Gregg L Semenza

List of Publications by Year
in descending order

Version: 2024-02-01

384 papers	106,275 citations	151 156 h-index	182 318 g-index
395 all docs	395 docs citations	395 times ranked	83967 citing authors

#	Article	IF	Citations
1	Targeting HIF-1 for cancer therapy. Nature Reviews Cancer, 2003, 3, 721-732.	12.8	6,111
2	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
3	HIF-1-mediated expression of pyruvate dehydrogenase kinase: A metabolic switch required for cellular adaptation to hypoxia. Cell Metabolism, 2006, 3, 177-185.	7.2	3,112
4	Hypoxia-Inducible Factors in Physiology and Medicine. Cell, 2012, 148, 399-408.	13.5	2,540
5	HIF-1: mediator of physiological and pathophysiological responses to hypoxia. Journal of Applied Physiology, 2000, 88, 1474-1480.	1.2	1,855
6	Regulation of Mammalian O2Homeostasis by Hypoxia-Inducible Factor 1. Annual Review of Cell and Developmental Biology, 1999, 15, 551-578.	4.0	1,775
7	Purification and Characterization of Hypoxia-inducible Factor 1. Journal of Biological Chemistry, 1995, 270, 1230-1237.	1.6	1,755
8	Defining the role of hypoxia-inducible factor 1 in cancer biology and therapeutics. Oncogene, 2010, 29, 625-634.	2.6	1,506
9	Hypoxia Response Elements in the Aldolase A, Enolase 1, and Lactate Dehydrogenase A Gene Promoters Contain Essential Binding Sites for Hypoxia-inducible Factor 1. Journal of Biological Chemistry, 1996, 271, 32529-32537.	1.6	1,474
10	Mitochondrial Autophagy Is an HIF-1-dependent Adaptive Metabolic Response to Hypoxia. Journal of Biological Chemistry, 2008, 283, 10892-10903.	1.6	1,424
11	Control of TH17/Treg Balance by Hypoxia-Inducible Factor 1. Cell, 2011, 146, 772-784.	13.5	1,304
12	Hypoxia-inducible factors: mediators of cancer progression and targets for cancer therapy. Trends in Pharmacological Sciences, 2012, 33, 207-214.	4.0	1,271
13	Pyruvate Kinase M2 Is a PHD3-Stimulated Coactivator for Hypoxia-Inducible Factor 1. Cell, 2011, 145, 732-744.	13.5	1,210
14	FIH-1: a novel protein that interacts with HIF-1alpha and VHL to mediate repression of HIF-1 transcriptional activity. Genes and Development, 2001, 15, 2675-2686.	2.7	1,203
15	HER2 (neu) Signaling Increases the Rate of Hypoxia-Inducible Factor 1Î± (HIF-1Î±) Synthesis: Novel Mechanism for HIF-1-Mediated Vascular Endothelial Growth Factor Expression. Molecular and Cellular Biology, 2001, 21, 3995-4004.	1.1	1,176
16	Inhibition of lactate dehydrogenase A induces oxidative stress and inhibits tumor progression. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2037-2042.	3.3	1,150
17	HIF-1: upstream and downstream of cancer metabolism. Current Opinion in Genetics and Development, 2010, 20, 51-56.	1.5	1,119
18	Hypoxia and the extracellular matrix: drivers of tumour metastasis. Nature Reviews Cancer, 2014, 14, 430-439.	12.8	1,110

#	Article	IF	Citations
19	HIF-1 Regulates Cytochrome Oxidase Subunits to Optimize Efficiency of Respiration in Hypoxic Cells. Cell, 2007, 129, 111-122.	13.5	1,068
20	Signal transduction to hypoxia-inducible factor 1. Biochemical Pharmacology, 2002, 64, 993-998.	2.0	1,058
21	HIF-1 mediates metabolic responses to intratumoral hypoxia and oncogenic mutations. Journal of Clinical Investigation, 2013, 123, 3664-3671.	3.9	1,017
22	Transcriptional regulation of vascular endothelial cell responses to hypoxia by HIF-1. Blood, 2005, 105, 659-669.	0.6	1,012
23	HIF-1 and mechanisms of hypoxia sensing. Current Opinion in Cell Biology, 2001, 13, 167-171.	2.6	1,008
24	Oncogenic alterations of metabolism. Trends in Biochemical Sciences, 1999, 24, 68-72.	3.7	989
25	Hypoxia-inducible factor 1: master regulator of O2 homeostasis. Current Opinion in Genetics and Development, 1998, 8, 588-594.	1.5	979
26	Dimerization, DNA Binding, and Transactivation Properties of Hypoxia-inducible Factor 1. Journal of Biological Chemistry, 1996, 271, 17771-17778.	1.6	951
27	HIF-1 and tumor progression: pathophysiology and therapeutics. Trends in Molecular Medicine, 2002, 8, S62-S67.	3.5	915
28	Oxygen Sensing, Hypoxia-Inducible Factors, and Disease Pathophysiology. Annual Review of Pathology: Mechanisms of Disease, 2014, 9, 47-71.	9.6	901
29	HIF-1, O2, and the 3 PHDs. Cell, 2001, 107, 1-3.	13.5	886
30	Oxygen Sensing, Homeostasis, and Disease. New England Journal of Medicine, 2011, 365, 537-547.	13.9	877
31	Hypoxia-inducible factor 1: oxygen homeostasis and disease pathophysiology. Trends in Molecular Medicine, 2001, 7, 345-350.	3.5	830
32	Hypoxia induces the breast cancer stem cell phenotype by HIF-dependent and ALKBH5-mediated m ⁶ A-demethylation of NANOG mRNA. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2047-56.	3.3	807
33	Regulation of tumor angiogenesis by p53-induced degradation of hypoxia-inducible factor 1Î±. Genes and Development, 2000, 14, 34-44.	2.7	805
34	HIF-1 Inhibits Mitochondrial Biogenesis and Cellular Respiration in VHL-Deficient Renal Cell Carcinoma by Repression of C-MYC Activity. Cancer Cell, 2007, 11, 407-420.	7.7	760
35	Hydroxylation of HIF-1: Oxygen Sensing at the Molecular Level. Physiology, 2004, 19, 176-182.	1.6	732
36	Hypoxia-Inducible Factor 1 (HIF-1) Pathway. Science's STKE: Signal Transduction Knowledge Environment, 2007, 2007, cm8.	4.1	732

#	Article	IF	Citations
37	Regulation of Oxygen Homeostasis by Hypoxia-Inducible Factor 1. Physiology, 2009, 24, 97-106.	1.6	728
38	HIF-1 and human disease: one highly involved factor. Genes and Development, 2000, 14, 1983-1991.	2.7	728
39	Insulin-like Growth Factor 1 Induces Hypoxia-inducible Factor 1-mediated Vascular Endothelial Growth Factor Expression, Which is Dependent on MAP Kinase and Phosphatidylinositol 3-Kinase Signaling in Colon Cancer Cells. Journal of Biological Chemistry, 2002, 277, 38205-38211.	1.6	700
40	Hypoxia-Inducible Factors: Master Regulators of Cancer Progression. Trends in Cancer, 2016, 2, 758-770.	3.8	678
41	Hypoxia-inducible Factor-1 Mediates Transcriptional Activation of the Heme Oxygenase-1 Gene in Response to Hypoxia. Journal of Biological Chemistry, 1997, 272, 5375-5381.	1.6	670
42	Metabolic Regulation of Hematopoietic Stem Cells in the Hypoxic Niche. Cell Stem Cell, 2011, 9, 298-310.	5.2	670
43	Life with Oxygen. Science, 2007, 318, 62-64.	6.0	630
44	In VivoExpression of mRNAs Encoding Hypoxia-Inducible Factor 1. Biochemical and Biophysical Research Communications, 1996, 225, 485-488.	1.0	629
45	HIF-1 and human disease: one highly involved factor. Genes and Development, 2000, 14, 1983-91.	2.7	598
46	Impaired physiological responses to chronic hypoxia in mice partially deficient for hypoxia-inducible factor 1Î±. Journal of Clinical Investigation, 1999, 103, 691-696.	3.9	592
47	Expression of hypoxia-inducible factor 1? in brain tumors. Cancer, 2000, 88, 2606-2618.	2.0	570
48	Digoxin and other cardiac glycosides inhibit HIF-1Î± synthesis and block tumor growth. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19579-19586.	3.3	568
49	Cell Typeâ€“Specific Regulation of Angiogenic Growth Factor Gene Expression and Induction of Angiogenesis in Nonischemic Tissue by a Constitutively Active Form of Hypoxia-Inducible Factor 1. Circulation Research, 2003, 93, 1074-1081.	2.0	561
50	Hypoxia: Importance in tumor biology, noninvasive measurement by imaging, and value of its measurement in the management of cancer therapy. International Journal of Radiation Biology, 2006, 82, 699-757.	1.0	561
51	Transactivation and Inhibitory Domains of Hypoxia-inducible Factor 1Î±. Journal of Biological Chemistry, 1997, 272, 19253-19260.	1.6	557
52	Hypoxia, Clonal Selection, and the Role of HIF-1 in Tumor Progression. Critical Reviews in Biochemistry and Molecular Biology, 2000, 35, 71-103.	2.3	557
53	Levels of Hypoxia-Inducible Factor-1Â During Breast Carcinogenesis. Journal of the National Cancer Institute, 2001, 93, 309-314.	3.0	554
54	Hypoxia-Inducible Factor 1 and Dysregulated c-Myc Cooperatively Induce Vascular Endothelial Growth Factor and Metabolic Switches Hexokinase 2 and Pyruvate Dehydrogenase Kinase 1. Molecular and Cellular Biology, 2007, 27, 7381-7393.	1.1	540

#	Article	IF	Citations
55	Hearts From Rodents Exposed to Intermittent Hypoxia or Erythropoietin Are Protected Against Ischemia-Reperfusion Injury. Circulation, 2003, 108, 79-85.	1.6	533
56	Targeting Stat3 blocks both HIF-1 and VEGF expression induced by multiple oncogenic growth signaling pathways. Oncogene, 2005, 24, 5552-5560.	2.6	523
57	Oxygen-dependent regulation of mitochondrial respiration by hypoxia-inducible factor 1. Biochemical Journal, 2007, 405, 1-9.	1.7	509
58	Adaptive and Maladaptive Cardiorespiratory Responses to Continuous and Intermittent Hypoxia Mediated by Hypoxia-Inducible Factors 1 and 2. Physiological Reviews, 2012, 92, 967-1003.	13.1	502
59	Biologic Correlates of ¹⁸Fluorodeoxyglucose Uptake in Human Breast Cancer Measured by Positron Emission Tomography. Journal of Clinical Oncology, 2002, 20, 379-387.	0.8	483
60	Insulin Stimulates Hypoxia-inducible Factor 1 through a Phosphatidylinositol 3-Kinase/Target of Rapamycin-dependent Signaling Pathway. Journal of Biological Chemistry, 2002, 277, 27975-27981.	1.6	477
61	Levels of hypoxia-inducible factor-1? independently predict prognosis in patients with lymph node negative breast carcinoma. Cancer, 2003, 97, 1573-1581.	2.0	472
62	Hypoxia-Inducible Factor 1 and Cardiovascular Disease. Annual Review of Physiology, 2014, 76, 39-56.	5.6	470
63	Disruption of oxygen homeostasis underlies congenital Chuvash polycythemia. Nature Genetics, 2002, 32, 614-621.	9.4	469
64	HIF-Dependent Antitumorigenic Effect of Antioxidants In Vivo. Cancer Cell, 2007, 12, 230-238.	7.7	466
65	Regulation of colon carcinoma cell invasion by hypoxia-inducible factor 1. Cancer Research, 2003, 63, 1138-43.	0.4	456
66	Expression of hypoxia-inducible factor 1: mechanisms and consequences. Biochemical Pharmacology, 2000, 59, 47-53.	2.0	451
67	Hypoxia-inducible factor-1-dependent mechanisms of vascularization and vascular remodelling. Cardiovascular Research, 2010, 86, 236-242.	1.8	443
68	Expression of angiogenesis-related molecules in plexiform lesions in severe pulmonary hypertension: evidence for a process of disordered angiogenesis. Journal of Pathology, 2001, 195, 367-374.	2.1	438
69	Acriflavine inhibits HIF-1 dimerization, tumor growth, and vascularization. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17910-17915.	3.3	426
70	Regulation of angiogenesis by hypoxia-inducible factor 1. Critical Reviews in Oncology/Hematology, 2006, 59, 15-26.	2.0	423
71	RACK1 Competes with HSP90 for Binding to HIF-1Î± and Is Required for O2-Independent and HSP90 Inhibitor-Induced Degradation of HIF-1Î±. Molecular Cell, 2007, 25, 207-217.	4.5	422
72	Hypoxia-inducible factors are required for chemotherapy resistance of breast cancer stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5429-38.	3.3	419

#	Article	IF	Citations
73	The hypoxic tumor microenvironment: A driving force for breast cancer progression. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 382-391.	1.9	418
74	Regulation of cancer cell metabolism by hypoxia-inducible factor 1. Seminars in Cancer Biology, 2009, 19, 12-16.	4.3	410
75	Hypoxia-inducible Factor 1 (HIF-1) Promotes Extracellular Matrix Remodeling under Hypoxic Conditions by Inducing P4HA1, P4HA2, and PLOD2 Expression in Fibroblasts. Journal of Biological Chemistry, 2013, 288, 10819-10829.	1.6	406
76	Hypoxia-Inducible Factor-1-Dependent Repression of E-cadherin in von Hippel-Lindau Tumor Suppressorâ€“Null Renal Cell Carcinoma Mediated by TCF3, ZFHX1A, and ZFHX1B. Cancer Research, 2006, 66, 2725-2731.	0.4	388
77	Hypoxia-inducible factor 1: Regulator of mitochondrial metabolism and mediator of ischemic preconditioning. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 1263-1268.	1.9	380
78	Induction of hypoxia-inducible factor-1 (HIF-1) and its target genes following focal ischaemia in rat brain. European Journal of Neuroscience, 1999, 11, 4159-4170.	1.2	377
79	Hypoxia-inducible factor 1 is a master regulator of breast cancer metastatic niche formation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16369-16374.	3.3	375
80	Defective Vascularization of HIF-1Î±-Null Embryos Is Not Associated with VEGF Deficiency but with Mesenchymal Cell Death. Developmental Biology, 1999, 209, 254-267.	0.9	372
81	Role of hypoxia-inducible factor-1 in hypoxia-induced ischemic tolerance in neonatal rat brain. Annals of Neurology, 2000, 48, 285-296.	2.8	370
82	Hypoxia-inducible factors and RAB22A mediate formation of microvesicles that stimulate breast cancer invasion and metastasis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3234-42.	3.3	367
83	HIF-1Î±, pimonidazole, and iododeoxyuridine to estimate hypoxia and perfusion in human head-and-neck tumors. International Journal of Radiation Oncology Biology Physics, 2002, 54, 1537-1549.	0.4	364
84	Perspectives on Oxygen Sensing. Cell, 1999, 98, 281-284.	13.5	363
85	Angiogenesis Ischemic and Neoplastic Disorders. Annual Review of Medicine, 2003, 54, 17-28.	5.0	359
86	Evaluation of HIF-1 inhibitors as anticancer agents. Drug Discovery Today, 2007, 12, 853-859.	3.2	355
87	HIF-1Î±, STAT3, CBP/p300 and Ref-1/APE are components of a transcriptional complex that regulates Src-dependent hypoxia-induced expression of VEGF in pancreatic and prostate carcinomas. Oncogene, 2005, 24, 3110-3120.	2.6	353
88	Heterozygous HIF-1Î± deficiency impairs carotid body-mediated systemic responses and reactive oxygen species generation in mice exposed to intermittent hypoxia. Journal of Physiology, 2006, 577, 705-716.	1.3	339
89	Hypoxia Inhibits G1/S Transition through Regulation of p27 Expression. Journal of Biological Chemistry, 2001, 276, 7919-7926.	1.6	322
90	A genetic mechanism for Tibetan high-altitude adaptation. Nature Genetics, 2014, 46, 951-956.	9.4	322

#	Article	IF	Citations
91	Hypoxia Inducible Factor 1 Mediates Hypoxia-Induced TRPC Expression and Elevated Intracellular Ca 2+ in Pulmonary Arterial Smooth Muscle Cells. Circulation Research, 2006, 98, 1528-1537.	2.0	321
92	Regulation of Osteogenesis-Angiogenesis Coupling by HIFs and VEGF. Journal of Bone and Mineral Research, 2009, 24, 1347-1353.	3.1	321
93	HIF-1 regulates CD47 expression in breast cancer cells to promote evasion of phagocytosis and maintenance of cancer stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6215-23.	3.3	299
94	Induction of HIFâ€1Î± expression by intermittent hypoxia: Involvement of NADPH oxidase, Ca²⁺ signaling, prolyl hydroxylases, and mTOR. Journal of Cellular Physiology, 2008, 217, 674-685.	2.0	294
95	Oxygen homeostasis. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2010, 2, 336-361.	6.6	288
96	Emerging roles of PKM2 in cell metabolism and cancer progression. Trends in Endocrinology and Metabolism, 2012, 23, 560-566.	3.1	284
97	Anthracycline chemotherapy inhibits HIF-1 transcriptional activity and tumor-induced mobilization of circulating angiogenic cells. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2353-2358.	3.3	275
98	Vasculogenesis, angiogenesis, and arteriogenesis: Mechanisms of blood vessel formation and remodeling. Journal of Cellular Biochemistry, 2007, 102, 840-847.	1.2	269
99	Hypoxiaâ€inducible factors: coupling glucose metabolism and redox regulation with induction ofÂthe breast cancer stem cell phenotype. EMBO Journal, 2017, 36, 252-259.	3.5	267
100	Effects of Aging and Hypoxia-Inducible Factor-1 Activity on Angiogenic Cell Mobilization and Recovery of Perfusion After Limb Ischemia. Circulation Research, 2007, 101, 1310-1318.	2.0	266
101	The Ubiquitin Ligase Stub1 Negatively Modulates Regulatory T Cell Suppressive Activity by Promoting Degradation of the Transcription Factor Foxp3. Immunity, 2013, 39, 272-285.	6.6	260
102	HIF-1-Mediated Suppression of Acyl-CoA Dehydrogenases and Fatty Acid Oxidation Is Critical for Cancer Progression. Cell Reports, 2014, 8, 1930-1942.	2.9	258
103	Age-dependent Defect in Vascular Endothelial Growth Factor Expression Is Associated with Reduced Hypoxia-inducible Factor 1 Activity. Journal of Biological Chemistry, 2000, 275, 29643-29647.	1.6	256
104	HIF-1 mediates the Warburg effect in clear cell renal carcinoma. Journal of Bioenergetics and Biomembranes, 2007, 39, 231-234.	1.0	255
105	HIF and the Lung. American Journal of Respiratory and Critical Care Medicine, 2011, 183, 152-156.	2.5	255
106	Tumor metabolism: cancer cells give and take lactate. Journal of Clinical Investigation, 2008, 118, 3835-7.	3.9	254
107	Surviving ischemia: adaptive responses mediated by hypoxia-inducible factor 1. Journal of Clinical Investigation, 2000, 106, 809-812.	3.9	252
108	Collagen Prolyl Hydroxylases Are Essential for Breast Cancer Metastasis. Cancer Research, 2013, 73, 3285-3296.	0.4	251

#	Article	IF	Citations
109	Stromal Cellâ€“Derived Factor-1Î± and CXCR4 Expression in Hemangioblastoma and Clear Cell-Renal Cell Carcinoma: von Hippel-Lindau Loss-of-Function Induces Expression of a Ligand and Its Receptor. Cancer Research, 2005, 65, 6178-6188.	0.4	250
110	Defective carotid body function and impaired ventilatory responses to chronic hypoxia in mice partially deficient for hypoxia-inducible factor 1Â. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 821-826.	3.3	243
111	O2-regulated gene expression: transcriptional control of cardiorespiratory physiology by HIF-1. Journal of Applied Physiology, 2004, 96, 1173-1177.	1.2	242
112	Chemotherapy induces enrichment of CD47 ⁺ /CD73 ⁺ /PDL1 ⁺ immune evasive triple-negative breast cancer cells. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1239-E1248.	3.3	238
113	Hypoxia-Inducible Factor 1: Control of Oxygen Homeostasis in Health and Disease. Pediatric Research, 2001, 49, 614-617.	1.1	235
114	Vascular endothelial growth factor gene expression in colon cancer cells exposed to prostaglandin E2 is mediated by hypoxia-inducible factor 1. Cancer Research, 2003, 63, 2330-4.	0.4	234
115	Role of Hypoxia-Inducible Factor 1Â in Gastric Cancer Cell Growth, Angiogenesis, and Vessel Maturation. Journal of the National Cancer Institute, 2004, 96, 946-956.	3.0	228
116	Role of hypoxia-inducible factors in breast cancer metastasis. Future Oncology, 2013, 9, 1623-1636.	1.1	225
117	Temporal, spatial, and oxygen-regulated expression of hypoxia-inducible factor-1 in the lung. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1998, 275, L818-L826.	1.3	223
118	Hypoxia, HIF-1, and the Pathophysiologi of Common Human Diseases. , 2000, 475, 123-130.		217
119	Procollagen Lysyl Hydroxylase 2 Is Essential for Hypoxia-Induced Breast Cancer Metastasis. Molecular Cancer Research, 2013, 11, 456-466.	1.5	216
120	HIF-1: using two hands to flip the angiogenic switch. Cancer and Metastasis Reviews, 2000, 19, 59-65.	2.7	215
121	Regulation of hypoxia-inducible factor 1 by prolyl and asparaginyl hydroxylases. Biochemical and Biophysical Research Communications, 2005, 338, 610-616.	1.0	215
122	Hypoxia-inducible factors regulate pluripotency factor expression by ZNF217- and ALKBH5-mediated modulation of RNA methylation in breast cancer cells. Oncotarget, 2016, 7, 64527-64542.	0.8	215
123	Complete loss of ischaemic preconditioning-induced cardioprotection in mice with partial deficiency of HIF-1Â. Cardiovascular Research, 2007, 77, 463-470.	1.8	214
124	Carbon Monoxide and Nitric Oxide Suppress the Hypoxic Induction of Vascular Endothelial Growth Factor Gene via the 5â€² Enhancer. Journal of Biological Chemistry, 1998, 273, 15257-15262.	1.6	210
125	Regulation of cell proliferation by hypoxia-inducible factors. American Journal of Physiology - Cell Physiology, 2015, 309, C775-C782.	2.1	209
126	Ca2+/Calmodulin Kinase-dependent Activation of Hypoxia Inducible Factor 1 Transcriptional Activity in Cells Subjected to Intermittent Hypoxia. Journal of Biological Chemistry, 2005, 280, 4321-4328.	1.6	208

#	Article	IF	Citations
127	Hypoxia-induced resistance to anticancer drugs is associated with decreased senescence and requires hypoxia-inducible factor-1 activity. Molecular Cancer Therapeutics, 2008, 7, 1961-1973.	1.9	205
128	Chemotherapy triggers HIF-1â€“dependent glutathione synthesis and copper chelation that induces the breast cancer stem cell phenotype. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4600-9.	3.3	205
129	OS-9 Interacts with Hypoxia-Inducible Factor 1Î± and Prolyl Hydroxylases to Promote Oxygen-Dependent Degradation of HIF-1Î±. Molecular Cell, 2005, 17, 503-512.	4.5	203
130	Hsp70 and CHIP Selectively Mediate Ubiquitination and Degradation of Hypoxia-inducible Factor (HIF)-1Î± but Not HIF-2Î±. Journal of Biological Chemistry, 2010, 285, 3651-3663.	1.6	201
131	PHGDH Expression Is Required for Mitochondrial Redox Homeostasis, Breast Cancer Stem Cell Maintenance, and Lung Metastasis. Cancer Research, 2016, 76, 4430-4442.	0.4	201
132	Abnormal B lymphocyte development and autoimmunity in hypoxia-inducible factor 1Â-deficient chimeric mice. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2170-2174.	3.3	200
133	Intratumoral hypoxia, radiation resistance, and HIF-1. Cancer Cell, 2004, 5, 405-406.	7.7	199
134	Histone demethylase JMJD2C is a coactivator for hypoxia-inducible factor 1 that is required for breast cancer progression. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E3367-76.	3.3	196
135	Involvement of oxygen-sensing pathways in physiologic and pathologic erythropoiesis. Blood, 2009, 114, 2015-2019.	0.6	195
136	Chaperone-mediated Autophagy Targets Hypoxia-inducible Factor-1Î± (HIF-1Î±) for Lysosomal Degradation. Journal of Biological Chemistry, 2013, 288, 10703-10714.	1.6	195
137	Nitric Oxide Induces Hypoxia-inducible Factor 1 Activation That Is Dependent on MAPK and Phosphatidylinositol 3-Kinase Signaling. Journal of Biological Chemistry, 2004, 279, 2550-2558.	1.6	193
138	Pharmacologic Targeting of Hypoxia-Inducible Factors. Annual Review of Pharmacology and Toxicology, 2019, 59, 379-403.	4.2	193
139	Hypoxia-inducible Factor-1 Deficiency Results in Dysregulated Erythropoiesis Signaling and Iron Homeostasis in Mouse Development. Journal of Biological Chemistry, 2006, 281, 25703-25711.	1.6	191
140	Inhibitors of hypoxia-inducible factor 1 block breast cancer metastatic niche formation and lung metastasis. Journal of Molecular Medicine, 2012, 90, 803-815.	1.7	191
141	Involvement of Hypoxia-Inducible Factor 1 in Human Cancer.. Internal Medicine, 2002, 41, 79-83.	0.3	187
142	Partial HIF-1Î± deficiency impairs pulmonary arterial myocyte electrophysiological responses to hypoxia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2001, 281, L202-L208.	1.3	184
143	Phosphatidylinositol-3-Kinase Signaling Is Required for Erythropoietin-Mediated Acute Protection Against Myocardial Ischemia/Reperfusion Injury. Circulation, 2004, 109, 2050-2053.	1.6	184
144	Molecular mechanisms mediating metastasis of hypoxic breast cancer cells. Trends in Molecular Medicine, 2012, 18, 534-543.	3.5	184

#	Article	IF	Citations
145	Hypoxia-inducible factor 1-dependent expression of platelet-derived growth factor B promotes lymphatic metastasis of hypoxic breast cancer cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2707-16.	3.3	180
146	Combination therapy with BPTES nanoparticles and metformin targets the metabolic heterogeneity of pancreatic cancer. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5328-36.	3.3	180
147	Hypoxiaâ€inducible factor 1 mediates increased expression of NADPH oxidaseâ€2 in response to intermittent hypoxia. Journal of Cellular Physiology, 2011, 226, 2925-2933.	2.0	177
148	Cancerâ€“stromal cell interactions mediated by hypoxia-inducible factors promote angiogenesis, lymphangiogenesis, and metastasis. Oncogene, 2013, 32, 4057-4063.	2.6	177
149	HIF-1 regulates hypoxic induction of NHE1 expression and alkalinization of intracellular pH in pulmonary arterial myocytes. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2006, 291, L941-L949.	1.3	175
150	Hypoxia-Inducible Factor 1 Regulates Vascular Endothelial Growth Factor Expression in Human Pancreatic Cancer. Pancreas, 2003, 26, 56-64.	0.5	174
151	Hypoxia induces type II NOS gene expression in pulmonary artery endothelial cells via HIF-1. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1998, 274, L212-L219.	1.3	172
152	Up-regulation of hypoxia-inducible factor 1Î± is an early event in prostate carcinogenesis. Cancer Detection and Prevention, 2004, 28, 88-93.	2.1	171
153	Hypoxia-inducible factor 1 and breast cancer metastasis. Journal of Zhejiang University: Science B, 2015, 16, 32-43.	1.3	171
154	Hypoxia-inducible factorâ€“dependent breast cancerâ€“mesenchymal stem cell bidirectional signaling promotes metastasis. Journal of Clinical Investigation, 2013, 123, 189-205.	3.9	171
155	Hypoxia-inducible factor-dependent signaling between triple-negative breast cancer cells and mesenchymal stem cells promotes macrophage recruitment. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2120-9.	3.3	170
156	Hypoxia-inducible factors mediate coordinated RhoA-ROCK1 expression and signaling in breast cancer cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E384-93.	3.3	165
157	Pyruvate kinase M2 regulates glucose metabolism by functioning as a coactivator for hypoxia-inducible factor 1 in cancer cells. Oncotarget, 2011, 2, 551-556.	0.8	164
158	The Human Hypoxia-Inducible Factor 1Î± Gene:HIF1AStructure and Evolutionary Conservation. Genomics, 1998, 52, 159-165.	1.3	163
159	Regulation of physiological responses to continuous and intermittent hypoxia by hypoxia-inducible factor 1. Experimental Physiology, 2006, 91, 803-806.	0.9	155
160	Hypoxia and cancer. Cancer and Metastasis Reviews, 2007, 26, 223-224.	2.7	155
161	Chronic Intermittent Hypoxia Induces Atherosclerosis via Activation of Adipose Angiopoietin-like 4. American Journal of Respiratory and Critical Care Medicine, 2013, 188, 240-248.	2.5	155
162	Oxygen Sensing and Homeostasis. Physiology, 2015, 30, 340-348.	1.6	154

#	Article	IF	Citations
163	Altered metabolic responses to intermittent hypoxia in mice with partial deficiency of hypoxia-inducible factor-1Î±. Physiological Genomics, 2006, 25, 450-457.	1.0	153
164	â€˜The Metabolism of Tumoursâ€™: 70 Years Later. Novartis Foundation Symposium, 2008, , 251-264.	1.2	152
165	Negative Regulation of Hypoxic Responses via Induced Reptin Methylation. Molecular Cell, 2010, 39, 71-85.	4.5	152
166	Ageâ€dependent impairment of HIFâ€1Î± expression in diabetic mice: Correction with electroporationâ€facilitated gene therapy increases wound healing, angiogenesis, and circulating angiogenic cells. Journal of Cellular Physiology, 2008, 217, 319-327.	2.0	151
167	Rac1 Activity Is Required for the Activation of Hypoxia-inducible Factor 1. Journal of Biological Chemistry, 2001, 276, 21166-21172.	1.6	149
168	Hypoxia-inducible factor 1 is required for remote ischemic preconditioning of the heart. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17462-17467.	3.3	149
169	Hypoxia-inducible factors: cancer progression and clinical translation. Journal of Clinical Investigation, 2022, 132, .	3.9	148
170	Hypoxiaâ€inducible factor 1 and cancer pathogenesis. IUBMB Life, 2008, 60, 591-597.	1.5	145
171	Oxygen-regulated transcription factors and their role in pulmonary disease. Respiratory Research, 2000, 1, 159-62.	1.4	142
172	Cardiac hypertrophy in chronically anemic fetal sheep: Increased vascularization is associated with increased myocardial expression of vascular endothelial growth factor and hypoxia-inducible factor 1. American Journal of Obstetrics and Gynecology, 1998, 178, 527-534.	0.7	141
173	Regulation of hypoxia-induced angiogenesis: a chaperone escorts VEGF to the dance. Journal of Clinical Investigation, 2001, 108, 39-40.	3.9	140
174	Hypoxia-Inducible Factor 1Î± Polymorphism and Coronary Collaterals in Patients With Ischemic Heart Disease. Chest, 2005, 128, 787-791.	0.4	138
175	Hypoxia-inducible factorâ€“dependent breast cancerâ€“mesenchymal stem cell bidirectional signaling promotes metastasis. Journal of Clinical Investigation, 2013, 123, 1402-1402.	3.9	137
176	Up-regulation of Apoptosis Inhibitory Protein IAP-2 by Hypoxia. Journal of Biological Chemistry, 2001, 276, 18702-18709.	1.6	136
177	Expression of Vascular Endothelial Growth Factor Receptor 1 in Bone Marrow-derived Mesenchymal Cells Is Dependent on Hypoxia-inducible Factor 1*. Journal of Biological Chemistry, 2006, 281, 15554-15563.	1.6	136
178	LPS Induces Hypoxia-Inducible Factor 1 Activation in Macrophage-Differentiated Cells in a Reactive Oxygen Speciesâ€“Dependent Manner. Antioxidants and Redox Signaling, 2008, 10, 983-996.	2.5	136
179	Vascular Responses to Hypoxia and Ischemia. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 648-652.	1.1	135
180	Metabolic adaptation of cancer and immune cells mediated by hypoxia-inducible factors. Biochimica Et Biophysica Acta: Reviews on Cancer, 2018, 1870, 15-22.	3.3	134

#	Article	IF	Citations
181	Adenoviral transfer of HIF-1Î± enhances vascular responses to critical limb ischemia in diabetic mice. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18769-18774.	3.3	131
182	RACK1 vs. HSP90: Competition for HIF-1Î± Degradation vs. Stabilization. Cell Cycle, 2007, 6, 656-659.	1.3	129
183	Chemotherapy-Induced Ca2+ Release Stimulates Breast Cancer Stem Cell Enrichment. Cell Reports, 2017, 18, 1946-1957.	2.9	129
184	Glutaminase 1 expression in colorectal cancer cells is induced by hypoxia and required for tumor growth, invasion, and metastatic colonization. Cell Death and Disease, 2019, 10, 40.	2.7	129
185	Sirtuin-7 Inhibits the Activity of Hypoxia-inducible Factors. Journal of Biological Chemistry, 2013, 288, 20768-20775.	1.6	127
186	HIF-1â€“Dependent Respiratory, Cardiovascular, and Redox Responses to Chronic Intermittent Hypoxia. Antioxidants and Redox Signaling, 2007, 9, 1391-1396.	2.5	126
187	Hypoxic retinal MÃ¼ller cells promote vascular permeability by HIF-1â€“dependent up-regulation of angiopoietin-like 4. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3425-34.	3.3	126
188	Calcineurin Promotes Hypoxia-inducible Factor 1Î± Expression by Dephosphorylating RACK1 and Blocking RACK1 Dimerization. Journal of Biological Chemistry, 2007, 282, 37064-37073.	1.6	125
189	Hypoxia Regulates CD44 and Its Variant Isoforms through HIF-1Î± in Triple Negative Breast Cancer. PLoS ONE, 2012, 7, e44078.	1.1	125
190	Endothelial expression of hypoxia-inducible factor 1 protects the murine heart and aorta from pressure overload by suppression of TGF-Î² signaling. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E841-50.	3.3	124
191	Constitutively active HIF-1Î± improves perfusion and arterial remodeling in an endovascular model of limb ischemia. Cardiovascular Research, 2005, 68, 144-154.	1.8	122
192	ROS Signaling in Systemic and Cellular Responses to Chronic Intermittent Hypoxia. Antioxidants and Redox Signaling, 2007, 9, 1397-1404.	2.5	121
193	HIF-1 mediates pathogenic inflammatory responses to intestinal ischemia-reperfusion injury. American Journal of Physiology - Renal Physiology, 2010, 299, G833-G843.	1.6	121
194	Epigenetic regulation of hypoxic sensing disrupts cardiorespiratory homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2515-2520.	3.3	120
195	HIF-1Î±-targeted pathways are activated by heat acclimation and contribute to acclimation-ischemic cross-tolerance in the heart. Physiological Genomics, 2005, 23, 79-88.	1.0	119
196	Hypoxia-inducible factor 1-dependent expression of adenosine receptor 2B promotes breast cancer stem cell enrichment. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9640-E9648.	3.3	116
197	Synergistic effect of HIF-1Î± gene therapy and HIF-1-activated bone marrow-derived angiogenic cells in a mouse model of limb ischemia. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20399-20404.	3.3	115
198	Selective Inhibition of Hypoxia-Inducible Factor (HIF) Prolyl-Hydroxylase 1 Mediates Neuroprotection against Normoxic Oxidative Death via HIF- and CREB-Independent Pathways. Journal of Neuroscience, 2009, 29, 8828-8838.	1.7	115

#	Article	IF	Citations
199	VEGF Secreted by Hypoxic MÃ¼ller Cells Induces MMP-2 Expression and Activity in Endothelial Cells to Promote Retinal Neovascularization in Proliferative Diabetic Retinopathy. Diabetes, 2013, 62, 3863-3873.	0.3	111
200	Development of novel therapeutic strategies that target HIF-1. Expert Opinion on Therapeutic Targets, 2006, 10, 267-280.	1.5	110
201	Activation of hypoxia-inducible factor 1 during macrophage differentiation. American Journal of Physiology - Cell Physiology, 2006, 291, C104-C113.	2.1	110
202	Regulation of Cardiovascular Development and Physiology by Hypoxia-Inducible Factor 1a. Annals of the New York Academy of Sciences, 1999, 874, 262-268.	1.8	109
203	Endothelin-1 mediates hypoxia-induced inhibition of voltage-gated K⁺ channel expression in pulmonary arterial myocytes. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 294, L309-L318.	1.3	104
204	Hypoxia-inducible factor 2Î± (HIF-2Î±) heterozygous-null mice exhibit exaggerated carotid body sensitivity to hypoxia, breathing instability, and hypertension. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3065-3070.	3.3	104
205	HIF-1 Inhibitors for Cancer Therapy: From Gene Expression to Drug Discovery. Current Pharmaceutical Design, 2009, 15, 3839-3843.	0.9	102
206	Hypoxia-inducible factor 1 upregulation of both VEGF and ANGPTL4 is required to promote the angiogenic phenotype in uveal melanoma. Oncotarget, 2016, 7, 7816-7828.	0.8	102
207	Digoxin inhibits retinal ischemiaâ€induced HIFâ€1Î± expression and ocular neovascularization. FASEB Journal, 2010, 24, 1759-1767.	0.2	101
208	Protein kinase Gâ€“regulated production of H ₂ S governs oxygen sensing. Science Signaling, 2015, 8, ra37.	1.6	101
209	Hypoxia-inducible factor 1 mediates TAZ expression and nuclear localization to induce the breast cancer stem cell phenotype. Oncotarget, 2014, 5, 12509-12527.	0.8	100
210	Hypoxia Selectively Enhances Integrin Î±5Î²1 Receptor Expression in Breast Cancer to Promote Metastasis. Molecular Cancer Research, 2017, 15, 723-734.	1.5	99
211	Ganetespib blocks HIF-1 activity and inhibits tumor growth, vascularization, stem cell maintenance, invasion, and metastasis in orthotopic mouse models of triple-negative breast cancer. Journal of Molecular Medicine, 2014, 92, 151-164.	1.7	98
212	Angiopoietin-like 4 is a potent angiogenic factor and a novel therapeutic target for patients with proliferative diabetic retinopathy. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3030-9.	3.3	98
213	Regulation of Gene Expression by HIF-1. Novartis Foundation Symposium, 0, , 2-14.	1.2	97
214	Macrophage Migration Inhibitory Factor Activates Hypoxia-Inducible Factor in a p53-Dependent Manner. PLoS ONE, 2008, 3, e2215.	1.1	96
215	A Nontranscriptional Role for HIF-1Î± as a Direct Inhibitor of DNA Replication. Science Signaling, 2013, 6, ra10.	1.6	95
216	Adenovirus-mediated HIF-1Î± gene transfer promotes repair of mouse airway allograft microvasculature and attenuates chronic rejection. Journal of Clinical Investigation, 2011, 121, 2336-2349.	3.9	95

#	Article	IF	Citations
217	PTEN Activity Is Modulated During Ischemia and Reperfusion. Circulation Research, 2005, 97, 1351-1359.	2.0	93
218	Digoxin inhibits development of hypoxic pulmonary hypertension in mice. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1239-1244.	3.3	91
219	Methylation of hypoxia-inducible factor (HIF)-1Î± by G9a/GLP inhibits HIF-1 transcriptional activity and cell migration. Nucleic Acids Research, 2018, 46, 6576-6591.	6.5	90
220	Hypoxia-inducible factor 1 transcriptional activity in endothelial cells is required for acute phase cardioprotection induced by ischemic preconditioning. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10504-10509.	3.3	89
221	Maintenance of redox homeostasis by hypoxia-inducible factors. Redox Biology, 2017, 13, 331-335.	3.9	86
222	Mersalyl Is a Novel Inducer of Vascular Endothelial Growth Factor Gene Expression and Hypoxia-Inducible Factor 1 Activity. Molecular Pharmacology, 1998, 54, 749-754.	1.0	85
223	Selective Killing of Hypoxia-Inducible Factor-1â€“Active Cells Improves Survival in a Mouse Model of Invasive and Metastatic Pancreatic Cancer. Clinical Cancer Research, 2009, 15, 3433-3441.	3.2	84
224	Cyclin-dependent kinases regulate lysosomal degradation of hypoxia-inducible factor 1Î± to promote cell-cycle progression. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3325-34.	3.3	83
225	Differentiation Stage-Specific Requirement in Hypoxia-Inducible Factor-1Î±â€“Regulated Glycolytic Pathway during Murine B Cell Development in Bone Marrow. Journal of Immunology, 2010, 184, 154-163.	0.4	81
226	A compendium of proteins that interact with HIF-1Î±. Experimental Cell Research, 2017, 356, 128-135.	1.2	81
227	MCM Proteins Are Negative Regulators of Hypoxia-Inducible Factor 1. Molecular Cell, 2011, 42, 700-712.	4.5	80
228	KSHV induces aerobic glycolysis and angiogenesis through HIF-1-dependent upregulation of pyruvate kinase 2 in Kaposiâ€™s sarcoma. Angiogenesis, 2015, 18, 477-488.	3.7	78
229	A RASSF1A-HIF1Î± loop drives Warburg effect in cancer and pulmonary hypertension. Nature Communications, 2019, 10, 2130.	5.8	77
230	HIF-1Î± Activation by Intermittent Hypoxia Requires NADPH Oxidase Stimulation by Xanthine Oxidase. PLoS ONE, 2015, 10, e0119762.	1.1	77
231	Protein kinase Aâ€“dependent phosphorylation stimulates the transcriptional activity of hypoxia-inducible factor 1. Science Signaling, 2016, 9, ra56.	1.6	76
232	Hypoxia. Cross talk between oxygen sensing and the cell cycle machinery. American Journal of Physiology - Cell Physiology, 2011, 301, C550-C552.	2.1	75
233	Regulation of hypoxiaâ€inducible factorâ€Î± isoforms and redox state by carotid body neural activity in rats. Journal of Physiology, 2014, 592, 3841-3858.	1.3	75
234	Mutual antagonism between hypoxia-inducible factors 1Î± and 2Î± regulates oxygen sensing and cardio-respiratory homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1788-96.	3.3	73

#	Article	IF	Citations
235	Chemotherapy-induced S100A10 recruits KDM6A to facilitate OCT4-mediated breast cancer stemness. Journal of Clinical Investigation, 2020, 130, 4607-4623.	3.9	73
236	Analysis of Hypoxia-Induced Metabolic Reprogramming. Methods in Enzymology, 2014, 542, 425-455.	0.4	72
237	Mitochondrial autophagy: Life and breath of the cell. Autophagy, 2008, 4, 534-536.	4.3	71
238	The Genomics and Genetics of Oxygen Homeostasis. Annual Review of Genomics and Human Genetics, 2020, 21, 183-204.	2.5	71
239	Involvement of Hypoxia-Inducible Factor 1 in Pulmonary Pathophysiology. Chest, 2005, 128, 592S-594S.	0.4	67
240	Impaired angiogenesis and mobilization of circulating angiogenic cells in HIF-1Î± heterozygous-null mice after burn wounding. Wound Repair and Regeneration, 2010, 18, 193-201.	1.5	67
241	Gaseous messengers in oxygen sensing. Journal of Molecular Medicine, 2012, 90, 265-272.	1.7	65
242	Complementary roles of gasotransmitters CO and H ₂ S in sleep apnea. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1413-1418.	3.3	65
243	Reciprocal Regulation of DUSP9 and DUSP16 Expression by HIF1 Controls ERK and p38 MAP Kinase Activity and Mediates Chemotherapy-Induced Breast Cancer Stem Cell Enrichment. Cancer Research, 2018, 78, 4191-4202.	0.4	65
244	Regulation of gene expression by HIF-1. Novartis Foundation Symposium, 2006, 272, 2-8; discussion 8-14, 33-6.	1.2	64
245	Sustained delivery of a HIF-1 antagonist for ocular neovascularization. Journal of Controlled Release, 2013, 172, 625-633.	4.8	63
246	Dynamic regulation of stem cell specification and maintenance by hypoxia-inducible factors. Molecular Aspects of Medicine, 2016, 47-48, 15-23.	2.7	62
247	Epigenetic changes by DNA methylation in chronic and intermittent hypoxia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 313, L1096-L1100.	1.3	61
248	Spermidine/Spermine N1-Acetyltransferase-1 Binds to Hypoxia-inducible Factor-1Î± (HIF-1Î±) and RACK1 and Promotes Ubiquitination and Degradation of HIF-1Î±. Journal of Biological Chemistry, 2007, 282, 33358-33366.	1.6	60
249	Matrix Rigidity Controls Endothelial Differentiation and Morphogenesis of Cardiac Precursors. Science Signaling, 2012, 5, ra41.	1.6	60
250	Decreased Expression of Cystathionine Î²-Synthase Promotes Glioma Tumorigenesis. Molecular Cancer Research, 2014, 12, 1398-1406.	1.5	59
251	HIF-1Î± and TAZ serve as reciprocal co-activators in human breast cancer cells. Oncotarget, 2015, 6, 11768-11778.	0.8	59
252	Partial rescue of defects in Cited2-deficient embryos by HIF-1Î± heterozygosity. Developmental Biology, 2007, 301, 130-140.	0.9	58

#	Article	IF	Citations
253	Hypoxia-inducible factor plays a gut-injurious role in intestinal ischemia reperfusion injury. American Journal of Physiology - Renal Physiology, 2011, 300, G853-G861.	1.6	58
254	Metabolic reprogramming by HIF-1 promotes the survival of bone marrowâ€“derived angiogenic cells in ischemic tissue. Blood, 2011, 117, 4988-4998.	0.6	57
255	The role of hypoxiaâ€inducible factors in carotid body (patho) physiology. Journal of Physiology, 2018, 596, 2977-2983.	1.3	57
256	Spermidine/Spermine-N1-Acetyltransferase 2 Is an Essential Component of the Ubiquitin Ligase Complex That Regulates Hypoxia-inducible Factor 1Î±. Journal of Biological Chemistry, 2007, 282, 23572-23580.	1.6	56
257	Neural regulation of hypoxia-inducible factors and redox state drives the pathogenesis of hypertension in a rodent model of sleep apnea. Journal of Applied Physiology, 2015, 119, 1152-1156.	1.2	56
258	Hypoxia inducible factor-1-dependent up-regulation of BMP4 mediates hypoxia-induced increase of TRPC expression in PASMCs. Cardiovascular Research, 2015, 107, 108-118.	1.8	56
259	Hypoxia-inducible factors enhance glutamate signaling in cancer cells. Oncotarget, 2014, 5, 8853-8868.	0.8	56
260	Identification of Chemical Compounds that Induce HIF-1Î± Activity. Toxicological Sciences, 2009, 112, 153-163.	1.4	55
261	T-Cell Activation under Hypoxic Conditions Enhances IFN-Î³ Secretion. American Journal of Respiratory Cell and Molecular Biology, 2010, 42, 123-128.	1.4	54
262	Targeting hypoxia-inducible factor 1 to stimulate tissue vascularization. Journal of Investigative Medicine, 2016, 64, 361-363.	0.7	54
263	Hypoxia-inducible factors promote breast cancer stem cell specification and maintenance in response to hypoxia or cytotoxic chemotherapy. Advances in Cancer Research, 2019, 141, 175-212.	1.9	54
264	Induction of Hypoxia-inducible Factor 1 Activity by Muscarinic Acetylcholine Receptor Signaling. Journal of Biological Chemistry, 2004, 279, 41521-41528.	1.6	53
265	Systems biology of oxygen homeostasis. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2017, 9, e1382.	6.6	53
266	Epigenetic regulation of redox state mediates persistent cardiorespiratory abnormalities after longâ€term intermittent hypoxia. Journal of Physiology, 2017, 595, 63-77.	1.3	53
267	Regulation of tissue perfusion in mammals by hypoxiaâ€inducible factor 1. Experimental Physiology, 2007, 92, 988-991.	0.9	52
268	Aging impairs the mobilization and homing of bone marrow-derived angiogenic cells to burn wounds. Journal of Molecular Medicine, 2011, 89, 985-995.	1.7	51
269	Transcriptional regulation of gene expression: Mechanisms and pathophysiology. Human Mutation, 1994, 3, 180-199.	1.1	50
270	HIF-1Î± is required for development of the sympathetic nervous system. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13414-13423.	3.3	50

#	Article	IF	Citations
271	Increased susceptibility of HIF-1Î± heterozygous-null mice to cardiovascular malformations associated with maternal diabetes. Journal of Molecular and Cellular Cardiology, 2013, 60, 129-141.	0.9	49
272	Serine Synthesis Helps Hypoxic Cancer Stem Cells Regulate Redox. Cancer Research, 2016, 76, 6458-6462.	0.4	49
273	Hypoxia-Inducible Factor 1Î± Is a Critical Downstream Mediator for Hypoxia-Induced Mitogenic Factor (FIZZ1/RELMÎ±)â€“Induced Pulmonary Hypertension. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 134-144.	1.1	49
274	Expression of hypoxia-inducible factor 1Î± in brain tumors. , 2000, 88, 2606.		49
275	Small Molecule Activation of Adaptive Gene Expression. Annals of the New York Academy of Sciences, 2008, 1147, 383-394.	1.8	48
276	Regulation of Vascularization by Hypoxiaâ€inducible Factor 1. Annals of the New York Academy of Sciences, 2009, 1177, 2-8.	1.8	48
277	Nitric oxide prevents axonal degeneration by inducing HIF-1â€“dependent expression of erythropoietin. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4986-4990.	3.3	47
278	Systemic Delivery of Microencapsulated 3-Bromopyruvate for the Therapy of Pancreatic Cancer. Clinical Cancer Research, 2014, 20, 6406-6417.	3.2	47
279	Promotion of airway anastomotic microvascular regeneration and alleviation of airway ischemia by deferoxamine nanoparticles. Biomaterials, 2014, 35, 803-813.	5.7	46
280	Four-and-a-Half LIM Domain Proteins Inhibit Transactivation by Hypoxia-inducible Factor 1. Journal of Biological Chemistry, 2012, 287, 6139-6149.	1.6	44
281	HIF inhibitor 32-134D eradicates murine hepatocellular carcinoma in combination with anti-PD1 therapy. Journal of Clinical Investigation, 2022, 132, .	3.9	44
282	Regulation of carotid body oxygen sensing by hypoxia-inducible factors. Pflugers Archiv European Journal of Physiology, 2016, 468, 71-75.	1.3	43
283	Regulation of the breast cancer stem cell phenotype by hypoxia-inducible factors. Clinical Science, 2015, 129, 1037-1045.	1.8	42
284	Altered hypoxiaâ€inducible factorâ€1 alpha expression levels correlate with coronary vessel anomalies. Developmental Dynamics, 2009, 238, 2688-2700.	0.8	41
285	Activation of hypoxia-inducible factor 1 in human T-cell leukaemia virus typeÂ1-infected cell lines and primary adult T-cell leukaemia cells. Biochemical Journal, 2007, 406, 317-323.	1.7	40
286	Association of Increasing Burn Severity in Mice With Delayed Mobilization of Circulating Angiogenic Cells. Archives of Surgery, 2010, 145, 259.	2.3	40
287	Pulmonary Vascular Responses to Chronic Hypoxia Mediated by Hypoxia-inducible Factor 1. Proceedings of the American Thoracic Society, 2005, 2, 68-70.	3.5	39
288	A New Weapon for Attacking Tumor Blood Vessels. New England Journal of Medicine, 2008, 358, 2066-2067.	13.9	39

#	Article	IF	Citations
289	H ₂ S production by reactive oxygen species in the carotid body triggers hypertension in a rodent model of sleep apnea. Science Signaling, 2016, 9, ra80.	1.6	39
290	The HIF-1 antagonist acriflavine: visualization in retina and suppression of ocular neovascularization. Journal of Molecular Medicine, 2017, 95, 417-429.	1.7	38
291	Hypoxia-inducible factor-dependent ADAM12 expression mediates breast cancer invasion and metastasis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	38
292	Reversible inhibition of hypoxia-inducible factor 1 activation by exposure of hypoxic cells to the volatile anesthetic halothane. FEBS Letters, 2001, 509, 225-229.	1.3	37
293	Physiology meets biophysics: Visualizing the interaction of hypoxia-inducible factor 1Â with p300 and CBP. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11570-11572.	3.3	37
294	The intravenous anesthetic propofol inhibits hypoxia-inducible factor 1 activity in an oxygen tension-dependent manner. FEBS Letters, 2004, 577, 434-438.	1.3	37
295	Enhanced Interferon-Î³ Gene Expression in T Cells and Reduced Ovalbumin-Dependent Lung Eosinophilia in Hypoxia-Inducible Factor-1-Î±-Deficient Mice. International Archives of Allergy and Immunology, 2009, 149, 98-102.	0.9	37
296	Hypoxia-inducible factors regulate human and rat cystathionine Î²-synthase gene expression. Biochemical Journal, 2014, 458, 203-211.	1.7	36
297	Pathways for Oxygen Regulation and Homeostasis. JAMA - Journal of the American Medical Association, 2016, 316, 1252.	3.8	36
298	HIF-1â€“regulated expression of calreticulin promotes breast tumorigenesis and progression through Wnt/Î²-catenin pathway activation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	36
299	Endothelial Hypoxia-Inducible Factor-2Î± Is Required for the Maintenance of Airway Microvasculature. Circulation, 2019, 139, 502-517.	1.6	35
300	HIF-1Î± and HIF-2Î± redundantly promote retinal neovascularization in patients with ischemic retinal disease. Journal of Clinical Investigation, 2021, 131, .	3.9	33
301	Graft microvascular disease in solid organ transplantation. Journal of Molecular Medicine, 2014, 92, 797-810.	1.7	31
302	Histone citrullination by PADI4 is required for HIF-dependent transcriptional responses to hypoxia and tumor vascularization. Science Advances, 2021, 7, .	4.7	31
303	HIF-1 Interacts with TRIM28 and DNA-PK to release paused RNA polymerase II and activate target gene transcription in response to hypoxia. Nature Communications, 2022, 13, 316.	5.8	31
304	The inhibitory effect of sodium nitroprusside on HIF-1 activation is not dependent on nitric oxide-soluble guanylyl cyclase pathway. Biochemical and Biophysical Research Communications, 2004, 324, 417-423.	1.0	30
305	VHL and p53: Tumor Suppressors Team Up to Prevent Cancer. Molecular Cell, 2006, 22, 437-439.	4.5	30
306	BIRC2 Expression Impairs Anti-Cancer Immunity and Immunotherapy Efficacy. Cell Reports, 2020, 32, 108073.	2.9	30

#	Article	IF	Citations
307	Analysis of Hypoxiaâ€Inducible Factor 1Î± Expression and its Effects on Invasion and Metastasis. Methods in Enzymology, 2007, 435, 347-354.	0.4	29
308	Anthracyclines suppress pheochromocytoma cell characteristics, including metastasis, through inhibition of the hypoxia signaling pathway. Oncotarget, 2017, 8, 22313-22324.	0.8	29
309	Intratumoral Hypoxia and Mechanisms of Immune Evasion Mediated by Hypoxia-Inducible Factors. Physiology, 2021, 36, 73-83.	1.6	29
310	PRDX2 and PRDX4 are negative regulators of hypoxia-inducible factors under conditions of prolonged hypoxia. Oncotarget, 2016, 7, 6379-6397.	0.8	29
311	Expression Pattern of HIF-1Î± and VEGF Supports Circumferential Application of Scatter Laser for Proliferative Sickle Retinopathy. , 2016, 57, 6739.		28
312	Hypoxia-Induced Suppression of Alternative Splicing of MBD2 Promotes Breast Cancer Metastasis via Activation of FZD1. Cancer Research, 2021, 81, 1265-1278.	0.4	28
313	PHD3-mediated prolyl hydroxylation of nonmuscle actin impairs polymerization and cell motility. Molecular Biology of the Cell, 2014, 25, 2788-2796.	0.9	27
314	Introduction to tumor microenvironment regulation of cancer cell survival, metastasis, inflammation, and immune surveillance. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 379-381.	1.9	27
315	Hypoxia and human diseaseâ€"and the Journal of Molecular Medicine. Journal of Molecular Medicine, 2007, 85, 1293-1294.	1.7	26
316	Tie2-dependent knockout of HIF-1 impairs burn wound vascularization and homing of bone marrow-derived angiogenic cells. Cardiovascular Research, 2012, 93, 162-169.	1.8	26
317	The Role of Hypoxia-Inducible Factors in Oxygen Sensing by the Carotid Body. Advances in Experimental Medicine and Biology, 2012, 758, 1-5.	0.8	26
318	Expression of the angiogenic mediator, angiopoietin-like 4, in the eyes of patients with proliferative sickle retinopathy. PLoS ONE, 2017, 12, e0183320.	1.1	24
319	Endothelial HIF-2Î± as a Key Endogenous Mediator Preventing Emphysema. American Journal of Respiratory and Critical Care Medicine, 2020, 202, 983-995.	2.5	24
320	An essential role for chaperone-mediated autophagy in cell cycle progression. Autophagy, 2015, 11, 850-851.	4.3	23
321	New insights into nNOS regulation of vascular homeostasis. Journal of Clinical Investigation, 2005, 115, 2976-2978.	3.9	23
322	O2 Sensing: Only Skin Deep?. Cell, 2008, 133, 206-208.	13.5	22
323	Tie2-dependent VHL knockdown promotes airway microvascular regeneration and attenuates invasive growth of Aspergillus fumigatus. Journal of Molecular Medicine, 2013, 91, 1081-1093.	1.7	22
324	G-rich Oligonucleotides Inhibit HIF-1Î± and HIF-2Î± and Block Tumor Growth. Molecular Therapy, 2010, 18, 188-197.	3.7	21

#	Article	IF	Citations
325	HIF-1 recruits NANOG as a coactivator for TERT gene transcription in hypoxic breast cancer stem cells. Cell Reports, 2021, 36, 109757.	2.9	20
326	The use of in situ hybridization to study erythropoietin gene expression in murine kidney and liver. Microscopy Research and Technique, 1993, 25, 29-39.	1.2	17
327	Chairmanâ€™s Summary: Mechanisms of Oxygen Homeostasis, Circa 1999. Advances in Experimental Medicine and Biology, 2002, 475, 303-310.	0.8	16
328	Increased size of solid organs in patients with Chuvash polycythemia and in mice with altered expression of HIF-1Î± and HIF-2Î±. Journal of Molecular Medicine, 2010, 88, 523-530.	1.7	16
329	Chronic cold exposure results in subcutaneous adipose tissue browning and altered global metabolism in Qinghai-Tibetan plateau pika (Ochotona curzoniae). Biochemical and Biophysical Research Communications, 2018, 500, 117-123.	1.0	16
330	DNA methylation in the central and efferent limbs of the chemoreflex requires carotid body neural activity. Journal of Physiology, 2018, 596, 3087-3100.	1.3	16
331	Decreased lymphatic HIF-2Î± accentuates lymphatic remodeling in lymphedema. Journal of Clinical Investigation, 2020, 130, 5562-5575.	3.9	16
332	Hypoxia-inducible factor-1 mediates pancreatic Î²-cell dysfunction by intermittent hypoxia. American Journal of Physiology - Cell Physiology, 2020, 319, C922-C932.	2.1	15
333	Reducing bias: accounting for the order of coâ€“first authors. Journal of Clinical Investigation, 2019, 129, 2167-2168.	3.9	15
334	Inositol Polyphosphate Multikinase Inhibits Angiogenesis via Inositol Pentakisphosphate-Induced HIF-1Î± Degradation. Circulation Research, 2018, 122, 457-472.	2.0	14
335	Regulation of Erythropoiesis by the Hypoxia-Inducible Factor Pathway: Effects of Genetic and Pharmacological Perturbations. Annual Review of Medicine, 2023, 74, 307-319.	5.0	14
336	Does Loss of CD151 Expression Promote the Metastasis of Hypoxic Colon Cancer Cells?. Clinical Cancer Research, 2008, 14, 7969-7970.	3.2	13
337	A return to cancer metabolism. Journal of Molecular Medicine, 2011, 89, 203-204.	1.7	13
338	Changing the editorial process at JCI and JCI Insight in response to the COVID-19 pandemic. Journal of Clinical Investigation, 2020, 130, 2147-2147.	3.9	10
339	Hypoxia-inducible factors: roles in cardiovascular disease progression, prevention, and treatment. Cardiovascular Research, 2023, 119, 371-380.	1.8	10
340	Baffled by Bafilomycin: An Anticancer Agent That Induces Hypoxia-Inducible Factor-1Î± Expression: Fig. 1.. Molecular Pharmacology, 2006, 70, 1841-1843.	1.0	9
341	Hypoxia-Inducible Factor-Dependent Expression of Angiopoietin-Like 4 by Conjunctival Epithelial Cells Promotes the Angiogenic Phenotype of Pterygia. , 2017, 58, 4514-4523.		9
342	Segregation of a familial balanced (12;10) insertion resulting in dup(10)(q21.2q22.1) and del(10)(q21.2q22.1) in first cousins. , 1997, 69, 188-193.		8

#	Article	IF	Citations
343	Breakthrough science: hypoxia-inducible factors, oxygen sensing, and disorders of hematopoiesis. Blood, 2022, 139, 2441-2449.	0.6	8
344	Functional Analysis of the Role of Hypoxia-Inducible Factor 1 in the Pathogenesis of Hypoxic Pulmonary Hypertension. Methods in Enzymology, 2004, 381, 121-129.	0.4	7
345	Hypoxia pathway linked to kidney failure. Nature Medicine, 2006, 12, 996-997.	15.2	7
346	Heritable disorders of oxygen sensing. American Journal of Medical Genetics, Part A, 2021, 185, 3334-3339.	0.7	7
347	Gas biology: small molecular medicine. Journal of Molecular Medicine, 2012, 90, 213-215.	1.7	6
348	In Vitro Assays of Breast Cancer Stem Cells. Methods in Molecular Biology, 2018, 1742, 237-246.	0.4	6
349	ANGPTL4 influences the therapeutic response of patients with neovascular age-related macular degeneration by promoting choroidal neovascularization. JCI Insight, 2022, 7, .	2.3	6
350	Advances in cancer biology and therapy. Journal of Molecular Medicine, 2013, 91, 409-409.	1.7	5
351	Heritable disorders of oxygen sensing. American Journal of Medical Genetics, Part A, 2021, 185, 2576-2581.	0.7	5
352	Lack of Evidence for Vasoactive and Inflammatory Mediators in the Promotion of Macular Edema Associated with Epiretinal Membranes. Scientific Reports, 2017, 7, 10608.	1.6	4
353	Hypoxia and Hypoxia-Inducible Factors in Lymphedema. Frontiers in Pharmacology, 2022, 13, 851057.	1.6	4
354	American Journal of Physiology-Cell Physiology theme: hypoxia. American Journal of Physiology - Cell Physiology, 2011, 300, C225-C225.	2.1	3
355	Novel strategies for cancer therapy. Journal of Molecular Medicine, 2016, 94, 119-120.	1.7	3
356	EC does it with HIF. Blood, 2006, 107, 419-420.	0.6	2
357	AJP-Cell Theme: Cellular Responses to Hypoxia. American Journal of Physiology - Cell Physiology, 2015, 309, C349-C349.	2.1	2
358	151Âyears Berliner Klinische Wochenschrift and the 20th anniversary of the Journal of Molecular Medicine. Journal of Molecular Medicine, 2015, 93, 935-936.	1.7	2
359	Regulation of Angiogenesis and Arteriogenesis by Hypoxia-Inducible Factor-1. , 2007, , 175-215.		2
360	Digoxin as an inhibitor of global hypoxia inducible factor-1Î± (HIF1Î±) expression and downstream targets in breast cancer: Dig-HIF1 pharmacodynamic trial.. Journal of Clinical Oncology, 2013, 31, TPS1144-TPS1144.	0.8	2

#	Article	IF	Citations
361	The Journal of Clinical Investigation in the time of COVID-19. Journal of Clinical Investigation, 2021, 131, .	3.9	2
362	Recent advances in vascular biology and their clinical relevance. Journal of Molecular Medicine, 2009, 87, 547-548.	1.7	1
363	Blood vessels, disease pathogenesis, and novel therapies. Journal of Molecular Medicine, 2013, 91, 283-283.	1.7	1
364	Expression of hypoxia-inducible factor 1Î± in brain tumors. , 2000, 88, 2606.		1
365	Expression of angiogenesis-related molecules in plexiform lesions in severe pulmonary hypertension: evidence for a process of disordered angiogenesis. , 2001, 195, 367.		1
366	The HIF-1 Family of bHLH-PAS Proteins: Master Regulators of Oxygen Homeostasis. , 2003, , 183-204.		1
367	Mechanisms of HIFâ€1Î± Stabilization by Intermittent Hypoxia: Role of Ca 2+ â€mTOR signaling. FASEB Journal, 2006, 20, A790.	0.2	1
368	Hypoxia-Inducible Factor 1. , 0, , 246-255.		0
369	Biographical sketchâ€"Gregg L. Semenza. Cancer and Metastasis Reviews, 2007, 26, 221-221.	2.7	0
370	Hypoxia-Inducible Factor 1. Contemporary Clinical Neuroscience, 2009, , 277-288.	0.3	0
371	Physiological and Therapeutic Vascular Remodeling Mediated by Hypoxia-Inducible Factor 1. Biological and Medical Physics Series, 2011, , 111-125.	0.3	0
372	Next-gen cancer research. Journal of Molecular Medicine, 2017, 95, 789-789.	1.7	0
373	ABSENCE OF CAROTID BODY RESPONSES TO CHRONIC INTERMITTENT HYPOXIA IN MICE DEFICIENT IN HIFâ€1Ã¡: Implications in cardioâ€respiratory responses.. FASEB Journal, 2006, 20, A789.	0.2	0
374	Endothelinâ€1 (ETâ€1) induces hypoxiaâ€inducible factor 1 (HIFâ€1) in Pulmonary Arterial Smooth Muscle Cells (PASMCs).. FASEB Journal, 2008, 22, 1209.22.	0.2	0
375	NADPH oxidase is critical for upâ€regulation of HIFâ€1 [alpha] by intermittent hypoxia. FASEB Journal, 2008, 22, 960.9.	0.2	0
376	von Hippel-Lindau Tumor Suppressor, Hypoxia-Inducible Factor-1, and Tumor Vascularization. , 2010, , 119-132.		0
377	Effect of Digoxin on Hypoxic Pulmonary Hypertension (HPH). FASEB Journal, 2010, 24, 1023.11.	0.2	0
378	Involvement of Hypoxia-Inducible Factor 1 in Physiological and Pathological Responses to Continuous and Intermittent Hypoxia: Role of Reactive Oxygen Species. , 2011, , 409-418.		0

#	Article	IF	Citations
379	Cancer Metabolism, HIFâ€1, and Novel Antiâ€Cancer Therapies. FASEB Journal, 2012, 26, 348.3.	0.2	0
380	A Novel EGLN1/PHD2 High-Frequency Variant in Tibetans Protects Against Hypoxia-Induced Polycythemia.. Blood, 2012, 120, 2079-2079.	0.6	0
381	Hypoxia and Breast Cancer Metastasis. Cancer Drug Discovery and Development, 2014, , 3-19.	0.2	0
382	HIFâ€2Î± Deficiency Induces Carotid Body Sensory Longâ€Term Facilitation. FASEB Journal, 2015, 29, 682.3.	0.2	0
383	Persistent HIFâ€1 Activation by Longâ€Term Intermittent Hypoxia. FASEB Journal, 2019, 33, 551.16.	0.2	0
384	Activation of Lysine Demethylases (KDM's) by Intermittent Hypoxia. FASEB Journal, 2019, 33, 551.15.	0.2	0