

Tracey Ann Rouault

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7210641/publications.pdf>

Version: 2024-02-01

165
papers

18,122
citations

9756

73
h-index

12910

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. <i>Cell</i> , 1993, 72, 19-28.	13.5	1,266
2	The role of iron regulatory proteins in mammalian iron homeostasis and disease. <i>Nature Chemical Biology</i> , 2006, 2, 406-414.	3.9	906
3	A role of SMAD4 in iron metabolism through the positive regulation of hepcidin expression. <i>Cell Metabolism</i> , 2005, 2, 399-409.	7.2	547
4	Targeted deletion of the gene encoding iron regulatory protein-2 causes misregulation of iron metabolism and neurodegenerative disease in mice. <i>Nature Genetics</i> , 2001, 27, 209-214.	9.4	451
5	Iron metabolism in the CNS: implications for neurodegenerative diseases. <i>Nature Reviews Neuroscience</i> , 2013, 14, 551-564.	4.9	374
6	Iron-sulphur cluster biogenesis and mitochondrial iron homeostasis. <i>Nature Reviews Molecular Cell Biology</i> , 2005, 6, 345-351.	16.1	373
7	Serum ferritin is derived primarily from macrophages through a nonclassical secretory pathway. <i>Blood</i> , 2010, 116, 1574-1584.	0.6	364
8	Genetic ablations of iron regulatory proteins 1 and 2 reveal why iron regulatory protein 2 dominates iron homeostasis. <i>EMBO Journal</i> , 2004, 23, 386-395.	3.5	361
9	Iron-sulfur cluster biogenesis and human disease. <i>Trends in Genetics</i> , 2008, 24, 398-407.	2.9	337
10	Sedimentation equilibrium analysis of protein interactions with global implicit mass conservation constraints and systematic noise decomposition. <i>Analytical Biochemistry</i> , 2004, 326, 234-256.	1.1	333
11	Structural relationship between an iron-regulated RNA-binding protein (IRE-BP) and aconitase: Functional implications. <i>Cell</i> , 1991, 64, 881-883.	13.5	307
12	Biogenesis of iron-sulfur clusters in mammalian cells: new insights and relevance to human disease. <i>DMM Disease Models and Mechanisms</i> , 2012, 5, 155-164.	1.2	285
13	Functions of mitochondrial ISCU and cytosolic ISCU in mammalian iron-sulfur cluster biogenesis and iron homeostasis. <i>Cell Metabolism</i> , 2006, 3, 199-210.	7.2	275
14	Iron-dependent regulation of the divalent metal ion transporter. <i>FEBS Letters</i> , 2001, 509, 309-316.	1.3	269
15	Mutations in Iron-Sulfur Cluster Scaffold Genes <i>NFU1</i> and <i>BOLA3</i> Cause a Fatal Deficiency of Multiple Respiratory Chain and 2-Oxoacid Dehydrogenase Enzymes. <i>American Journal of Human Genetics</i> , 2011, 89, 486-495.	2.6	253
16	Brain Iron Metabolism. <i>Seminars in Pediatric Neurology</i> , 2006, 13, 142-148.	1.0	238
17	Dysfunction of the heme recycling system in heme oxygenase 1-deficient mice: effects on macrophage viability and tissue iron distribution. <i>Blood</i> , 2010, 116, 6054-6062.	0.6	232
18	Nitric oxide orchestrates metabolic rewiring in M1 macrophages by targeting aconitase 2 and pyruvate dehydrogenase. <i>Nature Communications</i> , 2020, 11, 698.	5.8	232

#	ARTICLE	IF	CITATIONS
19	A Ferroportin Transcript that Lacks an Iron-Responsive Element Enables Duodenal and Erythroid Precursor Cells to Evade Translational Repression. <i>Cell Metabolism</i> , 2009, 9, 461-473.	7.2	230
20	Human Iron-Sulfur Cluster Assembly, Cellular Iron Homeostasis, and Disease. <i>Biochemistry</i> , 2010, 49, 4945-4956.	1.2	223
21	Mammalian Tissue Oxygen Levels Modulate Iron-Regulatory Protein Activities in Vivo. <i>Science</i> , 2004, 306, 2087-2090.	6.0	222
22	Iron Accumulation in Deep Cortical Layers Accounts for MRI Signal Abnormalities in ALS: Correlating 7 Tesla MRI and Pathology. <i>PLoS ONE</i> , 2012, 7, e35241.	1.1	221
23	Regulation of Iron Metabolism in Eukaryotes. <i>Current Topics in Cellular Regulation</i> , 1997, 35, 1-19.	9.6	218
24	Mitochondrial iron chelation ameliorates cigarette smoke-induced bronchitis and emphysema in mice. <i>Nature Medicine</i> , 2016, 22, 163-174.	15.2	206
25	Glutaredoxin 5 deficiency causes sideroblastic anemia by specifically impairing heme biosynthesis and depleting cytosolic iron in human erythroblasts. <i>Journal of Clinical Investigation</i> , 2010, 120, 1749-1761.	3.9	202
26	Tumour-elicited neutrophils engage mitochondrial metabolism to circumvent nutrient limitations and maintain immune suppression. <i>Nature Communications</i> , 2018, 9, 5099.	5.8	201
27	Microcytic anemia, erythropoietic protoporphyria, and neurodegeneration in mice with targeted deletion of iron-regulatory protein 2. <i>Blood</i> , 2005, 106, 1084-1091.	0.6	197
28	The physiological functions of iron regulatory proteins in iron homeostasis - an update. <i>Frontiers in Pharmacology</i> , 2014, 5, 124.	1.6	196
29	Structure and dynamics of the iron responsive element RNA: implications for binding of the RNA by iron regulatory binding proteins. <i>Journal of Molecular Biology</i> , 1997, 274, 72-83.	2.0	195
30	Expression of the iron transporter ferroportin in synaptic vesicles and the blood-brain barrier. <i>Brain Research</i> , 2004, 1001, 108-117.	1.1	193
31	Splice Mutation in the Iron-Sulfur Cluster Scaffold Protein ISCU Causes Myopathy with Exercise Intolerance. <i>American Journal of Human Genetics</i> , 2008, 82, 652-660.	2.6	193
32	The Glycolytic Shift in Fumarate-Hydratase-Deficient Kidney Cancer Lowers AMPK Levels, Increases Anabolic Propensities and Lowers Cellular Iron Levels. <i>Cancer Cell</i> , 2011, 20, 315-327.	7.7	190
33	Iron overload in Africans and African-Americans and a common mutation in the SCL40A1 (ferroportin) Tj ETQq1 1 0,784314 rgBT /Overl 0.6 187	0.6	187
34	Subcellular compartmentalization of human Nfu, an iron-sulfur cluster scaffold protein, and its ability to assemble a [4Fe-4S] cluster. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9762-9767.	3.3	185
35	Targeting of a Human Iron-Sulfur Cluster Assembly Enzyme, nifs, to Different Subcellular Compartments Is Regulated through Alternative AUG Utilization. <i>Molecular Cell</i> , 1998, 2, 807-815.	4.5	176
36	Identification of the ubiquitin-protein ligase that recognizes oxidized IRP2. <i>Nature Cell Biology</i> , 2003, 5, 336-340.	4.6	176

#	ARTICLE	IF	CITATIONS
37	Molecular Pathways: <i>Fumarate Hydratase</i> -Deficient Kidney Cancer—Targeting the Warburg Effect in Cancer. <i>Clinical Cancer Research</i> , 2013, 19, 3345-3352.	3.2	172
38	Iron—sulfur cluster biogenesis in mammalian cells: New insights into the molecular mechanisms of cluster delivery. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 1493-1512.	1.9	170
39	Deletion of Iron Regulatory Protein 1 Causes Polycythemia and Pulmonary Hypertension in Mice through Translational Derepression of HIF2 α . <i>Cell Metabolism</i> , 2013, 17, 271-281.	7.2	163
40	Mammalian iron—sulphur proteins: novel insights into biogenesis and function. <i>Nature Reviews Molecular Cell Biology</i> , 2015, 16, 45-55.	16.1	161
41	Dietary iron overload as a risk factor for hepatocellular carcinoma in black africans. <i>Hepatology</i> , 1998, 27, 1563-1566.	3.6	159
42	Ferritin is secreted via 2 distinct nonclassical vesicular pathways. <i>Blood</i> , 2018, 131, 342-352.	0.6	143
43	Human ISD11 is essential for both iron-sulfur cluster assembly and maintenance of normal cellular iron homeostasis. <i>Human Molecular Genetics</i> , 2009, 18, 3014-3025.	1.4	136
44	Cochaperone Binding to LYR Motifs Confers Specificity of Iron Sulfur Cluster Delivery. <i>Cell Metabolism</i> , 2014, 19, 445-457.	7.2	136
45	Iron-dependent regulation of frataxin expression: implications for treatment of Friedreich ataxia. <i>Human Molecular Genetics</i> , 2008, 17, 2265-2273.	1.4	134
46	Both human ferredoxins 1 and 2 and ferredoxin reductase are important for iron-sulfur cluster biogenesis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2012, 1823, 484-492.	1.9	133
47	Identification of a Conserved and Functional Iron-responsive Element in the 5 α -Untranslated Region of Mammalian Mitochondrial Aconitase. <i>Journal of Biological Chemistry</i> , 1996, 271, 24226-24230.	1.6	131
48	A model for the structure and functions of iron-responsive elements. <i>Gene</i> , 1988, 72, 201-208.	1.0	126
49	Metabolic regulation of citrate and iron by aconitases: role of iron—sulfur cluster biogenesis. <i>BioMetals</i> , 2007, 20, 549-564.	1.8	124
50	Biogenesis and functions of mammalian iron-sulfur proteins in the regulation of iron homeostasis and pivotal metabolic pathways. <i>Journal of Biological Chemistry</i> , 2017, 292, 12744-12753.	1.6	122
51	Iron on the brain. <i>Nature Genetics</i> , 2001, 28, 299-300.	9.4	115
52	Homeostatic Mechanisms for Iron Storage Revealed by Genetic Manipulations and Live Imaging of <i>Drosophila</i> Ferritin. <i>Genetics</i> , 2007, 177, 89-100.	1.2	112
53	Clinical Severity and Thermodynamic Effects of Iron-responsive Element Mutations in Hereditary Hyperferritinemia-Cataract Syndrome. <i>Journal of Biological Chemistry</i> , 1999, 274, 26439-26447.	1.6	111
54	Characterization of mitochondrial ferritin in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 5893-5898.	3.3	110

#	ARTICLE	IF	CITATIONS
55	Brain iron homeostasis, the choroid plexus, and localization of iron transport proteins. <i>Metabolic Brain Disease</i> , 2009, 24, 673-684.	1.4	108
56	Complete loss of iron regulatory proteins 1 and 2 prevents viability of murine zygotes beyond the blastocyst stage of embryonic development. <i>Blood Cells, Molecules, and Diseases</i> , 2006, 36, 283-287.	0.6	106
57	Erythrocytic ferroportin reduces intracellular iron accumulation, hemolysis, and malaria risk. <i>Science</i> , 2018, 359, 1520-1523.	6.0	104
58	Iron chaperones PCBP1 and PCBP2 mediate the metallation of the dinuclear iron enzyme deoxyhypusine hydroxylase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8031-8036.	3.3	102
59	Compartment-specific Protection of Iron-Sulfur Proteins by Superoxide Dismutase. <i>Journal of Biological Chemistry</i> , 2003, 278, 47365-47369.	1.6	98
60	Mutations in LYRM4, encoding iron-sulfur cluster biogenesis factor ISD11, cause deficiency of multiple respiratory chain complexes. <i>Human Molecular Genetics</i> , 2013, 22, 4460-4473.	1.4	97
61	Severity of Neurodegeneration Correlates with Compromise of Iron Metabolism in Mice with Iron Regulatory Protein Deficiencies. <i>Annals of the New York Academy of Sciences</i> , 2004, 1012, 65-83.	1.8	93
62	Posttranslational stability of the heme biosynthetic enzyme ferrochelatase is dependent on iron availability and intact iron-sulfur cluster assembly machinery. <i>Blood</i> , 2010, 115, 860-869.	0.6	92
63	Neuroprotective Mechanism of Mitochondrial Ferritin on 6-Hydroxydopamine-Induced Dopaminergic Cell Damage: Implication for Neuroprotection in Parkinson's Disease. <i>Antioxidants and Redox Signaling</i> , 2010, 13, 783-796.	2.5	92
64	SDHB-Deficient Cancers: The Role of Mutations That Impair Iron Sulfur Cluster Delivery. <i>Journal of the National Cancer Institute</i> , 2016, 108, djv287.	3.0	92
65	Disease-Causing SDHAF1 Mutations Impair Transfer of Fe-S Clusters to SDHB. <i>Cell Metabolism</i> , 2016, 23, 292-302.	7.2	89
66	Targeting ABL1-Mediated Oxidative Stress Adaptation in Fumarate Hydratase-Deficient Cancer. <i>Cancer Cell</i> , 2014, 26, 840-850.	7.7	87
67	An iron-sulfur cluster plays a novel regulatory role in the iron-responsive element binding protein. <i>BioMetals</i> , 1992, 5, 131-140.	1.8	86
68	Renal Iron Metabolism: Transferrin Iron Delivery and the Role of Iron Regulatory Proteins. <i>Journal of the American Society of Nephrology: JASN</i> , 2007, 18, 401-406.	3.0	86
69	Characterization of the human HSC20, an unusual DnaJ type III protein, involved in iron-sulfur cluster biogenesis. <i>Human Molecular Genetics</i> , 2010, 19, 3816-3834.	1.4	85
70	Outlining the Complex Pathway of Mammalian Fe-S Cluster Biogenesis. <i>Trends in Biochemical Sciences</i> , 2020, 45, 411-426.	3.7	85
71	Roles of the Mammalian Cytosolic Cysteine Desulfurase, ISCS, and Scaffold Protein, ISCU, in Iron-Sulfur Cluster Assembly. <i>Journal of Biological Chemistry</i> , 2006, 281, 12344-12351.	1.6	84
72	Hepcidin regulates ferroportin expression and intracellular iron homeostasis of erythroblasts. <i>Blood</i> , 2011, 118, 2868-2877.	0.6	84

#	ARTICLE	IF	CITATIONS
73	Metabolic Reprogramming for Producing Energy and Reducing Power in Fumarate Hydratase Null Cells from Hereditary Leiomyomatosis Renal Cell Carcinoma. <i>PLoS ONE</i> , 2013, 8, e72179.	1.1	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. <i>Journal of Biological Chemistry</i> , 1995, 270, 4983-4986.	1.6	79
75	Tempol-mediated activation of latent iron regulatory protein activity prevents symptoms of neurodegenerative disease in IRP2 knockout mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12028-12033.	3.3	78
76	A Single Adaptable Cochaperone-Scaffold Complex Delivers Nascent Iron-Sulfur Clusters to Mammalian Respiratory Chain Complexes <i>in vivo</i> . <i>Cell Metabolism</i> , 2017, 25, 945-953.e6.	7.2	78
77	MICROBIOLOGY: Enhanced: Pathogenic Bacteria Prefer Heme. <i>Science</i> , 2004, 305, 1577-1578.	6.0	74
78	Fe-S cofactors in the SARS-CoV-2 RNA-dependent RNA polymerase are potential antiviral targets. <i>Science</i> , 2021, 373, 236-241.	6.0	71
79	Acute loss of iron-sulfur clusters results in metabolic reprogramming and generation of lipid droplets in mammalian cells. <i>Journal of Biological Chemistry</i> , 2018, 293, 8297-8311.	1.6	70
80	Systemic iron metabolism: a review and implications for brain iron metabolism. <i>Pediatric Neurology</i> , 2001, 25, 130-137.	1.0	68
81	Advancements in the pathophysiology of Friedreich's Ataxia and new prospects for treatments. <i>Molecular Genetics and Metabolism</i> , 2007, 92, 23-35.	0.5	65
82	Ferroportin deficiency in erythroid cells causes serum iron deficiency and promotes hemolysis due to oxidative stress. <i>Blood</i> , 2018, 132, 2078-2087.	0.6	65
83	Mitochondrial DNA alterations underlie an irreversible shift to aerobic glycolysis in fumarate hydratase-deficient renal cancer. <i>Science Signaling</i> , 2021, 14, .	1.6	64
84	Expression of a Constitutive Mutant of Iron Regulatory Protein 1 Abolishes Iron Homeostasis in Mammalian Cells. <i>Journal of Biological Chemistry</i> , 1995, 270, 15451-15454.	1.6	61
85	The indispensable role of mammalian iron sulfur proteins in function and regulation of multiple diverse metabolic pathways. <i>BioMetals</i> , 2019, 32, 343-353.	1.8	61
86	Elevated FGF21 secretion, PGC-1 α and ketogenic enzyme expression are hallmarks of iron-sulfur cluster depletion in human skeletal muscle. <i>Human Molecular Genetics</i> , 2014, 23, 24-39.	1.4	59
87	MRI detection of ferritin iron overload and associated neuronal pathology in iron regulatory protein-2 knockout mice. <i>Brain Research</i> , 2003, 971, 95-106.	1.1	57
88	Electron tomography of degenerating neurons in mice with abnormal regulation of iron metabolism. <i>Journal of Structural Biology</i> , 2005, 150, 144-153.	1.3	55
89	Mitochondrial iron overload: causes and consequences. <i>Current Opinion in Genetics and Development</i> , 2016, 38, 31-37.	1.5	55
90	How Oxidation of a Unique Iron-Sulfur Cluster in FBXL5 Regulates IRP2 Levels and Promotes Regulation of Iron Metabolism Proteins. <i>Molecular Cell</i> , 2020, 78, 1-3.	4.5	55

#	ARTICLE	IF	CITATIONS
91	Of Two Cytosolic Aconitases Expressed in Drosophila, Only One Functions as an Iron-regulatory Protein. <i>Journal of Biological Chemistry</i> , 2006, 281, 18707-18714.	1.6	53
92	Iron-sulfur proteins hiding in plain sight. <i>Nature Chemical Biology</i> , 2015, 11, 442-445.	3.9	53
93	Immunolocalization and regulation of iron handling proteins ferritin and ferroportin in the retina. <i>Molecular Vision</i> , 2004, 10, 598-607.	1.1	53
94	Post-Transcriptional Regulation of Human Iron Metabolism by Iron Regulatory Proteins. <i>Blood Cells, Molecules, and Diseases</i> , 2002, 29, 309-314.	0.6	49
95	Iron Regulatory Protein 2 as Iron Sensor. <i>Journal of Biological Chemistry</i> , 2003, 278, 14857-14864.	1.6	49
96	Iron misregulation and neurodegenerative disease in mouse models that lack iron regulatory proteins. <i>Neurobiology of Disease</i> , 2015, 81, 66-75.	2.1	49
97	Iron Insufficiency Compromises Motor Neurons and Their Mitochondrial Function in Irf2-Null Mice. <i>PLoS ONE</i> , 2011, 6, e25404.	1.1	49
98	Wild-type macrophages reverse disease in heme oxygenase 1-deficient mice. <i>Blood</i> , 2014, 124, 1522-1530.	0.6	48
99	Mammalian iron-sulfur cluster biogenesis: Recent insights into the roles of frataxin, acyl carrier protein and ATPase-mediated transfer to recipient proteins. <i>Current Opinion in Chemical Biology</i> , 2020, 55, 34-44.	2.8	48
100	The role of endogenous heme synthesis and degradation domain cysteines in cellular iron-dependent degradation of IRP2. <i>Blood Cells, Molecules, and Diseases</i> , 2003, 31, 247-255.	0.6	47
101	African iron overload and hepatocellular carcinoma (HA-7-080). <i>European Journal of Haematology</i> , 1998, 60, 28-34.	1.1	47
102	Potential role of iron in repair of inflammatory demyelinating lesions. <i>Journal of Clinical Investigation</i> , 2019, 129, 4365-4376.	3.9	45
103	Novel Frataxin Isoforms May Contribute to the Pathological Mechanism of Friedreich Ataxia. <i>PLoS ONE</i> , 2012, 7, e47847.	1.1	41
104	Traditional Beer Consumption and the Iron Status of Spouse Pairs From a Rural Community in Zimbabwe. <i>Blood</i> , 1997, 89, 2159-2166.	0.6	40
105	Dimeric ferrochelatase bridges ABCB7 and ABCB10 homodimers in an architecturally defined molecular complex required for heme biosynthesis. <i>Haematologica</i> , 2019, 104, 1756-1767.	1.7	40
106	Hepatic iron overload in alcoholic liver disease: why does it occur and what is its role in pathogenesis?. <i>Alcohol</i> , 2003, 30, 103-106.	0.8	39
107	Deletional analysis of the promoter region of the human transferrin receptor gene. <i>Nucleic Acids Research</i> , 1988, 16, 629-646.	6.5	38
108	Cytosolic HSC20 integrates de novo iron-sulfur cluster biogenesis with the CIAO1-mediated transfer to recipients. <i>Human Molecular Genetics</i> , 2018, 27, 837-852.	1.4	38

#	ARTICLE	IF	CITATIONS
109	Absence of iron-responsive element-binding protein 2 causes a novel neurodegenerative syndrome. <i>Brain</i> , 2019, 142, 1195-1202.	3.7	38
110	Sequence and expression of the murine iron-responsive element binding protein. <i>Nucleic Acids Research</i> , 1991, 19, 6333-6333.	6.5	37
111	An IRP-like protein from <i>Plasmodium falciparum</i> binds to a mammalian iron-responsive element. <i>Blood</i> , 2001, 98, 2555-2562.	0.6	37
112	Neurochemical investigations of dopamine neuronal systems in iron-regulatory protein 2 (IRP-2) knockout mice. <i>Molecular Brain Research</i> , 2005, 139, 341-347.	2.5	36
113	Non-transferrin-bound iron and hepatic dysfunction in African dietary iron overload. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2002, 14, 126-132.	1.4	35
114	Erythropoiesis and Iron Sulfur Cluster Biogenesis. <i>Advances in Hematology</i> , 2010, 2010, 1-8.	0.6	33
115	Tissue Specificity of a Human Mitochondrial Disease. <i>Journal of Biological Chemistry</i> , 2012, 287, 40119-40130.	1.6	32
116	TLR-activated repression of Fe-S cluster biogenesis drives a metabolic shift and alters histone and tubulin acetylation. <i>Blood Advances</i> , 2018, 2, 1146-1156.	2.5	32
117	Heme biosynthesis depends on previously unrecognized acquisition of iron-sulfur cofactors in human amino-levulinic acid dehydratase. <i>Nature Communications</i> , 2020, 11, 6310.	5.8	32
118	Expression of a recombinant IRP-like <i>Plasmodium falciparum</i> protein that specifically binds putative plasmodial IREs. <i>Molecular and Biochemical Parasitology</i> , 2003, 126, 231-238.	0.5	31
119	Expression of Human Frataxin Is Regulated by Transcription Factors SRF and TFAP2. <i>PLoS ONE</i> , 2010, 5, e12286.	1.1	30
120	Identification of a Heme-sensing Domain in Iron Regulatory Protein 2. <i>Journal of Biological Chemistry</i> , 2004, 279, 45450-45454.	1.6	29
121	An iron regulatory-like protein expressed in <i>Plasmodium falciparum</i> displays aconitase activity. <i>Molecular and Biochemical Parasitology</i> , 2005, 143, 29-38.	0.5	29
122	The Intestinal Heme Transporter Revealed. <i>Cell</i> , 2005, 122, 649-651.	13.5	29
123	Mammalian Fe-S proteins: definition of a consensus motif recognized by the co-chaperone HSC20. <i>Metallomics</i> , 2016, 8, 1032-1046.	1.0	29
124	An Ancient Gauge for Iron. <i>Science</i> , 2009, 326, 676-677.	6.0	25
125	Ferritin overexpression in <i>Drosophila</i> glia leads to iron deposition in the optic lobes and late-onset behavioral defects. <i>Neurobiology of Disease</i> , 2011, 43, 213-219.	2.1	25
126	Numerous Proteins in Mammalian Cells Are Prone to Iron-Dependent Oxidation and Proteasomal Degradation. <i>Developmental Neuroscience</i> , 2002, 24, 114-124.	1.0	24

#	ARTICLE	IF	CITATIONS
127	Therapeutic inhibition of HIF-2 α reverses polycythemia and pulmonary hypertension in murine models of human diseases. <i>Blood</i> , 2021, 137, 2509-2519.	0.6	24
128	Mechanisms of cellular iron sensing, regulation of erythropoiesis and mitochondrial iron utilization. <i>Seminars in Hematology</i> , 2021, 58, 161-174.	1.8	24
129	Translational repression of HIF2 α expression in mice with Chuvash polycythemia reverses polycythemia. <i>Journal of Clinical Investigation</i> , 2018, 128, 1317-1325.	3.9	24
130	Glia maturation factor- β regulates murine macrophage iron metabolism and M2 polarization through mitochondrial ROS. <i>Blood Advances</i> , 2019, 3, 1211-1225.	2.5	23
131	Manganese targets m-aconitase and activates iron regulatory protein 2 in AF5 GABAergic cells. <i>Journal of Neuroscience Research</i> , 2007, 85, 1797-1809.	1.3	22
132	Behavioral decline and premature lethality upon pan-neuronal ferritin overexpression in <i>Drosophila</i> infected with a virulent form of <i>Wolbachia</i> . <i>Frontiers in Pharmacology</i> , 2014, 5, 66.	1.6	22
133	Targeting HIF2 α Translation with Tempol in VHL-Deficient Clear Cell Renal Cell Carcinoma. <i>Oncotarget</i> , 2012, 3, 1472-1482.	0.8	20
134	Reply to "Iron homeostasis in the brain: complete iron regulatory protein 2 deficiency without symptomatic neurodegeneration in the mouse". <i>Nature Genetics</i> , 2006, 38, 969-970.	9.4	18
135	Insertion mutants in <i>Drosophila melanogaster</i> Hsc20 halt larval growth and lead to reduced iron-sulfur cluster enzyme activities and impaired iron homeostasis. <i>Journal of Biological Inorganic Chemistry</i> , 2013, 18, 441-449.	1.1	18
136	Infused wild-type macrophages reside and self-renew in the liver to rescue the hemolysis and anemia of Hmox1-deficient mice. <i>Blood Advances</i> , 2018, 2, 2732-2743.	2.5	18
137	Assembly of the [4Fe-4S] cluster of NFU1 requires the coordinated donation of two [2Fe-2S] clusters from the scaffold proteins, ISCU2 and ISCA1. <i>Human Molecular Genetics</i> , 2020, 29, 3165-3182.	1.4	18
138	A high-capacity RNA affinity column for the purification of human IRP1 and IRP2 overexpressed in <i>Pichia pastoris</i> . <i>Rna</i> , 2003, 9, 364-374.	1.6	17
139	Orchestrated regulation of iron trafficking proteins in the kidney during iron overload facilitates systemic iron retention. <i>PLoS ONE</i> , 2018, 13, e0204471.	1.1	16
140	How does hepcidin hinder ferroportin activity?. <i>Blood</i> , 2018, 131, 840-842.	0.6	14
141	The Promoter Region of the Human Transferrin Receptor Gene. <i>Annals of the New York Academy of Sciences</i> , 1988, 526, 54-64.	1.8	12
142	Biochemical and Biophysical Methods for Studying Mitochondrial Iron Metabolism. <i>Methods in Enzymology</i> , 2014, 547, 275-307.	0.4	12
143	Iron Homeostasis in the CNS: An Overview of the Pathological Consequences of Iron Metabolism Disruption. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4490.	1.8	10
144	Linking physiological functions of iron. <i>Nature Chemical Biology</i> , 2005, 1, 193-194.	3.9	9

#	ARTICLE	IF	CITATIONS
145	Tangled Up In Red: Intertwining of the Heme and Iron-Sulfur Cluster Biogenesis Pathways. <i>Cell Metabolism</i> , 2009, 10, 80-81.	7.2	9
146	Essential role of systemic iron mobilization and redistribution for adaptive thermogenesis through HIF2-1 α /hepcidin axis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2109186118.	3.3	9
147	Methods for Studying Iron Regulatory Protein 1: An Important Protein in Human Iron Metabolism. <i>Methods in Enzymology</i> , 2018, 599, 139-155.	0.4	8
148	If the RNA Fits, Use It. <i>Science</i> , 2006, 314, 1886-1887.	6.0	6
149	Serum ferritin concentrations in Africans with low dietary iron. <i>Annals of Hematology</i> , 2009, 88, 1131-1136.	0.8	6
150	Use of antisense oligonucleotides to correct the splicing error in ISCU myopathy patient cell lines. <i>Human Molecular Genetics</i> , 2016, 25, ddw338.	1.4	6
151	Mammalian iron sulfur cluster biogenesis: From assembly to delivery to recipient proteins with a focus on novel targets of the chaperone and co-chaperone proteins. <i>IUBMB Life</i> , 2022, 74, 684-704.	1.5	6
152	Mammalian iron sulfur cluster biogenesis and human diseases. <i>IUBMB Life</i> , 2022, 74, 705-714.	1.5	6
153	Disruption of cellular iron homeostasis by IREB2 missense variants causes severe neurodevelopmental delay, dystonia and seizures. <i>Brain Communications</i> , 2022, 4, .	1.5	5
154	Reply: IREB2-associated neurodegeneration. <i>Brain</i> , 2019, 142, e41-e41.	3.7	3
155	Dispensable iron-sulfur clusters: the interconversion of aconitase with the RNA-binding protein, IRE-BP. <i>Chemistry and Biology</i> , 1994, 1, xiv-xv.	6.2	2
156	Heme, whence come thy carbon building blocks?. <i>Blood</i> , 2018, 132, 981-982.	0.6	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. <i>Hepatology</i> , 1998, 28, 890-891.	3.6	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.. <i>Blood</i> , 2009, 114, 627-627.	0.6	1
162	Regulation of Iron Metabolism in Mammalian Cells. , 2012, , 51-62.		1

#	ARTICLE	IF	CITATIONS
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