David M Frazer

List of Publications by Year
in descending order

71 papers	4,866 citations	126907 33 h-index	102487 66 g-index
73 all docs	73 docs citations	73 times ranked	4303 citing authors

#	Article	IF	Citations
1	Identification of an Intestinal Heme Transporter. Cell, 2005, 122, 789-801.	28.9	628
2	Disrupted hepcidin regulation in HFE -associated haemochromatosis and the liver as a regulator of body iron homoeostasis. Lancet, The, 2003, 361, 669-673.	13.7	568
3	Current understanding of iron homeostasis. American Journal of Clinical Nutrition, 2017, 106, 1559S-1566S.	4.7	393
4	Hepcidin expression inversely correlates with the expression of duodenal iron transporters and iron absorption in rats. Gastroenterology, 2002, 123, 835-844.	1.3	308
5	The orchestration of body iron intake: how and where do enterocytes receive their cues?. Blood Cells, Molecules, and Diseases, 2003, 30, 288-297.	1.4	180
6	Combined deletion of Hfe and transferrin receptor 2 in mice leads to marked dysregulation of hepcidin and iron overload. Hepatology, 2009, 50, 1992-2000.	7.3	180
7	A rapid decrease in the expression of DMT1 and Dcytb but not Ireg1 or hephaestin explains the mucosal block phenomenon of iron absorption. Gut, 2003, 52, 340-346.	12.1	160
8	Iron absorption and metabolism. Current Opinion in Gastroenterology, 2009, 25, 129-135.	2.3	151
9	The regulation of iron transport. BioFactors, 2014, 40, 206-214.	5.4	148
10	Transfusion suppresses erythropoiesis and increases hepcidin in adult patients with Î²-thalassemia major: a longitudinal study. Blood, 2013, 122, 124-133.	1.4	126
11	Nanoparticulate iron(III) oxo-hydroxide delivers safe iron that is well absorbed and utilised in humans. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1877-1886.	3.3	120
12	Hepatic Iron Metabolism. Seminars in Liver Disease, 2005, 25, 420-432.	3.6	112
13	Cloning and gastrointestinal expression of rat hephaestin: relationship to other iron transport proteins. American Journal of Physiology - Renal Physiology, 2001, 281, G931-G939.	3.4	111
14	Relationship between intestinal iron-transporter expression, hepatic hepcidin levels and the control of iron absorption. Biochemical Society Transactions, 2002, 30, 724-726.	3.4	92
15	Dihydrolipoic Acidâ€"Gold Nanoclusters Regulate Microglial Polarization and Have the Potential To Alter Neurogenesis. Nano Letters, 2020, 20, 478-495.	9.1	92
16	Iron Imports. I. Intestinal iron absorption and its regulation. American Journal of Physiology - Renal Physiology, 2005, 289, G631-G635.	3.4	91
17	The Ceruloplasmin Homolog Hephaestin and the Control of Intestinal Iron Absorption. Blood Cells, Molecules, and Diseases, 2002, 29, 367-375.	1.4	90
18	Delayed hepcidin response explains the lag period in iron absorption following a stimulus to increase erythropoiesis. Gut, 2004, 53, 1509-1515.	12.1	87

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19	Changes in the expression of intestinal iron transport and hepatic regulatory molecules explain the enhanced iron absorption associated with pregnancy in the rat. Gut, 2004, 53, 655-660.	12.1	77
20	The Multicopper Ferroxidase Hephaestin Enhances Intestinal Iron Absorption in Mice. PLoS ONE, 2014, 9, e98792.	2.5	70
21	Regulation of systemic iron homeostasis: how the body responds to changes in iron demand. BioMetals, 2007, 20, 665-74.	4.1	64
22	Increased hepcidin expression and hypoferraemia associated with an acute phase response are not affected by inactivation of HFE. British Journal of Haematology, 2004, 126, 434-436.	2.5	60
23	Mechanisms of Haem and Non-Haem Iron Absorption: Lessons from Inherited Disorders of Iron Metabolism. BioMetals, 2005, 18, 339-348.	4.1	59
24	Duodenal expression of iron transport molecules in untreated haemochromatosis subjects. Gut, 2003, 52, 953-959.	12.1	53
25	Iron metabolism in the hemoglobin-deficit mouse: correlation of diferric transferrin with hepcidin expression. Blood, 2006, 107, 1659-1664.	1.4	51
26	Severe iron deficiency blunts the response of the iron regulatory gene Hamp and pro-inflammatory cytokines to lipopolysaccharide. Haematologica, 2010, 95, 1660-1667.	3.5	50
27	Dietary iron depletion at weaning imprints low microbiome diversity and this is not recovered with oral nano Fe(III). MicrobiologyOpen, 2015, 4, 12-27.	3.0	48
28	Iron homeostasis. Current Opinion in Clinical Nutrition and Metabolic Care, 2016, 19, 276-281.	2.5	43
29	Molecular basis of iron-loading disorders. Expert Reviews in Molecular Medicine, 2010, 12, e36.	3.9	42
30	Ferroportin mediates the intestinal absorption of iron from a nanoparticulate ferritin core mimetic in mice. FASEB Journal, 2014, 28, 3671-3678.	0.5	42
31	Stimulated erythropoiesis with secondary iron loading leads to a decrease in hepcidin despite an increase in bone morphogenetic protein 6 expression. British Journal of Haematology, 2012, 157, 615-626.	2.5	39
32	Iron metabolism meets signal transduction. Nature Genetics, 2006, 38, 503-504.	21.4	36
33	Severe Iron Metabolism Defects in Mice With Double Knockout of the Multicopper Ferroxidases Hephaestin and Ceruloplasmin. Cellular and Molecular Gastroenterology and Hepatology, 2018, 6, 405-427.	4.5	36
34	The Expression and Regulation of the Iron Transport Molecules Hephaestin and IREG1. Cell Biochemistry and Biophysics, 2002, 36, 137-146.	1.8	32
35	Circulating iron levels influence the regulation of hepcidin following stimulated erythropoiesis. Haematologica, 2018, 103, 1616-1626.	3.5	30
36	Elevated iron absorption in the neonatal rat reflects high expression of iron transport genes in the distal alimentary tract. American Journal of Physiology - Renal Physiology, 2007, 293, G525-G531.	3.4	29

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37	Polymeric Nanoparticles Enhance the Ability of Deferoxamine To Deplete Hepatic and Systemic Iron. Nano Letters, 2018, 18, 5782-5790.	9.1	27
38	Systemic Regulation of Intestinal Iron Absorption. IUBMB Life, 2005, 57, 499-503.	3.4	25
39	Hepcidin compared with prohepcidin: an absorbing story. American Journal of Clinical Nutrition, 2009, 89, 475-476.	4.7	24
40	Reduced Expression of Ferroportin-1 Mediates Hyporesponsiveness of Suckling Rats to Stimuli That Reduce Iron Absorption. Gastroenterology, 2011, 141, 300-309.	1.3	24
41	Ferroportin Is Essential for Iron Absorption During Suckling,ÂButÂIs Hyporesponsive to the Regulatory HormoneÂHepcidin. Cellular and Molecular Gastroenterology and Hepatology, 2017, 3, 410-421.	4.5	24
42	Recent advances in intestinal iron transport. Current Gastroenterology Reports, 2005, 7, 365-372.	2.5	21
43	Sustained expression of heme oxygenase-1 alters iron homeostasis in nonerythroid cells. Free Radical Biology and Medicine, 2012, 53, 366-374.	2.9	21
44	Iron supplementation has minor effects on gut microbiota composition in overweight and obese women in early pregnancy. British Journal of Nutrition, 2018, 120, 283-289.	2.3	20
45	The role of duodenal cytochrome b in intestinal iron absorption remains unclear. Blood, 2005, 106, 4413-4414.	1.4	19
46	Characterization of Putative Erythroid Regulators of Hepcidin in Mouse Models of Anemia. PLoS ONE, 2017, 12, e0171054.	2.5	17
47	The biology of mammalian multi-copper ferroxidases. BioMetals, 2023, 36, 263-281.	4.1	17
48	Increased duodenal expression of divalent metal transporter 1 and iron-regulated gene 1 in cirrhosis. Hepatology, 2004, 39, 492-499.	7.3	16
49	Intestinal iron absorption during suckling in mammals. BioMetals, 2011, 24, 567-574.	4.1	16
50	Increased susceptibility of cystic fibrosis airway epithelial cells to ferroptosis. Biological Research, 2021, 54, 38.	3.4	13
51	Dietary iron absorption during early postnatal life. BioMetals, 2019, 32, 385-393.	4.1	12
52	Intestinal Iron Transport and its Regulation. Hematology, 2001, 6, 193-203.	1.5	9
53	Supplementation with SucrosomialÂ® iron leads to favourable changes in the intestinal microbiome when compared to ferrous sulfate in mice. BioMetals, 2022, 35, 27-38.	4.1	9
54	A Novel Ferritin-Core Analog Is a Safe and Effective Alternative to Oral Ferrous Iron for Treating Iron Deficiency during Pregnancy in Mice. Journal of Nutrition, 2022, 152, 714-722.	2.9	8

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55	Iron accumulation is associated with periodontal destruction in a mouse model of HFEâ€related haemochromatosis. Journal of Periodontal Research, 2022, 57, 294-304.	2.7	8
56	Mice overexpressing hepcidin suggest ferroportin does not play a major role in Mn homeostasis. Metallomics, 2019, 11, 959-967.	2.4	7
57	The Placental Ferroxidase Zyklopen Is Not Essential for Iron Transport to the Fetus in Mice. Journal of Nutrition, 2021, 151, 2541-2550.	2.9	7
58	Food deprivation increases hepatic hepcidin expression and can overcome the effect of Hfe deletion in male mice. FASEB Journal, 2018, 32, 6079-6088.	0.5	6
59	Hepcidin independent iron recycling in a mouse model of Î²â€thalassaemia intermedia. British Journal of Haematology, 2016, 175, 308-317.	2.5	5
60	How much iron is too much?. Expert Review of Gastroenterology and Hepatology, 2008, 2, 287-290.	3.0	3
61	Disruption of Hfe leads to skeletal muscle iron loading and reduction of hemoproteins involved in oxidative metabolism in a mouse model of hereditary hemochromatosis. Biochimica Et Biophysica Acta - General Subjects, 2022, 1866, 130082.	2.4	2
62	Investigating the Links between Lower Iron Status in Pregnancy and Respiratory Disease in Offspring Using Murine Models. Nutrients, 2021, 13, 4461.	4.1	2
63	Subcellular localization and differentiation-associated expression of hephaestin: A protein required for intestinal iron absorption. Gastroenterology, 2000, 118, A661.	1.3	1
64	Is there a better way to set population iron recommendations?. American Journal of Clinical Nutrition, 2017, 105, 1255-1256.	4.7	1
65	Hepcidin and the Hormonal Control of Iron Homeostasis. , 2017, , 175-186.		1
66	Ironing Out the Effects of Overweight and Obesity on Hepcidin Production during Pregnancy. Journal of Nutrition, 2021, 151, 2087-2088.	2.9	1
67	Distribution and regulation of iron transport genes in the rat gastrointestinal tract: Implications for the control of iron absorption. Gastroenterology, 2000, 118, A69.	1.3	0
68	Iron; Intestinal Absorption. , 2020, , 301-311.		0
69	The relative importance of luminal and systemic signals in the control of intestinal iron absorption. Gastroenterology, 2001, 120, A678-A679.	1.3	0
70	Intestinal iron transporter expression in liver disease. Gastroenterology, 2001, 120, A678-A678.	1.3	0
71	Expression of the Iron Regulatory Peptide Hepcidin Is Reduced in Patients with Chronic Liver Disease.. Blood, 2005, 106, 3591-3591.	1.4	0