Myc Expression Influence the Antiproliferative Actions of Metformin. Cancer Research, 2012, 72, 6257-6267.	0.4	39
49	PGC1Î± and mitochondrial metabolism â€“ emerging concepts and relevance in ageing and neurodegenerative disorders. Journal of Cell Science, 2012, 125, 4963-4971.	1.2	545
50	Modulation of Leptin Resistance by Protein Tyrosine Phosphatases. Cell Metabolism, 2012, 15, 292-297.	7.2	79
51	Alterations in Cellular Energy Metabolism Associated with the Antiproliferative Effects of the ATM Inhibitor KU-55933 and with Metformin. PLoS ONE, 2012, 7, e49513.	1.1	29
52	Impact of PGC-1Î± on the topology and rate of superoxide production by the mitochondrial electron transport chain. Free Radical Biology and Medicine, 2011, 51, 2243-2248.	1.3	41
53	Impact of PGC-1Î± On the Topology and Rate of Superoxide Production by the Mitochondrial Electron Transport Chain. Free Radical Biology and Medicine, 2011, 51, S131-S132.	1.3	0
54	Three-step model for condensin activation during mitotic chromosome condensation. Cell Cycle, 2010, 9, 3263-3275.	1.3	43

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55	miR-378 â^— Mediates Metabolic Shift in Breast Cancer Cells via the PGC-1Î²/ERRÎ³ Transcriptional Pathway. Cell Metabolism, 2010, 12, 352-361.	7.2	254
56	Polo Kinase Regulates Mitotic Chromosome Condensation by Hyperactivation of Condensin DNA Supercoiling Activity. Molecular Cell, 2009, 34, 416-426.	4.5	136
57	A fundamental system of cellular energy homeostasis regulated by PGC-1Â. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7933-7938.	3.3	184
58	AMP-activated protein kinase (AMPK) action in skeletal muscle via direct phosphorylation of PGC-1Î±. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12017-12022.	3.3	2,045
59	Suppression of Reactive Oxygen Species and Neurodegeneration by the PGC-1 Transcriptional Coactivators. Cell, 2006, 127, 397-408.	13.5	1,948
60	Complementary action of the PGC-1 coactivators in mitochondrial biogenesis and brown fat differentiation. Cell Metabolism, 2006, 3, 333-341.	7.2	548
61	Complementary action of the PGC-1 coactivators in mitochondrial biogenesis and brown fat differentiation. Cell Metabolism, 2006, 4, 97.	7.2	7
62	Attenuation of LDH-A expression uncovers a link between glycolysis, mitochondrial physiology, and tumor maintenance. Cancer Cell, 2006, 9, 425-434.	7.7	1,390
63	Attenuation of LDH-A expression uncovers a link between glycolysis, mitochondrial physiology, and tumor maintenance. Cancer Cell, 2006, 10, 172.	7.7	8
64	A HEALTHY BREATHING INTERRUPTION. Journal of Experimental Biology, 2005, 208, vii-viii.	0.8	0
65	THE ENEMY WITHIN. Journal of Experimental Biology, 2005, 208, vii-vii.	0.8	0
66	OXYGEN IS UP ON THE SOCIAL SCENE. Journal of Experimental Biology, 2004, 207, vii-vii.	0.8	0
67	MITOCHONDRIA ON THE ROCKS. Journal of Experimental Biology, 2004, 207, v-v.	0.8	0
68	ErrÂ and Gabpa/b specify PGC-1Â-dependent oxidative phosphorylation gene expression that is altered in diabetic muscle. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6570-6575.	3.3	627
69	Suppression of mitochondrial respiration through recruitment of p160 myb binding protein to PGC-1Â: modulation by p38 MAPK. Genes and Development, 2004, 18, 278-289.	2.7	263
70	Defects in Adaptive Energy Metabolism with CNS-Linked Hyperactivity in PGC-1Î± Null Mice. Cell, 2004, 119, 121-135.	13.5	1,074
71	Superoxide and hydrogen peroxide production by Drosophila mitochondria. Free Radical Biology and Medicine, 2003, 35, 938-948.	1.3	279
72	Bioenergetic Analysis of Peroxisome Proliferator-activated Receptor Î³ Coactivators 1Î± and 1Î² (PGC-1Î± and) Tj ETQq0 0 0 rgBT /Overlo	1.6	490

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73	`DON'T HOLD YOUR BREATH', OR SHOULD YOU?. Journal of Experimental Biology, 2003, 206, 1769-1770.	0.8	0
74	SLEEPY MITOCHONDRIA. Journal of Experimental Biology, 2003, 206, 2907-2908.	0.8	0
75	Superoxide-mediated activation of uncoupling protein 2 causes pancreatic Î² cell dysfunction. Journal of Clinical Investigation, 2003, 112, 1831-1842.	3.9	164
76	Superoxide-mediated activation of uncoupling protein 2 causes pancreatic Î² cell dysfunction. Journal of Clinical Investigation, 2003, 112, 1831-1842.	3.9	300
77	Topology of Superoxide Production from Different Sites in the Mitochondrial Electron Transport Chain. Journal of Biological Chemistry, 2002, 277, 44784-44790.	1.6	1,316
78	Primary causes of decreased mitochondrial oxygen consumption during metabolic depression in snail cells. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 282, R372-R382.	0.9	52
79	Superoxide activates mitochondrial uncoupling proteins. Nature, 2002, 415, 96-99.	13.7	1,236
80	Going with the flow or life in the fast lane: contrasting mitochondrial responses to thermal change. Journal of Experimental Biology, 2002, 205, 2237-2249.	0.8	154
81	Adaptive plasticity of skeletal muscle energetics in hibernating frogs:mitochondrial proton leak during metabolic depression. Journal of Experimental Biology, 2002, 205, 2287-2296.	0.8	62
82	Aerobic Capacity of Frog Skeletal Muscle during Hibernation. Physiological and Biochemical Zoology, 2001, 74, 390-397.	0.6	54
83	AMP decreases the efficiency of skeletal-muscle mitochondria. Biochemical Journal, 2000, 351, 307.	1.7	14
84	AMP decreases the efficiency of skeletal-muscle mitochondria. Biochemical Journal, 2000, 351, 307-311.	1.7	49
85	Surviving hypoxia without really dying. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2000, 126, 481-490.	0.8	127
86	Metabolic depression and enhanced O2 affinity of mitochondria in hypoxic hypometabolism. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 279, R1205-R1214.	0.9	35
87	Mitochondria as ATP consumers: Cellular treason in anoxia. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 8670-8674.	3.3	151
88	Mitochondrial Proton Conductance, Standard Metabolic Rate and Metabolic Depression. , 2000, , 413-430.		10
89	Seasonal cycles of mitochondrial ADP sensitivity and oxidative capacities in trout oxidative muscle. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1999, 169, 474-480.	0.7	31
90	Title is missing!. Fish Physiology and Biochemistry, 1997, 16, 531-541.	0.9	62

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91	Translational and HIF11-Dependent Metabolic Reprograming Underpin Oncometabolome Plasticity and Synergy Between Oncogenic Kinase Inhibitors and Biguanides. SSRN Electronic Journal, 0, , .	0.4	1