Tracey Ann Rouault

List of Publications by Year
in descending order

165 papers	18,122 citations	9786 73 h-index	12946 131 g-index
168 all docs	168 docs citations	168 times ranked	16258 citing authors

#	Article	IF	Citations
1	Regulating the fate of mRNA: The control of cellular iron metabolism. Cell, 1993, 72, 19-28.	28.9	1,266
2	The role of iron regulatory proteins in mammalian iron homeostasis and disease. Nature Chemical Biology, 2006, 2, 406-414.	8.0	906
3	A role of SMAD4 in iron metabolism through the positive regulation of hepcidin expression. Cell Metabolism, 2005, 2, 399-409.	16.2	547
4	Targeted deletion of the gene encoding iron regulatory protein-2 causes misregulation of iron metabolism and neurodegenerative disease in mice. Nature Genetics, 2001, 27, 209-214.	21.4	451
5	Iron metabolism in the CNS: implications for neurodegenerative diseases. Nature Reviews Neuroscience, 2013, 14, 551-564.	10.2	374
6	Ironâ€“sulphur cluster biogenesis and mitochondrial iron homeostasis. Nature Reviews Molecular Cell Biology, 2005, 6, 345-351.	37.0	373
7	Serum ferritin is derived primarily from macrophages through a nonclassical secretory pathway. Blood, 2010, 116, 1574-1584.	1.4	364
8	Genetic ablations of iron regulatory proteins 1 and 2 reveal why iron regulatory protein 2 dominates iron homeostasis. EMBO Journal, 2004, 23, 386-395.	7.8	361
9	Ironâ€“sulfur cluster biogenesis and human disease. Trends in Genetics, 2008, 24, 398-407.	6.7	337
10	Sedimentation equilibrium analysis of protein interactions with global implicit mass conservation constraints and systematic noise decomposition. Analytical Biochemistry, 2004, 326, 234-256.	2.4	333
11	Structural relationship between an iron-regulated RNA-binding protein (IRE-BP) and aconitase: Functional implications. Cell, 1991, 64, 881-883.	28.9	307
12	Biogenesis of iron-sulfur clusters in mammalian cells: new insights and relevance to human disease. DMM Disease Models and Mechanisms, 2012, 5, 155-164.	2.4	285
13	Functions of mitochondrial ISCU and cytosolic ISCU in mammalian iron-sulfur cluster biogenesis and iron homeostasis. Cell Metabolism, 2006, 3, 199-210.	16.2	275
14	Iron-dependent regulation of the divalent metal ion transporter. FEBS Letters, 2001, 509, 309-316.	2.8	269
15	Mutations in Iron-Sulfur Cluster Scaffold Genes NFU1 and BOLA3 Cause a Fatal Deficiency of Multiple Respiratory Chain and 2-Oxoacid Dehydrogenase Enzymes. American Journal of Human Genetics, 2011, 89, 486-495.	6.2	253
16	Brain Iron Metabolism. Seminars in Pediatric Neurology, 2006, 13, 142-148.	2.0	238
17	Dysfunction of the heme recycling system in heme oxygenase 1â€“deficient mice: effects on macrophage viability and tissue iron distribution. Blood, 2010, 116, 6054-6062.	1.4	232
18	Nitric oxide orchestrates metabolic rewiring in M1 macrophages by targeting aconitase 2 and pyruvate dehydrogenase. Nature Communications, 2020, 11, 698.	12.8	232

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19	A Ferroportin Transcript that Lacks an Iron-Responsive Element Enables Duodenal and Erythroid Precursor Cells to Evade Translational Repression. Cell Metabolism, 2009, 9, 461-473.	16.2	230
20	Human Ironâ^'Sulfur Cluster Assembly, Cellular Iron Homeostasis, and Disease. Biochemistry, 2010, 49, 4945-4956.	2.5	223
21	Mammalian Tissue Oxygen Levels Modulate Iron-Regulatory Protein Activities in Vivo. Science, 2004, 306, 2087-2090.	12.6	222
22	Iron Accumulation in Deep Cortical Layers Accounts for MRI Signal Abnormalities in ALS: Correlating 7 Tesla MRI and Pathology. PLoS ONE, 2012, 7, e35241.	2.5	221
23	Regulation of Iron Metabolism in Eukaryotes. Current Topics in Cellular Regulation, 1997, 35, 1-19.	9.6	218
24	Mitochondrial iron chelation ameliorates cigarette smokeâ€"induced bronchitis and emphysema in mice. Nature Medicine, 2016, 22, 163-174.	30.7	206
25	Glutaredoxin 5 deficiency causes sideroblastic anemia by specifically impairing heme biosynthesis and depleting cytosolic iron in human erythroblasts. Journal of Clinical Investigation, 2010, 120, 1749-1761.	8.2	202
26	Tumour-elicited neutrophils engage mitochondrial metabolism to circumvent nutrient limitations and maintain immune suppression. Nature Communications, 2018, 9, 5099.	12.8	201
27	Microcytic anemia, erythropoietic protoporphyria, and neurodegeneration in mice with targeted deletion of iron-regulatory protein 2. Blood, 2005, 106, 1084-1091.	1.4	197
28	The physiological functions of iron regulatory proteins in iron homeostasis - an update. Frontiers in Pharmacology, 2014, 5, 124.	3.5	196
29	Structure and dynamics of the iron responsive element RNA: implications for binding of the RNA by iron regulatory binding proteins. Journal of Molecular Biology, 1997, 274, 72-83.	4.2	195
30	Expression of the iron transporter ferroportin in synaptic vesicles and the bloodâ€"brain barrier. Brain Research, 2004, 1001, 108-117.	2.2	193
31	Splice Mutation in the Iron-Sulfur Cluster Scaffold Protein ISCU Causes Myopathy with ExerciseÂIntolerance. American Journal of Human Genetics, 2008, 82, 652-660.	6.2	193
32	The Glycolytic Shift in Fumarate-Hydratase-Deficient Kidney Cancer Lowers AMPK Levels, Increases Anabolic Propensities and Lowers Cellular Iron Levels. Cancer Cell, 2011, 20, 315-327.	16.8	190
33	Iron overload in Africans and African-Americans and a common mutation in the SCL40A1 (ferroportin) Tj ETQq1 1 0.784314 rgBT /Overl	1.4	187
34	Subcellular compartmentalization of human Nfu, an iron-sulfur cluster scaffold protein, and its ability to assemble a [4Fe-4S] cluster. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9762-9767.	7.1	185
35	Targeting of a Human Ironâ€"Sulfur Cluster Assembly Enzyme, nifs, to Different Subcellular Compartments Is Regulated through Alternative AUG Utilization. Molecular Cell, 1998, 2, 807-815.	9.7	176
36	Identification of the ubiquitinâ€"protein ligase that recognizes oxidized IRP2. Nature Cell Biology, 2003, 5, 336-340.	10.3	176

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37	Molecular Pathways: <i>Fumarate Hydratase</i>-Deficient Kidney Cancerâ€”Targeting the Warburg Effect in Cancer. Clinical Cancer Research, 2013, 19, 3345-3352.	7.0	172
38	Iron â€“sulfur cluster biogenesis in mammalian cells: New insights into the molecular mechanisms of cluster delivery. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 1493-1512.	4.1	170
39	Deletion of Iron Regulatory Protein 1 Causes Polycythemia and Pulmonary Hypertension in Mice through Translational Derepression of HIF2Î±. Cell Metabolism, 2013, 17, 271-281.	16.2	163
40	Mammalian ironâ€“sulphur proteins: novel insights into biogenesis and function. Nature Reviews Molecular Cell Biology, 2015, 16, 45-55.	37.0	161
41	Dietary iron overload as a risk factor for hepatocellular carcinoma in black africans. Hepatology, 1998, 27, 1563-1566.	7.3	159
42	Ferritin is secreted via 2 distinct nonclassical vesicular pathways. Blood, 2018, 131, 342-352.	1.4	143
43	Human ISD11 is essential for both iron-sulfur cluster assembly and maintenance of normal cellular iron homeostasis. Human Molecular Genetics, 2009, 18, 3014-3025.	2.9	136
44	Cochaperone Binding to LYR Motifs Confers Specificity of Iron Sulfur Cluster Delivery. Cell Metabolism, 2014, 19, 445-457.	16.2	136
45	Iron-dependent regulation of frataxin expression: implications for treatment of Friedreich ataxia. Human Molecular Genetics, 2008, 17, 2265-2273.	2.9	134
46	Both human ferredoxins 1 and 2 and ferredoxin reductase are important for iron-sulfur cluster biogenesis. Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 484-492.	4.1	133
47	Identification of a Conserved and Functional Iron-responsive Element in the 5â€²-Untranslated Region of Mammalian Mitochondrial Aconitase. Journal of Biological Chemistry, 1996, 271, 24226-24230.	3.4	131
48	A model for the structure and functions of iron-responsive elements. Gene, 1988, 72, 201-208.	2.2	126
49	Metabolic regulation of citrate and iron by aconitases: role of ironâ€“sulfur cluster biogenesis. BioMetals, 2007, 20, 549-564.	4.1	124
50	Biogenesis and functions of mammalian iron-sulfur proteins in the regulation of iron homeostasis and pivotal metabolic pathways. Journal of Biological Chemistry, 2017, 292, 12744-12753.	3.4	122
51	Iron on the brain. Nature Genetics, 2001, 28, 299-300.	21.4	115
52	Homeostatic Mechanisms for Iron Storage Revealed by Genetic Manipulations and Live Imaging of Drosophila Ferritin. Genetics, 2007, 177, 89-100.	2.9	112
53	Clinical Severity and Thermodynamic Effects of Iron-responsive Element Mutations in Hereditary Hyperferritinemia-Cataract Syndrome. Journal of Biological Chemistry, 1999, 274, 26439-26447.	3.4	111
54	Characterization of mitochondrial ferritin in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5893-5898.	7.1	110

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55	Brain iron homeostasis, the choroid plexus, and localization of iron transport proteins. Metabolic Brain Disease, 2009, 24, 673-684.	2.9	108
56	Complete loss of iron regulatory proteins 1 and 2 prevents viability of murine zygotes beyond the blastocyst stage of embryonic development. Blood Cells, Molecules, and Diseases, 2006, 36, 283-287.	1.4	106
57	Erythrocytic ferroportin reduces intracellular iron accumulation, hemolysis, and malaria risk. Science, 2018, 359, 1520-1523.	12.6	104
58	Iron chaperones PCBP1 and PCBP2 mediate the metallation of the dinuclear iron enzyme deoxyhypusine hydroxylase. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8031-8036.	7.1	102
59	Compartment-specific Protection of Iron-Sulfur Proteins by Superoxide Dismutase. Journal of Biological Chemistry, 2003, 278, 47365-47369.	3.4	98
60	Mutations in LYRM4, encoding ironâ€“sulfur cluster biogenesis factor ISD11, cause deficiency of multiple respiratory chain complexes. Human Molecular Genetics, 2013, 22, 4460-4473.	2.9	97
61	Severity of Neurodegeneration Correlates with Compromise of Iron Metabolism in Mice with Iron Regulatory Protein Deficiencies. Annals of the New York Academy of Sciences, 2004, 1012, 65-83.	3.8	93
62	Posttranslational stability of the heme biosynthetic enzyme ferrochelatase is dependent on iron availability and intact iron-sulfur cluster assembly machinery. Blood, 2010, 115, 860-869.	1.4	92
63	Neuroprotective Mechanism of Mitochondrial Ferritin on 6-Hydroxydopamineâ€“Induced Dopaminergic Cell Damage: Implication for Neuroprotection in Parkinson's Disease. Antioxidants and Redox Signaling, 2010, 13, 783-796.	5.4	92
64	SDHB-Deficient Cancers: The Role of Mutations That Impair Iron Sulfur Cluster Delivery. Journal of the National Cancer Institute, 2016, 108, djv287.	6.3	92
65	Disease-Causing SDHAF1 Mutations Impair Transfer of Fe-S Clusters to SDHB. Cell Metabolism, 2016, 23, 292-302.	16.2	89
66	Targeting ABL1-Mediated Oxidative Stress Adaptation in Fumarate Hydratase-Deficient Cancer. Cancer Cell, 2014, 26, 840-850.	16.8	87
67	An iron-sulfur cluster plays a novel regulatory role in the iron-responsive element binding protein. BioMetals, 1992, 5, 131-140.	4.1	86
68	Renal Iron Metabolism: Transferrin Iron Delivery and the Role of Iron Regulatory Proteins. Journal of the American Society of Nephrology: JASN, 2007, 18, 401-406.	6.1	86
69	Characterization of the human HSC20, an unusual DnaJ type III protein, involved in ironâ€“sulfur cluster biogenesis. Human Molecular Genetics, 2010, 19, 3816-3834.	2.9	85
70	Outlining the Complex Pathway of Mammalian Fe-S Cluster Biogenesis. Trends in Biochemical Sciences, 2020, 45, 411-426.	7.5	85
71	Roles of the Mammalian Cytosolic Cysteine Desulfurase, ISCS, and Scaffold Protein, ISCU, in Iron-Sulfur Cluster Assembly. Journal of Biological Chemistry, 2006, 281, 12344-12351.	3.4	84
72	Hepcidin regulates ferroportin expression and intracellular iron homeostasis of erythroblasts. Blood, 2011, 118, 2868-2877.	1.4	84

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73	Metabolic Reprogramming for Producing Energy and Reducing Power in Fumarate Hydratase Null Cells from Hereditary Leiomyomatosis Renal Cell Carcinoma. PLoS ONE, 2013, 8, e72179.	2.5	80
74	Translational Repressor Activity Is Equivalent and Is Quantitatively Predicted by in Vitro RNA Binding for Two Iron-responsive Element-binding Proteins, IRP1 and IRP2. Journal of Biological Chemistry, 1995, 270, 4983-4986.	3.4	79
75	Tempol-mediated activation of latent iron regulatory protein activity prevents symptoms of neurodegenerative disease in IRP2 knockout mice. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12028-12033.	7.1	78
76	A Single Adaptable Cochaperone-Scaffold Complex Delivers Nascent Iron-Sulfur Clusters to Mammalian Respiratory Chain Complexes Iâ€“III. Cell Metabolism, 2017, 25, 945-953.e6.	16.2	78
77	MICROBIOLOGY: Enhanced: Pathogenic Bacteria Prefer Heme. Science, 2004, 305, 1577-1578.	12.6	74
78	Fe-S cofactors in the SARS-CoV-2 RNA-dependent RNA polymerase are potential antiviral targets. Science, 2021, 373, 236-241.	12.6	71
79	Acute loss of ironâ€“sulfur clusters results in metabolic reprogramming and generation of lipid droplets in mammalian cells. Journal of Biological Chemistry, 2018, 293, 8297-8311.	3.4	70
80	Systemic iron metabolism: a review and implications for brain iron metabolism. Pediatric Neurology, 2001, 25, 130-137.	2.1	68
81	Advancements in the pathophysiology of Friedreichâ€™s Ataxia and new prospects for treatments. Molecular Genetics and Metabolism, 2007, 92, 23-35.	1.1	65
82	Ferroportin deficiency in erythroid cells causes serum iron deficiency and promotes hemolysis due to oxidative stress. Blood, 2018, 132, 2078-2087.	1.4	65
83	Mitochondrial DNA alterations underlie an irreversible shift to aerobic glycolysis in fumarate hydrataseâ€“deficient renal cancer. Science Signaling, 2021, 14, .	3.6	64
84	Expression of a Constitutive Mutant of Iron Regulatory Protein 1 Abolishes Iron Homeostasis in Mammalian Cells. Journal of Biological Chemistry, 1995, 270, 15451-15454.	3.4	61
85	The indispensable role of mammalian iron sulfur proteins in function and regulation of multiple diverse metabolic pathways. BioMetals, 2019, 32, 343-353.	4.1	61
86	Elevated FGF21 secretion, PGC-1Î± and ketogenic enzyme expression are hallmarks of ironâ€“sulfur cluster depletion in human skeletal muscle. Human Molecular Genetics, 2014, 23, 24-39.	2.9	59
87	MRI detection of ferritin iron overload and associated neuronal pathology in iron regulatory protein-2 knockout mice. Brain Research, 2003, 971, 95-106.	2.2	57
88	Electron tomography of degenerating neurons in mice with abnormal regulation of iron metabolism. Journal of Structural Biology, 2005, 150, 144-153.	2.8	55
89	Mitochondrial iron overload: causes and consequences. Current Opinion in Genetics and Development, 2016, 38, 31-37.	3.3	55
90	How Oxidation of a Unique Iron-Sulfur Cluster in FBXL5 Regulates IRP2 Levels and Promotes Regulation of Iron Metabolism Proteins. Molecular Cell, 2020, 78, 1-3.	9.7	55

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91	Of Two Cytosolic Aconitases Expressed in Drosophila, Only One Functions as an Iron-regulatory Protein. Journal of Biological Chemistry, 2006, 281, 18707-18714.	3.4	53
92	Iron-sulfur proteins hiding in plain sight. Nature Chemical Biology, 2015, 11, 442-445.	8.0	53
93	Immunolocalization and regulation of iron handling proteins ferritin and ferroportin in the retina. Molecular Vision, 2004, 10, 598-607.	1.1	53
94	Post-Transcriptional Regulation of Human Iron Metabolism by Iron Regulatory Proteins. Blood Cells, Molecules, and Diseases, 2002, 29, 309-314.	1.4	49
95	Iron Regulatory Protein 2 as Iron Sensor. Journal of Biological Chemistry, 2003, 278, 14857-14864.	3.4	49
96	Iron misregulation and neurodegenerative disease in mouse models that lack iron regulatory proteins. Neurobiology of Disease, 2015, 81, 66-75.	4.4	49
97	Iron Insufficiency Compromises Motor Neurons and Their Mitochondrial Function in Irp2-Null Mice. PLoS ONE, 2011, 6, e25404.	2.5	49
98	Wild-type macrophages reverse disease in heme oxygenase 1-deficient mice. Blood, 2014, 124, 1522-1530.	1.4	48
99	Mammalian ironâ€"sulfur cluster biogenesis: Recent insights into the roles of frataxin, acyl carrier protein and ATPase-mediated transfer to recipient proteins. Current Opinion in Chemical Biology, 2020, 55, 34-44.	6.1	48
100	The role of endogenous heme synthesis and degradation domain cysteines in cellular iron-dependent degradation of IRP2. Blood Cells, Molecules, and Diseases, 2003, 31, 247-255.	1.4	47
101	African iron overload and hepatocellular carcinoma (HAâ€7â€"0â€"080). European Journal of Haematology, 1998, 60, 28-34.	2.2	47
102	Potential role of iron in repair of inflammatory demyelinating lesions. Journal of Clinical Investigation, 2019, 129, 4365-4376.	8.2	45
103	Novel Frataxin Isoforms May Contribute to the Pathological Mechanism of Friedreich Ataxia. PLoS ONE, 2012, 7, e47847.	2.5	41
104	Traditional Beer Consumption and the Iron Status of Spouse Pairs From a Rural Community in Zimbabwe. Blood, 1997, 89, 2159-2166.	1.4	40
105	Dimeric ferrochelatase bridges ABCB7 and ABCB10 homodimers in an architecturally defined molecular complex required for heme biosynthesis. Haematologica, 2019, 104, 1756-1767.	3.5	40
106	Hepatic iron overload in alcoholic liver disease: why does it occur and what is its role in pathogenesis?. Alcohol, 2003, 30, 103-106.	1.7	39
107	Deletional analysis of the promoter region of the human transferrin receptor gene. Nucleic Acids Research, 1988, 16, 629-646.	14.5	38
108	Cytosolic HSC20 integrates de novo ironâ€"sulfur cluster biogenesis with the CIAO1-mediated transfer to recipients. Human Molecular Genetics, 2018, 27, 837-852.	2.9	38

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109	Absence of iron-responsive element-binding protein 2 causes a novel neurodegenerative syndrome. Brain, 2019, 142, 1195-1202.	7.6	38
110	Sequence and expression of the murine iron-responsive element binding protein. Nucleic Acids Research, 1991, 19, 6333-6333.	14.5	37
111	An IRP-like protein from Plasmodium falciparum binds to a mammalian iron-responsive element. Blood, 2001, 98, 2555-2562.	1.4	37
112	Neurochemical investigations of dopamine neuronal systems in iron-regulatory protein 2 (IRP-2) knockout mice. Molecular Brain Research, 2005, 139, 341-347.	2.3	36
113	Non-transferrin-bound iron and hepatic dysfunction in African dietary iron overload. Journal of Gastroenterology and Hepatology (Australia), 2002, 14, 126-132.	2.8	35
114	Erythropoiesis and Iron Sulfur Cluster Biogenesis. Advances in Hematology, 2010, 2010, 1-8.	1.0	33
115	Tissue Specificity of a Human Mitochondrial Disease. Journal of Biological Chemistry, 2012, 287, 40119-40130.	3.4	32
116	TLR-activated repression of Fe-S cluster biogenesis drives a metabolic shift and alters histone and tubulin acetylation. Blood Advances, 2018, 2, 1146-1156.	5.2	32
117	Heme biosynthesis depends on previously unrecognized acquisition of iron-sulfur cofactors in human amino-levulinic acid dehydratase. Nature Communications, 2020, 11, 6310.	12.8	32
118	Expression of a recombinant IRP-like Plasmodium falciparum protein that specifically binds putative plasmodial IREs. Molecular and Biochemical Parasitology, 2003, 126, 231-238.	1.1	31
119	Expression of Human Frataxin Is Regulated by Transcription Factors SRF and TFAP2. PLoS ONE, 2010, 5, e12286.	2.5	30
120	Identification of a Heme-sensing Domain in Iron Regulatory Protein 2. Journal of Biological Chemistry, 2004, 279, 45450-45454.	3.4	29
121	An iron regulatory-like protein expressed in Plasmodium falciparum displays aconitase activity. Molecular and Biochemical Parasitology, 2005, 143, 29-38.	1.1	29
122	The Intestinal Heme Transporter Revealed. Cell, 2005, 122, 649-651.	28.9	29
123	Mammalian Feâ€"S proteins: definition of a consensus motif recognized by the co-chaperone HSC20. Metallomics, 2016, 8, 1032-1046.	2.4	29
124	An Ancient Gauge for Iron. Science, 2009, 326, 676-677.	12.6	25
125	Ferritin overexpression in Drosophila glia leads to iron deposition in the optic lobes and late-onset behavioral defects. Neurobiology of Disease, 2011, 43, 213-219.	4.4	25
126	Numerous Proteins in Mammalian Cells Are Prone to Iron-Dependent Oxidation and Proteasomal Degradation. Developmental Neuroscience, 2002, 24, 114-124.	2.0	24

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127	Therapeutic inhibition of HIF-2Î± reverses polycythemia and pulmonary hypertension in murine models of human diseases. Blood, 2021, 137, 2509-2519.	1.4	24
128	Mechanisms of cellular iron sensing, regulation of erythropoiesis and mitochondrial iron utilization. Seminars in Hematology, 2021, 58, 161-174.	3.4	24
129	Translational repression of HIF2Î± expression in mice with Chuvash polycythemia reverses polycythemia. Journal of Clinical Investigation, 2018, 128, 1317-1325.	8.2	24
130	Glia maturation factor-Î³ regulates murine macrophage iron metabolism and M2 polarization through mitochondrial ROS. Blood Advances, 2019, 3, 1211-1225.	5.2	23
131	Manganese targets m-aconitase and activates iron regulatory protein 2 in AF5 GABAergic cells. Journal of Neuroscience Research, 2007, 85, 1797-1809.	2.9	22
132	Behavioral decline and premature lethality upon pan-neuronal ferritin overexpression in Drosophila infected with a virulent form of Wolbachia. Frontiers in Pharmacology, 2014, 5, 66.	3.5	22
133	Targeting HIF2Î± Translation with Tempol in VHL-Deficient Clear Cell Renal Cell Carcinoma. Oncotarget, 2012, 3, 1472-1482.	1.8	20
134	Reply to â€œIron homeostasis in the brain: complete iron regulatory protein 2 deficiency without symptomatic neurodegeneration in the mouseâ€. Nature Genetics, 2006, 38, 969-970.	21.4	18
135	Insertion mutants in Drosophila melanogaster Hsc20 halt larval growth and lead to reduced ironâ€"sulfur cluster enzyme activities and impaired iron homeostasis. Journal of Biological Inorganic Chemistry, 2013, 18, 441-449.	2.6	18
136	Infused wild-type macrophages reside and self-renew in the liver to rescue the hemolysis and anemia of Hmox1-deficient mice. Blood Advances, 2018, 2, 2732-2743.	5.2	18
137	Assembly of the [4Feâ€"4S] cluster of NFU1 requires the coordinated donation of two [2Feâ€"2S] clusters from the scaffold proteins, ISCU2 and ISCA1. Human Molecular Genetics, 2020, 29, 3165-3182.	2.9	18
138	A high-capacity RNA affinity column for the purification of human IRP1 and IRP2 overexpressed in Pichia pastoris. Rna, 2003, 9, 364-374.	3.5	17
139	Orchestrated regulation of iron trafficking proteins in the kidney during iron overload facilitates systemic iron retention. PLoS ONE, 2018, 13, e0204471.	2.5	16
140	How does hepcidin hinder ferroportin activity?. Blood, 2018, 131, 840-842.	1.4	14
141	The Promoter Region of the Human Transferrin Receptor Gene. Annals of the New York Academy of Sciences, 1988, 526, 54-64.	3.8	12
142	Biochemical and Biophysical Methods for Studying Mitochondrial Iron Metabolism. Methods in Enzymology, 2014, 547, 275-307.	1.0	12
143	Iron Homeostasis in the CNS: An Overview of the Pathological Consequences of Iron Metabolism Disruption. International Journal of Molecular Sciences, 2022, 23, 4490.	4.1	10
144	Linking physiological functions of iron. Nature Chemical Biology, 2005, 1, 193-194.	8.0	9

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145	Tangled Up In Red: Intertwining of the Heme and Iron-Sulfur Cluster Biogenesis Pathways. Cell Metabolism, 2009, 10, 80-81.	16.2	9
146	Essential role of systemic iron mobilization and redistribution for adaptive thermogenesis through HIF2-Î±/hepcidin axis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2109186118.	7.1	9
147	Methods for Studying Iron Regulatory Protein 1: An Important Protein in Human Iron Metabolism. Methods in Enzymology, 2018, 599, 139-155.	1.0	8
148	If the RNA Fits, Use It. Science, 2006, 314, 1886-1887.	12.6	6
149	Serum ferritin concentrations in Africans with low dietary iron. Annals of Hematology, 2009, 88, 1131-1136.	1.8	6
150	Use of antisense oligonucleotides to correct the splicing error in ISCU myopathy patient cell lines. Human Molecular Genetics, 2016, 25, ddw338.	2.9	6
151	Mammalian iron sulfur cluster biogenesis: From assembly to delivery to recipient proteins with a focus on novel targets of the chaperone and coâ€chaperone proteins. IUBMB Life, 2022, 74, 684-704.	3.4	6
152	Mammalian iron sulfur cluster biogenesis and human diseases. IUBMB Life, 2022, 74, 705-714.	3.4	6
153	Disruption of cellular iron homeostasis by <i>IREB2</i> missense variants causes severe neurodevelopmental delay, dystonia and seizures. Brain Communications, 2022, 4, .	3.3	5
154	Reply: IREB2-associated neurodegeneration. Brain, 2019, 142, e41-e41.	7.6	3
155	Dispensable iron-sulfur clusters: the interconversion of aconitase with the RNA-binding protein, IRE-BP. Chemistry and Biology, 1994, 1, xiv-xv.	6.0	2
156	Heme, whence come thy carbon building blocks?. Blood, 2018, 132, 981-982.	1.4	2
157	17. Biogenesis of Fe-S proteins in mammals. , 2014, , 437-454.		1
158	Hereditary hemochromatosis?sometimes having a real complex can be a good thing. Hepatology, 1998, 28, 890-891.	7.3	1
159	9 Delivery of iron-sulfur clusters to recipient proteins: the role of chaperone and cochaperone proteins. , 2017, , 205-226.		1
160	1. Iron-sulfur proteins: a historical perspective. , 2017, , 1-10.		1
161	Iron and Isocitrate Calibrate Erythropoietin Responsiveness of Erythroid Progenitors Via Aconitase Tuning of Protein Kinase C Activity.. Blood, 2009, 114, 627-627.	1.4	1
162	Regulation of Iron Metabolism in Mammalian Cells. , 2012, , 51-62.		1

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163	1. Iron-sulfur proteins: a historical perspective. , 2014, , 1-10.		0
164	8 Biogenesis of Fe-S proteins in mammals. , 2017, , 187-204.		0
165	Cofactors and Coenzymes | Iron-Sulfur Clusters: Biogenesis, Roles and their Identification in the Cellular Proteins. , 2020, , 363-374.		0