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Cell biology of heme

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#	Paper	IF	Citations
487	New Perspectives on Iron: An Introduction. <i>American Journal of the Medical Sciences</i> , 1999 , 318, 207-212	2.2	32
486	ABC-me: a novel mitochondrial transporter induced by GATA-1 during erythroid differentiation. 2000 , 19, 2492-502		120
485	HeLp, a heme lipoprotein from the hemolymph of the cattle tick, <i>Boophilus microplus</i> . 2000 , 275, 36584-9		75
484	Heme oxygenase-1 in tissue pathology: the Yin and Yang. 2000 , 156, 1485-8		60
483	Phosphatidylinositol 3-kinase and Ras/mitogen-activated protein kinase signaling pathways are required for the regulation of 5-aminolevulinate synthase gene expression by insulin. 2001 , 271, 201-13		24
482	Heme biosynthesis and oogenesis in the blood-sucking bug, <i>Rhodnius prolixus</i> . 2001 , 31, 359-64		23
481	Nonredundant roles of the mPer1 and mPer2 genes in the mammalian circadian clock. 2001 , 105, 683-94		700
480	Adenovirus-mediated heme oxygenase-1 gene transfer inhibits the development of atherosclerosis in apolipoprotein E-deficient mice. 2001 , 104, 1519-25		288
479	Carbon monoxide is the heme oxygenase product with a pyretic action: evidence for a cGMP signaling pathway. 2001 , 280, R448-57		35
478	5-Aminolaevulinate synthase gene promoter contains two cAMP-response element (CRE)-like sites that confer positive and negative responsiveness to CRE-binding protein (CREB). 2001 , 353, 307-16		15
477	5-Aminolaevulinate synthase gene promoter contains two cAMP-response element (CRE)-like sites that confer positive and negative responsiveness to CRE-binding protein (CREB). 2001 , 353, 307-316		27
476	Thermoregulatory response to hypoxia after inhibition of the central heme oxygenase/carbon monoxide pathway. 2001 , 26, 339-343		12
475	Haem regulation of the mitochondrial import of the <i>Kluyveromyces lactis</i> 5-aminolaevulinate synthase: an organelle approach. 2001 , 18, 41-8		12
474	Disturbance of cellular iron uptake and utilisation by aluminium. 2001 , 87, 21-7		17
473	Role of the haeme oxygenase/carbon monoxide pathway in mechanical nociceptor hypersensitivity. 2001 , 132, 1673-82		47
472	The heme-regulated eukaryotic initiation factor 2alpha kinase. A potential regulatory target for control of protein synthesis by diffusible gases. 2001 , 276, 14875-83		41
471	Direct and indirect antioxidant effects of nitric oxide: radically unsettled issues. 2001 , 3, 173-5		6

470	Chapter 8 Basic principles of 5-aminolevulinic acid-based photodynamic therapy. 2001 , 115-162	7
469	An examination of heme action in gene expression: heme and heme deficiency affect the expression of diverse genes in erythroid k562 and neuronal PC12 cells. 2002 , 21, 333-46	28
468	Pro-oxidant and cytotoxic effects of circulating heme. 2002 , 100, 879-87	475
467	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. 2002 , 99, 3813-22	61
466	Hemin induces neuroglobin expression in neural cells. 2002 , 100, 2494-8	82
465	Heme oxygenase and the kidney. 2002 , 21, 307-21	111
464	The role of heme and iron-sulfur clusters in mitochondrial biogenesis, maintenance, and decay with age. 2002 , 397, 345-53	92
463	Hypoxia-induced anapnoea: implications and putative mediators. 2002 , 64, 263-88	127
462	Vampires, Pasteur and reactive oxygen species. Is the switch from aerobic to anaerobic metabolism a preventive antioxidant defence in blood-feeding parasites?. 2002 , 525, 3-6	32
461	Human hereditary hepatic porphyrias. 2002 , 325, 17-37	55
460	Central heme oxygenase-carbon monoxide pathway in the control of breathing under normoxia and hypoxia. 2002 , 130, 151-60	9
459	On the biosynthesis of <i>Rhodnius prolixus</i> heme-binding protein. 2002 , 32, 1533-41	23
458	Alterations of heme metabolism in lymphocytes and metal content in blood plasma as markers of diesel fuels effects on human organism. 2002 , 286, 73-81	11
457	Role of the preoptic carbon monoxide pathway in endotoxin fever in rats. 2002 , 927, 27-34	10
456	NMR structure of the heme chaperone CcmE reveals a novel functional motif. 2002 , 10, 1551-7	57
455	Mitochondrial transduction of ocular teratogenesis during methylmercury exposure. 2002 , 65, 131-44	21
454	Heme oxygenase-1 mediates the anti-inflammatory effect of interleukin-10 in mice. 2002 , 8, 240-6	877
453	Current knowledge of iron metabolism. 2003 , 92, 189-212	13

452	Antiproliferative and apoptosis-inducing effects of hemin in hepatoma cells. 2003 , 1010, 311-5		6
451	Nitric oxide priming protects nitric oxide-mediated apoptosis via heme oxygenase-1 induction. <i>Free Radical Biology and Medicine</i> , 2003 , 34, 1136-45	7.8	60
450	The regulatory effect of heme on erythroid aminolevulinate synthase in natural erythroid cells. 2003 , 1630, 19-24		2
449	Separation and detection methods for covalent drug-protein adducts. 2003 , 797, 63-90		44
448	Iron and 8-isoprostane levels in acute and chronic wounds. 2003 , 121, 918-25		76
447	Haem can bind to and inhibit mammalian calcium-dependent Slo1 BK channels. 2003 , 425, 531-5		230
446	Heme and iron metabolism: role in cerebral hemorrhage. 2003 , 23, 629-52		363
445	Coupled oxidation vs heme oxygenation: insights from axial ligand mutants of mitochondrial cytochrome b5. 2003 , 125, 4103-10		56
444	Different faces of the heme-heme oxygenase system in inflammation. 2003 , 55, 551-71		438
443	Regulatory Mechanisms of Eukaryotic Tetrapyrrole Biosynthesis. 2003 , 1-32		5
442	Antibiotic cyclic AMP signaling by "primed" leukocytes confers anti-inflammatory cytoprotection. 2003 , 74, 908-15		15
441	The nature of heme/iron-induced protein tyrosine nitration. 2003 , 100, 5712-7		162
440	Friedreich's ataxia: iron chelators that target the mitochondrion as a therapeutic strategy?. 2003 , 12, 235-45		57
439	A novel approach for identifying the heme-binding proteins from mouse tissues. 2003 , 1, 78-86		8
438	Systemic regulation of Hephaestin and Ireg1 revealed in studies of genetic and nutritional iron deficiency. 2003 , 102, 1893-9		98
437	Acute Intermittent Porphyrin: From Clinical to Molecular Aspects. 2003 , 23-41		2
436	Porphyria Caused by Chlorinated AH Receptor Ligands and Associated Mechanisms of Liver Injury and Cancer. 2003 , 169-210		3
435	The stem cell marker Bcrp/ABCG2 enhances hypoxic cell survival through interactions with heme. 2004 , 279, 24218-25		501

434	Inhibition of heme aggregation by chloroquine reduces <i>Schistosoma mansoni</i> infection. 2004 , 190, 843-52	65
433	Mechanism of heme oxygenase-1 gene induction by quercetin in rat aortic smooth muscle cells. 2004 , 71, 107-12	39
432	Hepatic nuclear factor 3 and nuclear factor 1 regulate 5-aminolevulinate synthase gene expression and are involved in insulin repression. 2004 , 279, 28082-92	23
431	The source of heme for vascular heme oxygenase I: heme uptake in rat aorta. 2004 , 82, 209-17	7
430	An investigation of changes in element distribution and chemical states during differentiation of embryonic stem cells. 2004 , 137-140, 831-838	3
429	A role for heme in Alzheimer's disease: heme binds amyloid beta and has altered metabolism. 2004 , 101, 11153-8	198
428	Similar mutagenicity of photoactivated porphyrins and ultraviolet A radiation in mouse embryonic fibroblasts: involvement of oxidative DNA lesions in mutagenesis. 2004 , 43, 15557-66	30
427	New insights into erythropoiesis: the roles of folate, vitamin B12, and iron. 2004 , 24, 105-31	255
426	Induction of heme oxygenase-1 before conditioning results in improved survival and reduced graft-versus-host disease after experimental allogeneic bone marrow transplantation. 2004 , 10, 461-72	31
425	Heme deficiency causes apoptosis but does not increase ROS generation in HeLa cells. 2004 , 319, 1065-71	27
424	Reduced severity of middle ear infection caused by nontypeable <i>Haemophilus influenzae</i> lacking the hemoglobin/hemoglobin-haptoglobin binding proteins (Hgp) in a chinchilla model of otitis media. 2004 , 36, 25-33	47
423	HeLp, a heme-transporting lipoprotein with an antioxidant role. 2004 , 34, 81-8	26
422	Thiol antioxidant and thiol-reducing agents attenuate 15-deoxy-delta 12,14-prostaglandin J2-induced heme oxygenase-1 expression. 2004 , 74, 2451-63	25
421	Heme, iron, and the mitochondrial decay of ageing. 2004 , 3, 303-18	120
420	Zebrafish as a model of human hematologic disorders. 2004 , 11, 255-61	28
419	Fighting CLL cells: deciphering the enemy. 2005 , 106, 2226-2226	
418	Handling heme. 2005 , 106, 2225-2226	1
417	Iron regulatory protein 1 as a sensor of reactive oxygen species. 2005 , 24, 171-81	34

416	Early neoplastic and metastatic mammary tumours of transgenic mice detected by 5-aminolevulinic acid-stimulated protoporphyrin IX accumulation. 2005 , 93, 1137-43	14
415	Heme regulation in traumatic brain injury: relevance to the adult and developing brain. 2005 , 25, 1401-17	50
414	Mechanism of concentration-dependent induction of heme oxygenase-1 by resveratrol in human aortic smooth muscle cells. 2005 , 69, 41-8	144
413	Heme, heme oxygenase and ferritin in vascular endothelial cell injury. 2005 , 49, 1030-43	97
412	CTCF regulates growth and erythroid differentiation of human myeloid leukemia cells. 2005 , 280, 28152-61	49
411	Multiple facets of maxi-k ⁺ channels: the heme connection. 2005 , 126, 1-5	8
410	Tracing heme in a living cell: hemoglobin degradation and heme traffic in digest cells of the cattle tick <i>Boophilus microplus</i> . 2005 , 208, 3093-101	101
409	Heme regulates allosteric activation of the Slo1 BK channel. 2005 , 126, 7-21	80
408	Free heme toxicity and its detoxification systems in human. 2005 , 157, 175-88	562
407	Unusual heme-histidine bond in the active site of a chaperone. 2005 , 127, 3716-7	52
406	Carbon monoxide: endogenous production, physiological functions, and pharmacological applications. 2005 , 57, 585-630	696
405	Heme deficiency suppresses the expression of key neuronal genes and causes neuronal cell death. 2005 , 137, 23-30	31
404	Mechanism of horseradish peroxidase-catalyzed heme oxidation and polymerization (beta-hematin formation). 2005 , 1723, 221-8	6
403	30 some years of heme oxygenase: from a "molecular wrecking ball" to a "mesmerizing" trigger of cellular events. 2005 , 338, 568-77	176
402	The possible role of heat shock factor-1 in the negative regulation of heme oxygenase-1. 2005 , 37, 604-15	22
401	An alternatively-spliced exon in the 5'UTR of human ALAS1 mRNA inhibits translation and renders it resistant to haem-mediated decay. 2005 , 579, 1061-6	11
400	Structural and morphological characterization of hemozoin produced by <i>Schistosoma mansoni</i> and <i>Rhodnius prolixus</i> . 2005 , 579, 6010-6	96
399	The mechanism of low-concentration sodium nitroprusside-mediated protection of chondrocyte death. 2005 , 7, R526-35	25

398	The structure and function of frataxin. 2006 , 41, 269-91		119
397	Reversible binding of heme to proteins in cellular signal transduction. 2006 , 39, 918-24		71
396	Intracellular trafficking of porphyrins. 2006 , 1, 627-9		58
395	Monitoring drug-protein interaction. 2006 , 365, 9-29		28
394	The circadian PAR-domain basic leucine zipper transcription factors DBP, TEF, and HLF modulate basal and inducible xenobiotic detoxification. <i>Cell Metabolism</i> , 2006 , 4, 25-36	24.6	400
393	A novel haem-binding interface in the 22 kDa haem-binding protein p22HBP. 2006 , 362, 287-97		8
392	Adaptations against heme toxicity in blood-feeding arthropods. 2006 , 36, 322-35		246
391	Involvement of Tetrapyrroles in Cellular Regulation. 2006 , 223-235		2
390	Heme oxygenase-1 mediates cytoprotection against nitric oxide-induced cytotoxicity via the cGMP pathway in human pulp cells. 2006 , 102, 803-8		28
389	Métabolisme du fer. 2006 , 3, 1-10		3
388	Proteomic modification by nitric oxide. 2006 , 101, 271-9		42
387	Characterization of the heme synthesis enzyme coproporphyrinogen oxidase (CPO) in zebrafish erythrocytes. 2006 , 11, 293-303		18
386	Identification of a mammalian mitochondrial porphyrin transporter. 2006 , 443, 586-9		274
385	Heme: a versatile signaling molecule controlling the activities of diverse regulators ranging from transcription factors to MAP kinases. 2006 , 16, 681-92		198
384	Mitochondria in hematopoiesis and hematological diseases. 2006 , 25, 4757-67		68
383	5-Aminolevulinic acid derivatives in photomedicine: Characteristics, application and perspectives. 2006 , 82, 994-1015		156
382	Large-scale production of embryonic red blood cells from human embryonic stem cells. 2006 , 34, 1635-42		134
381	Central heme oxygenase-carbon monoxide pathway participates in the lipopolysaccharide-induced tolerance in rats. 2006 , 1111, 83-9		8

380	Heme as key regulator of major mammalian cellular functions: molecular, cellular, and pharmacological aspects. 2006 , 111, 327-45	188
379	Heme oxygenase and cyclooxygenase in the central nervous system: a functional interplay. 2006 , 84, 1385-91	53
378	Effects of hydroxyurea and L-arginine on the production of nitric oxide metabolites in cultures of normal and sickle erythrocytes. 2006 , 11, 291-4	10
377	New biotechnological methods to reduce oxidative stress in the cardiovascular system: focusing on the Bach1/heme oxygenase-1 pathway. 2006 , 7, 87-93	16
376	Products of heme oxygenase and their potential therapeutic applications. 2006 , 290, F563-71	183
375	Suppressed expression of genes involved in transcription and translation in in vitro compared with in vivo cultured bovine embryos. 2006 , 131, 651-60	93
374	Apoptosis in liver during malaria: role of oxidative stress and implication of mitochondrial pathway. 2006 , 20, 1224-6	136
373	A heme-degradation pathway in a blood-sucking insect. 2006 , 103, 8030-5	69
372	Antiaging medicine: antioxidants and aging. 2006 , 8, 362-4	25
371	Heme oxygenase-1 protects gastric mucosal cells against non-steroidal anti-inflammatory drugs. 2006 , 281, 33422-32	66
370	Heme oxygenase-1 mediates the anti-inflammatory effects of acute alcohol on IL-10 induction involving p38 MAPK activation in monocytes. 2006 , 177, 2592-600	98
369	The interaction of nitric oxide with distinct hemoglobins differentially amplifies endothelial heme uptake and heme oxygenase-1 expression. 2006 , 317, 1125-33	19
368	Candidate genes, pathways and mechanisms for alcoholism: an expanded convergent functional genomics approach. 2007 , 7, 222-56	80
367	REDOX-REACTIVE AUTOANTIBODIES. 2007 , 47-53	2
366	Genetic aspects of porphyria cutanea tarda. 2007 , 27, 99-108	34
365	Heme regulates exocrine peptidase precursor genes in zebrafish. <i>Experimental Biology and Medicine</i> , 2007 , 232, 1170-80	3-7 15
364	Differential regulation of Foxo3a target genes in erythropoiesis. 2007 , 27, 3839-3854	70
363	Posttreatment with aspirin-triggered lipoxin A4 analog attenuates lipopolysaccharide-induced acute lung injury in mice: the role of heme oxygenase-1. 2007 , 104, 369-77	96

362	Porphyries héréditaires chez l'enfant. 2007 , 2, 1-10	
361	Functional interaction between nitric oxide-induced iron homeostasis and heme oxygenase-1 in immortalized and malignant oral keratinocytes. 2007 , 249, 283-93	16
360	Heme oxygenase-1 induction by (S)-enantiomer of YS-51 (YS-51S), a synthetic isoquinoline alkaloid, inhibits nitric oxide production and nuclear factor-kappaB translocation in ROS 17/2.8 cells activated with inflammatory stimulants. 2007 , 7, 1559-68	16
359	Mechanisms of mitochondrial dysfunction and energy deficiency in Alzheimer's disease. 2007 , 7, 297-310	203
358	Extracellular lipid droplets promote hemozoin crystallization in the gut of the blood fluke <i>Schistosoma mansoni</i> . 2007 , 581, 1742-50	40
357	Nitric oxide signaling in vascular biology. 2007 , 1, 17-29	15
356	ALAD porphyria is a conformational disease. 2007 , 80, 329-37	52
355	Rev-erbalpha, a heme sensor that coordinates metabolic and circadian pathways. 2007 , 318, 1786-9	565
354	Immunology of pregnancy: cellular mechanisms allowing fetal survival within the maternal uterus. 2007 , 9, 1-14	37
353	Tin protoporphyrin induces intestinal chloride secretion by inducing light oxidation processes. 2007 , 292, C1906-14	5
352	Heme is involved in microRNA processing. 2007 , 14, 23-9	216
351	Identification of heme as the ligand for the orphan nuclear receptors REV-ERBalpha and REV-ERBbeta. 2007 , 14, 1207-13	438
350	A critical role for the co-repressor N-CoR in erythroid differentiation and heme synthesis. 2007 , 17, 804-14	22
349	Substance P regulates macrophage inflammatory protein 3alpha/chemokine C-C ligand 20 (CCL20) with heme oxygenase-1 in human periodontal ligament cells. 2007 , 150, 567-75	25
348	Role of the peripheral heme oxygenase-carbon monoxide pathway on the nociceptive response of rats to the formalin test: evidence for a cGMP signaling pathway. 2007 , 556, 55-61	33
347	Heme carrier protein 1 (HCP1) expression and functional analysis in the retina and retinal pigment epithelium. 2007 , 313, 1251-9	8
346	The role of transporters in cellular heme and porphyrin homeostasis. 2007 , 114, 345-58	174
345	Mutagenicity of ultraviolet A radiation in the lacI transgene in Big Blue mouse embryonic fibroblasts. 2007 , 617, 71-8	9

344	Fate of blood meal iron in mosquitoes. 2007 , 53, 1169-78	85
343	Heme, heme oxygenase, and ferritin: how the vascular endothelium survives (and dies) in an iron-rich environment. 2007 , 9, 2119-37	144
342	Various stress proteins protect gastric mucosal cells against non-steroidal anti-inflammatory drugs. 2007 , 15, 67-73	7
341	Functional Porphyrinoids from a Biomimetically Decorated Bipyrrrole. 2008 , 2008, 5505-5512	22
340	Haem homeostasis is regulated by the conserved and concerted functions of HRG-1 proteins. 2008 , 453, 1127-31	226
339	Regulation of haeme oxygenase-1 for treatment of neuroinflammation and brain disorders. 2008 , 155, 623-40	125
338	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. 2008 , 582, 861-8	36
337	Functional variability of antibodies upon oxidative processes. 2008 , 7, 574-8	17
336	Role of the spinal cord heme oxygenase-carbon monoxide-cGMP pathway in the nociceptive response of rats. 2008 , 581, 71-6	11
335	Metalloporphyrins as a therapeutic drug class against peroxynitrite in cardiovascular diseases involving ischemic reperfusion injury. 2008 , 586, 1-8	10
334	Protective effect of baicalin against lipopolysaccharide/D-galactosamine-induced liver injury in mice by up-regulation of heme oxygenase-1. 2008 , 587, 302-8	70
333	Hemoxygenase-1 in cardiovascular disease. 2008 , 52, 971-8	109
332	Upregulation of heme oxygenase-1 in oral epithelial dysplasias. 2008 , 37, 287-92	18
331	Expression of heme oxygenase-1 in oral lichen planus. 2008 , 1, 144-148	1
330	Haemoglobin expression in human endometrium. 2008 , 23, 635-41	43
329	The lipocalin alpha1-microglobulin protects erythroid K562 cells against oxidative damage induced by heme and reactive oxygen species. 2008 , 42, 725-36	60
328	Ex vivo carbon monoxide prevents cytochrome P450 degradation and ischemia/reperfusion injury of kidney grafts. <i>Kidney International</i> , 2008 , 74, 1009-16	9.9 61
327	Antioxidation and anti-inflammation by haem oxygenase-1 contribute to protection by tetramethylpyrazine against gentamicin-induced apoptosis in murine renal tubular cells. 2009 , 24, 769-77	71

326	A novel heme-regulatory motif mediates heme-dependent degradation of the circadian factor period 2. 2008 , 28, 4697-711		79
325	How to evaluate blood substitutes for endothelial cell toxicity. 2008 , 10, 1153-62		4
324	Haem oxygenase-1 gene transfer protects retinal ganglion cells from ischaemia/reperfusion injury. 2008 , 115, 335-42		14
323	Métabolismes hépatiques. 2008 , 3, 1-16		
322	Resonance Raman Microspectroscopy and Imaging of Hemoproteins in Single Leukocytes. 153-179		1
321	. 2008 ,		55
320	Antinociception synergy between the peripheral and spinal sites of the heme oxygenase-carbon monoxide pathway. 2009 , 42, 141-7		14
319	An oxygen-sensitive mechanism in regulation of epithelial sodium channel. 2009 , 106, 2957-62		49
318	Interference with hemozoin formation represents an important mechanism of schistosomicidal action of antimalarial quinoline methanols. 2009 , 3, e477		64
317	Intrahippocampal injection of a lentiviral vector expressing Nrf2 improves spatial learning in a mouse model of Alzheimer's disease. 2009 , 106, 16505-10		228
316	Blood iron homeostasis: newly discovered proteins and iron imbalance. 2009 , 23, 103-23		26
315	Hepatic gene expression profiling reveals protective responses in Atlantic salmon vaccinated against furunculosis. <i>BMC Genomics</i> , 2009 , 10, 503	4-5	40
314	Hepcidin suppression and defective iron recycling account for dysregulation of iron homeostasis in heme oxygenase-1 deficiency. 2009 , 13, 3091-102		30
313	PBRL, a putative peripheral benzodiazepine receptor, in primitive erythropoiesis. 2009 , 9, 114-21		14
312	Hemin promotes proliferation and differentiation of endothelial progenitor cells via activation of AKT and ERK. <i>Journal of Cellular Physiology</i> , 2009 , 219, 617-25	7	32
311	Cofactor-mediated protein promiscuity. 2009 , 27, 892		11
310	Efficiency of methemoglobin, hemin and ferric citrate in catalyzing protein tyrosine nitration, protein oxidation and lipid peroxidation in a bovine serum albumin-liposome system: influence of pH. 2009 , 103, 783-90		11
309	Sarcopenia of aging: underlying cellular mechanisms and protection by calorie restriction. 2009 , 35, 28-35		134

308	Trafficking of heme and porphyrins in metazoa. 2009 , 109, 4596-616	138
307	The role of iron in mitochondrial function. 2009 , 1790, 629-36	122
306	Response to the increase of oxidative stress and mutation of mitochondrial DNA in aging. 2009 , 1790, 1021-9	70
305	Peroxisome proliferator-activated receptor alpha controls hepatic heme biosynthesis through ALAS1. 2009 , 388, 225-38	16
304	General peroxidase activity of G-quadruplex-hemin complexes and its application in ligand screening. 2009 , 48, 7817-23	199
303	A general map of iron metabolism and tissue-specific subnetworks. 2009 , 5, 422-43	60
302	Peroxidasin is secreted and incorporated into the extracellular matrix of myofibroblasts and fibrotic kidney. 2009 , 175, 725-35	71
301	Nitric oxide modulates osteoblastic differentiation with heme oxygenase-1 via the mitogen activated protein kinase and nuclear factor-kappaB pathways in human periodontal ligament cells. 2009 , 32, 1328-34	30
300	Plasma haemoxygenase-1 in coronary artery disease. A comparison with angiogenin, matrix metalloproteinase-9, tissue inhibitor of metalloproteinase-1 and vascular endothelial growth factor. 2010 , 104, 1029-37	17
299	Ferritin does not donate its iron for haem synthesis in macrophages. 2010 , 429, 463-71	11
298	Spectroscopic insights into axial ligation and active-site H-bonding in substrate-bound human heme oxygenase-2. 2010 , 15, 1117-27	12
297	Attenuation of NF-kappaB and activation of Nrf2 signaling by 1,2,4-triazine derivatives, protects neuron-like PC12 cells against apoptosis. 2010 , 15, 738-51	53
296	Characterization and identification of distinct Mycobacterium massiliense extracellular proteins from those of Mycobacterium abscessus. 2010 , 48, 502-11	3
295	Chitosan prevents oxidative stress-induced amyloid beta formation and cytotoxicity in NT2 neurons: involvement of transcription factors Nrf2 and NF-kappaB. 2010 , 337, 39-51	76
294	Vacuolar (H ⁺)-ATPases in Caenorhabditis elegans: what can we learn about giant H ⁺ pumps from tiny worms?. 2010 , 1797, 1687-95	32
293	Signaling to heme oxygenase-1 and its anti-inflammatory therapeutic potential. 2010 , 80, 1895-903	591
292	Nitric oxide blocks cellular heme insertion into a broad range of heme proteins. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 1548-58	7.8 33
291	Up-regulation of heme oxygenase-1 expression through CaMKII-ERK1/2-Nrf2 signaling mediates the anti-inflammatory effect of bisdemethoxycurcumin in LPS-stimulated macrophages. <i>Free Radical Biology and Medicine</i> , 2010 , 49, 323-31	7.8 75

290	Indispensable function for embryogenesis, expression and regulation of the nonspecific form of the 5-aminolevulinate synthase gene in mouse. 2010 , 15, 77-89		21
289	Metabolism of haem in Caco-2 cells. 2010 , 95, 296-303		3
288	Effects of proactive iron and erythropoiesis-stimulating agent protocol implementation on achieving clinical guideline targets for anaemia in a satellite haemodialysis patient cohort. 2010 , 15, 288-93		10
287	Increase on the initial soluble heme levels in acidic conditions is an important mechanism for spontaneous heme crystallization in vitro. <i>PLoS ONE</i> , 2010 , 5, e12694	3.7	16
286	Heme oxygenase-1 as a therapeutic target in inflammatory disorders of the gastrointestinal tract. <i>World Journal of Gastroenterology</i> , 2010 , 16, 3112-9	5.6	38
285	The Fowler syndrome-associated protein FLVCR2 is an importer of heme. 2010 , 30, 5318-24		72
284	Overcoming the heme paradox: heme toxicity and tolerance in bacterial pathogens. <i>Infection and Immunity</i> , 2010 , 78, 4977-89	3.7	193
283	DGCR8 recognizes primary transcripts of microRNAs through highly cooperative binding and formation of higher-order structures. 2010 , 16, 1570-83		47
282	Antagonistic roles of the ERK and p38 MAPK signalling pathways in globin expression, haem biosynthesis and iron uptake. 2010 , 432, 145-51		9
281	Discovery and Characterization of HemQ: an essential heme biosynthetic pathway component. 2010 , 285, 25978-86		52
280	Genome-wide identification of TAL1Q functional targets: insights into its mechanisms of action in primary erythroid cells. 2010 , 20, 1064-83		137
279	Heme and blood-feeding parasites: friends or foes?. <i>Parasites and Vectors</i> , 2010 , 3, 108	4	72
278	Regulation of beta-lactamase activity by remote binding of heme: functional coupling of unrelated proteins through domain insertion. 2010 , 49, 6541-9		20
277	The cell biology of tetrapyrroles: a life and death struggle. 2010 , 15, 488-98		218
276	Adiponectin-mediated heme oxygenase-1 induction protects against iron-induced liver injury via a PPAR α -dependent mechanism. 2010 , 177, 1697-709		58
275	Cytochrome P450 regulation: the interplay between its heme and apoprotein moieties in synthesis, assembly, repair, and disposal. 2011 , 43, 1-26		54
274	Unusual heme binding in the bacterial iron response regulator protein: spectral characterization of heme binding to the heme regulatory motif. 2011 , 50, 1016-22		31
273	Heme oxygenase in the regulation of vascular biology: from molecular mechanisms to therapeutic opportunities. 2011 , 14, 137-67		177

272	67 Eukaryotic Heme Trafficking. 2011 , 1-48		2
271	The heme uptake process in <i>Trypanosoma cruzi</i> epimastigotes is inhibited by heme analogues and by inhibitors of ABC transporters. 2011 , 120, 211-8		31
270	The Role of Heme and Reactive Oxygen Species in Proliferation and Survival of <i>Trypanosoma cruzi</i> . 2011 , 2011, 174614		23
269	Heme-oxygenases during erythropoiesis in K562 and human bone marrow cells. <i>PLoS ONE</i> , 2011 , 6, e21358		19
268	Heme-induced ROS in <i>Trypanosoma cruzi</i> activates CaMKII-like that triggers epimastigote proliferation. One helpful effect of ROS. <i>PLoS ONE</i> , 2011 , 6, e25935	3-7	38
267	The role of ABCG2 and ABCB6 in porphyrin metabolism and cell survival. 2011 , 12, 647-55		45
266	Porphyrines et porphyrines. 2011 , 6, 1-11		
265	Ectopic overexpression of haem oxygenase-1 protects kidneys from carboplatin-mediated apoptosis. 2011 , 162, 1716-30		7
264	Reciprocal regulation of Ca ²⁺ -activated outward K ⁺ channels of <i>Pyrus pyrifolia</i> pollen by heme and carbon monoxide. 2011 , 189, 1060-1068		26
263	Specific inhibition of the ABCG2 transporter could improve the efficacy of photodynamic therapy. 2011 , 105, 162-6		22
262	Control of intracellular heme levels: heme transporters and heme oxygenases. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011 , 1813, 668-82	4-9	122
261	On the mechanisms involved in biological heme crystallization. 2011 , 43, 93-9		18
260	Effect of cobalt on <i>Escherichia coli</i> metabolism and metalloporphyrin formation. <i>BioMetals</i> , 2011 , 24, 335-47	3-4	30
259	Transition metal homeostasis: from yeast to human disease. <i>BioMetals</i> , 2011 , 24, 785-809	3-4	164
258	Synthesis of novel heme-interacting acridone derivatives to prevent free heme-mediated protein oxidation and degradation. 2011 , 21, 3563-7		26
257	NSAIDs inhibit neovascularization of choroid through HO-1-dependent pathway. 2011 , 91, 1277-90		29
256	Leukotriene B4 mediates neutrophil migration induced by heme. 2011 , 186, 6562-7		47
255	Role of heme and heme-proteins in trypanosomatid essential metabolic pathways. 2011 , 2011, 873230		43

254	INTRODUCTION. 2011 , 1-6	1
253	Potassium flux in the pollen tubes was essential in plant sexual reproduction. 2011 , 6, 898-900	3
252	Congenital sideroblastic anemias: iron and heme lost in mitochondrial translation. 2011 , 2011, 525-31	69
251	Increased levels of plasma haemoxygenase-1 in prostate cancer. 2011 , 14, 114-7	6
250	Differential function of lip residues in the mechanism and biology of an anthrax hemophore. 2012 , 8, e1002559	35
249	Hal Is a Bacillus anthracis heme acquisition protein. 2012 , 194, 5513-21	32
248	Polycyclic aromatic hydrocarbons (PAHs) mediate transcriptional activation of the ATP binding cassette transporter ABCB6 gene via the aryl hydrocarbon receptor (AhR). 2012 , 287, 32054-68	17
247	Endoplasmic reticulum anchored heme-oxygenase 1 faces the cytosol. 2012 , 97, 1489-93	52
246	Minireview: the role of the vacuolar ATPase in nematodes. 2012 , 132, 47-55	15
245	Regulation of metabolism: the circadian clock dictates the time. 2012 , 23, 1-8	150
244	Heme oxygenase-1 expression in chronic rhinosinusitis with eosinophilic infiltration. 2012 , 39, 387-92	6
243	Crystallographic studies of heme oxygenase complexed with an unstable reaction intermediate, verdoheme. 2012 , 113, 102-9	17
242	Berberine induces heme oxygenase-1 up-regulation through phosphatidylinositol 3-kinase/AKT and NF-E2-related factor-2 signaling pathway in astrocytes. 2012 , 12, 94-100	48
241	The long history of iron in the Universe and in health and disease. 2012 , 1820, 161-87	121
240	One ring to rule them all: trafficking of heme and heme synthesis intermediates in the metazoans. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2012 , 1823, 1617-32	4-9 155
239	Inhibition of PKA attenuates memory deficits induced by β -amyloid (1-42), and decreases oxidative stress and NF- κ B transcription factors. 2012 , 226, 301-8	40
238	Structural basis for efficient chromophore communication and energy transfer in a constructed didomain protein scaffold. 2012 , 134, 13632-40	29
237	Heme induced oxidative stress attenuates sirtuin1 and enhances adipogenesis in mesenchymal stem cells and mouse pre-adipocytes. 2012 , 113, 1926-35	49

236	Short (GT) (n) repeats in heme oxygenase-1 gene promoter are associated with lower risk of coronary heart disease in subjects with high levels of oxidative stress. <i>Cell Stress and Chaperones</i> , 2012 , 17, 329-38	4	23
235	Heme binds to factor VIII and inhibits its interaction with activated factor IX. 2012 , 10, 1062-71		15
234	Molecular insights into the regulation of iron metabolism during the prenatal and early postnatal periods. 2013 , 70, 23-38		41
233	Hemozoin and antimalarial drug discovery. 2013 , 5, 1437-50		47
232	Multiplexed optical detection of plasma porphyrins using DNA aptamer-functionalized carbon nanotubes. 2013 , 85, 8391-6		16
231	Oligosaccharides from agar inhibit murine intestinal inflammation through the induction of heme oxygenase-1 expression. 2013 , 48, 897-909		58
230	Butyric acid retention in gingival tissue induces oxidative stress in jugular blood mitochondria. <i>Cell Stress and Chaperones</i> , 2013 , 18, 661-5	4	17
229	Circadian rhythms in acute intermittent porphyria--a pilot study. 2013 , 43, 727-39		7
228	Synthesis of phycocyanobilin in mammalian cells. 2013 , 49, 8970-2		54
227	Erythroid heme biosynthesis and its disorders. 2013 , 3, a011676		71
226	Clearance mechanism of protoporphyrin IX from mouse skin after application of 5-aminolevulinic acid. <i>Photodiagnosis and Photodynamic Therapy</i> , 2013 , 10, 538-45	3-5	9
225	Silencing of maternal heme-binding protein causes embryonic mitochondrial dysfunction and impairs embryogenesis in the blood sucking insect <i>Rhodnius prolixus</i> . 2013 , 288, 29323-32		26
224	Ferroportin expression in haem oxygenase 1-deficient mice. 2013 , 449, 69-78		31
223	Influence of chelating therapy against aluminum chloride-induced immune suppression and hematological disorders in rabbits. 2013 , 22, 63-73		
222	Immuno-spin trapping of heme-induced protein radicals: Implications for heme oxygenase-1 induction and heme degradation. <i>Free Radical Biology and Medicine</i> , 2013 , 61, 265-72	7.8	7
221	Orally supplemented catechin increases heme amounts and catalase activities in rat heart blood mitochondria: a comparison between middle-aged and young rats. 2013 , 48, 1319-22		6
220	The Role of the Circadian System in Homeostasis. 2013 , 407-426		2
219	Integrating cell-free biosyntheses of heme prosthetic group and apoenzyme for the synthesis of functional P450 monooxygenase. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 1193-200	4-9	18

218	SERS as a valuable tool for detection and treatment follow-up of fungal infection in mice lungs: use of Amphotericin B and its nanoencapsulation onto magnetic nanoparticles. 2013 , 44, 695-702		8
217	Role of soluble guanylate cyclase activation in the gastroprotective effect of the HO-1/CO pathway against alendronate-induced gastric damage in rats. 2013 , 700, 51-9		28
216	Porphyrin and Heme Trafficking in Metazoans. 2013 , 223-265		
215	Erythropoiesis, Hemoglobin Synthesis, and Erythroid Mitochondrial Iron Homeostasis. 2013 , 41-84		3
214	Heme Biosynthesis and Pathophysiology of Porphyrins. 2013 , 89-118		1
213	The Ultimate Step of Heme Biosynthesis: Orchestration Between Iron Trafficking and Porphyrin Synthesis. 2013 , 129-189		1
212	Nitrogen monoxide inhibits haem synthesis in mouse reticulocytes. 2013 , 451, 61-7		5
211	Protective effect of heme oxygenase-1 on hepatic ischemia-reperfusion injury through inhibition of platelet adhesion to the sinusoids. 2013 , 28, 700-6		16
210	A nonclinical safety assessment of MnTE-2-PyP, a manganese porphyrin. 2013 , 32, 274-87		29
209	Hemophagocytosis-mediated keratinization in oral carcinoma in situ and squamous cell carcinoma: a possible histopathogenesis of keratin pearls. <i>Journal of Cellular Physiology</i> , 2013 , 228, 1977-88	7	10
208	Mechanism of inhibition of tubuloglomerular feedback by CO and cGMP. 2013 , 62, 99-104		7
207	5-Aminolevulinic Acid and Its Derivatives. 2013 , 291-298		1
206	Multi-copper oxidases and human iron metabolism. 2013 , 5, 2289-313		122
205	Unsaturated glycerophospholipids mediate heme crystallization: biological implications for hemozoin formation in the kissing bug <i>Rhodnius prolixus</i> . <i>PLoS ONE</i> , 2014 , 9, e88976	3-7	5
204	Preparation and characterization of iron(iii) complex of saccharin. 2014 , 37, 195-203		1
203	The peculiarities and paradoxes of Plasmodium heme metabolism. 2014 , 68, 259-78		70
202	Similar physiological effects in <i>Porphyromonas gingivalis</i> ATCC 33277 under hemin-excess and hemin-limited concentrations are putatively associated to different hydrogen peroxide function. 2014 , 28, 178-81		7
201	An insight into the transcriptome of the digestive tract of the bloodsucking bug, <i>Rhodnius prolixus</i> . 2014 , 8, e2594		133

200	Plasmodium falciparum merozoite surface protein 3: oligomerization, self-assembly, and heme complex formation. 2014 , 289, 3856-68		22
199	Drugs and acute porphyrias: reasons for a hazardous relationship. 2014 , 126, 108-20		8
198	Heme exporter FLVCR1a regulates heme synthesis and degradation and controls activity of cytochromes P450. 2014 , 146, 1325-38		45
197	Iron metabolism regulates p53 signaling through direct heme-p53 interaction and modulation of p53 localization, stability, and function. 2014 , 7, 180-93		130
196	Constitutive expression of RyhB regulates the heme biosynthesis pathway and increases the 5-aminolevulinic acid accumulation in Escherichia coli. 2014 , 350, 209-15		36
195	Activity enhancement of G-quadruplex/hemin DNAzyme by spermine. 2014 , 4, 1441-1448		41
194	Iron-rich ferritin in the hypoxia-tolerant rodent Spalax ehrenbergi: a naturally-occurring biomarker confirms the internalization and pathways of intracellular macromolecules. 2014 , 187, 254-265		3
193	Heme oxygenase-1 and anti-inflammatory M2 macrophages. 2014 , 564, 83-8		214
192	Carbon monoxide--physiology, detection and controlled release. 2014 , 50, 3644-60		276
191	Salvianolic acid A protects RPE cells against oxidative stress through activation of Nrf2/HO-1 signaling. <i>Free Radical Biology and Medicine</i> , 2014 , 69, 219-28	7.8	189
190	Effect of hypoxia on porphyrin metabolism in bone marrow mesenchymal stem cells. 2014 , 157, 167-71		2
189	Preventive effect of agaro-oligosaccharides on non-steroidal anti-inflammatory drug-induced small intestinal injury in mice. 2014 , 29, 310-7		18
188	Heme in pathophysiology: a matter of scavenging, metabolism and trafficking across cell membranes. 2014 , 5, 61		194
187	ABCG2 transporter inhibitor restores the sensitivity of triple negative breast cancer cells to aminolevulinic acid-mediated photodynamic therapy. <i>Scientific Reports</i> , 2015 , 5, 13298	4.9	53
186	Measurement of Heme Synthesis Levels in Mammalian Cells. 2015 , e51579		5
185	Synthesis and Catalytic Performance of Gold Intercalated in the Walls of Mesoporous Silica. 2015 , e52349		
184	Effects of Silencing Heme Biosynthesis Enzymes on 5-Aminolevulinic Acid-mediated Protoporphyrin IX Fluorescence and Photodynamic Therapy. 2015 , 91, 923-30		26
183	Haem uptake is essential for egg production in the haematophagous blood fluke of humans, <i>Schistosoma mansoni</i> . 2015 , 282, 3632-46		20

182	Global cPILOT analysis of the APP/PS-1 mouse liver proteome. 2015 , 9, 872-84		20
181	Carbon monoxide: a critical quantitative analysis and review of the extent and limitations of its second messenger function. 2015 , 7, 37-56		26
180	Aminolevulinic Acid-Based Tumor Detection and Therapy: Molecular Mechanisms and Strategies for Enhancement. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 25865-80	6.3	96
179	Lessons from bloodless worms: heme homeostasis in <i>C. elegans</i> . <i>BioMetals</i> , 2015 , 28, 481-9	3.4	27
178	Porphyrias: A 2015 update. 2015 , 39, 412-25		96
177	Effect of chloride driven copper redox cycling on the kinetics of Fe(II) oxidation in aqueous solutions at pH 6.5B.0. 2015 , 161, 118-127		10
176	High butyric acid amounts induce oxidative stress, alter calcium homeostasis, and cause neurite retraction in nerve growth factor-treated PC12 cells. <i>Cell Stress and Chaperones</i> , 2015 , 20, 709-13	4	13
175	Middle-aged rats orally supplemented with gel-encapsulated catechin favorably increases blood cytosolic NADPH levels. 2015 , 22, 425-30		5
174	Protective Effect of a cAMP Analogue on Behavioral Deficits and Neuropathological Changes in Cuprizone Model of Demyelination. 2015 , 52, 130-41		20
173	Rapid and sensitive quantitation of heme in hemoglobinized cells. 2016 , 61, 83-91		9
172	Chemical-induced coordinated and reciprocal changes in heme metabolism, cytochrome P450 synthesis and others in the liver of humans and rodents. 2016 , 41, SP89-SP103		1
171	Iron Homeostasis in Health and Disease. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	185
170	Light-induced depigmentation in planarians models the pathophysiology of acute porphyrias. <i>ELife</i> , 2016 , 5,	8.9	19
169	An Examination of Dynamic Gene Expression Changes in the Mouse Brain During Pregnancy and the Postpartum Period. 2015 , 6, 221-33		27
168	Porphyrins produce uniquely ephemeral animal colouration: a possible signal of virginity. <i>Scientific Reports</i> , 2016 , 6, 39210	4.9	16
167	Distinct Prominent Roles for Enzymes of Plasmodium berghei Heme Biosynthesis in Sporozoite and Liver Stage Maturation. <i>Infection and Immunity</i> , 2016 , 84, 3252-3262	3.7	16
166	Frataxin and the molecular mechanism of mitochondrial iron-loading in Friedreich@ ataxia. 2016 , 130, 853-70		35
165	Mechanism-Guided Design and Synthesis of a Mitochondria-Targeting Artemisinin Analogue with Enhanced Anticancer Activity. 2016 , 55, 13770-13774		72

164	Mechanism-Guided Design and Synthesis of a Mitochondria-Targeting Artemisinin Analogue with Enhanced Anticancer Activity. 2016 , 128, 13974-13978		10
163	EETs and HO-1 cross-talk. 2016 , 125, 65-79		20
162	A High Dose of Isoniazid Disturbs Endobiotic Homeostasis in Mouse Liver. <i>Drug Metabolism and Disposition</i> , 2016 , 44, 1742-1751	4	14
161	Catalytic iron and acute kidney injury. 2016 , 311, F871-F876		25
160	Nutrigenomic effects of glucosinolates on liver, muscle and distal kidney in parasite-free and salmon louse infected Atlantic salmon. <i>Parasites and Vectors</i> , 2016 , 9, 639	4	13
159	[Porphyrias and haem related disorders]. 2016 , 37, 173-85		1
158	Resolvin D1 attenuates CCL4-induced acute liver injury involving up-regulation of HO-1 in mice. 2016 , 38, 61-7		24
157	ABC Transporters - 40 Years on. 2016 ,		10
156	Mechanism of Developmental Effects in Rats Caused by an N-Phenylimide Herbicide: Transient Fetal Anemia and Sequelae during Mid-to-Late Gestation. 2016 , 107, 45-59		6
155	Biology of Mitochondrial ABCs and Their Contribution to Pathology. 2016 , 273-296		
154	Iron-associated biology of <i>Trypanosoma brucei</i> . 2016 , 1860, 363-70		16
153	Re-discovering periodontal butyric acid: New insights on an old metabolite. 2016 , 94, 48-53		10
152	Metabolic Signaling to Chromatin. 2016 , 8,		85
151	Regulation of sGC via hsp90, Cellular Heme, sGC Agonists, and NO: New Pathways and Clinical Perspectives. 2017 , 26, 182-190		17
150	Molecular Basis for Mitochondrial Signaling. 2017 ,		3
149	Antischistosomal Activity of Pyrido[1,2-a]benzimidazole Derivatives and Correlation with Inhibition of δ -Hematin Formation. 2017 , 3, 411-420		14
148	Real-Time Imaging of the Azole Class of Antifungal Drugs in Live <i>Candida</i> Cells. 2017 , 12, 1769-1777		36
147	Correlation between genetic polymorphisms within the MAPK1/HIF-1/HO-1 signaling pathway and risk or prognosis of perimenopausal coronary artery disease. 2017 , 40, 597-604		10

146	The 18 kDa Translocator Protein (TSPO): Cholesterol Trafficking and the Biology of a Prognostic and Therapeutic Mitochondrial Target. 2017 , 285-315		2
145	How to Increase Brightness of Near-Infrared Fluorescent Proteins in Mammalian Cells. 2017 , 24, 758-766.e3		37
144	Heme modulates <i>Trypanosoma cruzi</i> bioenergetics inducing mitochondrial ROS production. <i>Free Radical Biology and Medicine</i> , 2017 , 108, 183-191	7.8	20
143	Hydrogen peroxide resistance in <i>Strigomonas culicis</i> : Effects on mitochondrial functionality and <i>Aedes aegypti</i> interaction. <i>Free Radical Biology and Medicine</i> , 2017 , 113, 255-266	7.8	9
142	Statistical studies of adsorption isotherms of iron nitrate and iron chloride on a thin layer of porphyrin. 2017 , 248, 235-245		33
141	Efficient synthesis of phycocyanobilin in mammalian cells for optogenetic control of cell signaling. 2017 , 114, 11962-11967		56
140	Visualization of Fe-Labeled Heme Isotopic Fine Structure and Localization of Regions of Erythroblast Maturation in Mouse Spleen by MALDI FTICR-MS Imaging. 2017 , 28, 2469-2475		5
139	Mechanistic Investigation of the Specific Anticancer Property of Artemisinin and Its Combination with Aminolevulinic Acid for Enhanced Anticancer Activity. <i>ACS Central Science</i> , 2017 , 3, 743-750	16.8	60
138	Over expression of 5-aminolevulinic acid synthase 2 increased protoporphyrin IX in nonerythroid cells. <i>Photodiagnosis and Photodynamic Therapy</i> , 2017 , 17, 22-28	3.5	3
137	Stable Overexpression of the Constitutive Androstane Receptor Reduces the Requirement for Culture with Dimethyl Sulfoxide for High Drug Metabolism in HepaRG Cells. <i>Drug Metabolism and Disposition</i> , 2017 , 45, 56-67	4	10
136	Hiding in the Shadows: CPOX Expression and 5-ALA Induced Fluorescence in Human Glioma Cells. 2017 , 54, 5699-5708		22
135	Design of Novel Classes of Building Blocks for Nanotechnology: Core-Modified Metalloporphyrins and Their Derivatives. 2017 ,		1
134	Heme as a Target for Therapeutic Interventions. 2017 , 8, 146		65
133	Bacterial Phytochromes, Cyanobacteriochromes and Allophycocyanins as a Source of Near-Infrared Fluorescent Probes. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	29
132	PhiReX: a programmable and red light-regulated protein expression switch for yeast. <i>Nucleic Acids Research</i> , 2017 , 45, 9193-9205	20.1	19
131	Inflammation in sickle cell disease. 2018 , 68, 263-299		76
130	The macrophage heme-heme oxygenase-1 system and its role in inflammation. 2018 , 153, 159-167		112
129	Label-Free Imaging of Heme Dynamics in Living Organisms by Transient Absorption Microscopy. 2018 , 90, 3395-3401		21

128	Modulation of mitochondrial metabolism as a biochemical trait in blood feeding organisms: the redox vampire hypothesis redux. 2018 , 42, 683-700		4
127	Role of thyroid transcription factor-1 in transcriptional regulation of heme oxygenase-1. 2018 , 496, 147-152		2
126	Iron deficiency beyond erythropoiesis: should we be concerned?. 2018 , 34, 81-93		50
125	Structure and function of haemoglobins. 2018 , 70, 13-42		62
124	Porphyrias and photosensitivity: pathophysiology for the clinician. 2018 , 130, 673-686		4
123	Heme promotes transcriptional and demethylase activities of Gis1, a member of the histone demethylase JMJD2/KDM4 Family. <i>Nucleic Acids Research</i> , 2018 , 46, 215-228	20.1	10
122	Development and characterization of maltodextrin microparticles to encapsulate heme and non-heme iron. 2018 , 96, 568-575		16
121	Fluorescent contrast agents for tumor surgery. 2018 , 16, 1577-1585		9
120	Silencing of Iron and Heme-Related Genes Revealed a Paramount Role of Iron in the Physiology of the Hematophagous Vector. 2018 , 9, 19		15
119	Applications of Metals for Bone Regeneration. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	85
118	Heme oxygenase inhibition in cancers: possible tools and targets. 2018 , 22, 23-32		39
117	Glyceraldehyde-3-phosphate dehydrogenase is a chaperone that allocates labile heme in cells. 2018 , 293, 14557-14568		53
116	Heme oxygenase-2 suppresses acute inflammation and improves the survival of skin allografts. 2018 , 63, 191-197		3
115	Metabolic engineering of Escherichia coli for secretory production of free haem. 2018 , 1, 720-728		29
114	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> , 2019 , 28, 238-247	3.5	12
113	Heme Catabolic Pathway in Inflammation and Immune Disorders. 2019 , 10, 825		31
112	HO-1 and CD39: It Takes Two to Protect the Realm. <i>Frontiers in Immunology</i> , 2019 , 10, 1765	8.4	10
111	Heme-iron acquisition in fungi. 2019 , 52, 77-83		18

110	Mechanisms of haemolysis-induced kidney injury. 2019 , 15, 671-692		47
109	Coffee and Endothelial Function: A Coffee Paradox?. 2019 , 11,		14
108	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. 2019 , 672, 108071		6
107	Heme synthesis through the life cycle of the heme auxotrophic parasite. 2019 , 33, 13367-13385		7
106	Local Energy Decomposition of Open-Shell Molecular Systems in the Domain-Based Local Pair Natural Orbital Coupled Cluster Framework. 2019 , 15, 1616-1632		46
105	A scavenger receptor B (CD36)-like protein is a potential mediator of intestinal heme absorption in the hematophagous ectoparasite <i>Lepeophtheirus salmonis</i> . <i>Scientific Reports</i> , 2019 , 9, 4218	4.9	10
104	Impaired heme metabolism in schizophrenia-derived cell lines and in a rat model of the disorder: Possible involvement of mitochondrial complex I. 2019 , 29, 577-589		3
103	Targeting autophagy enhances the anticancer effect of artemisinin and its derivatives. 2019 , 39, 2172-2193		45
102	Investigating the Connection Between Endogenous Heme Accumulation and COX2 Activity in Cancer Cells. 2019 , 9, 162		8
101	Ferrochelatase Deficiency Abrogated the Enhancement of Aminolevulinic Acid-mediated Protoporphyrin IX by Iron Chelator Deferoxamine. 2019 , 95, 1052-1059		9
100	The importance of catalytic promiscuity for enzyme design and evolution. 2019 , 3, 687-705		90
99	Shannon entropy approach reveals relevant genes in Alzheimer's disease. <i>PLoS ONE</i> , 2019 , 14, e0226190	3.7	9
98	Heme oxygenase-1 as a potential therapeutic target in rheumatic diseases. 2019 , 218, 205-212		7
97	Heme metabolism as a therapeutic target against protozoan parasites. 2019 , 27, 767-779		4
96	Recent advances in amniote palaeocolour reconstruction and a framework for future research. 2019 , 95, 22		13
95	Ascorbate and Tumor Cell Iron Metabolism: The Evolving Story and Its Link to Pathology. 2020 , 33, 816-838		3
94	Optimization of optical parameters for improved photodynamic therapy of <i>Staphylococcus aureus</i> using endogenous coproporphyrin III. <i>Photodiagnosis and Photodynamic Therapy</i> , 2020 , 29, 101624	3.5	10
93	Gene expression profiling of <i>Trypanosoma cruzi</i> in the presence of heme points to glycosomal metabolic adaptation of epimastigotes inside the vector. 2020 , 14, e0007945		3

92	MFSD7C switches mitochondrial ATP synthesis to thermogenesis in response to heme. 2020 , 11, 4837		7
91	TCGA mRNA Expression Analysis of the Heme Biosynthesis Pathway in Diffusely Infiltrating Gliomas: A Comparison of Typically 5-ALA Fluorescent and Non-Fluorescent Gliomas. <i>Cancers</i> , 2020 , 12,	6.6	4
90	TLR4 Signaling by Heme and the Role of Heme-Binding Blood Proteins. <i>Frontiers in Immunology</i> , 2020 , 11, 1964	8.4	16
89	Pathways of heme utilization in fungi. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020 , 1867, 118817	4.9	5
88	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> , 2020 , 21,	6.3	2
87	Multiplicity spin, structure, and charge of iron-verdohemeoxygenase complex: A comparison study by the DFT method. <i>Journal of Porphyrins and Phthalocyanines</i> , 2020 , 24, 1208-1214	1.8	0
86	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> , 2020 , 2020, 7140496	6.7	3
85	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> , 2020 , 42, e2000155	4.1	2
84	Haem oxygenases play a pivotal role in placental physiology and pathology. <i>Human Reproduction Update</i> , 2020 , 26, 634-649	15.8	5
83	Lead, Mercury and Cadmium in Fish and Shellfish from the Indian Ocean and Red Sea (African Countries): Public Health Challenges. <i>Journal of Marine Science and Engineering</i> , 2020 , 8, 344	2.4	21
82	Identification of heme oxygenase-1 from golden pompano (<i>Trachinotus ovatus</i>) and response of Nrf2/HO-1 signaling pathway to copper-induced oxidative stress. <i>Chemosphere</i> , 2020 , 253, 126654	8.4	4
81	HrrSA orchestrates a systemic response to heme and determines prioritization of terminal cytochrome oxidase expression. <i>Nucleic Acids Research</i> , 2020 , 48, 6547-6562	20.1	1
80	Ruffling drives coproheme decarboxylation by facilitating PCET: a theoretical investigation of ChdC. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 16117-16124	3.6	4
79	Hereditary Ataxia: A Focus on Heme Metabolism and Fe-S Cluster Biogenesis. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	8
78	From Synthesis to Utilization: The Ins and Outs of Mitochondrial Heme. <i>Cells</i> , 2020 , 9,	7.9	38
77	Heme Oxygenase-1 in liver transplant ischemia-reperfusion injury: From bench-to-bedside. <i>Free Radical Biology and Medicine</i> , 2020 , 157, 75-82	7.8	21
76	Hc-hrg-2, a glutathione transferase gene, regulates heme homeostasis in the blood-feeding parasitic nematode <i>Haemonchus contortus</i> . <i>Parasites and Vectors</i> , 2020 , 13, 40	4	4
75	Probing Hexaminolevulinat Mediated PpIX Fluorescence in Cancer Cell Suspensions in the Presence of Chemical Adjuvants. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	6

74	Heme, A Metabolic Sensor, Directly Regulates the Activity of the KDM4 Histone Demethylase Family and Their Interactions with Partner Proteins. <i>Cells</i> , 2020 , 9,	7.9	1
73	Functional Genomics Identifies Metabolic Vulnerabilities in Pancreatic Cancer. <i>Cell Metabolism</i> , 2021 , 33, 199-210.e8	24.6	12
72	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	4.9	13
71	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> , 2020 , 109, 1029	3.5	5
70	Nitric oxide and sickle cell disease-Is there a painful connection?. <i>Experimental Biology and Medicine</i> , 2021 , 246, 332-341	3.7	1
69	Using genetically encoded heme sensors to probe the mechanisms of heme uptake and homeostasis in <i>Candida albicans</i> . <i>Cellular Microbiology</i> , 2021 , 23, e13282	3.9	6
68	Strain engineering for high-level 5-aminolevulinic acid production in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2021 , 118, 30-42	4.9	14
67	Broad Spectrum Antibiotic Xanthocillin X Effectively Kills Dysregulation of Heme Biosynthesis. <i>ACS Central Science</i> , 2021 , 7, 488-498	16.8	4
66	Fluorescence-based Heme Quantitation in. <i>Bio-protocol</i> , 2021 , 11, e4063	0.9	
65	Metabolomic Biomarkers for the Detection of Obesity-Driven Endometrial Cancer. <i>Cancers</i> , 2021 , 13,	6.6	6
64	Heme Biosynthesis mRNA Expression Signature: Towards a Novel Prognostic Biomarker in Patients with Diffusely Infiltrating Gliomas. <i>Cancers</i> , 2021 , 13,	6.6	4
63	Innate Immune Memory in Hematopoietic Stem/Progenitor Cells: Myeloid-Biased Differentiation and the Role of Interferon. <i>Frontiers in Immunology</i> , 2021 , 12, 621333	8.4	6
62	How Bacterial Redox Sensors Transmit Redox Signals via Structural Changes. <i>Antioxidants</i> , 2021 , 10,	7.1	2
61	SARS-CoV-2 proteins bind heme and hemoglobin.		2
60	Eudiplozoon nipponicum (Monogenea, Diplozoidae) and its adaptation to haematophagy as revealed by transcriptome and secretome profiling. <i>BMC Genomics</i> , 2021 , 22, 274	4.5	3
59	New insights on microscopic properties of metal-porphyrin complexes attached to quartz crystal sensor. <i>Scientific Reports</i> , 2021 , 11, 8316	4.9	
58	Noise-Induced Vascular Dysfunction, Oxidative Stress, and Inflammation Are Improved by Pharmacological Modulation of the NRF2/HO-1 Axis. <i>Antioxidants</i> , 2021 , 10,	7.1	6
57	Significance of Heme and Heme Degradation in the Pathogenesis of Acute Lung and Inflammatory Disorders. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	6

56	High-Resolution Electron Microscopy Analysis of Malaria Hemozoin Crystals Reveals New Aspects of Crystal Growth and Elemental Composition. <i>Crystal Growth and Design</i> ,	3.5	0
55	Heme Burden and Ensuing Mechanisms That Protect the Kidney: Insights from Bench and Bedside. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	0
54	Core-modified porphyrins: novel building blocks in chemistry. <i>ChemistrySelect</i> , 2021 ,	1.8	0
53	An Analysis of the Multifaceted Roles of Heme in the Pathogenesis of Cancer and Related Diseases. <i>Cancers</i> , 2021 , 13,	6.6	3
52	SARS-CoV-2 Proteins Bind to Hemoglobin and Its Metabolites. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	11
51	An out of box thinking: the changes of iron-porphyrin during meat processing and gastrointestinal tract and some methods for reducing its potential health hazard. <i>Critical Reviews in Food Science and Nutrition</i> , 2021 , 1-16	11.5	3
50	Role of Iron Metabolism-Related Genes in Prenatal Development: Insights from Mouse Transgenic Models. <i>Genes</i> , 2021 , 12,	4.2	1
49	Kidney toxicity of the BRAF-kinase inhibitor vemurafenib is driven by off-target ferrochelatase inhibition. <i>Kidney International</i> , 2021 , 100, 1214-1226	9.9	2
48	New Insights into the Pivotal Role of Iron/Heme Metabolism in TLR4/NF- κ B Signaling-Mediated Inflammatory Responses in Human Monocytes. <i>Cells</i> , 2021 , 10,	7.9	0
47	Electropolymerized 1D Growth Coordination Polymer for Hybrid Electrochromic Aqueous Zinc Battery. <i>Advanced Science</i> , 2021 , 8, e2101944	13.6	6
46	Stressed erythrophagocytosis induces immunosuppression during sepsis through heme-mediated STAT1 dysregulation. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	8
45	Inherited Disorders of Haem Synthesis:. 2009 , 89-100		3
44	Regulation of Mammalian Heme Biosynthesis. 2009 , 116-127		7
43	Hepatic Physiology and Pathophysiology. 2010 , 411-440		3
42	Iron and Heme Metabolism at the Leishmania-Host Interface. <i>Trends in Parasitology</i> , 2020 , 36, 279-289	6.4	11
41	Progress towards the Development of a NEAT Vaccine for Anthrax II: Immunogen Specificity and Alum Effectiveness in an Inhalational Model. <i>Infection and Immunity</i> , 2020 , 88,	3.7	5
40	The mitochondrial heme exporter FLVCR1b mediates erythroid differentiation. <i>Journal of Clinical Investigation</i> , 2012 , 122, 4569-79	15.9	117
39	Crystal structure of Bfr A from Mycobacterium tuberculosis: incorporation of selenomethionine results in cleavage and demetallation of haem. <i>PLoS ONE</i> , 2009 , 4, e8028	3.7	29

38	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	3.7	27
37	Self-cytoprotection against stress: feedback regulation of heme-dependent metabolism. <i>Cell Stress and Chaperones</i> , 2001 , 6, 1-5	4	7
36	Her2 oncogene transformation enhances 5-aminolevulinic acid-mediated protoporphyrin IX production and photodynamic therapy response. <i>Oncotarget</i> , 2016 , 7, 57798-57810	3.3	14
35	Interplay of Heme with Macrophages in Homeostasis and Inflammation. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	15
34	Heme in intestinal epithelial cell turnover, differentiation, detoxification, inflammation, carcinogenesis, absorption and motility. <i>World Journal of Gastroenterology</i> , 2006 , 12, 4281-95	5.6	59
33	Regulation of heme oxygenase expression by alcohol, hypoxia and oxidative stress. <i>World Journal of Biological Chemistry</i> , 2011 , 2, 252-60	3.8	13
32	Deconvoluting heme biosynthesis to target blood-stage malaria parasites. <i>ELife</i> , 2015 , 4,	8.9	36
31	Hemin accumulation and identification of a heme-binding protein clan in K562 cells by proteomic and computational analysis. <i>Journal of Cellular Physiology</i> , 2021 ,	7	0
30	Induction of Apoptosis in Vascular Smooth Muscle Cells by Heme Oxygenase-1-Derived Carbon Monoxide. 2002 , 449-457		
29	Heme Synthesis. 2004 , 362-366		
28	[Accumulation of porphyrins in cells of system of blood induced by 5-aminolaevulinic acid]. <i>Biomeditsinskaya Khimiya</i> , 2011 , 57, 195-200	0.8	
27	Porphyria. 898-907		
26	Bibliography. 377-429		
25	Fe(III) heme sets an activation threshold for processing distinct groups of pri-miRNAs in mammalian cells.		1
24	Using genetically encoded heme sensors to probe the mechanisms of heme uptake and homeostasis in <i>Candida albicans</i> .		
23	Triad role of hepcidin, ferroportin, and Nrf2 in cardiac iron metabolism: From health to disease. <i>Journal of Trace Elements in Medicine and Biology</i> , 2022 , 69, 126882	4.1	1
22	Physical and Physiological Properties of Iron. <i>Advances in Magnetic Resonance Technology and Applications</i> , 2020 , 1, 681-693	0.1	
21	Investigation of Differentiation of Mouse ES Cells. 2007 , 107-130		

20	Delta-aminolevulinatase synthase 2 polymorphism is associated with maximal oxygen uptake after Living-high exercise-high training-low in a male Chinese population. <i>International Journal of Clinical and Experimental Medicine</i> , 2015 , 8, 21617-22		4
19	Near infrared spectroscopy reveals instability in retinal mitochondrial metabolism and haemodynamics with blue light exposure at environmental levels.. <i>Journal of Biophotonics</i> , 2022 , e2916	3.1	0
18	Plasmodium: Vertebrate Host. <i>Microbiology Monographs</i> , 2022 , 199-281		0.8
17	Analysis of Factors Affecting 5-ALA Fluorescence Intensity in Visualizing Glial Tumor Cells-Literature Review.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	2
16	The diversity of heme sensor systems - heme-responsive transcriptional regulation mediated by transient heme protein interactions.. <i>FEMS Microbiology Reviews</i> , 2022 ,	15.1	0
15	Methods to Measure the Inhibition of ABCG2 Transporter and Ferrochelatase Activity to Enhance Aminolevulinic Acid-Protoporphyrin IX Fluorescence-Guided Tumor Detection and Resection.. <i>Methods in Molecular Biology</i> , 2022 , 2394, 823-835	1.4	0
14	Analysis of corticosteroid and antiepileptic drug treatment effects on heme biosynthesis mRNA expression in lower-grade gliomas: potential implications for 5-ALA metabolism.. <i>Photodiagnosis and Photodynamic Therapy</i> , 2022 , 38, 102755	3.5	
13	Loss of Function of mtHsp70 Chaperone Variants Leads to Mitochondrial Dysfunction in Congenital Sideroblastic Anemia.. <i>Frontiers in Cell and Developmental Biology</i> , 2022 , 10, 847045	5.7	1
12	Hsp90 in Human Diseases: Molecular Mechanisms to Therapeutic Approaches.. <i>Cells</i> , 2022 , 11,	7.9	2
11	New Insights into Hemopexin-Binding to Hemin and Hemoglobin.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	0
10	Flumioxazin, a PPO inhibitor: A weight-of-evidence consideration of its mode of action as a developmental toxicant in the rat and its relevance to humans.. <i>Toxicology</i> , 2022 , 153160	4.4	1
9	The synthesis and properties of mitochondrial targeted iron chelators.. <i>BioMetals</i> , 2022 , 1	3.4	0
8	Iron deficiency as emerging therapeutic target in patients stabilized after an episode of acute heart failure.. <i>Cardiology Journal</i> , 2021 ,	1.4	
7	Heme Biosynthesis Factors and 5-ALA Induced Fluorescence: Analysis of mRNA and Protein Expression in Fluorescing and Non-fluorescing Gliomas. <i>Frontiers in Medicine</i> , 2022 , 9,	4.9	1
6	Repression of OATP1B Expression and Increase of Plasma Coproporphyrin Level as Evidence for OATP1B Down-regulation in Cynomolgus Monkeys Treated with Chenodeoxycholic Acid. <i>Drug Metabolism and Disposition</i> , DMD-AR-2022-000875	4	0
5	Regulation of heme utilization and homeostasis in <i>Candida albicans</i> .		
4	Intracellular hemin is a potent inhibitor of the voltage-gated potassium channel Kv10.1. 2022 , 12,		1
3	Folate depletion induces erythroid differentiation through perturbation of de novo purine synthesis.		0

2 Fluorescence in European Owls. **2023**, 60,

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1 Amplifying the efficacy of ALA-based prodrugs for photodynamic therapy using nanotechnology.
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