M Celeste Simon

List of Publications by Year
in descending order

94 papers	18,479 citations	46984 47 h-index	45285 90 g-index
97 all docs	97 docs citations	97 times ranked	25206 citing authors

#	Article	IF	Citations
1	Succinate links TCA cycle dysfunction to oncogenesis by inhibiting HIF-Î± prolyl hydroxylase. Cancer Cell, 2005, 7, 77-85.	7.7	1,764
2	HIF1Î± and HIF2Î±: sibling rivalry in hypoxic tumour growth and progression. Nature Reviews Cancer, 2012, 12, 9-22.	12.8	1,391
3	Mitochondrial complex III is required for hypoxia-induced ROS production and cellular oxygen sensing. Cell Metabolism, 2005, 1, 401-408.	7.2	1,321
4	Differential Roles of Hypoxia-Inducible Factor 1Î± (HIF-1Î±) and HIF-2Î± in Hypoxic Gene Regulation. Molecular and Cellular Biology, 2003, 23, 9361-9374.	1.1	1,234
5	The tumor microenvironment. Current Biology, 2020, 30, R921-R925.	1.8	1,002
6	Hypoxia-Induced Angiogenesis: Good and Evil. Genes and Cancer, 2011, 2, 1117-1133.	0.6	893
7	The role of oxygen availability in embryonic development and stem cell function. Nature Reviews Molecular Cell Biology, 2008, 9, 285-296.	16.1	806
8	Glutathione metabolism in cancer progression and treatment resistance. Journal of Cell Biology, 2018, 217, 2291-2298.	2.3	762
9	Cellular adaptation to hypoxia through hypoxia inducible factors and beyond. Nature Reviews Molecular Cell Biology, 2020, 21, 268-283.	16.1	595
10	Mitochondrial dysfunction resulting from loss of cytochrome c impairs cellular oxygen sensing and hypoxic HIF-Î± activation. Cell Metabolism, 2005, 1, 393-399.	7.2	566
11	Hypoxia-Induced Energy Stress Regulates mRNA Translation and Cell Growth. Molecular Cell, 2006, 21, 521-531.	4.5	541
12	HIF-Î± Effects on c-Myc Distinguish Two Subtypes of Sporadic VHL-Deficient Clear Cell Renal Carcinoma. Cancer Cell, 2008, 14, 435-446.	7.7	441
13	Fructose-1,6-bisphosphatase opposes renal carcinoma progression. Nature, 2014, 513, 251-255.	13.7	416
14	A Novel Hypoxia-inducible Factor-independent Hypoxic Response Regulating Mammalian Target of Rapamycin and Its Targets. Journal of Biological Chemistry, 2003, 278, 29655-29660.	1.6	402
15	Hypoxia, lipids, and cancer: surviving the harsh tumor microenvironment. Trends in Cell Biology, 2014, 24, 472-478.	3.6	384
16	PML inhibits HIF-1Î± translation and neoangiogenesis through repression of mTOR. Nature, 2006, 442, 779-785.	13.7	354
17	Serine Catabolism Regulates Mitochondrial Redox Control during Hypoxia. Cancer Discovery, 2014, 4, 1406-1417.	7.7	342
18	Oxygen availability and metabolic adaptations. Nature Reviews Cancer, 2016, 16, 663-673.	12.8	318

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19	ATF4 Regulates MYC-Mediated Neuroblastoma Cell Death upon Glutamine Deprivation. Cancer Cell, 2012, 22, 631-644.	7.7	309
20	Multiple Factors Affecting Cellular Redox Status and Energy Metabolism Modulate Hypoxia-Inducible Factor Prolyl Hydroxylase Activity In Vivo and In Vitro. Molecular and Cellular Biology, 2007, 27, 912-925.	1.1	295
21	HIF2Î±-Dependent Lipid Storage Promotes Endoplasmic Reticulum Homeostasis in Clear-Cell Renal Cell Carcinoma. Cancer Discovery, 2015, 5, 652-667.	7.7	278
22	Hypoxia-Dependent Modification of Collagen Networks Promotes Sarcoma Metastasis. Cancer Discovery, 2013, 3, 1190-1205.	7.7	224
23	MYC Disrupts the Circadian Clock and Metabolism in Cancer Cells. Cell Metabolism, 2015, 22, 1009-1019.	7.2	217
24	Triglycerides Promote Lipid Homeostasis during Hypoxic Stress by Balancing Fatty Acid Saturation. Cell Reports, 2018, 24, 2596-2605.e5.	2.9	208
25	<i>Hif1a</i> Deletion Reveals Pro-Neoplastic Function of B Cells in Pancreatic Neoplasia. Cancer Discovery, 2016, 6, 256-269.	7.7	187
26	Dysregulated mTORC1 renders cells critically dependent on desaturated lipids for survival under tumor-like stress. Genes and Development, 2013, 27, 1115-1131.	2.7	170
27	Oxygen availability and metabolic reprogramming in cancer. Journal of Biological Chemistry, 2017, 292, 16825-16832.	1.6	145
28	Tumor-Derived Retinoic Acid Regulates Intratumoral Monocyte Differentiation to Promote Immune Suppression. Cell, 2020, 180, 1098-1114.e16.	13.5	140
29	Nontranscriptional Role of Hif-1Î± in Activation of Î³-Secretase and Notch Signaling in Breast Cancer. Cell Reports, 2014, 8, 1077-1092.	2.9	122
30	Even Cancer Cells Watch Their Cholesterol!. Molecular Cell, 2019, 76, 220-231.	4.5	118
31	HIF-2Î± deletion promotes Kras-driven lung tumor development. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14182-14187.	3.3	117
32	Cancer Cells Donâ€™t Live Alone: Metabolic Communication within Tumor Microenvironments. Developmental Cell, 2020, 54, 183-195.	3.1	114
33	FBP1 loss disrupts liver metabolism and promotes tumorigenesis through a hepatic stellate cell senescence secretome. Nature Cell Biology, 2020, 22, 728-739.	4.6	110
34	Hypoxia-mediated Selective mRNA Translation by an Internal Ribosome Entry Site-independent Mechanism. Journal of Biological Chemistry, 2008, 283, 16309-16319.	1.6	108
35	Coming up for air: HIF-1 and mitochondrial oxygen consumption. Cell Metabolism, 2006, 3, 150-151.	7.2	107
36	Intratumoral oxygen gradients mediate sarcoma cell invasion. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9292-9297.	3.3	105

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37	IRE1Î± RNaseâ€"dependent lipid homeostasis promotes survival in Myc-transformed cancers. Journal of Clinical Investigation, 2018, 128, 1300-1316.	3.9	96
38	Genetic and metabolic hallmarks of clear cell renal cell carcinoma. Biochimica Et Biophysica Acta: Reviews on Cancer, 2018, 1870, 23-31.	3.3	92
39	A liver Hif-2Î±â€"Irs2 pathway sensitizes hepatic insulin signaling and is modulated by Vegf inhibition. Nature Medicine, 2013, 19, 1331-1337.	15.2	90
40	Deregulation of the Hippo pathway in soft-tissue sarcoma promotes FOXM1 expression and tumorigenesis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3402-11.	3.3	90
41	Hypoxia-Inducible Factor and the Development of Stem Cells of the Cardiovascular System. Stem Cells, 2001, 19, 279-286.	1.4	86
42	Arginase 2 Suppresses Renal Carcinoma Progression via Biosynthetic Cofactor Pyridoxal Phosphate Depletion and Increased Polyamine Toxicity. Cell Metabolism, 2018, 27, 1263-1280.e6.	7.2	85
43	m6A-independent genome-wide METTL3 and METTL14 redistribution drives the senescence-associated secretory phenotype. Nature Cell Biology, 2021, 23, 355-365.	4.6	71
44	Moonlighting functions of metabolic enzymes and metabolites in cancer. Molecular Cell, 2021, 81, 3760-3774.	4.5	65
45	Targeting glutamine metabolism slows soft tissue sarcoma growth. Nature Communications, 2020, 11, 498.	5.8	63
46	HIF modulation of Wnt signaling regulates skeletal myogenesis<i>in vivo</i>. Development (Cambridge), 2015, 142, 2405-12.	1.2	60
47	SnapShot: Hypoxia-Inducible Factors. Cell, 2015, 163, 1288-1288.e1.	13.5	54
48	Fructose-1,6-Bisphosphatase 2 Inhibits Sarcoma Progression by Restraining Mitochondrial Biogenesis. Cell Metabolism, 2020, 31, 174-188.e7.	7.2	51
49	Cholesterol Auxotrophy as a Targetable Vulnerability in Clear Cell Renal Cell Carcinoma. Cancer Discovery, 2021, 11, 3106-3125.	7.7	44
50	A Knock-in Mouse Model of Human PHD2 Gene-associated Erythrocytosis Establishes a Haploinsufficiency Mechanism. Journal of Biological Chemistry, 2013, 288, 33571-33584.	1.6	43
51	Ischemia Induces Quiescence and Autophagy Dependence in Hepatocellular Carcinoma. Radiology, 2017, 283, 702-710.	3.6	43
52	Hypoxia-Inducible Factors Regulate Filaggrin Expression and Epidermal Barrier Function. Journal of Investigative Dermatology, 2015, 135, 454-461.	0.3	41
53	Hidden features: exploring the non-canonical functions of metabolic enzymes. DMM Disease Models and Mechanisms, 2018, 11, .	1.2	41
54	GCN2 inhibition sensitizes arginine-deprived hepatocellular carcinoma cells to senolytic treatment. Cell Metabolism, 2022, 34, 1151-1167.e7.	7.2	40

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55	DNA methylation repels binding of hypoxia-inducible transcription factors to maintain tumor immunotolerance. Genome Biology, 2020, 21, 182.	3.8	39
56	The Hypoxia Response Pathways â€" Hats Off!. New England Journal of Medicine, 2016, 375, 1687-1689.	13.9	38
57	PI3K/Akt pathway and Nanog maintain cancer stem cells in sarcomas. Oncogenesis, 2021, 10, 12.	2.1	38
58	The aryl hydrocarbon receptor nuclear translocator is an essential regulator of murine hematopoietic stem cell viability. Blood, 2015, 125, 3263-3272.	0.6	37
59	Oncogenes strike a balance between cellular growth and homeostasis. Seminars in Cell and Developmental Biology, 2015, 43, 3-10.	2.3	36
60	Endothelial Hypoxia-Inducible Factor-2Î± Is Required for the Maintenance of Airway Microvasculature. Circulation, 2019, 139, 502-517.	1.6	35
61	Gamma-Glutamyltransferase 1 Promotes Clear Cell Renal Cell Carcinoma Initiation and Progression. Molecular Cancer Research, 2019, 17, 1881-1892.	1.5	34
62	Multivariate signaling regulation by SHP2 differentially controls proliferation and therapeutic response in glioma cells. Journal of Cell Science, 2014, 127, 3555-67.	1.2	32
63	Segmental Transarterial Embolization in a Translational Rat Model of Hepatocellular Carcinoma. Journal of Vascular and Interventional Radiology, 2015, 26, 1229-1237.	0.2	32
64	Metabolic Enzyme DLST Promotes Tumor Aggression and Reveals a Vulnerability to OXPHOS Inhibition in High-Risk Neuroblastoma. Cancer Research, 2021, 81, 4417-4430.	0.4	31
65	Sprouty2 Drives Drug Resistance and Proliferation in Glioblastoma. Molecular Cancer Research, 2015, 13, 1227-1237.	1.5	29
66	Platelet-derived growth factor receptor-Î± and -Î² promote cancer stem cell phenotypes in sarcomas. Oncogenesis, 2018, 7, 47.	2.1	28
67	Functional Analysis of the Cdk7Â·Cyclin HÂ·Mat1 Complex in Mouse Embryonic Stem Cells and Embryos. Journal of Biological Chemistry, 2010, 285, 15587-15598.	1.6	27
68	Myeloid Cell Hypoxia-Inducible Factors Promote Resolution of Inflammation in Experimental Colitis. Frontiers in Immunology, 2018, 9, 2565.	2.2	24
69	Siah Proteins, HIF Prolyl Hydroxylases, and the Physiological Response to Hypoxia. Cell, 2004, 117, 851-853.	13.5	23
70	BACH1 Orchestrates Lung Cancer Metastasis. Cell, 2019, 178, 265-267.	13.5	21
71	Glycogen metabolism is dispensable for tumour progression in clear cell renal cell carcinoma. Nature Metabolism, 2021, 3, 327-336.	5.1	21
72	Feedback circuitry between <i>miR-218</i> repression and RTK activation in glioblastoma. Science Signaling, 2015, 8, ra42.	1.6	19

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73	Multimodal targeting of tumor vasculature and cancer stem-like cells in sarcomas with VEGF-A inhibition, HIF-1Î± inhibition, and hypoxia-activated chemotherapy. Oncotarget, 2016, 7, 42844-42858.	0.8	18
74	PPARÎ³ is dispensable for clear cell renal cell carcinoma progression. Molecular Metabolism, 2018, 14, 139-149.	3.0	17
75	PIK3R3, part of the regulatory domain of PI3K, is upregulated in sarcoma stem-like cells and promotes invasion, migration, and chemotherapy resistance. Cell Death and Disease, 2021, 12, 749.	2.7	16
76	Cellular adaptation to oxygen deficiency beyond the Nobel award. Nature Communications, 2020, 11, 607.	5.8	15
77	Hypoxia-Inducible Factors in Cancer. Cancer Research, 2022, 82, 195-196.	0.4	15
78	Hypoxia-Inducible Factor Signaling in Macrophages Promotes Lymphangiogenesis in Leishmania major Infection. Infection and Immunity, 2021, 89, e0012421.	1.0	14
79	ASS1 and ASL suppress growth in clear cell renal cell carcinoma via altered nitrogen metabolism. Cancer & Metabolism, 2021, 9, 40.	2.4	14
80	Transcriptional control of kidney cancer. Science, 2018, 361, 226-227.	6.0	9
81	Hif1Î± Deletion Limits Tissue Regeneration via Aberrant B Cell Accumulation in Experimental Pancreatitis. Cell Reports, 2018, 23, 3457-3464.	2.9	8
82	E2A Antagonizes PU.1 Activity through Inhibition of DNA Binding. BioMed Research International, 2016, 2016, 1-11.	0.9	7
83	Cell-Intrinsic Tumorigenic Functions of PPARÎ³ in Bladder Urothelial Carcinoma. Molecular Cancer Research, 2021, 19, 598-611.	1.5	7
84	NAD+ regeneration drives cancer cell proliferation. Nature Metabolism, 2022, 4, 647-648.	5.1	3
85	Hypoxia response becomes crystal clear. Nature, 2015, 524, 298-299.	13.7	2
86	Clarifying the translational potential of B-I09. Nature Chemical Biology, 2020, 16, 1152-1152.	3.9	2
87	Glucagon signaling via supraphysiologic GCGR can reduce cell viability without stimulating gluconeogenic gene expression in liver cancer cells. Cancer & Metabolism, 2022, 10, 4.	2.4	2
88	Perseverance when the going gets tough. Nature Cell Biology, 2018, 20, 1008-1008.	4.6	0
89	A powerful tool to study metabolic reprogramming in pediatric cancers. Med, 2021, 2, 350-352.	2.2	0
90	E47 Binds to PU.1 Inhibiting Its Ability To Bind DNA and Activate Gene Expression.. Blood, 2004, 104, 1609-1609.	0.6	0

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91	Gfi-1 Represses PU.1 Activity To Promote Granulocyte over Macrophage Differentiation.. Blood, 2005, 106, 2722-2722.	0.6	0
92	Oxygen Sensing by the HIF Pathway. FASEB Journal, 2008, 22, 249.3.	0.2	0
93	Oxygen Availability and Stem Cells: Impact On Development and Disease. Blood, 2011, 118, SCI-37-SCI-37.	0.6	0
94	Metabolism, Inflammation, and Tumor Progression. FASEB Journal, 2018, 32, 250.2.	0.2	0