Joachim Fandrey

List of Publications by Year
in descending order

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93	5,010	126858	91828
papers	citations	33 h-index	69 g-index

93	93	93	6122
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Carotid body physiology meets cytochrome c oxidase crystallography Commentary to Ortega-SÃ¡enz P, LÃ³pez-Barneo J. Physiology of the Carotid Body: From Molecules to Disease. Annu Rev Physiol 82: 127â€“149, 2020. Torres-Torrelo H, Ortega-SÃ¡enz P, Gao L, LÃ³pez-Barneo J. Lactate sensing mechanisms in arterial chemoreceptor cells. Nat Commun 12: 4166, 2021. Pflugers Archiv European Journal of Physiology, 2022, 474, 187-189.	1.3	2
2	The endocrine kidney: tampering with oxygen sensors may change your character. Journal of Physiology, 2022, 600, 425-426.	1.3	0
3	Oxygen Sensing in Innate Immune Cells: How Inflammation Broadens Classical Hypoxia-Inducible Factor Regulation in Myeloid Cells. Antioxidants and Redox Signaling, 2022, 37, 956-971.	2.5	6
4	The transcription factor HIF-1Î± mediates plasticity of NKp46+ innate lymphoid cells in the gut. Journal of Experimental Medicine, 2022, 219, .	4.2	22
5	Knockout of Factor-Inhibiting HIF (Hif1an) in Colon Epithelium Attenuates Chronic Colitis but Does Not Reduce Colorectal Cancer in Mice. Journal of Immunology, 2022, 208, 1280-1291.	0.4	4
6	Altered hypoxia inducible factor regulation in hereditary haemorrhagic telangiectasia. Scientific Reports, 2022, 12, 5877.	1.6	2
7	Ways into Understanding HIF Inhibition. Cancers, 2021, 13, 159.	1.7	26
8	(H)IF applicable: promotion of neurogenesis by induced HIF-2 signalling after ischaemia. Pflugers Archiv European Journal of Physiology, 2021, 473, 1287-1299.	1.3	5
9	NK cells in hypoxic skin mediate a trade-off between wound healing and antibacterial defence. Nature Communications, 2021, 12, 4700.	5.8	29
10	Myoglobin Protects Breast Cancer Cells Due to Its ROS and NO Scavenging Properties. Frontiers in Endocrinology, 2021, 12, 732190.	1.5	10
11	The Importance of Hypoxia-Inducible Factors (HIF-1 and HIF-2) for the Pathophysiology of Inflammatory Bowel Disease. International Journal of Molecular Sciences, 2020, 21, 8551.	1.8	41
12	Hypoxia-inducible factor-2Î± is crucial for proper brain development. Scientific Reports, 2020, 10, 19146.	1.6	17
13	Repetitive Erythropoietin Treatment Improves Long-Term Neurocognitive Outcome by Attenuating Hyperoxia-Induced Hypomyelination in the Developing Brain. Frontiers in Neurology, 2020, 11, 804.	1.1	14
14	Albumin-derived perfluorocarbon-based artificial oxygen carriers can avoid hypoxic tissue damage in massive hemodilution. Scientific Reports, 2020, 10, 11950.	1.6	14
15	Prolyl hydroxylase domain 2 reduction enhances skeletal muscle tissue regeneration after soft tissue trauma in mice. PLoS ONE, 2020, 15, e0233261.	1.1	10
16	Carotid body type I cells engage flavoprotein and Pin1 for oxygen sensing. American Journal of Physiology - Cell Physiology, 2020, 318, C719-C731.	2.1	9
17	The role of myoglobin in epithelial cancers: Insights from transcriptomics. International Journal of Molecular Medicine, 2020, 45, 385-400.	1.8	13
18	Things get broken: the hypoxia-inducible factor prolyl hydroxylases in ischemic heart disease. Basic Research in Cardiology, 2019, 114, 16.	2.5	34

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19	Now a Nobel gas: oxygen. Pflugers Archiv European Journal of Physiology, 2019, 471, 1343-1358.	1.3	39
20	Effect of HIV infection and antiretroviral therapy on immune cellular functions. JCI Insight, 2019, 4, .	2.3	70
21	When the Brain Yearns for Oxygen. NeuroSignals, 2019, 27, 50-61.	0.5	20
22	Fluorescence Lifetime Imaging Microscopy (FLIM) as a Tool to Investigate Hypoxia-Induced Protein-Protein Interaction in Living Cells. Methods in Molecular Biology, 2018, 1742, 45-53.	0.4	1
23	Sphingolipids in inflammatory hypoxia. Biological Chemistry, 2018, 399, 1169-1174.	1.2	10
24	Optical analysis of cellular oxygen sensing. Experimental Cell Research, 2017, 356, 122-127.	1.2	7
25	Hypoxia-inducible factor 1Î± is Essential for Macrophage-mediated Erythroblast Proliferation in Acute Friend Retrovirus Infection. Scientific Reports, 2017, 7, 17236.	1.6	4
26	Loss of HIF-1Î± in natural killer cells inhibits tumour growth by stimulating non-productive angiogenesis. Nature Communications, 2017, 8, 1597.	5.8	132
27	Knockdown of myeloid cell hypoxia-inducible factor-1Î± ameliorates the acute pathology in DSS-induced colitis. PLoS ONE, 2017, 12, e0190074.	1.1	42
28	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
29	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
30	Optical Analysis of Hypoxia Inducible Factor (HIF)-1 Complex Assembly: Imaging of Cellular Oxygen Sensing. Advances in Experimental Medicine and Biology, 2016, 903, 247-258.	0.8	5
31	Dose-dependent effects of levetiracetam after hypoxia and hypothermia in the neonatal mouse brain. Brain Research, 2016, 1646, 116-124.	1.1	20
32	Hypoxia-Dependent HIF-1 Activation Impacts on Tissue Remodeling in Graves' Ophthalmopathyâ€”Implications for Smoking. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 4834-4842.	1.8	53
33	Targeting VEGF-A in myeloid cells enhances natural killer cell responses to chemotherapy and ameliorates cachexia. Nature Communications, 2016, 7, 12528.	5.8	25
34	Oxygen sensing in intestinal mucosal inflammation. Pflugers Archiv European Journal of Physiology, 2016, 468, 77-84.	1.3	24
35	Potential role of hypoxia in early stages of Hodgkin lymphoma pathogenesis. Haematologica, 2015, 100, 1320-1326.	1.7	16
36	Oxygen Sensitivity of Placental Trophoblast Connexins 43 and 46: A Role in Preeclampsia?. Journal of Cellular Biochemistry, 2015, 116, 2924-2937.	1.2	8

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37	Measuring oxygen levels in Caco-2 cultures. Hypoxia (Auckland, N Z), 2015, 3, 53.	1.9	20
38	Hypoxia induced gene expression: the specificity switch!. Cell Cycle, 2015, 14, 1491-1491.	1.3	0
39	Rounding up the usual suspects in O ₂ sensing: CO, NO, and H ₂ S!. Science Signaling, 2015, 8, fs10.	1.6	2
40	Acupunctureâ€“brain interactions as hypothesized by mood scale recordings. Medical Hypotheses, 2015, 85, 371-379.	0.8	1
41	Cellular and Molecular Defenses Against Hypoxia. , 2014, , 23-35.		3
42	Severe Blunt Muscle Trauma in Rats: Only Marginal Hypoxia in the Injured Area. PLoS ONE, 2014, 9, e111151.	1.1	3
43	Role of hypoxia inducible factor-1Î± for interferon synthesis in mouse dendritic cells. Biological Chemistry, 2013, 394, 495-505.	1.2	60
44	HIF-1Î± is a protective factor in conditional PHD2-deficient mice suffering from severe HIF-2Î±â€“induced excessive erythropoiesis. Blood, 2013, 121, 1436-1445.	0.6	67
45	Highlight: sensing hypoxia in the cell and the organism. Biological Chemistry, 2013, 394, 433-434.	1.2	0
46	Myeloid Hypoxia-Inducible Factor-1Î± Is Essential for Skeletal Muscle Regeneration in Mice. Journal of Immunology, 2013, 191, 407-414.	0.4	40
47	Synthetic transactivation screening reveals ETV4 as broad coactivator of hypoxia-inducible factor signaling. Nucleic Acids Research, 2012, 40, 1928-1943.	6.5	32
48	Oxygen sensing by Prolyl-4-Hydroxylase PHD2 within the nuclear compartment and the influence of compartimentalisation on HIF-1 signalling. Journal of Cell Science, 2012, 125, 5168-76.	1.2	52
49	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
50	Activation of Hypoxia-Inducible Factor 1 in Skeletal Muscle Cells After Exposure to Damaged Muscle Cell Debris. Shock, 2011, 35, 632-638.	1.0	14
51	Multifocal animated imaging of changes in cellular oxygen and calcium concentrations and membrane potential within the intact adult mouse carotid body ex vivo. American Journal of Physiology - Cell Physiology, 2011, 301, C266-C271.	2.1	13
52	The Function of Hypoxia-Inducible Factor (HIF) Is Independent of the Endoplasmic Reticulum Protein OS-9. PLoS ONE, 2011, 6, e19151.	1.1	10
53	More insights into the CCN3/Connexin43 interaction complex and its role for signaling. Journal of Cellular Biochemistry, 2010, 110, 129-140.	1.2	17
54	Nanoscopy of the cellular response to hypoxia by means of fluorescence resonance energy transfer (FRET) and new FRET software. PMC Biophysics, 2010, 3, 5.	2.2	9

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55	Glycine Pretreatment Ameliorates Liver Injury After Partial Hepatectomy in the Rat. Journal of Investigative Surgery, 2010, 23, 12-20.	0.6	6
56	An automated real-time microscopy system for analysis of fluorescence resonance energy transfer. , 2010, , .		5
57	Role of N-acetyl-N-nitroso-tryptophan as nitric oxide donor in the modulation of HIF-1-dependent signaling. Biological Chemistry, 2010, 391, 533-540.	1.2	7
58	Complex Regulation of the Transactivation Function of Hypoxia-inducible Factor-1Î± by Direct Interaction with Two Distinct Domains of the CREB-binding Protein/p300. Journal of Biological Chemistry, 2010, 285, 2601-2609.	1.6	53
59	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-Î°B. Journal of Immunology, 2010, 185, 1786-1793.	0.4	67
60	Oxygen-sensing under the influence of nitric oxide. Cellular Signalling, 2010, 22, 349-356.	1.7	65
61	Monitoring of Cellular Responses to Hypoxia. Methods in Molecular Biology, 2010, 591, 243-255.	0.4	2
62	Hypoxia-Inducible Factor (HIF) 1Î± Accumulation and HIF Target Gene Expression Are Impaired after Induction of Endotoxin Tolerance. Journal of Immunology, 2009, 182, 6470-6476.	0.4	34
63	Examining the Involvement of Erythropoiesisâ€Stimulating Agents in Tumor Proliferation (Erythropoietin Receptors, Receptor Binding, Signal Transduction), Angiogenesis, and Venous Thromboembolic Events. Oncologist, 2009, 14, 34-42.	1.9	39
64	The higher they climb: plasma levels of angiogenic and lymphangiogenic factors during ascent to Mount Everest. Acta Physiologica, 2009, 196, 191-191.	1.8	0
65	Molecular Imaging. Annals of the New York Academy of Sciences, 2009, 1177, 74-81.	1.8	10
66	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
67	Hypoxia-inducible Factor Prolyl-4-hydroxylase PHD2 Protein Abundance Depends on Integral Membrane Anchoring of FKBP38. Journal of Biological Chemistry, 2009, 284, 23046-23058.	1.6	66
68	Oxygen Sensing and the Activation of the Hypoxia Inducible Factor 1 (HIF-1)â€“ Invited Article. Advances in Experimental Medicine and Biology, 2009, 648, 197-206.	0.8	39
69	The impact of Nâ€nitrosomelatonin as nitric oxide donor in cell culture experiments. Journal of Pineal Research, 2008, 45, 489-496.	3.4	23
70	Nuclear Oxygen Sensing: Induction of Endogenous Prolyl-hydroxylase 2 Activity by Hypoxia and Nitric Oxide. Journal of Biological Chemistry, 2008, 283, 31745-31753.	1.6	54
71	Erythropoietin Receptors on Tumor Cells: What Do They Mean?. Oncologist, 2008, 13, 16-20.	1.9	185
72	Two-Photon Imaging of Cellular Activities in Oxygen Sensing Tissues. Microscopy and Microanalysis, 2008, 14, 519-525.	0.2	2

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73	Erythropoiesisâ€"once more HIF!. Blood, 2008, 112, 931-932.	0.6	3
74	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
75	Optical analysis of the HIFâ€1 complex in living cells by FRET and FRAP. FASEB Journal, 2007, 21, 700-707.	0.2	33
76	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
77	Regulation of Hypoxiaâ€Inducible Factors During Inflammation. Methods in Enzymology, 2007, 435, 403-419.	0.4	102
78	Regulating cellular oxygen sensing by hydroxylation. Cardiovascular Research, 2006, 71, 642-651.	1.8	189
79	The good, the bad and the ugly in oxygen-sensing: ROS, cytochromes and prolyl-hydroxylases. Cardiovascular Research, 2006, 71, 195-207.	1.8	97
80	Bacterial lipopolysaccharide induces HIF-1 activation in human monocytes via p44/42 MAPK and NF-Î²B. Biochemical Journal, 2006, 396, 517-527.	1.7	379
81	The Proinflammatory Cytokine Interleukin 1Î² 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
82	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
83	Chelation of Cellular Calcium Modulates Hypoxia-inducible Gene Expression through Activation of Hypoxia-inducible Factor-1Î±. Journal of Biological Chemistry, 2004, 279, 44976-44986.	1.6	57
84	Visualization of the three-dimensional organization of hypoxia-inducible factor-1Î± and interacting cofactors in subnuclear structures. Biological Chemistry, 2004, 385, 231-7.	1.2	21
85	Intracellular localisation of human HIF-1Î± hydroxylases:implications for oxygen sensing. Journal of Cell Science, 2003, 116, 1319-1326.	1.2	378
86	Nitric Oxide Impairs Normoxic Degradation of HIF-1Î± by Inhibition of Prolyl Hydroxylases. Molecular Biology of the Cell, 2003, 14, 3470-3481.	0.9	375
87	NO and TNF-Î± released from activated macrophages stabilize HIF-1Î± in resting tubular LLC-PK₁cells. American Journal of Physiology - Cell Physiology, 2003, 284, C439-C446.	2.1	78
88	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
89	Hypoxia-inducible erythropoietin gene expression in human neuroblastoma cells. Blood, 2002, 100, 2623-2628.	0.6	77
90	Accumulation of HIF-1Î± under the influence of nitric oxide. Blood, 2001, 97, 1009-1015.	0.6	252

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91	Nitric oxide affects the production of reactive oxygen species in hepatoma cells: implications for the process of oxygen sensing. Free Radical Biology and Medicine, 2000, 29, 515-521.	1.3	38
92	Interleukin-1Î² and Tumor Necrosis Factor-îœ€ Stimulate DNA Binding of Hypoxia-Inducible Factor-1. Blood, 1999, 94, 1561-1567.	0.6	423
93	Nitric oxide donors suppress erythropoietin production in vitro. Pflugers Archiv European Journal of Physiology, 1996, 432, 980-985.	1.3	24