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#	Paper IF	Citations
272	New Perspectives on Iron: An Introduction. <i>American Journal of the Medical Sciences</i> , <b>1999</b> , 318, 207-212 <sub>2.2</sub>	32
271	HeLp, a heme lipoprotein from the hemolymph of the cattle tick, Boophilus microplus. <b>2000</b> , 275, 36584-9	75
270	Nonredundant roles of the mPer1 and mPer2 genes in the mammalian circadian clock. <b>2001</b> , 105, 683-94	700
269	Carbon monoxide is the heme oxygenase product with a pyretic action: evidence for a cGMP signaling pathway. <b>2001</b> , 280, R448-57	35
268	Haem regulation of the mitochondrial import of the Kluyveromyces lactis 5-aminolaevulinate synthase: an organelle approach. <b>2001</b> , 18, 41-8	12
267	Role of the haeme oxygenase/carbon monoxide pathway in mechanical nociceptor hypersensitivity. <b>2001</b> , 132, 1673-82	47
266	The heme-regulated eukaryotic initiation factor 2alpha kinase. A potential regulatory target for control of protein synthesis by diffusible gases. <b>2001</b> , 276, 14875-83	41
265	Pro-oxidant and cytotoxic effects of circulating heme. <b>2002</b> , 100, 879-87	475
264	Erythroid differentiation and protoporphyrin IX down-regulate frataxin expression in Friend cells: characterization of frataxin expression compared to molecules involved in iron metabolism and hemoglobinization. <b>2002</b> , 99, 3813-22	61
263	Hemin induces neuroglobin expression in neural cells. <b>2002</b> , 100, 2494-8	82
262	Vampires, Pasteur and reactive oxygen species. Is the switch from aerobic to anaerobic metabolism a preventive antioxidant defence in blood-feeding parasites?. <b>2002</b> , 525, 3-6	32
261	Differentiation of functional dendritic cells and macrophages from human peripheral blood monocyte precursors is dependent on expression of p21 (WAF1/CIP1) and requires iron. <b>2002</b> , 117, 727-34	42
260	Mitochondrial transduction of ocular teratogenesis during methylmercury exposure. <b>2002</b> , 65, 131-44	21
259	Heme oxygenase-1 mediates the anti-inflammatory effect of interleukin-10 in mice. <b>2002</b> , 8, 240-6	877
258	Iron and 8-isoprostane levels in acute and chronic wounds. <b>2003</b> , 121, 918-25	76
257	Haem can bind to and inhibit mammalian calcium-dependent Slo1 BK channels. 2003, 425, 531-5	230
256	Heme and iron metabolism: role in cerebral hemorrhage. <b>2003</b> , 23, 629-52	363

### (2005-2003)

255	Antibiotic cyclic AMP signaling by "primed" leukocytes confers anti-inflammatory cytoprotection. <b>2003</b> , 74, 908-15	15
254	The nature of heme/iron-induced protein tyrosine nitration. 2003, 100, 5712-7	162
253	A novel approach for identifying the heme-binding proteins from mouse tissues. <b>2003</b> , 1, 78-86	8
252	Systemic regulation of Hephaestin and Ireg1 revealed in studies of genetic and nutritional iron deficiency. <b>2003</b> , 102, 1893-9	98
251	The stem cell marker Bcrp/ABCG2 enhances hypoxic cell survival through interactions with heme. <b>2004</b> , 279, 24218-25	501
250	Hepatic nuclear factor 3 and nuclear factor 1 regulate 5-aminolevulinate synthase gene expression and are involved in insulin repression. <b>2004</b> , 279, 28082-92	23
249	The source of heme for vascular heme oxygenase I: heme uptake in rat aorta. <b>2004</b> , 82, 209-17	7
248	A role for heme in Alzheimer's disease: heme binds amyloid beta and has altered metabolism. <b>2004</b> , 101, 11153-8	198
247	Heme deficiency causes apoptosis but does not increase ROS generation in HeLa cells. 2004, 319, 1065-71	27
246	Handling heme. <b>2005</b> , 106, 2225-2226	1
245	Iron regulatory protein 1 as a sensor of reactive oxygen species. <b>2005</b> , 24, 171-81	34
244	Early neoplastic and metastatic mammary tumours of transgenic mice detected by 5-aminolevulinic acid-stimulated protoporphyrin IX accumulation. <b>2005</b> , 93, 1137-43	14
243	Heme regulation in traumatic brain injury: relevance to the adult and developing brain. 2005, 25, 1401-17	50
242	Heme, heme oxygenase and ferritin in vascular endothelial cell injury. <b>2005</b> , 49, 1030-43	97
241	CTCF regulates growth and erythroid differentiation of human myeloid leukemia cells. 2005, 280, 28152-61	49
240	Multiple facets of maxi-k+ channels: the heme connection. <b>2005</b> , 126, 1-5	8
239	Tracing heme in a living cell: hemoglobin degradation and heme traffic in digest cells of the cattle tick Boophilus microplus. <b>2005</b> , 208, 3093-101	101
238	Heme regulates allosteric activation of the Slo1 BK channel. <b>2005</b> , 126, 7-21	80

237	30 some years of heme oxygenase: from a "molecular wrecking ball" to a "mesmerizing" trigger of cellular events. <b>2005</b> , 338, 568-77	176
236	An alternatively-spliced exon in the 5'-UTR of human ALAS1 mRNA inhibits translation and renders it resistant to haem-mediated decay. <b>2005</b> , 579, 1061-6	11
235	Structural and morphological characterization of hemozoin produced by Schistosoma mansoni and Rhodnius prolixus. <b>2005</b> , 579, 6010-6	96
234	The structure and function of frataxin. <b>2006</b> , 41, 269-91	119
233	Reversible binding of heme to proteins in cellular signal transduction. <b>2006</b> , 39, 918-24	71
232	Intracellular trafficking of porphyrins. <b>2006</b> , 1, 627-9	58
231	Identification of a mammalian mitochondrial porphyrin transporter. <b>2006</b> , 443, 586-9	274
230	Heme: a versatile signaling molecule controlling the activities of diverse regulators ranging from transcription factors to MAP kinases. <b>2006</b> , 16, 681-92	198
229	Mitochondria in hematopoiesis and hematological diseases. <b>2006</b> , 25, 4757-67	68
228	Heme oxygenase (HO)-1 is upregulated in the nasal mucosa with allergic rhinitis. 2006, 116, 446-50	16
227	Large-scale production of embryonic red blood cells from human embryonic stem cells. <b>2006</b> , 34, 1635-42	134
226	Central heme oxygenase-carbon monoxide pathway participates in the lipopolysaccharide-induced tolerance in rats. <b>2006</b> , 1111, 83-9	8
225	Heme as key regulator of major mammalian cellular functions: molecular, cellular, and pharmacological aspects. <b>2006</b> , 111, 327-45	188
224	Heme oxygenase and cyclooxygenase in the central nervous system: a functional interplay. <b>2006</b> , 84, 1385-91	53
223	Effects of hydroxyurea and L-arginine on the production of nitric oxide metabolites in cultures of normal and sickle erythrocytes. <b>2006</b> , 11, 291-4	10
222	Products of heme oxygenase and their potential therapeutic applications. <b>2006</b> , 290, F563-71	183
221	Apoptosis in liver during malaria: role of oxidative stress and implication of mitochondrial pathway. FASEB Journal, <b>2006</b> , 20, 1224-6	136
220	A heme-degradation pathway in a blood-sucking insect. <b>2006</b> , 103, 8030-5	69

### (2008-2006)

219	<b>2006</b> , 281, 33422-32	66
218	Candidate genes, pathways and mechanisms for alcoholism: an expanded convergent functional genomics approach. <b>2007</b> , 7, 222-56	80
217	Heme regulates exocrine peptidase precursor genes in zebrafish. <i>Experimental Biology and Medicine</i> , <b>2007</b> , 232, 1170-80	15
216	Differential regulation of Foxo3a target genes in erythropoiesis. <b>2007</b> , 27, 3839-3854	70
215	Posttreatment with aspirin-triggered lipoxin A4 analog attenuates lipopolysaccharide-induced acute lung injury in mice: the role of heme oxygenase-1. <b>2007</b> , 104, 369-77	96
214	Mechanisms of mitochondrial dysfunction and energy deficiency in Alzheimer's disease. <b>2007</b> , 7, 297-310	203
213	Extracellular lipid droplets promote hemozoin crystallization in the gut of the blood fluke Schistosoma mansoni. <b>2007</b> , 581, 1742-50	40
212	Cloning and expression of zebrafish genes encoding the heme synthesis enzymes uroporphyrinogen III synthase (UROS) and protoporphyrinogen oxidase (PPO). <b>2007</b> , 18, 54-60	3
211	Heme and virulence: how bacterial pathogens regulate, transport and utilize heme. 2007, 24, 511-22	114
210	Tin protoporphyrin induces intestinal chloride secretion by inducing light oxidation processes. <b>2007</b> , 292, C1906-14	5
209	Heme is involved in microRNA processing. <b>2007</b> , 14, 23-9	216
208	Identification of heme as the ligand for the orphan nuclear receptors REV-ERBalpha and REV-ERBbeta. <b>2007</b> , 14, 1207-13	438
207	A critical role for the co-repressor N-CoR in erythroid differentiation and heme synthesis. 2007, 17, 804-14	22
206	Substance P regulates macrophage inflammatory protein 3alpha/chemokine C-C ligand 20 (CCL20) with heme oxygenase-1 in human periodontal ligament cells. <b>2007</b> , 150, 567-75	25
205	Functional Porphyrinoids from a Biomimetically Decorated Bipyrrole. 2008, 2008, 5505-5512	22
204	Haem homeostasis is regulated by the conserved and concerted functions of HRG-1 proteins. <b>2008</b> , 453, 1127-31	226
203	Up-regulation of heme oxygenase-1 expression through the Rac1/NADPH oxidase/ROS/p38 signaling cascade mediates the anti-inflammatory effect of 15-deoxy-delta 12,14-prostaglandin J2 in murine macrophages. <b>2008</b> , 582, 861-8	36
202	Hemoxygenase-1 in cardiovascular disease. <b>2008</b> , 52, 971-8	109

201	Expression of heme oxygenase-1 in oral lichen planus. <b>2008</b> , 1, 144-148	1
200	The lipocalin alpha1-microglobulin protects erythroid K562 cells against oxidative damage induced by heme and reactive oxygen species. <b>2008</b> , 42, 725-36	60
199	Ex vivo carbon monoxide prevents cytochrome P450 degradation and ischemia/reperfusion injury of kidney grafts. <b>2008</b> , 74, 1009-16	61
198	A novel heme-regulatory motif mediates heme-dependent degradation of the circadian factor period 2. <b>2008</b> , 28, 4697-711	79
197	Haem oxygenase-1 gene transfer protects retinal ganglion cells from ischaemia/reperfusion injury. <b>2008</b> , 115, 335-42	14
196	Antinociception synergy between the peripheral and spinal sites of the heme oxygenase-carbon monoxide pathway. <b>2009</b> , 42, 141-7	14
195	An oxygen-sensitive mechanism in regulation of epithelial sodium channel. <b>2009</b> , 106, 2957-62	49
194	Interference with hemozoin formation represents an important mechanism of schistosomicidal action of antimalarial quinoline methanols. <i>PLoS Neglected Tropical Diseases</i> , <b>2009</b> , 3, e477	64
193	Intrahippocampal injection of a lentiviral vector expressing Nrf2 improves spatial learning in a mouse model of Alzheimer's disease. <b>2009</b> , 106, 16505-10	228
192	Hepcidin suppression and defective iron recycling account for dysregulation of iron homeostasis in heme oxygenase-1 deficiency. <b>2009</b> , 13, 3091-102	30
191	Hemin promotes proliferation and differentiation of endothelial progenitor cells via activation of AKT and ERK. <b>2009</b> , 219, 617-25	32
190	Cofactor-mediated protein promiscuity. <b>2009</b> , 27, 892	11
189	Sarcopenia of aging: underlying cellular mechanisms and protection by calorie restriction. 2009, 35, 28-35	134
188	Trafficking of heme and porphyrins in metazoa. <b>2009</b> , 109, 4596-616	138
187	General peroxidase activity of G-quadruplex-hemin complexes and its application in ligand screening. <b>2009</b> , 48, 7817-23	199
186	A general map of iron metabolism and tissue-specific subnetworks. <b>2009</b> , 5, 422-43	60
185	Peroxidasin is secreted and incorporated into the extracellular matrix of myofibroblasts and fibrotic kidney. <b>2009</b> , 175, 725-35	71
184	Ferritin does not donate its iron for haem synthesis in macrophages. <b>2010</b> , 429, 463-71	11

# (2010-2010)

183	Spectroscopic insights into axial ligation and active-site H-bonding in substrate-bound human heme oxygenase-2. <b>2010</b> , 15, 1117-27	12
182	Attenuation of NF-kappaB and activation of Nrf2 signaling by 1,2,4-triazine derivatives, protects neuron-like PC12 cells against apoptosis. <b>2010</b> , 15, 738-51	53
181	Characterization and identification of distinct Mycobacterium massiliense extracellular proteins from those of Mycobacterium abscessus. <b>2010</b> , 48, 502-11	3
180	Chitosan prevents oxidative stress-induced amyloid beta formation and cytotoxicity in NT2 neurons: involvement of transcription factors Nrf2 and NF-kappaB. <b>2010</b> , 337, 39-51	76
179	Vacuolar (H+)-ATPases in Caenorhabditis elegans: what can we learn about giant H+ pumps from tiny worms?. <b>2010</b> , 1797, 1687-95	32
178	Signaling to heme oxygenase-1 and its anti-inflammatory therapeutic potential. <b>2010</b> , 80, 1895-903	591
177	Quercetin-3-O-beta-d-glucuronopyranoside (QGC)-induced HO-1 expression through ERK and PI3K activation in cultured feline esophageal epithelial cells. <b>2010</b> , 81, 85-92	25
176	Up-regulation of heme oxygenase-1 expression through CaMKII-ERK1/2-Nrf2 signaling mediates the anti-inflammatory effect of bisdemethoxycurcumin in LPS-stimulated macrophages. <b>2010</b> , 49, 323-31	75
175	Indispensable function for embryogenesis, expression and regulation of the nonspecific form of the 5-aminolevulinate synthase gene in mouse. <b>2010</b> , 15, 77-89	21
174	Metabolism of haem in Caco-2 cells. <b>2010</b> , 95, 296-303	3
173	Effects of proactive iron and erythropoiesis-stimulating agent protocol implementation on achieving clinical guideline targets for anaemia in a satellite haemodialysis patient cohort. <b>2010</b> , 15, 288-93	10
172	Increase on the initial soluble heme levels in acidic conditions is an important mechanism for spontaneous heme crystallization in vitro. <i>PLoS ONE</i> , <b>2010</b> , 5, e12694	16
171	The Fowler syndrome-associated protein FLVCR2 is an importer of heme. <b>2010</b> , 30, 5318-24	72
170	Overcoming the heme paradox: heme toxicity and tolerance in bacterial pathogens. <b>2010</b> , 78, 4977-89	193
169	Antagonistic roles of the ERK and p38 MAPK signalling pathways in globin expression, haem biosynthesis and iron uptake. <b>2010</b> , 432, 145-51	9
168	Discovery and Characterization of HemQ: an essential heme biosynthetic pathway component. <b>2010</b> , 285, 25978-86	52
167	Regulation of beta-lactamase activity by remote binding of heme: functional coupling of unrelated proteins through domain insertion. <b>2010</b> , 49, 6541-9	20
166	Adiponectin-mediated heme oxygenase-1 induction protects against iron-induced liver injury via a PPARHependent mechanism. <b>2010</b> , 177, 1697-709	58

165	Unusual heme binding in the bacterial iron response regulator protein: spectral characterization of heme binding to the heme regulatory motif. <b>2011</b> , 50, 1016-22	31
164	The Role of Heme and Reactive Oxygen Species in Proliferation and Survival of Trypanosoma cruzi. <b>2011</b> , 2011, 174614	23
163	Heme-oxygenases during erythropoiesis in K562 and human bone marrow cells. <i>PLoS ONE</i> , <b>2011</b> , 6, e2135,8	19
162	NSAIDs inhibit neovascularization of choroid through HO-1-dependent pathway. <b>2011</b> , 91, 1277-90	29
161	Leukotriene B4 mediates neutrophil migration induced by heme. <b>2011</b> , 186, 6562-7	47
160	Role of heme and heme-proteins in trypanosomatid essential metabolic pathways. <b>2011</b> , 2011, 873230	43
159	Congenital sideroblastic anemias: iron and heme lost in mitochondrial translation. <b>2011</b> , 2011, 525-31	69
158	Increased levels of plasma haemoxygenase-1 in prostate cancer. <b>2011</b> , 14, 114-7	6
157	Differential function of lip residues in the mechanism and biology of an anthrax hemophore. <b>2012</b> , 8, e1002559	35
156	Hal Is a Bacillus anthracis heme acquisition protein. <b>2012</b> , 194, 5513-21	32
155	Polycyclic aromatic hydrocarbons (PAHs) mediate transcriptional activation of the ATP binding cassette transporter ABCB6 gene via the aryl hydrocarbon receptor (AhR). <b>2012</b> , 287, 32054-68	17
154	Crystallographic studies of heme oxygenase complexed with an unstable reaction intermediate, verdoheme. <b>2012</b> , 113, 102-9	17
153	Structural basis for efficient chromophore communication and energy transfer in a constructed didomain protein scaffold. <b>2012</b> , 134, 13632-40	29
152	Heme binds to factor VIII and inhibits its interaction with activated factor IX. 2012, 10, 1062-71	15
151	Multiplexed optical detection of plasma porphyrins using DNA aptamer-functionalized carbon nanotubes. <b>2013</b> , 85, 8391-6	16
150	Silencing of maternal heme-binding protein causes embryonic mitochondrial dysfunction and impairs embryogenesis in the blood sucking insect Rhodnius prolixus. <b>2013</b> , 288, 29323-32	26
149	Ferroportin expression in haem oxygenase 1-deficient mice. <b>2013</b> , 449, 69-78	31
148	Orally supplemented catechin increases heme amounts and catalase activities in rat heart blood mitochondria: a comparison between middle-aged and young rats. <b>2013</b> , 48, 1319-22	6

147	Nitrogen monoxide inhibits haem synthesis in mouse reticulocytes. <b>2013</b> , 451, 61-7		5
146	Protective effect of heme oxygenase-1 on hepatic ischemia-reperfusion injury through inhibition of platelet adhesion to the sinusoids. <b>2013</b> , 28, 700-6		16
145	Mitochondrial localization of ferrochelatase in a red alga Cyanidioschyzon merolae. <b>2013</b> , 54, 1289-95		18
144	A nonclinical safety assessment of MnTE-2-PyP, a manganese porphyrin. <b>2013</b> , 32, 274-87		29
143	Unsaturated glycerophospholipids mediate heme crystallization: biological implications for hemozoin formation in the kissing bug Rhodnius prolixus. <i>PLoS ONE</i> , <b>2014</b> , 9, e88976	3.7	5
142	Similar physiological effects in Porphyromonas gingivalis ATCC 33277 under hemin-excess and hemin-limited concentrations are putatively associated to different hydrogen peroxide function. <b>2014</b> , 28, 178-81		7
141	An insight into the transcriptome of the digestive tract of the bloodsucking bug, Rhodnius prolixus. <i>PLoS Neglected Tropical Diseases</i> , <b>2014</b> , 8, e2594	4.8	133
140	Plasmodium falciparum merozoite surface protein 3: oligomerization, self-assembly, and heme complex formation. <b>2014</b> , 289, 3856-68		22
139	Drugs and acute porphyrias: reasons for a hazardous relationship. <b>2014</b> , 126, 108-20		8
138	Heme exporter FLVCR1a regulates heme synthesis and degradation and controls activity of cytochromes P450. <b>2014</b> , 146, 1325-38		45
137	Iron-rich ferritin in the hypoxia-tolerant rodent Spalax ehrenbergi: a naturally-occurring biomarker confirms the internalization and pathways of intracellular macromolecules. <b>2014</b> , 187, 254-265		3
136	Heme oxygenase-1 and anti-inflammatory M2 macrophages. <b>2014</b> , 564, 83-8		214
135	Carbon monoxidephysiology, detection and controlled release. <b>2014</b> , 50, 3644-60		276
134	Salvianolic acid A protects RPE cells against oxidative stress through activation of Nrf2/HO-1 signaling. <b>2014</b> , 69, 219-28		189
133	Preventive effect of agaro-oligosaccharides on non-steroidal anti-inflammatory drug-induced small intestinal injury in mice. <b>2014</b> , 29, 310-7		18
132	Molecular Mechanism for Heme-Mediated Inhibition of 5-Aminolevulinic Acid Synthase 1. <b>2014</b> , 87, 997-1	1004	5
131	ABCG2 transporter inhibitor restores the sensitivity of triple negative breast cancer cells to aminolevulinic acid-mediated photodynamic therapy. <i>Scientific Reports</i> , <b>2015</b> , 5, 13298	4.9	53
130	Effect of chloride driven copper redox cycling on the kinetics of Fe(II) oxidation in aqueous solutions at pH 6.5 <b>B</b> .0. <b>2015</b> , 161, 118-127		10

129	Middle-aged rats orally supplemented with gel-encapsulated catechin favorably increases blood cytosolic NADPH levels. <b>2015</b> , 22, 425-30	5
128	Heme-induced contractile dysfunction in human cardiomyocytes caused by oxidant damage to thick filament proteins. <b>2015</b> , 89, 248-62	12
127	Protective Effect of a cAMP Analogue on Behavioral Deficits and Neuropathological Changes in Cuprizone Model of Demyelination. <b>2015</b> , 52, 130-41	20
126	Chemical-induced coordinated and reciprocal changes in heme metabolism, cytochrome P450 synthesis and others in the liver of humans and rodents. <b>2016</b> , 41, SP89-SP103	1
125	Iron Homeostasis in Health and Disease. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17, 6.3	185
124	Light-induced depigmentation in planarians models the pathophysiology of acute porphyrias. <b>2016</b> , 5,	19
123	An Examination of Dynamic Gene Expression Changes in the Mouse Brain During Pregnancy and the Postpartum Period. <b>2015</b> , 6, 221-33	27
122	Porphyrins produce uniquely ephemeral animal colouration: a possible signal of virginity. <i>Scientific Reports</i> , <b>2016</b> , 6, 39210	16
121	Distinct Prominent Roles for Enzymes of Plasmodium berghei Heme Biosynthesis in Sporozoite and Liver Stage Maturation. <b>2016</b> , 84, 3252-3262	16
120	Frataxin and the molecular mechanism of mitochondrial iron-loading in Friedreich's ataxia. <b>2016</b> , 130, 853-70	35
119	Mechanism-Guided Design and Synthesis of a Mitochondria-Targeting Artemisinin Analogue with Enhanced Anticancer Activity. <b>2016</b> , 55, 13770-13774	72
118	Mechanism-Guided Design and Synthesis of a Mitochondria-Targeting Artemisinin Analogue with Enhanced Anticancer Activity. <b>2016</b> , 128, 13974-13978	10
117	Interactions between heme and tau-derived R1 peptides: binding and oxidative reactivity. <b>2016</b> , 45, 14343-51	7
116	EETs and HO-1 cross-talk. <b>2016</b> , 125, 65-79	20
115	Catalytic iron and acute kidney injury. <b>2016</b> , 311, F871-F876	25
114	Nutrigenomic effects of glucosinolates on liver, muscle and distal kidney in parasite-free and salmon louse infected Atlantic salmon. <i>Parasites and Vectors</i> , <b>2016</b> , 9, 639	13
113	[Porphyrias and haem related disorders]. <b>2016</b> , 37, 173-85	1
112	Mechanism of Developmental Effects in Rats Caused by an N-Phenylimide Herbicide: Transient Fetal Anemia and Sequelae during Mid-to-Late Gestation. <b>2016</b> , 107, 45-59	6

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110	Re-discovering periodontal butyric acid: New insights on an old metabolite. <b>2016</b> , 94, 48-53	10
109	Antischistosomal Activity of Pyrido[1,2-a]benzimidazole Derivatives and Correlation with Inhibition of EHematin Formation. <b>2017</b> , 3, 411-420	14
108	Correlation between genetic polymorphisms within the MAPK1/HIF-1/HO-1 signaling pathway and risk or prognosis of perimenopausal coronary artery disease. <b>2017</b> , 40, 597-604	10
107	The 18 kDa Translocator Protein (TSPO): Cholesterol Trafficking and the Biology of a Prognostic and Therapeutic Mitochondrial Target. <b>2017</b> , 285-315	2
106	How to Increase Brightness of Near-Infrared Fluorescent Proteins in Mammalian Cells. <b>2017</b> , 24, 758-766.e3	37
105	Hydrogen peroxide resistance in Strigomonas culicis: Effects on mitochondrial functionality and Aedes aegypti interaction. <b>2017</b> , 113, 255-266	9
104	Statistical studies of adsorption isotherms of iron nitrate and iron chloride on a thin layer of porphyrin. <b>2017</b> , 248, 235-245	33
103	Efficient synthesis of phycocyanobilin in mammalian cells for optogenetic control of cell signaling. <b>2017</b> , 114, 11962-11967	56
102	Coordination-Accelerated "Iron Extraction" Enables Fast Biodegradation of Mesoporous Silica-Based Hollow Nanoparticles. <b>2017</b> , 6, 1700720	15
101	Visualization of Fe-Labeled Heme Isotopic Fine Structure and Localization of Regions of Erythroblast Maturation in Mouse Spleen by MALDI FTICR-MS Imaging. <b>2017</b> , 28, 2469-2475	5
100	Over expression of 5-aminolevulinic acid synthase 2 increased protoporphyrin IX in nonerythroid cells. <i>Photodiagnosis and Photodynamic Therapy</i> , <b>2017</b> , 17, 22-28	3
99	Design of Novel Classes of Building Blocks for Nanotechnology: Core-Modified Metalloporphyrins and Their Derivatives. <b>2017</b> ,	1
98	Heme as a Target for Therapeutic Interventions. <b>2017</b> , 8, 146	65
97	Bacterial Phytochromes, Cyanobacteriochromes and Allophycocyanins as a Source of Near-Infrared Fluorescent Probes. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	29
96	PhiReX: a programmable and red light-regulated protein expression switch for yeast. <b>2017</b> , 45, 9193-9205	19
95	Inflammation in sickle cell disease. <b>2018</b> , 68, 263-299	76
94	The macrophage heme-heme oxygenase-1 system and its role in inflammation. <b>2018</b> , 153, 159-167	112

93	Hepatic transcriptional profiling response to fava bean-induced oxidative stress in glucose-6-phosphate dehydrogenase-deficient mice. <b>2018</b> , 652, 66-77	2
92	Label-Free Imaging of Heme Dynamics in Living Organisms by Transient Absorption Microscopy. <b>2018</b> , 90, 3395-3401	21
91	Feather content of porphyrins in Eurasian eagle owl (Bubo bubo) fledglings depends on body condition and breeding site quality. <b>2018</b> , 13, 569-578	5
90	Role of thyroid transcription factor-1 in transcriptional regulation of heme oxygenase-1. <b>2018</b> , 496, 147-152	2
89	Iron deficiency beyond erythropoiesis: should we be concerned?. <b>2018</b> , 34, 81-93	50
88	Porphyrias and photosensitivity: pathophysiology for the clinician. <b>2018</b> , 130, 673-686	4
87	Heme promotes transcriptional and demethylase activities of Gis1, a member of the histone demethylase JMJD2/KDM4 family. <b>2018</b> , 46, 215-228	10
86	Development and characterization of maltodextrin microparticles to encapsulate heme and non-heme iron. <b>2018</b> , 96, 568-575	16
85	Fluorescent contrast agents for tumor surgery. <b>2018</b> , 16, 1577-1585	9
84	Silencing of Iron and Heme-Related Genes Revealed a Paramount Role of Iron in the Physiology of the Hematophagous Vector. <b>2018</b> , 9, 19	15
83	Applications of Metals for Bone Regeneration. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19, 6.3	85
82	Glyceraldehyde-3-phosphate dehydrogenase is a chaperone that allocates labile heme in cells. <b>2018</b> , 293, 14557-14568	53
81	Heme oxygenase-2 suppresses acute inflammation and improves the survival of skin allografts. <b>2018</b> , 63, 191-197	3
80	Biosensor device for the photo-specific detection of immuno-captured bladder cancer cells using hexaminolevulinate: An ex-vivo study. <i>Photodiagnosis and Photodynamic Therapy</i> , <b>2019</b> , 28, 238-247	12
79	Heme Catabolic Pathway in Inflammation and Immune Disorders. <b>2019</b> , 10, 825	31
78	HO-1 and CD39: It Takes Two to Protect the Realm. <b>2019</b> , 10, 1765	10
77	Toxicity of metamizole on differentiating HL60 cells and human neutrophil granulocytes. <b>2019</b> , 426, 152254	7
76	Heme-iron acquisition in fungi. <b>2019</b> , 52, 77-83	18

75	Coffee and Endothelial Function: A Coffee Paradox?. <b>2019</b> , 11,		14
74	How iron is handled in the course of heme catabolism: Integration of heme oxygenase with intracellular iron transport mechanisms mediated by poly (rC)-binding protein-2. <b>2019</b> , 672, 108071		6
73	Heme synthesis through the life cycle of the heme auxotrophic parasite. FASEB Journal, 2019, 33, 13367	761.338	85 <sub>7</sub>
72	Local Energy Decomposition of Open-Shell Molecular Systems in the Domain-Based Local Pair Natural Orbital Coupled Cluster Framework. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 161	<del>6</del> -1632	2 <sup>46</sup>
71	A scavenger receptor B (CD36)-like protein is a potential mediator of intestinal heme absorption in the hematophagous ectoparasite Lepeophtheirus salmonis. <i>Scientific Reports</i> , <b>2019</b> , 9, 4218	4.9	10
70	Impaired heme metabolism in schizophrenia-derived cell lines and in a rat model of the disorder: Possible involvement of mitochondrial complex I. <i>European Neuropsychopharmacology</i> , <b>2019</b> , 29, 577-58	3 <sup>£.2</sup>	3
69	Targeting autophagy enhances the anticancer effect of artemisinin and its derivatives. <i>Medicinal Research Reviews</i> , <b>2019</b> , 39, 2172-2193	14.4	45
68	Investigating the Connection Between Endogenous Heme Accumulation and COX2 Activity in Cancer Cells. <i>Frontiers in Oncology</i> , <b>2019</b> , 9, 162	5.3	8
67	Ferrochelatase Deficiency Abrogated the Enhancement of Aminolevulinic Acid-mediated Protoporphyrin IX by Iron Chelator Deferoxamine. <i>Photochemistry and Photobiology</i> , <b>2019</b> , 95, 1052-105	5 <b>∂</b> .6	9
66	The importance of catalytic promiscuity for enzyme design and evolution. <i>Nature Reviews Chemistry</i> , <b>2019</b> , 3, 687-705	34.6	90
65	Shannon entropy approach reveals relevant genes in Alzheimer's disease. <i>PLoS ONE</i> , <b>2019</b> , 14, e022619	03.7	9
64	Heme metabolism as a therapeutic target against protozoan parasites. <i>Journal of Drug Targeting</i> , <b>2019</b> , 27, 767-779	5.4	4
63	Recent advances in amniote palaeocolour reconstruction and a framework for future research. Biological Reviews, <b>2019</b> , 95, 22	13.5	13
62	Optimization of optical parameters for improved photodynamic therapy of Staphylococcus aureus using endogenous coproporphyrin III. <i>Photodiagnosis and Photodynamic Therapy</i> , <b>2020</b> , 29, 101624	3.5	10
61	Gene expression profiling of Trypanosoma cruzi in the presence of heme points to glycosomal metabolic adaptation of epimastigotes inside the vector. <i>PLoS Neglected Tropical Diseases</i> , <b>2020</b> , 14, e0007945	4.8	3
60	MFSD7C switches mitochondrial ATP synthesis to thermogenesis in response to heme. <i>Nature Communications</i> , <b>2020</b> , 11, 4837	17.4	7
59	Heme-Induced Oxidation of Cysteine Groups of Myofilament Proteins Leads to Contractile Dysfunction of Permeabilized Human Skeletal Muscle Fibres. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	2
58	Multiplicity spin, structure, and charge of iron-verdohemeoxygenase complex: A comparison study by the DFT method. <i>Journal of Porphyrins and Phthalocyanines.</i> <b>2020</b> . 24. 1208-1214	1.8	O

57	Two Faces of Heme Catabolic Pathway in Newborns: A Potential Role of Bilirubin and Carbon Monoxide in Neonatal Inflammatory Diseases. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2020</b> , 2020, 7140496	6.7	3
56	Models for human porphyrias: Have animals in the wild been overlooked?: Some birds and mammals accumulate significant amounts of porphyrins in the body without showing the injurious symptoms observed in human porphyrias. <i>BioEssays</i> , <b>2020</b> , 42, e2000155	4.1	2
55	From Synthesis to Utilization: The Ins and Outs of Mitochondrial Heme. Cells, 2020, 9,	7.9	38
54	Hc-hrg-2, a glutathione transferase gene, regulates heme homeostasis in the blood-feeding parasitic nematode Haemonchus contortus. <i>Parasites and Vectors</i> , <b>2020</b> , 13, 40	4	4
53	Heme, A Metabolic Sensor, Directly Regulates the Activity of the KDM4 Histone Demethylase Family and Their Interactions with Partner Proteins. <i>Cells</i> , <b>2020</b> , 9,	7.9	1
52	Functional Genomics Identifies Metabolic Vulnerabilities in Pancreatic Cancer. <i>Cell Metabolism</i> , <b>2021</b> , 33, 199-210.e8	24.6	12
51	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> , <b>2021</b> , 1868, 118881	4.9	13
50	Radiological evaluations of low cost wollastonite nano-ceramics graft doped with iron oxide in the treatment of induced defects in canine mandible. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2020</b> , 109, 1029	3.5	5
49	Nitric oxide and sickle cell disease-Is there a painful connection?. <i>Experimental Biology and Medicine</i> , <b>2021</b> , 246, 332-341	3.7	1
48	Broad Spectrum Antibiotic Xanthocillin X Effectively Kills Dysregulation of Heme Biosynthesis. <i>ACS Central Science</i> , <b>2021</b> , 7, 488-498	16.8	4
47	Metabolomic Biomarkers for the Detection of Obesity-Driven Endometrial Cancer. <i>Cancers</i> , <b>2021</b> , 13,	6.6	6
46	Heme Biosynthesis mRNA Expression Signature: Towards a Novel Prognostic Biomarker in Patients with Diffusely Infiltrating Gliomas. <i>Cancers</i> , <b>2021</b> , 13,	6.6	4
45	Bach1 plays an important role in angiogenesis through regulation of oxidative stress. <i>Microvascular Research</i> , <b>2021</b> , 134, 104126	3.7	7
44	Targeting Mitochondrial Iron Metabolism Suppresses Tumor Growth and Metastasis by Inducing Mitochondrial Dysfunction and Mitophagy. <i>Cancer Research</i> , <b>2021</b> , 81, 2289-2303	10.1	12
43	How Bacterial Redox Sensors Transmit Redox Signals via Structural Changes. <i>Antioxidants</i> , <b>2021</b> , 10,	7.1	2
42	New insights on microscopic properties of metal-porphyrin complexes attached to quartz crystal sensor. <i>Scientific Reports</i> , <b>2021</b> , 11, 8316	4.9	
41	Noise-Induced Vascular Dysfunction, Oxidative Stress, and Inflammation Are Improved by Pharmacological Modulation of the NRF2/HO-1 Axis. <i>Antioxidants</i> , <b>2021</b> , 10,	7.1	6
40	HEME: a neglected player in nociception?. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2021</b> , 124, 124-136	9	1

# (2020-2021)

39	Engineering Bacteria to Monitor the Bleeding of Animals Using Far-Red Fluorescence. <i>ACS Sensors</i> , <b>2021</b> , 6, 1770-1778	9.2	
38	Significance of Heme and Heme Degradation in the Pathogenesis of Acute Lung and Inflammatory Disorders. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	6
37	Synthesis and biological activities of novel mitochondria-targeted artemisinin ester derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2021</b> , 39, 127912	2.9	2
36	Light-Activated Biomedical Applications of Chlorophyll Derivatives. <i>Macromolecular Bioscience</i> , <b>2021</b> , 21, e2100181	5.5	1
35	Core-modified porphyrins: novel building blocks in chemistry. ChemistrySelect, 2021,	1.8	О
34	Electropolymerized 1D Growth Coordination Polymer for Hybrid Electrochromic Aqueous Zinc Battery. <i>Advanced Science</i> , <b>2021</b> , 8, e2101944	13.6	6
33	Traditional treatment strategies for alcoholism and the withdrawal symptoms. 2021, 213-280		
32	Stressed erythrophagocytosis induces immunosuppression during sepsis through heme-mediated STAT1 dysregulation. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	8
31	Erythroid Iron Metabolism. <b>2012</b> , 191-209		5
30	Hsp90 and Its Role in Heme-Maturation of Client Proteins: Implications for Human Diseases. <i>Heat Shock Proteins</i> , <b>2019</b> , 251-268	0.2	1
29	Iron and Heme Metabolism at the Leishmania-Host Interface. <i>Trends in Parasitology</i> , <b>2020</b> , 36, 279-289	6.4	11
28	New perspectives on iron: an introduction. <i>American Journal of the Medical Sciences</i> , <b>1999</b> , 318, 207-12	2.2	66
27	Dietary hemoglobin rescues young piglets from severe iron deficiency anemia: Duodenal expression profile of genes involved in heme iron absorption. <i>PLoS ONE</i> , <b>2017</b> , 12, e0181117	3.7	27
26	Heme and innate immunity: new insights for an old molecule. <i>Memorias Do Instituto Oswaldo Cruz</i> , <b>2005</b> , 100, 799-803	2.6	12
25	Interplay of Heme with Macrophages in Homeostasis and Inflammation. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	15
24	Regulation of heme oxygenase expression by alcohol, hypoxia and oxidative stress. <i>World Journal of Biological Chemistry</i> , <b>2011</b> , 2, 252-60	3.8	13
23	[NO TITLE AVAILABLE]. Memorias Do Instituto Oswaldo Cruz, <b>2005</b> , 100,	2.6	
22	Physical and Physiological Properties of Iron. <i>Advances in Magnetic Resonance Technology and Applications</i> , <b>2020</b> , 1, 681-693	0.1	

21	GAPDH is involved in the heme-maturation of myoglobin and hemoglobin FASEB Journal, 2022, 36, e2	2099	3
20	The synthesis and properties of mitochondrial targeted iron chelators <i>BioMetals</i> , <b>2022</b> , 1	3.4	O
19	Image_1.JPEG. <b>2019</b> ,		
18	Image_2.JPEG. <b>2019</b> ,		
17	Detection of Porphyrins in Hair Using Capillary Liquid Chromatography-Mass Spectrometry. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23, 6230	6.3	
16	Bilirubin. <b>2022</b> , 71-80		
15	Tracking Heme-Protein Interactions in Healthy and Pathological Human Serum in Native Conditions by Miniaturized FFF-Multidetection. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 6762	2.6	1
14	Effects of Supplemental Drugs on Hexaminolevulinate (HAL)-Induced PpIX Fluorescence in Bladder Cancer Cell Suspensions. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23, 7631	6.3	1
13	Low-dose carbon monoxide suppresses metastatic progression of disseminated cancer cells. <i>Cancer Letters</i> , <b>2022</b> , 215831	9.9	0
12	Hemopexin Accumulates in Kidneys and Worsens Acute Kidney Injury by Causing Hemoglobin Deposition and Exacerbation of Iron Toxicity in Proximal Tubules. <b>2022</b> ,		1
11	Extracellular hemin is a reverse use-dependent gating modifier of cardiac voltage-gated Na+channels. <b>2022</b> ,		1
10	A pseudokinase version of the histidine kinase ChrS promotes high heme tolerance of Corynebacterium glutamicum. 13,		О
9	Regulation of heme utilization and homeostasis in Candida albicans. 2022, 18, e1010390		0
8	New roles for GAPDH, Hsp90, and NO in regulating heme allocation and hemeprotein function in mammals. <b>2022</b> ,		1
7	Construction of 5-aminolevulinic acid synthase variants by cysteine-targeted mutation to release heme inhibition. <b>2022</b> ,		O
6	G-quadruplexes sense natural porphyrin metabolites for regulation of gene transcription and chromatin landscapes. <b>2022</b> , 23,		O
5	The influence of oxygen and electronegativity on iron mineral chemistry throughout Earth history. <b>2023</b> , 386, 106960		1
4	Haem transporter HRG-1 is essential in the barber¶ pole worm and an intervention target candidate. <b>2023</b> , 19, e1011129		O

#### CITATION REPORT

3	Direct Effects of Mifepristone on Mice Embryogenesis: An In Vitro Evaluation by Single-Embryo RNA Sequencing Analysis. <b>2023</b> , 11, 907	О
2	5-Aminolevulinic Acid as a Theranostic Agent for Tumor Fluorescence Imaging and Photodynamic Therapy. <b>2023</b> , 10, 496	O
1	Microbial Synthesis of Heme b: Biosynthetic Pathways, Current Strategies, Detection, and Future	O