Kostas Pantopoulos

List of Publications by Year
in descending order

115 papers	9,356 citations	50244 46 h-index	39638 94 g-index
118 all docs	118 docs citations	118 times ranked	11531 citing authors

#	Article	IF	Citations
1	Mitochondrial oxidative stress mediated Fe-induced ferroptosis via the NRF2-ARE pathway. Free Radical Biology and Medicine, 2022, 180, 95-107.	1.3	97
2	Hemojuvelin deficiency promotes liver mitochondrial dysfunction and predisposes mice to hepatocellular carcinoma. Communications Biology, 2022, 5, 153.	2.0	2
3	Manganese-Induced Oxidative Stress Contributes to Intestinal Lipid Depositionviathe Deacetylation of PPARÎ³ at K339 by SIRT1. Antioxidants and Redox Signaling, 2022, 37, 417-436.	2.5	13
4	HSF1-SELENOS pathway mediated dietary inorganic Se-induced lipogenesis via the up-regulation of PPARÎ³ expression in yellow catfish. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2022, 1865, 194802.	0.9	3
5	Iron increases lipid deposition via oxidative stress-mediated mitochondrial dysfunction and the HIF1Î±-PPARÎ³ pathway. Cellular and Molecular Life Sciences, 2022, 79, .	2.4	18
6	Identification of Circulating Endocan-1 and Ether Phospholipids as Biomarkers for Complications in Thalassemia Patients. Metabolites, 2021, 11, 70.	1.3	3
7	Iron Reshapes the Gut Microbiome and Host Metabolism. Journal of Lipid and Atherosclerosis, 2021, 10, 160.	1.1	14
8	Iron, FRDA, and intermediary metabolism. Blood, 2021, 137, 1994-1995.	0.6	0
9	Iron overload inhibits BMP/SMAD and IL-6/STAT3 signaling to hepcidin in cultured hepatocytes. PLoS ONE, 2021, 16, e0253475.	1.1	11
10	Tissueâ€Specific Regulation of Ferroportin in Wildâ€Type and Hjvâ€/â€•Mice Following Dietary Iron Manipulations. Hepatology Communications, 2021, 5, 2139-2150.	2.0	10
11	Liver Hormones. , 2020, , 425-444.		0
12	Regulatory Connections between Iron and Glucose Metabolism. International Journal of Molecular Sciences, 2020, 21, 7773.	1.8	26
13	Basics and principles of cellular and systemic iron homeostasis. Molecular Aspects of Medicine, 2020, 75, 100866.	2.7	110
14	Formulation and In-Vitro Characterization of Chitosan-Nanoparticles Loaded with the Iron Chelator Deferoxamine Mesylate (DFO). Pharmaceutics, 2020, 12, 238.	2.0	65
15	Hepatocellular heme oxygenase 1 deficiency does not affect inflammatory hepcidin regulation in mice. PLoS ONE, 2019, 14, e0219835.	1.1	2
16	Iron homeostasis and oxidative stress: An intimate relationship. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 118535.	1.9	402
17	Mouse models of hereditary hemochromatosis do not develop early liver fibrosis in response to a high fat diet. PLoS ONE, 2019, 14, e0221455.	1.1	13
18	Iron induces insulin resistance in cardiomyocytes via regulation of oxidative stress. Scientific Reports, 2019, 9, 4668.	1.6	43

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19	Transferrin receptor 1 controls systemic iron homeostasis by fine-tuning hepcidin expression to hepatocellular iron load. Blood, 2019, 133, 344-355.	0.6	71
20	Title is missing!. , 2019, 14, e0221455.		0
21	Title is missing!. , 2019, 14, e0221455.		0
22	Title is missing!. , 2019, 14, e0221455.		0
23	Serpinb3 is Overexpressed in the Liver in Presence of Iron Overload. Journal of Investigative Medicine, 2018, 66, 32-38.	0.7	2
24	Inhibition of heme oxygenase ameliorates anemia and reduces iron overload in a Î²-thalassemia mouse model. Blood, 2018, 131, 236-246.	0.6	30
25	Inherited Disorders of Iron Overload. Frontiers in Nutrition, 2018, 5, 103.	1.6	63
26	Hepcidin Therapeutics. Pharmaceuticals, 2018, 11, 127.	1.7	65
27	Hepcidin-mediated hypoferremic response to acute inflammation requires a threshold of Bmp6/Hjv/Smad signaling. Blood, 2018, 132, 1829-1841.	0.6	52
28	Transferrin. , 2018, , 5615-5623.		1
29	Systemic iron homeostasis and erythropoiesis. IUBMB Life, 2017, 69, 399-413.	1.5	82
30	Pharmacological Targeting of the Hepcidin/Ferroportin Axis. Frontiers in Pharmacology, 2016, 7, 160.	1.6	100
31	Response to: Dietary and pharmacological factors affecting iron absorption in mice and man. Haematologica, 2016, 101, e122-e122.	1.7	0
32	Transferrin. , 2016, , 1-9.		0
33	TfR2 links iron metabolism and erythropoiesis. Blood, 2015, 125, 1055-1056.	0.6	21
34	Mice are poor heme absorbers and do not require intestinal Hmox1 for dietary heme iron assimilation. Haematologica, 2015, 100, e334-e337.	1.7	38
35	Hfe and Hjv exhibit overlapping functions for iron signaling to hepcidin. Journal of Molecular Medicine, 2015, 93, 489-498.	1.7	32
36	Iron regulation of hepcidin through Hfe and Hjv: Common or distinct pathways?. Hepatology, 2015, 62, 1922-1923.	3.6	6

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37	A high-fat diet modulates iron metabolism but does not promote liver fibrosis in hemochromatotic Hjv^{â^'/â^'} mice. American Journal of Physiology - Renal Physiology, 2015, 308, G251-G261.	1.6	34
38	The IRP/IRE system in vivo: insights from mouse models. Frontiers in Pharmacology, 2014, 5, 176.	1.6	254
39	NTBI unveiled by chelatable fluorescent beads. Biochemical Journal, 2014, 463, e7-e9.	1.7	2
40	Chronic hepatitis C and liver fibrosis. World Journal of Gastroenterology, 2014, 20, 11033.	1.4	178
41	Electrophoretic Mobility Shift Assay (EMSA) for the Study of RNA-Protein Interactions: The IRE/IRP Example. Journal of Visualized Experiments, 2014, , .	0.2	24
42	Iron-Dependent Regulation of Hepcidin in Hjvâ^'/â^' Mice: Evidence That Hemojuvelin Is Dispensable for Sensing Body Iron Levels. PLoS ONE, 2014, 9, e85530.	1.1	32
43	Differences in activation of mouse hepcidin by dietary iron and parenterally administered iron dextran: compartmentalization is critical for iron sensing. Journal of Molecular Medicine, 2013, 91, 95-102.	1.7	44
44	Oxygen-dependent secretion of a bioactive hepcidin-GFP chimera. Biochemical and Biophysical Research Communications, 2013, 435, 540-545.	1.0	3
45	IRP1 regulates erythropoiesis and systemic iron homeostasis by controlling HIF2Î± mRNA translation. Blood, 2013, 122, 1658-1668.	0.6	114
46	Hepatitis C Virus Infection Causes Iron Deficiency in Huh7.5.1 Cells. PLoS ONE, 2013, 8, e83307.	1.1	14
47	Unregulated brain iron deposition in transgenic mice overâ€expressing <scp>HMOX</scp>1 in the astrocytic compartment. Journal of Neurochemistry, 2012, 123, 325-336.	2.1	47
48	Alternative ferritin mRNA translation via internal initiation. Rna, 2012, 18, 547-556.	1.6	15
49	Mechanisms of Mammalian Iron Homeostasis. Biochemistry, 2012, 51, 5705-5724.	1.2	465
50	Regulation of iron transport and the role of transferrin. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 188-202.	1.1	383
51	Disorders associated with systemic or local iron overload: from pathophysiology to clinical practice. Metallomics, 2011, 3, 971.	1.0	48
52	Regulation of cellular iron metabolism. Biochemical Journal, 2011, 434, 365-381.	1.7	795
53	Reply to: Is there any association between HCV multiplication and iron induced liver injury in chronic hepatitis C?. Journal of Hepatology, 2011, 55, 236-237.	1.8	1
54	Reply to: Hepatocyte iron accumulation: A new string to ribavirinâ€™s antiviral bow?. Journal of Hepatology, 2011, 55, 238.	1.8	0

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55	Accelerated CCl4-Induced Liver Fibrosis in Hjv-/- Mice, Associated with an Oxidative Burst and Precocious Profibrogenic Gene Expression. PLoS ONE, 2011, 6, e25138.	1.1	24
56	Redox control of iron regulatory protein 2 stability. FEBS Letters, 2011, 585, 687-692.	1.3	27
57	Conditional disruption of mouse HFE2 gene: Maintenance of systemic iron homeostasis requires hepatic but not skeletal muscle hemojuvelin. Hepatology, 2011, 54, 1800-1807.	3.6	49
58	Synthesis of biocompatible poly(ε-caprolactone)-block-poly(propylene adipate) copolymers appropriate for drug nanoencapsulation in the form of core-shell nanoparticles. International Journal of Nanomedicine, 2011, 6, 2981.	3.3	21
59	Iron absorption and distribution in TNFÎ”ARE/+ mice, a model of chronic inflammation. Journal of Trace Elements in Medicine and Biology, 2010, 24, 58-66.	1.5	15
60	eIF2Î± Kinase PKR Modulates the Hypoxic Response by Stat3-Dependent Transcriptional Suppression of HIF-1Î±. Cancer Research, 2010, 70, 7820-7829.	0.4	44
61	Iron inhibits replication of infectious hepatitis C virus in permissive Huh7.5.1 cells. Journal of Hepatology, 2010, 53, 995-999.	1.8	62
62	Iron Metabolism and Disease. , 2010, , 351-378.		2
63	Tumorigenic Properties of Iron Regulatory Protein 2 (IRP2) Mediated by Its Specific 73-Amino Acids Insert. PLoS ONE, 2010, 5, e10163.	1.1	60
64	HOâ€1â€mediated macroautophagy: a mechanism for unregulated iron deposition in aging and degenerating neural tissues. Journal of Neurochemistry, 2009, 109, 776-791.	2.1	87
65	Iron-dependent degradation of IRP2 requires its C-terminal region and IRP structural integrity. BMC Molecular Biology, 2008, 9, 15.	3.0	17
66	Oxidative Stress and Iron Homeostasis: Mechanistic and Health Aspects. Critical Reviews in Clinical Laboratory Sciences, 2008, 45, 1-23.	2.7	276
67	Small-Molecule Inhibitors of HIF-2a Translation Link Its 5â€²UTR Iron-Responsive Element to Oxygen Sensing. Molecular Cell, 2008, 32, 838-848.	4.5	175
68	A role for lysosomes in the turnover of human iron regulatory protein 2. International Journal of Biochemistry and Cell Biology, 2008, 40, 2826-2832.	1.2	9
69	Iron regulatory and bactericidal properties of human recombinant hepcidin expressed in Pichia pastoris. Biochimie, 2008, 90, 726-735.	1.3	30
70	Insights on Regulation and Function of the Iron Regulatory Protein 1 (IRP1). Hemoglobin, 2008, 32, 109-115.	0.4	10
71	Function of the hemochromatosis protein HFE: Lessons from animal models. World Journal of Gastroenterology, 2008, 14, 6893.	1.4	38
72	Iron-Dependent Degradation of Apo-IRP1 by the Ubiquitin-Proteasome Pathway. Molecular and Cellular Biology, 2007, 27, 2423-2430.	1.1	68

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73	Human iron regulatory protein 2 is easily cleaved in its specific domain: consequences for the haem binding properties of the protein. Biochemical Journal, 2007, 408, 429-439.	1.7	24
74	Expression of the subgenomic hepatitis C virus replicon alters iron homeostasis in Huh7 cells. Journal of Hepatology, 2007, 47, 12-22.	1.8	38
75	Sustained Hydrogen Peroxide Induces Iron Uptake by Transferrin Receptor-1 Independent of the Iron Regulatory Protein/Iron-responsive Element Network. Journal of Biological Chemistry, 2007, 282, 20301-20308.	1.6	44
76	Hepcidin generated by hepatoma cells inhibits iron export from co-cultured THP1 monocytes. Journal of Hepatology, 2006, 44, 1125-1131.	1.8	15
77	In vivo tumor growth is inhibited by cytosolic iron deprivation caused by the expression of mitochondrial ferritin. Blood, 2006, 108, 2428-2434.	0.6	49
78	Sodium Nitroprusside Promotes IRP2 Degradation via an Increase in Intracellular Iron and in the Absence of S Nitrosylation at C178. Molecular and Cellular Biology, 2006, 26, 1948-1954.	1.1	32
79	Overexpression of iron regulatory protein 1 suppresses growth of tumor xenografts. Carcinogenesis, 2006, 28, 785-791.	1.3	51
80	Alcohol Metabolism-mediated Oxidative Stress Down-regulates Hepcidin Transcription and Leads to Increased Duodenal Iron Transporter Expression. Journal of Biological Chemistry, 2006, 281, 22974-22982.	1.6	265
81	IRP1 Ser-711 is a phosphorylation site, critical for regulation of RNA-binding and aconitase activities. Biochemical Journal, 2005, 388, 143-150.	1.7	30
82	Inhibition of transferrin receptor 1 transcription by a cell density response element. Biochemical Journal, 2005, 392, 383-388.	1.7	11
83	The pathway for IRP2 degradation involving 2-oxoglutarate-dependent oxygenase(s) does not require the E3 ubiquitin ligase activity of pVHL. Biochimica Et Biophysica Acta - Molecular Cell Research, 2005, 1743, 79-85.	1.9	22
84	Oxidation-induced ferritin turnover in microglial cells: role of proteasome. Free Radical Biology and Medicine, 2005, 38, 276-285.	1.3	77
85	Iron metabolism and toxicity. Toxicology and Applied Pharmacology, 2005, 202, 199-211.	1.3	856
86	Iron Inactivates the RNA Polymerase NS5B and Suppresses Subgenomic Replication of Hepatitis C Virus. Journal of Biological Chemistry, 2005, 280, 9049-9057.	1.6	95
87	Nitric Oxide Inhibits the Degradation of IRP2. Molecular and Cellular Biology, 2005, 25, 1347-1353.	1.1	34
88	Effects of Mitochondrial Ferritin Expression on Tumor Iron Metabolism and Tumor Growth in Nude Mice Xenografts.. Blood, 2005, 106, 3582-3582.	0.6	0
89	ANP-induced decrease of iron regulatory protein activity is independent of HO-1 induction. American Journal of Physiology - Renal Physiology, 2004, 287, G518-G526.	1.6	4
90	Iron-Mediated Degradation of IRP2, an Unexpected Pathway Involving a 2-Oxoglutarate-Dependent Oxygenase Activity. Molecular and Cellular Biology, 2004, 24, 954-965.	1.1	117

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91	Rat duodenal IRP1 activity and iron absorption in iron deficiency and after H2O2 perfusion. European Journal of Clinical Investigation, 2004, 34, 275-282.	1.7	4
92	Iron Metabolism and the IRE/IRP Regulatory System: An Update. Annals of the New York Academy of Sciences, 2004, 1012, 1-13.	1.8	418
93	Myeloperoxidase-derived Hypochlorous Acid Antagonizes the Oxidative Stress-mediated Activation of Iron Regulatory Protein 1. Journal of Biological Chemistry, 2003, 278, 40542-40549.	1.6	70
94	A Phosphomimetic Mutation at Ser-138 Renders Iron Regulatory Protein 1 Sensitive to Iron-Dependent Degradation. Molecular and Cellular Biology, 2003, 23, 6973-6981.	1.1	46
95	The haemochromatosis protein HFE induces an apparent iron-deficient phenotype in H1299 cells that is not corrected by co-expression of beta2-microglobulin. Biochemical Journal, 2003, 370, 891-899.	1.7	25
96	Conditional Derepression of Ferritin Synthesis in Cells Expressing a Constitutive IRP1 Mutant. Molecular and Cellular Biology, 2002, 22, 4638-4651.	1.1	48
97	Redox control of iron regulatory proteins. Redox Report, 2002, 7, 15-22.	1.4	42
98	[32] Activation of iron regulatory protein-1 by oxidative stress. Methods in Enzymology, 2002, 348, 324-337.	0.4	27
99	The prolyl 4-hydroxylase inhibitor ethyl-3,4-dihydroxybenzoate generates effective iron deficiency in cultured cells. FEBS Letters, 2002, 529, 309-312.	1.3	34
100	IRP1 Activation by Extracellular Oxidative Stress in the Perfused Rat Liver. Journal of Biological Chemistry, 2001, 276, 23192-23196.	1.6	79
101	Modulation of Cellular Iron Metabolism by Hydrogen Peroxide. Journal of Biological Chemistry, 2001, 276, 19738-19745.	1.6	107
102	Nitric Oxide, Oxygen Radicals, and Iron Metabolism. , 2000, , 293-313.		13
103	Human Cytoplasmic Aconitase (Iron Regulatory Protein 1) Is Converted into Its [3Fe-4S] Form by Hydrogen Peroxide in Vitro but Is Not Activated for Iron-responsive Element Binding. Journal of Biological Chemistry, 1999, 274, 21625-21630.	1.6	104
104	Inactivation of Both RNA Binding and Aconitase Activities of Iron Regulatory Protein-1 by Quinone-induced Oxidative Stress. Journal of Biological Chemistry, 1999, 274, 6219-6225.	1.6	65
105	Regulation of iron metabolism in the sanguivore lamprey Lampetra fluviatilis . Molecular cloning of two ferritin subunits and two iron-regulatory proteins (IRP) reveals evolutionary conservation of the iron-regulatory element (IRE)/IRP regulatory system. FEBS Journal, 1998, 254, 223-229.	0.2	32
106	Activation of iron regulatory protein-1 by oxidative stress in vitro. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 10559-10563.	3.3	117
107	Differences in the Regulation of Iron Regulatory Protein-1 (IRP-1) by Extra- and Intracellular Oxidative Stress. Journal of Biological Chemistry, 1997, 272, 9802-9808.	1.6	154
108	Nitric Oxide and Oxidative Stress (H₂O₂) Control Mammalian Iron Metabolism by Different Pathways. Molecular and Cellular Biology, 1996, 16, 3781-3788.	1.1	195

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109	Translational regulation of mammalian and Drosophila citric acid cycle enzymes via iron-responsive elements.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 4925-4930.	3.3	188
110	Rapid responses to oxidative stress mediated by iron regulatory protein.. EMBO Journal, 1995, 14, 2917-2924.	3.5	306
111	Nitric oxide signaling to iron-regulatory protein: direct control of ferritin mRNA translation and transferrin receptor mRNA stability in transfected fibroblasts.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 1267-1271.	3.3	228
112	The Role of the 5â€² Untranslated Region of Eukaryotic Messenger RNAs in Translation and Its Investigation Using Antisense Technologies. Progress in Molecular Biology and Translational Science, 1994, 48, 181-238.	1.9	16
113	Nitric oxide and the post-transcriptional control of cellular iron traffic. Trends in Cell Biology, 1994, 4, 82-86.	3.6	48
114	Translational regulation via iron-responsive elements by the nitric oxide/NO-synthase pathway.. EMBO Journal, 1993, 12, 3651-3657.	3.5	359
115	Ribonucleases of diverse specificities in rabbit brain nuclei. FEBS Journal, 1992, 207, 1045-1051.	0.2	5