

Iqbal Hamza

List of Publications by Year in descending order

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56
papers

3,790
citations

136950

32
h-index

149698

56
g-index

67
all docs

67
docs citations

67
times ranked

4233
citing authors

#	ARTICLE	IF	CITATIONS
1	Macrophages and Iron Metabolism. Immunity, 2016, 44, 492-504.	14.3	301
2	Haem homeostasis is regulated by the conserved and concerted functions of HRC-1 proteins. Nature, 2008, 453, 1127-1131.	27.8	275
3	Lack of heme synthesis in a free-living eukaryote. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4270-4275.	7.1	211
4	One ring to rule them all: Trafficking of heme and heme synthesis intermediates in the metazoans. Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 1617-1632.	4.1	190
5	HRC1 Is Essential for Heme Transport from the Phagolysosome of Macrophages during Erythrophagocytosis. Cell Metabolism, 2013, 17, 261-270.	16.2	183
6	Trafficking of Heme and Porphyrins in Metazoa. Chemical Reviews, 2009, 109, 4596-4616.	47.7	170
7	Essential role for Atox1 in the copper-mediated intracellular trafficking of the Menkes ATPase. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1215-1220.	7.1	160
8	Heme dynamics and trafficking factors revealed by genetically encoded fluorescent heme sensors. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7539-7544.	7.1	154
9	The Bacterial Irr Protein Is Required for Coordination of Heme Biosynthesis with Iron Availability. Journal of Biological Chemistry, 1998, 273, 21669-21674.	3.4	142
10	Macrophages and iron trafficking at the birth and death of red cells. Blood, 2015, 125, 2893-2897.	1.4	142
11	Iron and Porphyrin Trafficking in Heme Biogenesis. Journal of Biological Chemistry, 2010, 285, 26753-26759.	3.4	116
12	Regulation of intracellular heme trafficking revealed by subcellular reporters. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5144-52.	7.1	98
13	The Heme Biosynthetic Pathway of the Obligate Wolbachia Endosymbiont of Brugia malayi as a Potential Anti-filarial Drug Target. PLoS Neglected Tropical Diseases, 2009, 3, e475.	3.0	95
14	Heme Mobilization in Animals: A Metallolipidâ€™s Journey. Accounts of Chemical Research, 2016, 49, 1104-1110.	15.6	92
15	Heme Uptake by Leishmania amazonensis Is Mediated by the Transmembrane Protein LHR1. PLoS Pathogens, 2012, 8, e1002795.	4.7	88
16	Fur-independent regulation of iron metabolism by Irr in Bradyrhizobium japonicum. Microbiology (United Kingdom), 2000, 146, 669-676.	1.8	70
17	The Nematode C. elegans as an Animal Model to Explore Toxicology In Vivo: Solid and Axenic Growth Culture Conditions and Compound Exposure Parameters. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2007, 31, Unit1.9.	1.1	69
18	Intracellular Trafficking of Porphyrins. ACS Chemical Biology, 2006, 1, 627-629.	3.4	68

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19	Copper chaperones for cytochrome c oxidase and human disease. <i>Journal of Bioenergetics and Biomembranes</i> , 2002, 34, 381-388.	2.3	61
20	Control of Metazoan Heme Homeostasis by a Conserved Multidrug Resistance Protein. <i>Cell Metabolism</i> , 2014, 19, 1008-1019.	16.2	61
21	Like iron in the blood of the people: the requirement for heme trafficking in iron metabolism. <i>Frontiers in Pharmacology</i> , 2014, 5, 126.	3.5	58
22	Topologically Conserved Residues Direct Heme Transport in HRG-1-related Proteins. <i>Journal of Biological Chemistry</i> , 2012, 287, 4914-4924.	3.4	55
23	Characterization of plasma labile heme in hemolytic conditions. <i>FEBS Journal</i> , 2017, 284, 3278-3301.	4.7	55
24	Molecular Mechanisms of Iron and Heme Metabolism. <i>Annual Review of Nutrition</i> , 2022, 42, 311-335.	10.1	54
25	An Intercellular Heme-Trafficking Protein Delivers Maternal Heme to the Embryo during Development in <i>C.Âelegans</i> . <i>Cell</i> , 2011, 145, 720-731.	28.9	50
26	Identification of a Functional <i><i>fur</i></i> Gene in <i><i>Bradyrhizobium japonicum</i></i> . <i>Journal of Bacteriology</i> , 1999, 181, 5843-5846.	2.2	48
27	Heme transport and erythropoiesis. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 204-211.	6.1	46
28	One ring to bring them all and in the darkness bind them: The trafficking of heme without deliverers. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2021, 1868, 118881.	4.1	46
29	Iron Regulation through the Back Door: Iron-Dependent Metabolite Levels Contribute to Transcriptional Adaptation to Iron Deprivation in <i>Saccharomyces cerevisiae</i> . <i>Eukaryotic Cell</i> , 2010, 9, 460-471.	3.4	42
30	Hemozoin produced by mammals confers heme tolerance. <i>ELife</i> , 2019, 8, .	6.0	38
31	Heme Utilization in the <i>Caenorhabditis elegans</i> Hypodermal Cells Is Facilitated by Heme-responsive Gene-2. <i>Journal of Biological Chemistry</i> , 2012, 287, 9601-9612.	3.4	37
32	Lessons from bloodless worms: heme homeostasis in <i>C. elegans</i> . <i>BioMetals</i> , 2015, 28, 481-489.	4.1	36
33	Dietary Iron Content Mediates Hookworm Pathogenesis In Vivo. <i>Infection and Immunity</i> , 2006, 74, 289-295.	2.2	34
34	Dietary hemoglobin rescues young piglets from severe iron deficiency anemia: Duodenal expression profile of genes involved in heme iron absorption. <i>PLoS ONE</i> , 2017, 12, e0181117.	2.5	34
35	<i>ToxoplasmaÂgondii</i> requires its plant-like heme biosynthesis pathway for infection. <i>PLoS Pathogens</i> , 2020, 16, e1008499.	4.7	33
36	Genome-Wide Analysis Reveals Novel Genes Essential for Heme Homeostasis in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2010, 6, e1001044.	3.5	32

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37	Label-Free Imaging of Heme Dynamics in Living Organisms by Transient Absorption Microscopy. <i>Analytical Chemistry</i> , 2018, 90, 3395-3401.	6.5	31
38	Structural insights into heme binding to IL-36± proinflammatory cytokine. <i>Scientific Reports</i> , 2019, 9, 16893.	3.3	29
39	The Heme Transport Capacity of LHR1 Determines the Extent of Virulence in <i>Leishmania amazonensis</i> . <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003804.	3.0	27
40	Iron and Heme Metabolism at the <i>Leishmania</i> –Host Interface. <i>Trends in Parasitology</i> , 2020, 36, 279-289.	3.3	27
41	A Novel Heme-responsive Element Mediates Transcriptional Regulation in <i>Caenorhabditis elegans</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 39536-39543.	3.4	22
42	Inter-organ signalling by HRG-7 promotes systemic haem homeostasis. <i>Nature Cell Biology</i> , 2017, 19, 799-807.	10.3	21
43	Hrg1 promotes heme-iron recycling during hemolysis in the zebrafish kidney. <i>PLoS Genetics</i> , 2018, 14, e1007665.	3.5	21
44	Mitochondrial heme: an exit strategy at last. <i>Journal of Clinical Investigation</i> , 2012, 122, 4328-4330.	8.2	21
45	Heme acquisition in the parasitic filarial nematode <i>Brugia malayi</i> . <i>FASEB Journal</i> , 2016, 30, 3501-3514.	0.5	20
46	A MFS-like plasma membrane transporter required for <i>Leishmania</i> virulence protects the parasites from iron toxicity. <i>PLoS Pathogens</i> , 2018, 14, e1007140.	4.7	20
47	Culturing <i>Caenorhabditis elegans</i> in Axenic Liquid Media and Creation of Transgenic Worms by Microparticle Bombardment. <i>Journal of Visualized Experiments</i> , 2014, , e51796.	0.3	18
48	Zebrafish as a model system to delineate the role of heme and iron metabolism during erythropoiesis. <i>Molecular Genetics and Metabolism</i> , 2019, 128, 204-212.	1.1	18
49	Structure, Expression, and Chromosomal Localization of the Mouse Atox1 Gene. <i>Genomics</i> , 2000, 63, 294-297.	2.9	16
50	Heme oxygenase-2 (HO-2) binds and buffers labile ferric heme in human embryonic kidney cells. <i>Journal of Biological Chemistry</i> , 2022, 298, 101549.	3.4	10
51	MRP5 and MRP9 play a concerted role in male reproduction and mitochondrial function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	9
52	Histidine residues are important for preserving the structure and heme binding to the <i>C. elegans</i> HRG-3 heme-trafficking protein. <i>Journal of Biological Inorganic Chemistry</i> , 2015, 20, 1253-1261.	2.6	8
53	Normal Iron Homeostasis Requires the Transporter SLC48A1 for Efficient Heme-Iron Recycling in Mammals. <i>Frontiers in Genome Editing</i> , 2020, 2, 8.	5.2	3
54	Cys Links Heme: Stereo-orientation of Heme Transfer in Cytochrome c Biogenesis. <i>Journal of Molecular Biology</i> , 2018, 430, 1081-1083.	4.2	1

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55	Porphyrin and Heme Trafficking in Metazoans. Handbook of Porphyrin Science, 2013, , 223-265.	0.8	0
56	Hematology from the Ground Up: Lessons from C. elegans. Blood, 2013, 122, SCI-16-SCI-16.	1.4	0