Peppi Koivunen

List of Publications by Year in descending order

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DEDDI KONVIINEN

#	Article	IF	CITATIONS
1	PHD1 controls muscle mTORC1 in a hydroxylation-independent manner by stabilizing leucyl tRNA synthetase. Nature Communications, 2020, 11, 174.	12.8	1,868
2	Characterization of the Human Prolyl 4-Hydroxylases That Modify the Hypoxia-inducible Factor. Journal of Biological Chemistry, 2003, 278, 30772-30780.	3.4	690
3	Transformation by the (R)-enantiomer of 2-hydroxyglutarate linked to EGLN activation. Nature, 2012, 483, 484-488.	27.8	630
4	(<i>R</i>)-2-Hydroxyglutarate Is Sufficient to Promote Leukemogenesis and Its Effects Are Reversible. Science, 2013, 339, 1621-1625.	12.6	624
5	Inhibition of Hypoxia-inducible Factor (HIF) Hydroxylases by Citric Acid Cycle Intermediates. Journal of Biological Chemistry, 2007, 282, 4524-4532.	3.4	441
6	Catalytic Properties of the Asparaginyl Hydroxylase (FIH) in the Oxygen Sensing Pathway Are Distinct from Those of Its Prolyl 4-Hydroxylases. Journal of Biological Chemistry, 2004, 279, 9899-9904.	3.4	361
7	A genetic mechanism for Tibetan high-altitude adaptation. Nature Genetics, 2014, 46, 951-956.	21.4	322
8	Histone demethylase KDM6A directly senses oxygen to control chromatin and cell fate. Science, 2019, 363, 1217-1222.	12.6	281
9	Fumarate and Succinate Regulate Expression of Hypoxia-inducible Genes via TET Enzymes. Journal of Biological Chemistry, 2016, 291, 4256-4265.	3.4	234
10	Effect of desferrioxamine and metals on the hydroxylases in the oxygen sensing pathway. FASEB Journal, 2005, 19, 1308-1310.	0.5	192
11	Paracrine Induction of HIF by Glutamate in Breast Cancer: EglN1 Senses Cysteine. Cell, 2016, 166, 126-139.	28.9	187
12	An Endoplasmic Reticulum Transmembrane Prolyl 4-Hydroxylase Is Induced by Hypoxia and Acts on Hypoxia-inducible Factor α. Journal of Biological Chemistry, 2007, 282, 30544-30552.	3.4	124
13	2-Oxoglutarate-dependent dioxygenases in cancer. Nature Reviews Cancer, 2020, 20, 710-726.	28.4	119
14	HIF-1α is upregulated in human mesenchymal stem cells. Stem Cells, 2013, 31, 1902-1909.	3.2	115
15	The Length of Peptide Substrates Has a Marked Effect on Hydroxylation by the Hypoxia-inducible Factor Prolyl 4-Hydroxylases. Journal of Biological Chemistry, 2006, 281, 28712-28720.	3.4	111
16	Prolyl hydroxylation by EglN2 destabilizes FOXO3a by blocking its interaction with the USP9x deubiquitinase. Genes and Development, 2014, 28, 1429-1444.	5.9	111
17	Ferritin-Mediated Iron Sequestration Stabilizes Hypoxia-Inducible Factor-1α upon LPS Activation in the Presence of Ample Oxygen. Cell Reports, 2015, 13, 2048-2055.	6.4	106
18	Hearts of Hypoxia-inducible Factor Prolyl 4-Hydroxylase-2 Hypomorphic Mice Show Protection against Acute Ischemia-Reperfusion Injury. Journal of Biological Chemistry, 2010, 285, 13646-13657.	3.4	100

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19	HIF Prolyl 4-Hydroxylase-2 Inhibition Improves Glucose and Lipid Metabolism and Protects Against Obesity and Metabolic Dysfunction. Diabetes, 2014, 63, 3324-3333.	0.6	95
20	Characterization of a Second Arabidopsis thaliana Prolyl 4-Hydroxylase with Distinct Substrate Specificity. Journal of Biological Chemistry, 2005, 280, 1142-1148.	3.4	89
21	The Primary Substrate Binding Site in the b′ Domain of ERp57 Is Adapted for Endoplasmic Reticulum Lectin Association. Journal of Biological Chemistry, 2004, 279, 18861-18869.	3.4	88
22	Structural basis of homo- and heterotrimerization of collagen I. Nature Communications, 2017, 8, 14671.	12.8	79
23	Sodium valproate induces mitochondrial respiration dysfunction in HepG2 in vitro cell model. Toxicology, 2015, 331, 47-56.	4.2	71
24	Hypoxia-Inducible Factor Prolyl 4-Hydroxylase-2 Inhibition Protects Against Development of Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 608-617.	2.4	71
25	Hypoxia-inducible factor prolyl 4-hydroxylases: common and specific roles. Biological Chemistry, 2013, 394, 435-448.	2.5	68
26	The TET enzymes. Cellular and Molecular Life Sciences, 2018, 75, 1339-1348.	5.4	56
27	Differences in hydroxylation and binding of Notch and HIF-1α demonstrate substrate selectivity for factor inhibiting HIF-1 (FIH-1). International Journal of Biochemistry and Cell Biology, 2009, 41, 1563-1571.	2.8	55
28	Transmembrane prolyl 4-hydroxylase is a fourth prolyl 4-hydroxylase regulating EPO production and erythropoiesis. Blood, 2012, 120, 3336-3344.	1.4	55
29	Three Binding Sites in Protein-disulfide Isomerase Cooperate in Collagen Prolyl 4-Hydroxylase Tetramer Assembly. Journal of Biological Chemistry, 2005, 280, 5227-5235.	3.4	51
30	The Circadian Clock Protein CRY1 Is a Negative Regulator of HIF-1α. IScience, 2019, 13, 284-304.	4.1	49
31	Identification and Characterization of Structural Domains of Human ERp57. Journal of Biological Chemistry, 2004, 279, 13607-13615.	3.4	47
32	Activation of Hypoxia Response in Endothelial Cells Contributes to Ischemic Cardioprotection. Molecular and Cellular Biology, 2013, 33, 3321-3329.	2.3	47
33	CD146 + cells are essential for kidney vasculature development. Kidney International, 2016, 90, 311-324.	5.2	47
34	Domains b′ and a′ of Protein Disulfide Isomerase Fulfill the Minimum Requirement for Function as a Subunit of Prolyl 4-Hydroxylase. Journal of Biological Chemistry, 2001, 276, 11287-11293.	3.4	46
35	Cancer-associated 2-oxoglutarate analogues modify histone methylation by inhibiting histone lysine demethylases. Journal of Molecular Biology, 2018, 430, 3081-3092.	4.2	43
36	ERp60 does not substitute for protein disulphide isomerase as the β-subunit of prolyl 4-hydroxylase. Biochemical Journal, 1996, 316, 599-605.	3.7	42

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37	Elevated protein carbonyl and HIFâ€1α levels in eyes with proliferative diabetic retinopathy. Acta Ophthalmologica, 2014, 92, 323-327.	1.1	40
38	Many Amino Acid Substitutions in a Hypoxia-inducible Transcription Factor (HIF)-1α-like Peptide Cause Only Minor Changes in Its Hydroxylation by the HIF Prolyl 4-Hydroxylases. Journal of Biological Chemistry, 2004, 279, 55051-55059.	3.4	37
39	Expressions of individual PHDs associate with good prognostic factors and increased proliferation in breast cancer patients. Breast Cancer Research and Treatment, 2012, 133, 179-188.	2.5	37
40	Deficiency of a Transmembrane Prolyl 4-Hydroxylase in the Zebrafish Leads to Basement Membrane Defects and Compromised Kidney Function. Journal of Biological Chemistry, 2010, 285, 42023-42032.	3.4	36
41	Baculovirus expression of two protein disulphide isomerase isoforms from <i>Caenorhabditis elegans</i> and characterization of prolyl 4-hydroxylases containing one of these polypeptides as their β subunit. Biochemical Journal, 1996, 317, 721-729.	3.7	35
42	Hypoxia-Inducible Factor Prolyl 4-Hydroxylases and Metabolism. Trends in Molecular Medicine, 2018, 24, 1021-1035.	6.7	34
43	Hypoxia-inducible factor prolyl 4-hydroxylase inhibition in cardiometabolic diseases. Pharmacological Research, 2016, 114, 265-273.	7.1	26
44	Update on hypoxia-inducible factors and hydroxylases in oxygen regulatory pathways: from physiology to therapeutics. Hypoxia (Auckland, N Z), 2017, Volume 5, 11-20.	1.9	26
45	USP28 Deficiency Promotes Breast and Liver Carcinogenesis as well as Tumor Angiogenesis in a HIF-independent Manner. Molecular Cancer Research, 2018, 16, 1000-1012.	3.4	23
46	Systemic inactivation of hypoxia-inducible factor prolyl 4-hydroxylase 2 in mice protects from alcohol-induced fatty liver disease. Redox Biology, 2019, 22, 101145.	9.0	22
47	Assignment of 1H, 13C and 15N resonances of the a' domain of protein disulfide isomerase. Journal of Biomolecular NMR, 1999, 14, 195-196.	2.8	19
48	Clinical characterization, genetic mapping and whole-genome sequence analysis of a novel autosomal recessive intellectual disability syndrome. European Journal of Medical Genetics, 2014, 57, 543-551.	1.3	19
49	Hypoxia causes reductions in birth weight by altering maternal glucose and lipid metabolism. Scientific Reports, 2018, 8, 13583.	3.3	19
50	Biallelic loss-of-function P4HTM gene variants cause hypotonia, hypoventilation, intellectual disability, dysautonomia, epilepsy, and eye abnormalities (HIDEA syndrome). Genetics in Medicine, 2019, 21, 2355-2363.	2.4	19
51	Systematic evaluation of the association between hemoglobin levels and metabolic profile implicates beneficial effects of hypoxia. Science Advances, 2021, 7, .	10.3	19
52	Lack of P4H-TM in mice results in age-related retinal and renal alterations. Human Molecular Genetics, 2016, 25, 3810-3823.	2.9	17
53	Maternal hemoglobin associates with preterm delivery and small for gestational age in two Finnish birth cohorts. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2019, 238, 44-48.	1.1	16
54	HIF-P4H-2 inhibition enhances intestinal fructose metabolism and induces thermogenesis protecting against NAFLD. Journal of Molecular Medicine, 2020, 98, 719-731.	3.9	16

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55	Collagen Prolyl 4-Hydroxylase Tetramers and Dimers Show Identical Decreases in K Values for Peptide Substrates with Increasing Chain Length. Journal of Biological Chemistry, 2004, 279, 18656-18661.	3.4	14
56	HIF-P4H-2 deficiency protects against skeletal muscle ischemia-reperfusion injury. Journal of Molecular Medicine, 2016, 94, 301-310.	3.9	14
57	Null mutation in P4h-tm leads to decreased fear and anxiety and increased social behavior in mice. Neuropharmacology, 2019, 153, 63-72.	4.1	13
58	Combining targeted drugs to overcome and prevent resistance of solid cancers with some stem-like cell features. Oncotarget, 2014, 5, 9295-9307.	1.8	12
59	Influence of the Oxidoreductase ERp57 on the Folding of an Antibody Fab Fragment. Journal of Molecular Biology, 2004, 341, 1077-1084.	4.2	11
60	Higher hemoglobin levels are an independent risk factor for adverse metabolism and higher mortality in a 20-year follow-up. Scientific Reports, 2021, 11, 19936.	3.3	11
61	Notch Downregulation and Extramedullary Erythrocytosis in Hypoxia-Inducible Factor Prolyl 4-Hydroxylase 2-Deficient Mice. Molecular and Cellular Biology, 2017, 37, .	2.3	10
62	Prolyl hydroxylase domain 2 reduction enhances skeletal muscle tissue regeneration after soft tissue trauma in mice. PLoS ONE, 2020, 15, e0233261.	2.5	10
63	Transmembrane Prolyl 4-Hydroxylase is a Novel Regulator of Calcium Signaling in Astrocytes. ENeuro, 2021, 8, ENEURO.0253-20.2020.	1.9	10
64	Higher hemoglobin levels are an independent risk factor for gestational diabetes. Scientific Reports, 2022, 12, 1686.	3.3	10
65	Exploring effects of remote ischemic preconditioning in a pig model of hypothermic circulatory arrest. Scandinavian Cardiovascular Journal, 2017, 51, 233-241.	1.2	9
66	Systemic longâ€ŧerm inactivation of hypoxiaâ€inducible factor prolyl 4â€hydroxylase 2 ameliorates agingâ€induced changes in mice without affecting their life span. FASEB Journal, 2020, 34, 5590-5609.	0.5	9
67	Assignment of 1H, 13C and 15N resonances of the a' domain of ERp57. Journal of Biomolecular NMR, 2001, 20, 385-386.	2.8	8
68	The Pro-Oncogenic Adaptor CIN85 Acts as an Inhibitory Binding Partner of Hypoxia-Inducible Factor Prolyl Hydroxylase 2. Cancer Research, 2019, 79, 4042-4056.	0.9	8
69	The 2-oxoglutarate analog 3-oxoglutarate decreases normoxic hypoxia-inducible factor-1α in cancer cells, induces cell death, and reduces tumor xenograft growth. Hypoxia (Auckland, N Z), 2016, 4, 15.	1.9	7
70	Structure of transmembrane prolyl 4-hydroxylase reveals unique organization of EF and dioxygenase domains. Journal of Biological Chemistry, 2021, 296, 100197.	3.4	7
71	Kinetic Analysis of HIF Prolyl Hydroxylases. Methods in Molecular Biology, 2018, 1742, 15-25.	0.9	5
72	Activation of the hypoxia response pathway protects against age-induced cardiac hypertrophy. Journal of Molecular and Cellular Cardiology, 2022, 164, 148-155.	1.9	5

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73	Gestational Diabetes Prevalence at Moderate and High Altitude. High Altitude Medicine and Biology, 2018, 19, 367-372.	0.9	3
74	Hypoxia ameliorates maternal dietâ€induced insulin resistance during pregnancy while having a detrimental effect on the placenta. Physiological Reports, 2022, 10, e15302.	1.7	3
75	Inactivation of mouse transmembrane prolyl 4-hydroxylase increases blood brain barrier permeability and ischemia-induced cerebral neuroinflammation. Journal of Biological Chemistry, 2022, 298, 101721.	3.4	2
76	Contribution of HIF-P4H isoenzyme inhibition to metabolism indicates major beneficial effects being conveyed by HIF-P4H-2 antagonism. Journal of Biological Chemistry, 2022, 298, 102222.	3.4	2
77	Expression and Roles of Individual HIF Prolyl 4-Hydroxylase Isoenzymes in the Regulation of the Hypoxia Response Pathway along the Murine Gastrointestinal Epithelium. International Journal of Molecular Sciences, 2021, 22, 4038.	4.1	1
78	Genetic Ablation of Transmembrane Prolyl 4-Hydroxylase Reduces Atherosclerotic Plaques in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 2128-2140.	2.4	1
79	Enantiomer-Specific Transformation by 2HG Is Linked to Opposing Effects on α-Ketoglutarate-Dependent Dioxygenases. Blood, 2011, 118, LBA-4-LBA-4.	1.4	1
80	Enantiomer-Specific Transformation by 2HG Is Linked to Opposing Effects on α-Ketoglutarate-Dependent Dioxygenases. Blood, 2011, 118, LBA-4-LBA-4.	1.4	0
81	A Novel EGLN1/PHD2 High-Frequency Variant in Tibetans Protects Against Hypoxia-Induced Polycythemia Blood, 2012, 120, 2079-2079.	1.4	0
82	The Circadian Clock Protein CRY1 Is a Negative Regulator of HIF-11. SSRN Electronic Journal, 0, , .	0.4	0