Roland H Wenger

List of Publications by Citations

158 papers	12,940 citations	56 h-index	112 g-index
168 ext. papers	14,070 ext. citations	6.5 avg, IF	6.1 L-index

#	Paper	IF	Citations
158	Cellular and developmental control of O2 homeostasis by hypoxia-inducible factor 1 alpha. *Genes and Development*, **1998**, 12, 149-62	12.6	1842
157	Cellular adaptation to hypoxia: O2-sensing protein hydroxylases, hypoxia-inducible transcription factors, and O2-regulated gene expression. *FASEB Journal*, **2002**, 16, 1151-62	0.9	954
156	Integration of oxygen signaling at the consensus HRE. *Science Signaling*, **2005**, 2005, re12	8.8	622
155	HIF-1 is expressed in normoxic tissue and displays an organ-specific regulation under systemic hypoxia. *FASEB Journal*, **2001**, 15, 2445-53	0.9	580
154	Erythropoietin gene expression in human, monkey and murine brain. *European Journal of Neuroscience*, **1996**, 8, 666-76	3.5	477
153	Localization of specific erythropoietin binding sites in defined areas of the mouse brain. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 3717-20	11.5	423
152	The hypoxia-inducible factor-1 alpha is a negative factor for tumor therapy. *Oncogene*, **2003**, 22, 3213-20	9.2	293
151	Oxygen-regulated transferrin expression is mediated by hypoxia-inducible factor-1. *Journal of Biological Chemistry*, **1997**, 272, 20055-62	5.4	289
150	Copper-dependent activation of hypoxia-inducible factor (HIF)-1: implications for ceruloplasmin regulation. *Blood*, **2005**, 105, 4613-9	2.2	224
149	Normoxic induction of the hypoxia-inducible factor 1alpha by insulin and interleukin-1beta involves the phosphatidylinositol 3-kinase pathway. *FEBS Letters*, **2002**, 512, 157-62	3.8	220
148	Nitric oxide prevents cardiovascular disease and determines survival in polyglobulic mice overexpressing erythropoietin. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 11609-13	11.5	216
147	Increased prolyl 4-hydroxylase domain proteins compensate for decreased oxygen levels. Evidence for an autoregulatory oxygen-sensing system. *Journal of Biological Chemistry*, **2006**, 281, 23482-91	5.4	213
146	The transcription factors ATF-1 and CREB-1 bind constitutively to the hypoxia-inducible factor-1 (HIF-1) DNA recognition site. *Nucleic Acids Research*, **1995**, 23, 4542-50	20.1	207
145	Mitochondrial reactive oxygen species control the transcription factor CHOP-10/GADD153 and adipocyte differentiation: a mechanism for hypoxia-dependent effect. *Journal of Biological Chemistry*, **2004**, 279, 40462-9	5.4	181
144	Cutting edge: hypoxia-inducible factor 1alpha and its activation-inducible short isoform I.1 negatively regulate functions of CD4+ and CD8+ T lymphocytes. *Journal of Immunology*, **2006**, 177, 4962-5	5.3	166
143	Oxygen-dependent ATF-4 stability is mediated by the PHD3 oxygen sensor. *Blood*, **2007**, 110, 3610-7	2.2	161
142	Taking advantage of tumor cell adaptations to hypoxia for developing new tumor markers and treatment strategies. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2009**, 24 Suppl 1, 1-39	5.6	153

141	Hypoxia ameliorates intestinal inflammation through NLRP3/mTOR downregulation and autophagy activation. *Nature Communications*, **2017**, 8, 98	17.4	125
140	Frequently asked questions in hypoxia research. *Hypoxia (Auckland, N Z)*, **2015**, 3, 35-43	2.1	122
139	Oxygen supply and oxygen-dependent gene expression in differentiating embryonic stem cells. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 2867-72	11.5	120
138	Distinct costimulatory molecules are required for the induction of effector and memory cytotoxic T lymphocytes. *Journal of Experimental Medicine*, **1997**, 185, 251-62	16.6	117
137	Heat induction of the unphosphorylated form of hypoxia-inducible factor-1alpha is dependent on heat shock protein-90 activity. *Journal of Biological Chemistry*, **2002**, 277, 9262-7	5.4	116
136	TET1-mediated hydroxymethylation facilitates hypoxic gene induction in neuroblastoma. *Cell Reports*, **2014**, 7, 1343-1352	10.6	115
135	Detection of erythropoietin in human liquor: intrinsic erythropoietin production in the brain. *Kidney International*, **1997**, 51, 416-8	9.9	114
134	Structure of the human blood platelet membrane glycoprotein Ib alpha gene. *Biochemical and Biophysical Research Communications*, **1988**, 156, 389-95	3.4	112
133	ITGA6 is directly regulated by hypoxia-inducible factors and enriches for cancer stem cell activity and invasion in metastatic breast cancer models. *Molecular Cancer*, **2016**, 15, 26	42.1	110
132	The cellular oxygen tension regulates expression of the endoplasmic oxidoreductase ERO1-Lalpha. *FEBS Journal*, **2003**, 270, 2228-35		109
131	Nucleotide sequence, chromosomal assignment and mRNA expression of mouse hypoxia-inducible factor-1 alpha. *Biochemical and Biophysical Research Communications*, **1996**, 223, 54-9	3.4	108
130	Radiation promotes immunological recognition of cancer cells through increased expression of cancer-testis antigens in vitro and in vivo. *PLoS ONE*, **2011**, 6, e28217	3.7	108
129	Interaction of the PAS B domain with HSP90 accelerates hypoxia-inducible factor-1alpha stabilization. *Cellular Physiology and Biochemistry*, **2004**, 14, 351-60	3.9	107
128	Hypoxia-inducible factor-1 alpha is regulated at the post-mRNA level. *Kidney International*, **1997**, 51, 560-3	9.9	106
127	Oxygen-regulated erythropoietin gene expression is dependent on a CpG methylation-free hypoxia-inducible factor-1 DNA-binding site. *FEBS Journal*, **1998**, 253, 771-7		106
126	Hypoxia affects expression of circadian genes PER1 and CLOCK in mouse brain. *FASEB Journal*, **2001**, 15, 2613-22	0.9	104
125	General applicability of chicken egg yolk antibodies: the performance of IgY immunoglobulins raised against the hypoxia-inducible factor 1alpha. *FASEB Journal*, **1999**, 13, 81-8	0.9	102
124	Lack of hypoxia-inducible factor-1 alpha impairs midbrain neural precursor cells involving vascular endothelial growth factor signaling. *Journal of Neuroscience*, **2007**, 27, 412-21	6.6	92

123	The peptidyl prolyl cis/trans isomerase FKBP38 determines hypoxia-inducible transcription factor prolyl-4-hydroxylase PHD2 protein stability. *Molecular and Cellular Biology*, **2007**, 27, 3758-68	4.8	90
122	Hypoxia, a novel inducer of acute phase gene expression in a human hepatoma cell line. *Journal of Biological Chemistry*, **1995**, 270, 27865-70	5.4	90
121	Hemostasis and coagulation at a hematocrit level of 0.85: functional consequences of erythrocytosis. *Blood*, **2003**, 101, 4416-22	2.2	89
120	The antimycotic ciclopirox olamine induces HIF-1alpha stability, VEGF expression, and angiogenesis. *FASEB Journal*, **2003**, 17, 761-3	0.9	87
119	The transcription factor encyclopedia. *Genome Biology*, **2012**, 13, R24	18.3	86
118	Hypoxia enhances lipid uptake in macrophages: role of the scavenger receptors Lox1, SRA, and CD36. *Atherosclerosis*, **2013**, 229, 110-7	3.1	86
117	Physiologic responses to hypoxia and implications for hypoxia-inducible factors in the pathogenesis of rheumatoid arthritis. *Arthritis and Rheumatism*, **2004**, 50, 10-23		83
116	Mechanisms of hypoxic gene regulation of angiogenesis factor Cyr61 in melanoma cells. *Journal of Biological Chemistry*, **2003**, 278, 45651-60	5.4	81
115	Epolones induce erythropoietin expression via hypoxia-inducible factor-1 activation. *Blood*, **2000**, 96, 1558-1565	2.2	75
114	Chronic mild hypoxia protects heart-derived H9c2 cells against acute hypoxia/reoxygenation by regulating expression of the SUR2A subunit of the ATP-sensitive K+ channel. *Journal of Biological Chemistry*, **2003**, 278, 31444-55	5.4	74
113	Regulated oxygen sensing by protein hydroxylation in renal erythropoietin-producing cells. *American Journal of Physiology - Renal Physiology*, **2010**, 298, F1287-96	4.3	70
112	Oxygen- and dioxin-regulated gene expression in mouse hepatoma cells. *Kidney International*, **1997**, 51, 567-74	9.9	67
111	Mouse Hypoxia-Inducible Factor-1 Is Encoded by Two Different mRNA Isoforms: Expression From a Tissue-Specific and a Housekeeping-Type Promoter. *Blood*, **1998**, 91, 3471-3480	2.2	65
110	Physiologically low oxygen concentrations in fetal skin regulate hypoxia-inducible factor 1 and transforming growth factor-beta3. *FASEB Journal*, **2002**, 16, 411-3	0.9	64
109	Induction of activating transcription factor 3 by anoxia is independent of p53 and the hypoxic HIF signalling pathway. *Oncogene*, **2007**, 26, 284-9	9.2	63
108	Dissecting hypoxia-dependent and hypoxia-independent steps in the HIF-1alpha activation cascade: implications for HIF-1alpha gene therapy. *FASEB Journal*, **2001**, 15, 2715-7	0.9	63
107	Efficient translation of mouse hypoxia-inducible factor-1alpha under normoxic and hypoxic conditions. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **2000**, 1493, 125-34		61
106	Prolyl-4-hydroxylase PHD2- and hypoxia-inducible factor 2-dependent regulation of amphiregulin contributes to breast tumorigenesis. *Oncogene*, **2011**, 30, 548-60	9.2	58

105	Attenuation of HIF-1 DNA-binding activity limits hypoxia-inducible endothelin-1 expression. *Pflugers Archiv European Journal of Physiology*, **2001**, 443, 240-9	4.6	58
104	The 5Tflanking region and chromosomal localization of the gene encoding human platelet membrane glycoprotein Ib alpha. *Gene*, **1989**, 85, 517-24	3.8	57
103	Vitamin C is dispensable for oxygen sensing in vivo. *Blood*, **2011**, 117, 5485-93	2.2	56
102	Hypoxia-inducible factor prolyl-4-hydroxylase PHD2 protein abundance depends on integral membrane anchoring of FKBP38. *Journal of Biological Chemistry*, **2009**, 284, 23046-58	5.4	56
101	Oxygen-regulated expression of TGF-beta 3, a growth factor involved in trophoblast differentiation. *Placenta*, **2003**, 24, 941-50	3.4	56
100	Induction of long noncoding RNA MALAT1 in hypoxic mice. *Hypoxia (Auckland, N Z)*, **2015**, 3, 45-52	2.1	55
99	Non-canonical HIF-2 function drives autonomous breast cancer cell growth via an AREG-EGFR/ErbB4 autocrine loop. *Oncogene*, **2012**, 31, 2283-97	9.2	55
98	Longitudinal and multimodal in vivo imaging of tumor hypoxia and its downstream molecular events. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 14004-9	11.5	54
97	FIH Regulates Cellular Metabolism through Hydroxylation of the Deubiquitinase OTUB1. *PLoS Biology*, **2016**, 14, e1002347	9.7	53
96	Hypoxic up-regulation of erythroid 5-aminolevulinate synthase. *Blood*, **2003**, 101, 348-50	2.2	52
95	The heat-stable antigen can alter very late antigen 4-mediated adhesion. *Journal of Experimental Medicine*, **1994**, 179, 1391-5	16.6	52
94	The genes for a mouse hematopoietic differentiation marker called the heat-stable antigen. *European Journal of Immunology*, **1991**, 21, 1039-46	6.1	50
93	Erythropoietin stimulates fibroblast growth factor 23 (FGF23) in mice and men. *Pflugers Archiv European Journal of Physiology*, **2018**, 470, 1569-1582	4.6	50
92	Effects of hypobaric hypoxia on vascular endothelial growth factor and the acute phase response in subjects who are susceptible to high-altitude pulmonary oedema. *European Journal of Applied Physiology*, **2000**, 81, 497-503	3.4	48
91	Hypoxia-regulated gene expression in fetal wound regeneration and adult wound repair. *Pediatric Surgery International*, **2000**, 16, 232-6	2.1	48
90	The hypoxia-inducible factor-1 DNA recognition site is cAMP-responsive. *Kidney International*, **1997**, 51, 564-6	9.9	43
89	Isoform-specific expression of hypoxia-inducible factor-1alpha during the late stages of mouse spermiogenesis. *Molecular Endocrinology*, **2002**, 16, 234-43		43
88	Hypoxia of the growing liver accelerates regeneration. *Surgery*, **2017**, 161, 666-679	3.6	42

87	The mouse gene for hypoxia-inducible factor-1alpha--genomic organization, expression and characterization of an alternative first exon and 5Tflanking sequence. *FEBS Journal*, **1997**, 246, 155-65		41
86	Identification and functional characterization of pVHL-dependent cell surface proteins in renal cell carcinoma. *Neoplasia*, **2012**, 14, 535-46	6.4	40
85	Distinct deregulation of the hypoxia inducible factor by PHD2 mutants identified in germline DNA of patients with polycythemia. *Haematologica*, **2012**, 97, 9-14	6.6	40
84	Breast tumor kinase (Brk/PTK6) is a mediator of hypoxia-associated breast cancer progression. *Cancer Research*, **2013**, 73, 5810-20	10.1	39
83	The hypoxic testis and post-meiotic expression of PAS domain proteins. *Seminars in Cell and Developmental Biology*, **2005**, 16, 547-53	7.5	37
82	Rescue of hypoxia-inducible factor-1alpha-deficient tumor growth by wild-type cells is independent of vascular endothelial growth factor. *Cancer Research*, **2002**, 62, 2962-70	10.1	37
81	Impaired DNA double-strand break repair contributes to chemoresistance in HIF-1 alpha-deficient mouse embryonic fibroblasts. *Carcinogenesis*, **2008**, 29, 2306-16	4.6	36
80	Induction of the hypoxia-inducible factor system by low levels of heat shock protein 90 inhibitors. *Cancer Research*, **2005**, 65, 11094-100	10.1	35
79	Isolation and Characterization of Human Blood Platelet mRNA and Construction of a cDNA Library in □gt11. *Thrombosis and Haemostasis*, **1989**, 61, 448-453	7	35
78	Refolding of bacteriorhodopsin. Protease V8 fragmentation and chromophore reconstitution from proteolytic V8 fragments. *FEBS Journal*, **1988**, 177, 125-33		34
77	Intermittent hypoxia confers pro-metastatic gene expression selectively through NF-□B in inflammatory breast cancer cells. *Free Radical Biology and Medicine*, **2016**, 101, 129-142	7.8	33
76	Tumor necrosis factor stimulates fibroblast growth factor 23 levels in chronic kidney disease and non-renal inflammation. *Kidney International*, **2019**, 96, 890-905	9.9	32
75	Erythropoietin. *Comprehensive Physiology*, **2011**, 1, 1759-94	7.7	32
74	Targeted disruption of the mouse PAS domain serine/threonine kinase PASKIN. *Molecular and Cellular Biology*, **2003**, 23, 6780-9	4.8	32
73	B-cell maturation in chimaeric mice deficient for the heat stable antigen (HSA/mouse CD24). *Transgenic Research*, **1995**, 4, 173-83	3.3	29
72	Regulated function of the prolyl-4-hydroxylase domain (PHD) oxygen sensor proteins. *Antioxidants and Redox Signaling*, **2007**, 9, 1329-38	8.4	28
71	A dominant-negative isoform of hypoxia-inducible factor-1 alpha specifically expressed in human testis. *Biology of Reproduction*, **2004**, 71, 331-9	3.9	28
70	HIF mediated and DNA damage independent histone H2AX phosphorylation in chronic hypoxia. *Biological Chemistry*, **2013**, 394, 519-28	4.5	27

69	TSGA10 prevents nuclear localization of the hypoxia-inducible factor (HIF)-1alpha. *FEBS Letters*, **2006**, 580, 3731-8	3.8	27
68	Isoform-Specific Expression of Hypoxia-Inducible Factor-1During the Late Stages of Mouse Spermiogenesis. *Molecular Endocrinology*, **2002**, 16, 234-243		27
67	Mitochondria: oxygen sinks rather than sensors?. *Medical Hypotheses*, **2006**, 66, 380-3	3.8	26
66	Erythropoietin production by PDGFR-(+) cells. *Pflugers Archiv European Journal of Physiology*, **2016** , 468, 1479-87	4.6	26
65	Mammalian PASKIN, a PAS-serine/threonine kinase related to bacterial oxygen sensors. *Biochemical and Biophysical Research Communications*, **2001**, 288, 757-64	3.4	25
64	Oxygen tension modulates beta-globin switching in embryoid bodies. *FASEB Journal*, **1999**, 13, 285-95	0.9	25
63	Synthetic transactivation screening reveals ETV4 as broad coactivator of hypoxia-inducible factor signaling. *Nucleic Acids Research*, **2012**, 40, 1928-43	20.1	24
62	A novel distal upstream hypoxia response element regulating oxygen-dependent erythropoietin gene expression. *Haematologica*, **2014**, 99, e45-8	6.6	23
61	The PAS-domain kinase PASKIN: a new sensor in energy homeostasis. *Cellular and Molecular Life Sciences*, **2009**, 66, 876-83	10.3	23
60	Male germ cell expression of the PAS domain kinase PASKIN and its novel target eukaryotic translation elongation factor eEF1A1. *Cellular Physiology and Biochemistry*, **2007**, 20, 227-40	3.9	22
59	Genetically Modified Mouse Models in Studies on Cutaneous Wound Healing. *Experimental Physiology*, **2000**, 85, 687-704	2.4	22
58	Generation of renal Epo-producing cell lines by conditional gene tagging reveals rapid HIF-2 driven Epo kinetics, cell autonomous feedback regulation, and a telocyte phenotype. *Kidney International*, **2019**, 95, 375-387	9.9	22
57	Congenital erythrocytosis associated with gain-of-function HIF2A gene mutations and erythropoietin levels in the normal range. *Haematologica*, **2013**, 98, 1624-32	6.6	21
56	PAS kinase is a nutrient and energy sensor in hypothalamic areas required for the normal function of AMPK and mTOR/S6K1. *Molecular Neurobiology*, **2014**, 50, 314-26	6.2	19
55	HIF prolyl-4-hydroxylase interacting proteins: consequences for drug targeting. *Current Pharmaceutical Design*, **2009**, 15, 3886-94	3.3	18
54	Different subpopulations of kidney interstitial cells produce erythropoietin and factors supporting tissue oxygenation in response to hypoxia in vivo. *Kidney International*, **2020**, 98, 918-931	9.9	17
53	Destruction of a distal hypoxia response element abolishes trans-activation of the PAG1 gene mediated by HIF-independent chromatin looping. *Nucleic Acids Research*, **2015**, 43, 5810-23	20.1	17
52	Time course of hypoxia-induced lung injury in rats. *Respiratory Physiology and Neurobiology*, **2007**, 159, 45-54	2.8	17

51	Simultaneous exposure of rats to dioxin and carbon monoxide reduces the xenobiotic but not the hypoxic response. *Biological Chemistry*, **2004**, 385, 291-4	4.5	17
50	The Antioxidative Role of Cytoglobin in Podocytes: Implications for a Role in Chronic Kidney Disease. *Antioxidants and Redox Signaling*, **2020**, 32, 1155-1171	8.4	17
49	Combined whole-body vibration, resistance exercise, and sustained vascular occlusion increases PGC-1 and VEGF mRNA abundances. *European Journal of Applied Physiology*, **2013**, 113, 1081-90	3.4	16
48	Glucose-stimulated insulin production in mice deficient for the PAS kinase PASKIN. *Diabetes*, **2007**, 56, 113-7	0.9	16
47	Determination and modulation of prolyl-4-hydroxylase domain oxygen sensor activity. *Methods in Enzymology*, **2007**, 435, 43-60	1.7	16
46	Regulation of the hypoxia-inducible factor-1 alpha. ARNT is not necessary for hypoxic induction of HIF-1 alpha in the nucleus. *Advances in Experimental Medicine and Biology*, **2000**, 475, 87-99	3.6	16
45	Hypoxia attenuates the proinflammatory response in colon cancer cells by regulating IB. *Oncotarget*, **2015**, 6, 20288-301	3.3	16
44	Now a Nobel gas: oxygen. *Pflugers Archiv European Journal of Physiology*, **2019**, 471, 1343-1358	4.6	16
43	The putative RNA helicase HELZ promotes cell proliferation, translation initiation and ribosomal protein S6 phosphorylation. *PLoS ONE*, **2011**, 6, e22107	3.7	15
42	The functional interplay between the HIF pathway and the ubiquitin system - more than a one-way road. *Experimental Cell Research*, **2017**, 356, 152-159	4.2	14
41	Dysregulation of hypoxia-inducible factor by presenilin/secretase loss-of-function mutations. *Journal of Neuroscience*, **2013**, 33, 1915-26	6.6	14
40	Interfering with Tumor Hypoxia for Radiotherapy Optimization. *Journal of Experimental and Clinical Cancer Research*, **2021**, 40, 197	12.8	14
39	Hypoxia sensing by hepatic stellate cells leads to VEGF-dependent angiogenesis and may contribute to accelerated liver regeneration. *Scientific Reports*, **2020**, 10, 4392	4.9	13
38	Inhibitor of DNA binding/differentiation 2 induced by hypoxia promotes synovial fibroblast-dependent osteoclastogenesis. *Arthritis and Rheumatism*, **2009**, 60, 3663-75		13
37	Cardiac remodeling in erythropoietin-transgenic mice. *Cellular Physiology and Biochemistry*, **2004**, 14, 277-84	3.9	13
36	Estrogen-dependent downregulation of hypoxia-inducible factor (HIF)-2 in invasive breast cancer cells. *Oncotarget*, **2016**, 7, 31153-65	3.3	13
35	Source and microenvironmental regulation of erythropoietin in the kidney. *Current Opinion in Nephrology and Hypertension*, **2018**, 27, 277-282	3.5	12
34	HIF hydroxylase inhibitors decrease cellular oxygen consumption depending on their selectivity. *FASEB Journal*, **2020**, 34, 2344-2358	0.9	12

33	Distal and proximal hypoxia response elements cooperate to regulate organ-specific erythropoietin gene expression. *Haematologica*, **2020**, 105, 2774-2784	6.6	12
32	Iron chelation, angiogenesis and tumor therapy. *International Journal of Cancer*, **2003**, 106, 458-9	7.5	11
31	Little difference. *Nature*, **1996**, 380, 100	50.4	11
30	Hypoxia-inducible factor-mediated induction of WISP-2 contributes to attenuated progression of breast cancer. *Hypoxia (Auckland, N Z)*, **2014**, 2, 23-33	2.1	10
29	Substrate preference and phosphatidylinositol monophosphate inhibition of the catalytic domain of the Per-Arnt-Sim domain kinase PASKIN. *FEBS Journal*, **2011**, 278, 1757-68	5.7	10
28	Norepinephrine-induced acute heart failure in transgenic mice overexpressing erythropoietin. *Cardiovascular Research*, **2004**, 61, 105-14	9.9	10
27	Characterization of HIF-1 alpha overexpressing HeLa cells and implications for gene therapy. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2002**, 133, 475-81	3.2	10
26	Reannealing of artificial heteroduplexes generated during PCR-mediated isotyping. *Trends in Genetics*, **1991**, 7, 178	8.5	10
25	DNA-binding activity of hypoxia-inducible factors (HIFs). *Methods in Molecular Biology*, **2002**, 196, 117-29	1.4	8
24	Mitochondria contaminate databases. *Trends in Genetics*, **1995**, 11, 167-8	8.5	7
23	Protocol for a prospective, controlled, observational study to evaluate the influence of hypoxia on healthy volunteers and patients with inflammatory bowel disease: the Altitude IBD Study. *BMJ Open*, **2017**, 7, e013477	3	6
22	Oxygen-dependent bond formation with FIH regulates the activity of the client protein OTUB1. *Redox Biology*, **2019**, 26, 101265	11.3	6
21	A graphical simulation software for instruction in cardiovascular mechanics physiology. *BioMedical Engineering OnLine*, **2011**, 10, 8	4.1	6
20	Cre-mediated, loxP independent sequential recombination of a tripartite transcriptional stop cassette allows for partial read-through transcription. *Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms*, **2020**, 1863, 194568	6	5
19	Onconeuronal antigen Cdr2 correlates with HIF prolyl-4-hydroxylase PHD1 and worse prognosis in renal cell carcinoma. *Experimental and Molecular Pathology*, **2013**, 94, 453-7	4.4	5
18	Inhibition of firefly luciferase activity by a HIF prolyl hydroxylase inhibitor. *Journal of Photochemistry and Photobiology B: Biology*, **2020**, 210, 111980	6.7	5
17	S1P Stimulates Erythropoietin Production in Mouse Renal Interstitial Fibroblasts by S1P and S1P Receptor Activation and HIF-2α Stabilization. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	5
16	Neutrophil expression of ICAM1, CXCR1, and VEGFR1 in patients with breast cancer before and after adjuvant chemotherapy. *Anticancer Research*, **2014**, 34, 4693-9	2.3	5

15	The neuronal oxygen-sensing pathway controls postnatal vascularization of the murine brain. *FASEB Journal*, **2019**, 33, 12812-12824	0.9	4
14	Mouse Hypoxia-Inducible Factor-1 Is Encoded by Two Different mRNA Isoforms: Expression From a Tissue-Specific and a Housekeeping-Type Promoter. *Blood*, **1998**, 91, 3471-3480	2.2	4
13	Tumor cell endogenous HIF-1 activity induces aberrant angiogenesis and interacts with TRAF6 pathway required for colorectal cancer development. *Neoplasia*, **2020**, 22, 745-758	6.4	3
12	HIF-1, a Mediator of the Molecular Response to Hypoxia. *Physiology*, **1997**, 12, 214-218	9.8	3
11	Simultaneous Three-Dimensional Vascular and Tubular Imaging of Whole Mouse Kidneys With X-ray CT. *Microscopy and Microanalysis*, **2020**, 26, 731-740	0.5	1
10	Fate-mapping of erythropoietin-producing cells in mouse models of hypoxaemia and renal tissue remodelling reveals repeated recruitment and persistent functionality.. *Acta Physiologica*, **2022**, e13768	5.6	1
9	Epolones induce erythropoietin expression via hypoxia-inducible factor-1 activation. *Blood*, **2000**, 96, 1558-1565	2.2	1
8	Molecular Biology of Hypoxia-Inducible Factor-1 **1999**, 269-276		1
7	Sphk1 and Sphk2 Differentially Regulate Erythropoietin Synthesis in Mouse Renal Interstitial Fibroblast-like Cells. *International Journal of Molecular Sciences*, **2022**, 23, 5882	6.3	1
6	Androglobin, a chimeric mammalian globin, is required for male fertility. *ELife*,11,	8.9	1
5	OTUB1 regulates lung development, adult lung tissue homeostasis, and respiratory control. *FASEB Journal*, **2021**, 35, e22039	0.9	0
4	Heritability and association with distinct genetic loci of erythropoietin levels in the general population. *Haematologica*, **2021**, 106, 2499-2501	6.6	0
3	Hematopoiesis and the Kidney **2013**, 3087-3124		
2	Thin air - thick science. *Nature Reviews Molecular Cell Biology*, **2020**, 21, 567	48.7	
1	Hypoxia Reduces the Transcription of Fibrotic Markers in the Intestinal Mucosa. *Inflammatory Intestinal Diseases*, **2021**, 6, 87-100	2.5	