

Joachim Fandrey

List of Publications by Year in descending order

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93
papers

5,010
citations

126858

33
h-index

91828

69
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all docs

93
docs citations

93
times ranked

6122
citing authors

#	ARTICLE	IF	CITATIONS
1	Interleukin-1 β and Tumor Necrosis Factor- α Stimulate DNA Binding of Hypoxia-Inducible Factor-1. Blood, 1999, 94, 1561-1567.	0.6	423
2	Bacterial lipopolysaccharide induces HIF-1 activation in human monocytes via p44/42 MAPK and NF- κ B. Biochemical Journal, 2006, 396, 517-527.	1.7	379
3	Intracellular localisation of human HIF-1 α hydroxylases: implications for oxygen sensing. Journal of Cell Science, 2003, 116, 1319-1326.	1.2	378
4	Nitric Oxide Impairs Normoxic Degradation of HIF-1 α by Inhibition of Prolyl Hydroxylases. Molecular Biology of the Cell, 2003, 14, 3470-3481.	0.9	375
5	Accumulation of HIF-1 α under the influence of nitric oxide. Blood, 2001, 97, 1009-1015.	0.6	252
6	Oxygen-dependent and tissue-specific regulation of erythropoietin gene expression. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 286, R977-R988.	0.9	232
7	Regulating cellular oxygen sensing by hydroxylation. Cardiovascular Research, 2006, 71, 642-651.	1.8	189
8	Erythropoietin Receptors on Tumor Cells: What Do They Mean?. Oncologist, 2008, 13, 16-20.	1.9	185
9	Nitric Oxide Modulates Oxygen Sensing by Hypoxia-inducible Factor 1-dependent Induction of Prolyl Hydroxylase 2. Journal of Biological Chemistry, 2007, 282, 1788-1796.	1.6	133
10	Loss of HIF-1 α in natural killer cells inhibits tumour growth by stimulating non-productive angiogenesis. Nature Communications, 2017, 8, 1597.	5.8	132
11	Role of reactive oxygen species in the regulation of HIF-1 by prolyl hydroxylase 2 under mild hypoxia. Free Radical Research, 2012, 46, 705-717.	1.5	113
12	Regulation of Hypoxia-inducible Factors During Inflammation. Methods in Enzymology, 2007, 435, 403-419.	0.4	102
13	The good, the bad and the ugly in oxygen-sensing: ROS, cytochromes and prolyl-hydroxylases. Cardiovascular Research, 2006, 71, 195-207.	1.8	97
14	The Proinflammatory Cytokine Interleukin 1 β and Hypoxia Cooperatively Induce the Expression of Adrenomedullin in Ovarian Carcinoma Cells through Hypoxia Inducible Factor 1 Activation. Cancer Research, 2005, 65, 4690-4697.	0.4	93
15	NO and TNF- α released from activated macrophages stabilize HIF-1 α in resting tubular LLC-PK ₁ cells. American Journal of Physiology - Cell Physiology, 2003, 284, C439-C446.	2.1	78
16	Hypoxia-inducible erythropoietin gene expression in human neuroblastoma cells. Blood, 2002, 100, 2623-2628.	0.6	77
17	Effect of HIV infection and antiretroviral therapy on immune cellular functions. JCI Insight, 2019, 4, .	2.3	70
18	Reactive oxygen species modulate HIF-1 mediated PAI-1 expression: involvement of the GTPase Rac1. Thrombosis and Haemostasis, 2003, 89, 926-935.	1.8	67

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19	Acute Hypoxia Induces HIF-Independent Monocyte Adhesion to Endothelial Cells through Increased Intercellular Adhesion Molecule-1 Expression: The Role of Hypoxic Inhibition of Prolyl Hydroxylase Activity for the Induction of NF- κ B. <i>Journal of Immunology</i> , 2010, 185, 1786-1793.	0.4	67
20	HIF-1 α is a protective factor in conditional PHD2-deficient mice suffering from severe HIF-2 α -induced excessive erythropoiesis. <i>Blood</i> , 2013, 121, 1436-1445.	0.6	67
21	Hypoxia-inducible Factor Prolyl-4-hydroxylase PHD2 Protein Abundance Depends on Integral Membrane Anchoring of FKBP38. <i>Journal of Biological Chemistry</i> , 2009, 284, 23046-23058.	1.6	66
22	Oxygen-sensing under the influence of nitric oxide. <i>Cellular Signalling</i> , 2010, 22, 349-356.	1.7	65
23	Role of hypoxia inducible factor-1 α for interferon synthesis in mouse dendritic cells. <i>Biological Chemistry</i> , 2013, 394, 495-505.	1.2	60
24	Chelation of Cellular Calcium Modulates Hypoxia-inducible Gene Expression through Activation of Hypoxia-inducible Factor-1 α . <i>Journal of Biological Chemistry</i> , 2004, 279, 44976-44986.	1.6	57
25	Nuclear Oxygen Sensing: Induction of Endogenous Prolyl-hydroxylase 2 Activity by Hypoxia and Nitric Oxide. <i>Journal of Biological Chemistry</i> , 2008, 283, 31745-31753.	1.6	54
26	Complex Regulation of the Transactivation Function of Hypoxia-inducible Factor-1 α by Direct Interaction with Two Distinct Domains of the CREB-binding Protein/p300. <i>Journal of Biological Chemistry</i> , 2010, 285, 2601-2609.	1.6	53
27	Hypoxia-Dependent HIF-1 Activation Impacts on Tissue Remodeling in Graves' Ophthalmopathy—Implications for Smoking. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 4834-4842.	1.8	53
28	Oxygen sensing by Prolyl-4-Hydroxylase PHD2 within the nuclear compartment and the influence of compartmentalisation on HIF-1 signalling. <i>Journal of Cell Science</i> , 2012, 125, 5168-76.	1.2	52
29	Knockdown of myeloid cell hypoxia-inducible factor-1 α ameliorates the acute pathology in DSS-induced colitis. <i>PLoS ONE</i> , 2017, 12, e0190074.	1.1	42
30	The Importance of Hypoxia-Inducible Factors (HIF-1 and HIF-2) for the Pathophysiology of Inflammatory Bowel Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8551.	1.8	41
31	Myeloid Hypoxia-Inducible Factor-1 α Is Essential for Skeletal Muscle Regeneration in Mice. <i>Journal of Immunology</i> , 2013, 191, 407-414.	0.4	40
32	Examining the Involvement of Erythropoiesis-Stimulating Agents in Tumor Proliferation (Erythropoietin Receptors, Receptor Binding, Signal Transduction), Angiogenesis, and Venous Thromboembolic Events. <i>Oncologist</i> , 2009, 14, 34-42.	1.9	39
33	Now a Nobel gas: oxygen. <i>Pflügers Archiv European Journal of Physiology</i> , 2019, 471, 1343-1358.	1.3	39
34	Oxygen Sensing and the Activation of the Hypoxia Inducible Factor 1 (HIF-1)—Invited Article. <i>Advances in Experimental Medicine and Biology</i> , 2009, 648, 197-206.	0.8	39
35	Nitric oxide affects the production of reactive oxygen species in hepatoma cells: implications for the process of oxygen sensing. <i>Free Radical Biology and Medicine</i> , 2000, 29, 515-521.	1.3	38
36	Hypoxia-Inducible Factor (HIF) 1 α Accumulation and HIF Target Gene Expression Are Impaired after Induction of Endotoxin Tolerance. <i>Journal of Immunology</i> , 2009, 182, 6470-6476.	0.4	34

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37	Things get broken: the hypoxia-inducible factor prolyl hydroxylases in ischemic heart disease. Basic Research in Cardiology, 2019, 114, 16.	2.5	34
38	Optical analysis of the HIF-1 complex in living cells by FRET and FRAP. FASEB Journal, 2007, 21, 700-707.	0.2	33
39	Synthetic transactivation screening reveals ETV4 as broad coactivator of hypoxia-inducible factor signaling. Nucleic Acids Research, 2012, 40, 1928-1943.	6.5	32
40	Dendritic Cells under Hypoxia: How Oxygen Shortage Affects the Linkage between Innate and Adaptive Immunity. Journal of Immunology Research, 2016, 2016, 1-8.	0.9	29
41	Erythropoietin Restores Long-Term Neurocognitive Function Involving Mechanisms of Neuronal Plasticity in a Model of Hyperoxia-Induced Preterm Brain Injury. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-13.	1.9	29
42	NK cells in hypoxic skin mediate a trade-off between wound healing and antibacterial defence. Nature Communications, 2021, 12, 4700.	5.8	29
43	The HIF-1 response to simulated ischemia in mouse skeletal muscle cells neither enhances glycolysis nor prevents myotube cell death. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R1693-R1701.	0.9	28
44	Non-hypoxic activation of the negative regulatory feedback loop of prolyl-hydroxylase oxygen sensors. Biochemical and Biophysical Research Communications, 2009, 384, 519-523.	1.0	26
45	Ways into Understanding HIF Inhibition. Cancers, 2021, 13, 159.	1.7	26
46	Targeting VEGF-A in myeloid cells enhances natural killer cell responses to chemotherapy and ameliorates cachexia. Nature Communications, 2016, 7, 12528.	5.8	25
47	Nitric oxide donors suppress erythropoietin production in vitro. Pflugers Archiv European Journal of Physiology, 1996, 432, 980-985.	1.3	24
48	Oxygen sensing in intestinal mucosal inflammation. Pflugers Archiv European Journal of Physiology, 2016, 468, 77-84.	1.3	24
49	The impact of nitrosomelatonin as nitric oxide donor in cell culture experiments. Journal of Pineal Research, 2008, 45, 489-496.	3.4	23
50	The transcription factor HIF-1 α mediates plasticity of NKp46+ innate lymphoid cells in the gut. Journal of Experimental Medicine, 2022, 219, .	4.2	22
51	Visualization of the three-dimensional organization of hypoxia-inducible factor-1 α and interacting cofactors in subnuclear structures. Biological Chemistry, 2004, 385, 231-7.	1.2	21
52	Measuring oxygen levels in Caco-2 cultures. Hypoxia (Auckland, N Z), 2015, 3, 53.	1.9	20
53	Dose-dependent effects of levetiracetam after hypoxia and hypothermia in the neonatal mouse brain. Brain Research, 2016, 1646, 116-124.	1.1	20
54	When the Brain Years for Oxygen. NeuroSignals, 2019, 27, 50-61.	0.5	20

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55	More insights into the CCN3/Connexin43 interaction complex and its role for signaling. <i>Journal of Cellular Biochemistry</i> , 2010, 110, 129-140.	1.2	17
56	Hypoxia-inducible factor-2 β is crucial for proper brain development. <i>Scientific Reports</i> , 2020, 10, 19146.	1.6	17
57	Potential role of hypoxia in early stages of Hodgkin lymphoma pathogenesis. <i>Haematologica</i> , 2015, 100, 1320-1326.	1.7	16
58	Activation of Hypoxia-Inducible Factor 1 in Skeletal Muscle Cells After Exposure to Damaged Muscle Cell Debris. <i>Shock</i> , 2011, 35, 632-638.	1.0	14
59	Repetitive Erythropoietin Treatment Improves Long-Term Neurocognitive Outcome by Attenuating Hyperoxia-Induced Hypomyelination in the Developing Brain. <i>Frontiers in Neurology</i> , 2020, 11, 804.	1.1	14
60	Albumin-derived perfluorocarbon-based artificial oxygen carriers can avoid hypoxic tissue damage in massive hemodilution. <i>Scientific Reports</i> , 2020, 10, 11950.	1.6	14
61	Multifocal animated imaging of changes in cellular oxygen and calcium concentrations and membrane potential within the intact adult mouse carotid body <i>ex vivo</i> . <i>American Journal of Physiology - Cell Physiology</i> , 2011, 301, C266-C271.	2.1	13
62	The role of myoglobin in epithelial cancers: Insights from transcriptomics. <i>International Journal of Molecular Medicine</i> , 2020, 45, 385-400.	1.8	13
63	Molecular Imaging. <i>Annals of the New York Academy of Sciences</i> , 2009, 1177, 74-81.	1.8	10
64	Sphingolipids in inflammatory hypoxia. <i>Biological Chemistry</i> , 2018, 399, 1169-1174.	1.2	10
65	Prolyl hydroxylase domain 2 reduction enhances skeletal muscle tissue regeneration after soft tissue trauma in mice. <i>PLoS ONE</i> , 2020, 15, e0233261.	1.1	10
66	The Function of Hypoxia-Inducible Factor (HIF) Is Independent of the Endoplasmic Reticulum Protein OS-9. <i>PLoS ONE</i> , 2011, 6, e19151.	1.1	10
67	Myoglobin Protects Breast Cancer Cells Due to Its ROS and NO Scavenging Properties. <i>Frontiers in Endocrinology</i> , 2021, 12, 732190.	1.5	10
68	Nanoscopy of the cellular response to hypoxia by means of fluorescence resonance energy transfer (FRET) and new FRET software. <i>PMC Biophysics</i> , 2010, 3, 5.	2.2	9
69	Carotid body type I cells engage flavoprotein and Pin1 for oxygen sensing. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 318, C719-C731.	2.1	9
70	Oxygen Sensitivity of Placental Trophoblast Connexins 43 and 46: A Role in Preeclampsia?. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 2924-2937.	1.2	8
71	Role of N-acetyl-N-nitroso-tryptophan as nitric oxide donor in the modulation of HIF-1-dependent signaling. <i>Biological Chemistry</i> , 2010, 391, 533-540.	1.2	7
72	Optical analysis of cellular oxygen sensing. <i>Experimental Cell Research</i> , 2017, 356, 122-127.	1.2	7

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73	Glycine Pretreatment Ameliorates Liver Injury After Partial Hepatectomy in the Rat. <i>Journal of Investigative Surgery</i> , 2010, 23, 12-20.	0.6	6
74	Oxygen Sensing in Innate Immune Cells: How Inflammation Broadens Classical Hypoxia-Inducible Factor Regulation in Myeloid Cells. <i>Antioxidants and Redox Signaling</i> , 2022, 37, 956-971.	2.5	6
75	An automated real-time microscopy system for analysis of fluorescence resonance energy transfer. , 2010, , .		5
76	Optical Analysis of Hypoxia Inducible Factor (HIF)-1 Complex Assembly: Imaging of Cellular Oxygen Sensing. <i>Advances in Experimental Medicine and Biology</i> , 2016, 903, 247-258.	0.8	5
77	(H)IF applicable: promotion of neurogenesis by induced HIF-2 signalling after ischaemia. <i>Pflugers Archiv European Journal of Physiology</i> , 2021, 473, 1287-1299.	1.3	5
78	Hypoxia-inducible factor 1 α is Essential for Macrophage-mediated Erythroblast Proliferation in Acute Friend Retrovirus Infection. <i>Scientific Reports</i> , 2017, 7, 17236.	1.6	4
79	Knockout of Factor-Inhibiting HIF (<i>Hif1an</i>) in Colon Epithelium Attenuates Chronic Colitis but Does Not Reduce Colorectal Cancer in Mice. <i>Journal of Immunology</i> , 2022, 208, 1280-1291.	0.4	4
80	Erythropoiesis“once more HIF!. <i>Blood</i> , 2008, 112, 931-932.	0.6	3
81	Cellular and Molecular Defenses Against Hypoxia. , 2014, , 23-35.		3
82	Severe Blunt Muscle Trauma in Rats: Only Marginal Hypoxia in the Injured Area. <i>PLoS ONE</i> , 2014, 9, e111151.	1.1	3
83	Two-Photon Imaging of Cellular Activities in Oxygen Sensing Tissues. <i>Microscopy and Microanalysis</i> , 2008, 14, 519-525.	0.2	2
84	Rounding up the usual suspects in O ₂ sensing: CO, NO, and H ₂ S ₁ . <i>Science Signaling</i> , 2015, 8, fs10.	1.6	2
85	Monitoring of Cellular Responses to Hypoxia. <i>Methods in Molecular Biology</i> , 2010, 591, 243-255.	0.4	2
86	Carotid body physiology meets cytochrome c oxidase crystallography Commentary to Ortega-S��nchez P, L��pez-Barneo J. <i>Physiology of the Carotid Body: From Molecules to Disease. Annu Rev Physiol</i> 82: 127-149, 2020. Torres-Torrel H, Ortega-S��nchez P, Gao L, L��pez-Barneo J. Lactate sensing mechanisms in arterial chemoreceptor cells. <i>Nat Commun</i> 12: 4166, 2021. <i>Pflugers Archiv European Journal of Physiology</i> , 2022, 474, 187-189.	1.3	2
87	Altered hypoxia inducible factor regulation in hereditary haemorrhagic telangiectasia. <i>Scientific Reports</i> , 2022, 12, 5877.	1.6	2
88	Acupuncture“brain interactions as hypothesized by mood scale recordings. <i>Medical Hypotheses</i> , 2015, 85, 371-379.	0.8	1
89	Fluorescence Lifetime Imaging Microscopy (FLIM) as a Tool to Investigate Hypoxia-Induced Protein-Protein Interaction in Living Cells. <i>Methods in Molecular Biology</i> , 2018, 1742, 45-53.	0.4	1
90	The higher they climb: plasma levels of angiogenic and lymphangiogenic factors during ascent to Mount Everest. <i>Acta Physiologica</i> , 2009, 196, 191-191.	1.8	0

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91	Highlight: sensing hypoxia in the cell and the organism. <i>Biological Chemistry</i> , 2013, 394, 433-434.	1.2	0
92	Hypoxia induced gene expression: the specificity switch!. <i>Cell Cycle</i> , 2015, 14, 1491-1491.	1.3	0
93	The endocrine kidney: tampering with oxygen sensors may change your character. <i>Journal of Physiology</i> , 2022, 600, 425-426.	1.3	0