

Mitchell D Knutson

List of Publications by Year in descending order

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81
papers

7,264
citations

76031

42
h-index

116156

66
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82
all docs

82
docs citations

82
times ranked

8583
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron and manganese transport in mammalian systems. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2021, 1868, 118890.	1.9	30
2	Genetic screens reveal CCDC115 as a modulator of erythroid iron and heme trafficking. <i>American Journal of Hematology</i> , 2020, 95, 1085-1098.	2.0	10
3	Non-transferrin-bound iron transporters. <i>Free Radical Biology and Medicine</i> , 2019, 133, 101-111.	1.3	126
4	SLC39A14 deficiency alters manganese homeostasis and excretion resulting in brain manganese accumulation and motor deficits in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E1769-E1778.	3.3	99
5	Mobilization of iron from ferritin: new steps and details. <i>Metallomics</i> , 2018, 10, 154-168.	1.0	40
6	A missense variant in SLC39A8 is associated with severe idiopathic scoliosis. <i>Nature Communications</i> , 2018, 9, 4171.	5.8	59
7	Metastatic cancers promote cachexia through ZIP14 upregulation in skeletal muscle. <i>Nature Medicine</i> , 2018, 24, 770-781.	15.2	121
8	Iron transport proteins: Gateways of cellular and systemic iron homeostasis. <i>Journal of Biological Chemistry</i> , 2017, 292, 12735-12743.	1.6	98
9	The plasma membrane metal-ion transporter ZIP14 contributes to nontransferrin-bound iron uptake by human β 2-cells. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 312, C169-C175.	2.1	48
10	The Tumor Suppressor, P53, Decreases the Metal Transporter, ZIP14. <i>Nutrients</i> , 2017, 9, 1335.	1.7	24
11	Iron Transporters and Iron Homeostasis. , 2017, , 215-226.		0
12	Sirtuin 2 regulates cellular iron homeostasis via deacetylation of transcription factor NRF2. <i>Journal of Clinical Investigation</i> , 2017, 127, 1505-1516.	3.9	101
13	Measurement of Transferrin- and Non-transferrin-bound Iron Uptake by Mouse Tissues. <i>Bio-protocol</i> , 2016, 6, .	0.2	4
14	SLC39A14 Is Required for the Development of Hepatocellular Iron Overload in Murine Models of Hereditary Hemochromatosis. <i>Cell Metabolism</i> , 2015, 22, 138-150.	7.2	171
15	Prion protein functions as a ferrireductase partner for ZIP14 and DMT1. <i>Free Radical Biology and Medicine</i> , 2015, 84, 322-330.	1.3	67
16	An iron-regulated and glycosylation-dependent proteasomal degradation pathway for the plasma membrane metal transporter ZIP14. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9175-9180.	3.3	54
17	Microarray Analysis of Rat Pancreas Reveals Altered Expression of Alox15 and Regenerating Islet-Derived Genes in Response to Iron Deficiency and Overload. <i>PLoS ONE</i> , 2014, 9, e86019.	1.1	13
18	Hepatocyte divalent metal-ion transporter-1 is dispensable for hepatic iron accumulation and non-transferrin-bound iron uptake in mice. <i>Hepatology</i> , 2013, 58, 788-798.	3.6	72

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19	ZIP14 and DMT1 in the liver, pancreas, and heart are differentially regulated by iron deficiency and overload: implications for tissue iron uptake in iron-related disorders. <i>Haematologica</i> , 2013, 98, 1049-1057.	1.7	134
20	Fine-Mapping and Genetic Analysis of the Loci Affecting Hepatic Iron Overload in Mice. <i>PLoS ONE</i> , 2013, 8, e63280.	1.1	2
21	Impaired Iron Status in Aging Research. <i>International Journal of Molecular Sciences</i> , 2012, 13, 2368-2386.	1.8	81
22	ZIP8 Is an Iron and Zinc Transporter Whose Cell-surface Expression Is Up-regulated by Cellular Iron Loading. <i>Journal of Biological Chemistry</i> , 2012, 287, 34032-34043.	1.6	292
23	Hypoferraemia during the early inflammatory response is dependent on tumour necrosis factor activity in a murine model of protracted peritonitis. <i>Molecular Medicine Reports</i> , 2012, 6, 838-842.	1.1	7
24	Physiologic implications of metal-ion transport by ZIP14 and ZIP8. <i>BioMetals</i> , 2012, 25, 643-655.	1.8	203
25	Long-term perturbation of muscle iron homeostasis following hindlimb suspension in old rats is associated with high levels of oxidative stress and impaired recovery from atrophy. <i>Experimental Gerontology</i> , 2012, 47, 100-108.	1.2	37
26	Effect of dietary iron deficiency and overload on the expression of ZIP metal-ion transporters in rat liver. <i>BioMetals</i> , 2012, 25, 115-124.	1.8	35
27	Iron overload upregulates the expression of regenerating islet-derived family genes in rat pancreas. <i>FASEB Journal</i> , 2012, 26, 641.25.	0.2	0
28	Iron transport ability of the Slc39a (ZIP) family of metal-ion transporters. <i>FASEB Journal</i> , 2012, 26, 641.24.	0.2	0
29	Role of the iron-import protein DMT1 (Divalent Metal Transporter 1) in liver iron uptake. <i>FASEB Journal</i> , 2012, 26, 641.27.	0.2	0
30	Role of clathrin-mediated endocytosis in transferrin-bound iron uptake by hepatocytes. <i>FASEB Journal</i> , 2012, 26, 641.23.	0.2	0
31	Metal transport, subcellular localization, and tissue distribution of Zip8, a Zip14 homologue. <i>FASEB Journal</i> , 2012, 26, 641.32.	0.2	1
32	Zip14 is a complex broad-scope metal-ion transporter whose functional properties support roles in the cellular uptake of zinc and nontransferrin-bound iron. <i>American Journal of Physiology - Cell Physiology</i> , 2011, 301, C862-C871.	2.1	177
33	Metabolic crossroads of iron and copper. <i>Nutrition Reviews</i> , 2010, 68, 133-147.	2.6	252
34	Anemic Copper-Deficient Rats, but Not Mice, Display Low Hcpidin Expression and High Ferroportin Levels. <i>Journal of Nutrition</i> , 2010, 140, 723-730.	1.3	22
35	ZRT/IRT-like Protein 14 (ZIP14) Promotes the Cellular Assimilation of Iron from Transferrin. <i>Journal of Biological Chemistry</i> , 2010, 285, 32141-32150.	1.6	139
36	Iron-Sensing Proteins that Regulate Hcpidin and Enteric Iron Absorption. <i>Annual Review of Nutrition</i> , 2010, 30, 149-171.	4.3	73

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37	Effect of dietary iron deficiency and overload on hepatic ZIP transporter expression in rats. <i>FASEB Journal</i> , 2010, 24, 717-9.	0.2	0
38	Iron Loading Increases Ferroportin Heterogeneous Nuclear RNA and mRNA Levels in Murine J774 Macrophages. <i>Journal of Nutrition</i> , 2009, 139, 434-438.	1.3	45
39	The dorsal root ganglion in Friedreich's ataxia. <i>Acta Neuropathologica</i> , 2009, 118, 763-776.	3.9	112
40	BMP6 is a key endogenous regulator of hepcidin expression and iron metabolism. <i>Nature Genetics</i> , 2009, 41, 482-487.	9.4	678
41	Uptake of Materials from the Nasal Cavity into the Blood and Brain. <i>Annals of the New York Academy of Sciences</i> , 2009, 1170, 623-628.	1.8	35
42	Into the matrix: regulation of the iron regulatory hormone hepcidin by matriptase-2. <i>Nutrition Reviews</i> , 2009, 67, 284-288.	2.6	10
43	Mechanisms of iron release from lysosomes. <i>FASEB Journal</i> , 2009, 23, 921.11.	0.2	0
44	Copper deficiency increases ferroportin expression in rats. <i>FASEB Journal</i> , 2009, 23, 231.6.	0.2	0
45	Subcellular localization of the metal-ion transporters Zip14 and DMT1 in human hepatoma (HepG2) cells. <i>FASEB Journal</i> , 2009, 23, 105.3.	0.2	0
46	Properties of the zinc transporter ZIP14 suggest a role in cellular uptake of nontransferrin-bound iron (NTBI) characteristic of iron overload conditions. <i>FASEB Journal</i> , 2009, 23, 975.1.	0.2	1
47	Resveratrol and novel potent activators of SIRT1: effects on aging and age-related diseases. <i>Nutrition Reviews</i> , 2008, 66, 591-596.	2.6	159
48	Mitochondrial iron accumulation with age and functional consequences. <i>Aging Cell</i> , 2008, 7, 706-716.	3.0	99
49	Increased iron content and RNA oxidative damage in skeletal muscle with aging and disuse atrophy. <i>Experimental Gerontology</i> , 2008, 43, 563-570.	1.2	118
50	Iron Accumulation with Age, Oxidative Stress and Functional Decline. <i>PLoS ONE</i> , 2008, 3, e2865.	1.1	100
51	The Hereditary Hemochromatosis Protein, HFE, Inhibits Iron Uptake via Down-regulation of Zip14 in HepG2 Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 21462-21468.	1.6	71
52	Daily Supplementation with Iron Increases Lipid Peroxidation in Young Women with Low Iron Stores. <i>Experimental Biology and Medicine</i> , 2008, 233, 701-707.	1.1	57
53	Calorie restriction attenuates age-related iron accumulation and oxidative stress in skeletal muscle and improves indices of sarcopenia. <i>FASEB Journal</i> , 2008, 22, 141-141.	0.2	1
54	Modulation of transferrin-bound iron uptake by Zip14. <i>FASEB Journal</i> , 2008, 22, 304.2.	0.2	0

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55	HFE inhibits non transferrin-bound iron uptake via downregulating Zip14 in HepG2 cells. FASEB Journal, 2008, 22, 304.1.	0.2	0
56	Dietary iron deficiency increases Zip14 expression in rats. FASEB Journal, 2008, 22, 155.4.	0.2	0
57	Alveolar macrophage cytokine response to air pollution particles: Oxidant mechanisms. Toxicology and Applied Pharmacology, 2007, 218, 256-264.	1.3	68
58	The dentate nucleus in Friedreich's ataxia: the role of iron-responsive proteins. Acta Neuropathologica, 2007, 114, 163-173.	3.9	130
59	Steap Proteins: Implications for Iron and Copper Metabolism. Nutrition Reviews, 2007, 65, 335-340.	2.6	70
60	Steap Proteins: Implications for Iron and Copper Metabolism. Nutrition Reviews, 2007, 65, 335-340.	2.6	74
61	Zip14 expression in hepatic iron overload. FASEB Journal, 2007, 21, A1117.	0.2	0
62	Iron deficiency increases Zip14 expression in hepatocytes. FASEB Journal, 2007, 21, A1118.	0.2	0
63	Steap Proteins: Implications for Iron and Copper Metabolism. Nutrition Reviews, 2007, 65, 335-340.	2.6	6
64	Iron and iron-responsive proteins in the cardiomyopathy of Friedreich's ataxia. Cerebellum, 2006, 5, 257-267.	1.4	109
65	Effects of Iron Status on Transpulmonary Transport and Tissue Distribution of Mn and Fe. American Journal of Respiratory Cell and Molecular Biology, 2006, 34, 330-337.	1.4	44
66	The Iron Efflux Protein Ferroportin Regulates the Intracellular Growth of Salmonella enterica. Infection and Immunity, 2006, 74, 3065-3067.	1.0	137
67	Zip14 (Slc39a14) mediates non-transferrin-bound iron uptake into cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13612-13617.	3.3	469
68	Murine zinc deficiency alters lymphocyte phenotypes and CCL25 expression in the colon. FASEB Journal, 2006, 20, A603.	0.2	0
69	Regulation of macrophage ferroportin gene transcription by iron. FASEB Journal, 2006, 20, A194.	0.2	1
70	Overexpression of the zinc transporter Zip14 increases non-transferrin-bound iron uptake in cells. FASEB Journal, 2006, 20, .	0.2	0
71	Interleukin-6 regulates the zinc transporter Zip14 in liver and contributes to the hypozincemia of the acute-phase response. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6843-6848.	3.3	487
72	Iron release from macrophages after erythrophagocytosis is up-regulated by ferroportin 1 overexpression and down-regulated by hepcidin. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1324-1328.	3.3	407

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73	Developmental, regional, and cellular expression of SFT/UbcH5A and DMT1 mRNA in brain. <i>Journal of Neuroscience Research</i> , 2004, 76, 633-641.	1.3	22
74	Iron Metabolism in the Reticuloendothelial System. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2003, 38, 61-88.	2.3	271
75	Iron loading and erythrophagocytosis increase ferroportin 1 (FPN1) expression in J774 macrophages. <i>Blood</i> , 2003, 102, 4191-4197.	0.6	202
76	Iron deficiency and iron excess damage mitochondria and mitochondrial DNA in rats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2264-2269.	3.3	291
77	Expression of Stimulator of Fe Transport Is Not Enhanced in Hfe Knockout Mice. <i>Journal of Nutrition</i> , 2001, 131, 1459-1464.	1.3	15
78	Both Iron Deficiency and Daily Iron Supplements Increase Lipid Peroxidation in Rats. <i>Journal of Nutrition</i> , 2000, 130, 621-628.	1.3	139
79	Methods for measuring ethane and pentane in expired air from rats and humans. <i>Free Radical Biology and Medicine</i> , 2000, 28, 514-519.	1.3	51
80	A practical and reliable method for measuring ethane and pentane in expired air from humans. <i>Free Radical Biology and Medicine</i> , 1999, 27, 560-571.	1.3	29
81	Concentrating Breath Samples Using Liquid Nitrogen: A Reliable Method for the Simultaneous Determination of Ethane and Pentane. <i>Analytical Biochemistry</i> , 1996, 242, 129-135.	1.1	30