

Marianne Wessling-Resnick

List of Publications by Year in descending order

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93
papers

5,904
citations

81900
39
h-index

74163
75
g-index

96
all docs

96
docs citations

96
times ranked

7013
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemistry and biology of eukaryotic iron metabolism. <i>International Journal of Biochemistry and Cell Biology</i> , 2001, 33, 940-959.	2.8	655
2	Iron metabolism. <i>Current Opinion in Chemical Biology</i> , 1999, 3, 200-206.	6.1	423
3	Iron release from macrophages after erythrophagocytosis is up-regulated by ferroportin 1 overexpression and down-regulated by hepcidin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 1324-1328.	7.1	407
4	Iron Homeostasis and the Inflammatory Response. <i>Annual Review of Nutrition</i> , 2010, 30, 105-122.	10.1	363
5	Iron metabolism and the innate immune response to infection. <i>Microbes and Infection</i> , 2012, 14, 207-216.	1.9	214
6	Iron loading and erythrophagocytosis increase ferroportin 1 (FPN1) expression in J774 macrophages. <i>Blood</i> , 2003, 102, 4191-4197.	1.4	202
7	Iron and mechanisms of emotional behavior. <i>Journal of Nutritional Biochemistry</i> , 2014, 25, 1101-1107.	4.2	191
8	Regulation of transferrin receptor 2 protein levels by transferrin. <i>Blood</i> , 2004, 104, 4294-4299.	1.4	178
9	Attenuated Inflammatory Responses in Hemochromatosis Reveal a Role for Iron in the Regulation of Macrophage Cytokine Translation. <i>Journal of Immunology</i> , 2008, 181, 2723-2731.	0.8	141
10	The Iron Efflux Protein Ferroportin Regulates the Intracellular Growth of <i>Salmonella enterica</i> . <i>Infection and Immunity</i> , 2006, 74, 3065-3067.	2.2	137
11	Olfactory uptake of manganese requires DMT1 and is enhanced by anemia. <i>FASEB Journal</i> , 2007, 21, 223-230.	0.5	113
12	Restored iron transport by a small molecule promotes absorption and hemoglobinization in animals. <i>Science</i> , 2017, 356, 608-616.	12.6	112
13	Inflammation-induced iron transport and metabolism by brain microglia. <i>Journal of Biological Chemistry</i> , 2018, 293, 7853-7863.	3.4	107
14	Nramp1 and Other Transporters Involved in Metal Withholding during Infection. <i>Journal of Biological Chemistry</i> , 2015, 290, 18984-18990.	3.4	106
15	Crossing the Iron Gate: Why and How Transferrin Receptors Mediate Viral Entry. <i>Annual Review of Nutrition</i> , 2018, 38, 431-458.	10.1	106
16	IRONTRANSPORT. <i>Annual Review of Nutrition</i> , 2000, 20, 129-151.	10.1	91
17	Functional Expression Cloning and Characterization of SFT, a Stimulator of Fe Transport. <i>Journal of Cell Biology</i> , 1997, 139, 895-905.	5.2	85
18	Brain Iron Homeostasis: A Focus on Microglial Iron. <i>Pharmaceuticals</i> , 2018, 11, 129.	3.8	80

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19	Extracellular Ferrireductase Activity of K562 Cells is Coupled to Transferrin-Independent Iron Transport. <i>Biochemistry</i> , 1994, 33, 11850-11857.	2.5	72
20	Manganese and iron transport across pulmonary epithelium. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2006, 290, L1247-L1259.	2.9	67
21	Excess iron: considerations related to development and early growth. <i>American Journal of Clinical Nutrition</i> , 2017, 106, 1600S-1605S.	4.7	67
22	The small molecule, genistein, increases hepcidin expression in human hepatocytes. <i>Hepatology</i> , 2013, 58, 1315-1325.	7.3	66
23	Small-Molecule Screening Identifies the Selanzal Drug Ebselen as a Potent Inhibitor of DMT1-Mediated Iron Uptake. <i>Chemistry and Biology</i> , 2006, 13, 965-972.	6.0	65
24	Single-Cell FRET Imaging of Transferrin Receptor Trafficking Dynamics by Sfp-Catalyzed, Site-Specific Protein Labeling. <i>Chemistry and Biology</i> , 2005, 12, 999-1006.	6.0	64
25	Iron Imports. III. Transfer of iron from the mucosa into circulation. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 290, G1-G6.	3.4	62
26	Biochemistry of Iron Uptake. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 1999, 34, 285-314.	5.2	61
27	Role of Ferroportin in Macrophage-Mediated Immunity. <i>Infection and Immunity</i> , 2010, 78, 5099-5106.	2.2	60
28	Iron depletion increases manganese uptake and potentiates apoptosis through ER stress. <i>NeuroToxicology</i> , 2013, 38, 67-73.	3.0	59
29	Molecular Mechanisms and Regulation of Iron Transport. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2003, 40, 151-182.	6.1	56
30	Ingestion of Mn and Pb by rats during and after pregnancy alters iron metabolism and behavior in offspring. <i>NeuroToxicology</i> , 2011, 32, 413-422.	3.0	56
31	Copper-induced ferroportin-1 expression in J774 macrophages is associated with increased iron efflux. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 2700-2705.	7.1	52
32	The influence of high iron diet on rat lung manganese absorption. <i>Toxicology and Applied Pharmacology</i> , 2006, 210, 17-23.	2.8	50
33	Copper repletion enhances apical iron uptake and transepithelial iron transport by Caco-2 cells. <i>American Journal of Physiology - Renal Physiology</i> , 2002, 282, G527-G533.	3.4	49
34	Associations of iron metabolism genes with blood manganese levels: a population-based study with validation data from animal models. <i>Environmental Health</i> , 2011, 10, 97.	4.0	46
35	Ferroportin deficiency impairs manganese metabolism in <i>flatiron</i> mice. <i>FASEB Journal</i> , 2015, 29, 2726-2733.	0.5	45
36	Characterization of a novel adult murine immortalized microglial cell line and its activation by amyloid-beta. <i>Journal of Neuroinflammation</i> , 2016, 13, 21.	7.2	44

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37	Absorption of Manganese and Iron in a Mouse Model of Hemochromatosis. <i>PLoS ONE</i> , 2013, 8, e64944.	2.5	42
38	Mechanism of Transferrin Receptor Down-regulation in K562 Cells in Response to Protein Kinase C Activation. <i>Journal of Biological Chemistry</i> , 1995, 270, 3698-3705.	3.4	41
39	Transferrin receptor 2 mediates a biphasic pattern of transferrin uptake associated with ligand delivery to multivesicular bodies. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C1769-C1775.	4.6	40
40	The Small-Molecule Iron Transport Inhibitor Ferristatin/NSC306711 Promotes Degradation of the Transferrin Receptor. <i>Chemistry and Biology</i> , 2008, 15, 647-653.	6.0	39
41	Pharmacokinetics of pulmonary manganese absorption: evidence for increased susceptibility to manganese loading in iron-deficient rats. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005, 288, L887-L893.	2.9	36
42	Novel founder intronic variant in SLC39A14 in two families causing Manganism and potential treatment strategies. <i>Molecular Genetics and Metabolism</i> , 2018, 124, 161-167.	1.1	36
43	Iron-Responsive Olfactory Uptake of Manganese Improves Motor Function Deficits Associated with Iron Deficiency. <i>PLoS ONE</i> , 2012, 7, e33533.	2.5	35
44	Influence of Copper Depletion on Iron Uptake Mediated by SFT, a Stimulator of Fe Transport. <i>Journal of Biological Chemistry</i> , 1998, 273, 6909-6915.	3.4	34
45	Ferristatin II Promotes Degradation of Transferrin Receptor-1 In Vitro and In Vivo. <i>PLoS ONE</i> , 2013, 8, e70199.	2.5	34
46	Severe Postnatal Iron Deficiency Alters Emotional Behavior and Dopamine Levels in the Prefrontal Cortex of Young Male Rats. <i>Journal of Nutrition</i> , 2011, 141, 2133-2138.	2.9	33
47	GEF-mediated GDP/GTP exchange by monomeric GTPases: A regulatory role for Mg ²⁺ ?. <i>BioEssays</i> , 1998, 20, 516-521.	2.5	30
48	Identification of Small Molecule Inhibitors that Distinguish between Non-Transferrin Bound Iron Uptake and Transferrin-Mediated Iron Transport. <i>Chemistry and Biology</i> , 2004, 11, 407-416.	6.0	30
49	Small molecule inhibitors of divalent metal transporter-1. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, G798-G804.	3.4	30
50	Influence of DMT1 and iron status on inflammatory responses in the lung. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2011, 300, L659-L665.	2.9	29
51	Chemical Genetic Screening Identifies Sulfonamides That Raise Organellar pH and Interfere with Membrane Traffic. <i>Traffic</i> , 2004, 5, 478-492.	2.7	28
52	Pharmacology of Iron Transport. <i>Annual Review of Pharmacology and Toxicology</i> , 2013, 53, 17-36.	9.4	28
53	Modulation of intracellular iron levels by oxidative stress implicates a novel role for iron in signal transduction. <i>BioMetals</i> , 2009, 22, 855-862.	4.1	27
54	Iron potentiates microglial interleukin-1 β secretion induced by amyloid- β . <i>Journal of Neurochemistry</i> , 2020, 154, 177-189.	3.9	27

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55	Distribution of manganese and other biometals in flatiron mice. <i>BioMetals</i> , 2016, 29, 147-155.	4.1	26
56	Belgrade Rats Display Liver Iron Loading. <i>Journal of Nutrition</i> , 2006, 136, 3010-3014.	2.9	24
57	Ferroportin-1 Is Not Upregulated in Copper-Deficient Mice. <i>Journal of Nutrition</i> , 2004, 134, 517-521.	2.9	23
58	The Role of Iron Metabolism in Lung Inflammation and Injury. <i>Journal of Allergy & Therapy</i> , 2012, 01, .	0.1	23
59	Influence of Mg ²⁺ on the Structure and Function of Rab5. <i>Journal of Biological Chemistry</i> , 1996, 271, 1322-1328.	3.4	22
60	Structural and Functional Analysis of SFT, a Stimulator of Fe Transport. <i>Journal of Biological Chemistry</i> , 1998, 273, 21380-21385.	3.4	22
61	Developmental, regional, and cellular expression of SFT/UbcH5A and DMT1 mRNA in brain. <i>Journal of Neuroscience Research</i> , 2004, 76, 633-641.	2.9	22
62	Impaired renal function and development in Belgrade rats. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 306, F333-F343.	2.7	22
63	Expression of SFT (Stimulator of Fe Transport) Is Enhanced by Iron Chelation in HeLa Cells and by Hemochromatosis in Liver. <i>Journal of Biological Chemistry</i> , 1998, 273, 34675-34678.	3.4	21
64	Iron loading impairs lipoprotein lipase activity and promotes hypertriglyceridemia. <i>FASEB Journal</i> , 2013, 27, 1657-1663.	0.5	20
65	Pathophysiology of the Belgrade rat. <i>Frontiers in Pharmacology</i> , 2014, 5, 82.	3.5	18
66	Iron absorption by Belgrade rat pups during lactation. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 293, G640-G644.	3.4	17
67	The small molecule ferristatin II induces hepatic hepcidin expression in vivo and in vitro. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 308, G1019-G1026.	3.4	17
68	Expression of Stimulator of Fe Transport Is Not Enhanced in Hfe Knockout Mice. <i>Journal of Nutrition</i> , 2001, 131, 1459-1464.	2.9	15
69	Regulation of divalent metal transporter-1 by serine phosphorylation. <i>Biochemical Journal</i> , 2016, 473, 4243-4254.	3.7	15
70	Manganese transport and toxicity in polarized WIF-B hepatocytes. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, G351-G363.	3.4	15
71	Influence of Iron Deficiency on Olfactory Behavior in Weanling Rats. <i>Journal of Behavioral and Brain Science</i> , 2012, 02, 167-175.	0.5	12
72	ZIP14 is degraded in response to manganese exposure. <i>BioMetals</i> , 2019, 32, 829-843.	4.1	11

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73	Metabolic depletion inhibits the uptake of nontransferrin-bound iron by K562 cells. , 1998, 177, 585-592.		10
74	Understanding Copper Uptake at the Molecular Level. Nutrition Reviews, 2002, 60, 177-179.	5.8	10
75	A Possible Link between Hepcidin and Regulation of Dietary Iron Absorption. Nutrition Reviews, 2002, 60, 371-374.	5.8	10
76	Olfactory ferric and ferrous iron absorption in iron-deficient rats. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2012, 302, L1280-L1286.	2.9	10
77	Dietary supplementation with ipriflavone decreases hepatic iron stores in wild type mice. Blood Cells, Molecules, and Diseases, 2016, 60, 36-43.	1.4	8
78	Flatiron Mice and Ferroportin Disease. Nutrition Reviews, 2007, 65, 341-345.	5.8	7
79	Glucose metabolism in the Belgrade rat, a model of iron-loading anemia. American Journal of Physiology - Renal Physiology, 2013, 304, G1095-G1102.	3.4	5
80	Immunological Analysis of β -Thalassemic Mouse Intestinal Proteins Reveals Up-Regulation of Sucrase-Isomaltase in Response to Iron Overload. Journal of Nutrition, 1999, 129, 949-952.	2.9	2
81	The irony of host defense. Blood, 2008, 112, 460-460.	1.4	2
82	Ferroportin Modulates Macrophage-Mediated Immune Responses. FASEB Journal, 2008, 22, 692.5.	0.5	1
83	The iron transport inhibitor ferristatin II induces degradation of transferrin receptor-1. FASEB Journal, 2013, 27, 1024.1.	0.5	1
84	Manganese Transport Across the Pulmonary Epithelium. Issues in Toxicology, 2014, , 133-157.	0.1	0
85	Effect of iron status on olfactory uptake of manganese and its distribution in the brain. FASEB Journal, 2009, 23, 921.8.	0.5	0
86	Effect of iron status on lipid and glucose metabolism. FASEB Journal, 2010, 24, 717.16.	0.5	0
87	Dietary iron deficiency alters emotional behavior and impairs motor coordination in young rats. FASEB Journal, 2010, 24, lb238.	0.5	0
88	Intestinal absorption of iron and manganese in Hfe knockout mice. FASEB Journal, 2011, 25, 238.5.	0.5	0
89	Olfactory manganese uptake in Hfe knockout mice, a model of iron overload. FASEB Journal, 2012, 26, 641.11.	0.5	0
90	Manganese Neurotoxicity is Enhanced by Iron Depletion.. FASEB Journal, 2013, 27, 634.1.	0.5	0

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91	Impaired renal function in Belgrade rats. FASEB Journal, 2013, 27, 705.4.	0.5	0
92	The Small Molecule Genistein Increases Hepcidin Expression by Activating Stat3 and Bone Morphogenic Protein Signaling. FASEB Journal, 2013, 27, 223.6.	0.5	0
93	Effects of the iron transporter inhibitor ferristatin II on serum iron and lipid metabolism. FASEB Journal, 2013, 27, 223.7.	0.5	0