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Heme oxygenase: function, multiplicity, regulatory mechanisms, and clinical applications

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1564	Differential effects of cyclosporin on hepatic and renal heme, cytochrome P-450 and drug metabolism. Possible role in nephrotoxicity of the drug. 1989 , 38, 1001-7		28
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1560	Developmental Biology of Heme Oxygenase. 1990 , 17, 275-291		43
1559	Erythrophagocytosis induces heat shock protein synthesis by human monocytes-macrophages. 1990 , 87, 1081-5		102
1558	Effect of cis-platinum on heme, drug, and steroid metabolism pathways: possible involvement in nephrotoxicity and infertility. 1990 , 21, 1-20		13
1557	Can serum bilirubin be an index of in vivo oxidative stress?. 1990 , 33, 207-11		15
1556	Induction of haem oxygenase as a defence against oxidative stress. 1990 , 9, 101-12		269
1555	Heme oxygenase-2 mRNA: developmental expression in the rat liver and response to cobalt chloride. 1990 , 282, 340-5		15
1554	Structural studies on bovine spleen heme oxygenase. Immunological and structural diversity among mammalian heme oxygenase enzymes. 1990 , 282, 404-12		9
1553	Zinc protoporphyrin administration for suppression of increased bilirubin production by iatrogenic hemolysis in rhesus neonates. 1990 , 117, 292-7		36
1552	Enhancement of heme oxygenase-1 synthesis by glutathione depletion in Chinese hamster ovary cells. 1991 , 288, 368-73		57

1551	Characterization of a cDNA-encoding rabbit brain heme oxygenase-2 and identification of a conserved domain among mammalian heme oxygenase isozymes: possible heme-binding site? 1991, 290, 336-44	64
1550	Absorption of zinc deuteroporphyrin IX 2,4-bis-glycol by the neonatal rat small intestine in vivo. 1991, 17, 109-15	10
1549	Regulation of ferritin and heme oxygenase synthesis in rat fibroblasts by different forms of iron. 1991, 88, 688-92	280
1548	Biological indicators of cadmium exposure. 1991, 205, 592-9	6
1547	Heterogeneity of haem oxygenase 1 and 2 isoenzymes. Rat and primate transcripts for isoenzyme 2 differ in number and size. 1991, 275 (Pt 1), 159-64	15
1546	Cloning, sequencing and expression of cDNA for chick liver haem oxygenase. Comparison of avian and mammalian cDNAs and deduced proteins. 1991, 273 (Pt 3), 659-66	34
1545	Immunochemical studies of haem oxygenase. Preparation and characterization of antibodies to chick liver haem oxygenase and their use in detecting and quantifying amounts of haem oxygenase protein. 1991, 279 (Pt 3), 849-54	16
1544	Factors involved in the depression of hepatic mixed function oxidase during infections with <i>Listeria monocytogenes</i> . 1991, 13, 197-204	14
1543	Status of hepatic heme and heme oxygenase during <i>Plasmodium yoelii nigeriensis</i> infection in mice. 1991, 55, 55-62	3
1542	Synergistic induction of delta-aminolevulinatase synthase by glutethimide and iron: relationship to the synergistic induction of heme oxygenase. 1991, 1080, 245-51	18
1541	Potential role of free radicals in benzene-induced myelotoxicity and leukemia. 1991, 11, 495-515	112
1540	Increased transcription and translation of heme oxygenase in Chinese hamster fibroblasts following photodynamic stress or Photofrin II incubation. 1991, 53, 275-9	87
1539	Rapid induction of heme oxygenase 1 mRNA and protein by hyperthermia in rat brain: heme oxygenase 2 is not a heat shock protein. 1991, 88, 5364-8	237
1538	Cyclosporin-mediated depression of luteinizing hormone receptors and heme biosynthesis in rat testes: a possible mechanism for decrease in serum testosterone. 1991, 129, 2647-54	118
1537	Comparative effects of tin- and zinc-protoporphyrin on steroidogenesis: tin-protoporphyrin is a potent inhibitor of cytochrome P-450-dependent activities in the rat adrenals. 1992, 31, 196-201	23
1536	Tin-protoporphyrin-mediated disruption in vivo of heme oxygenase-2 protein integrity and activity in rat brain. 1992, 32, 324-9	32
1535	Nitric oxide: first in a new class of neurotransmitters. 1992, 257, 494-6	905
1534	Heme oxygenase: expression in human retina and modulation by stress agents in a human retinoblastoma cell model system. 1992, 11, 153-60	42

1533	In situ hybridization and immunohistochemical localization of heme oxygenase-2 mRNA and protein in normal rat brain: Differential distribution of isozyme 1 and 2. 1992 , 3, 559-70	179
1532	Induction of heat-shock proteins and phagocytic function of chicken macrophage following in vitro heat exposure. 1992 , 30, 179-91	21
1531	Human heme oxygenase-2: characterization and expression of a full-length cDNA and evidence suggesting that the two HO-2 transcripts may differ by choice of polyadenylation signal. 1992 , 295, 13-20	164
1530	Normal and heat-induced patterns of expression of heme oxygenase-1 (HSP32) in rat brain: hyperthermia causes rapid induction of mRNA and protein. 1992 , 58, 1140-9	185
1529	Selective alterations in the patterns of newly synthesized proteins by acetaminophen and its dimethylated analogues in primary cultures of mouse hepatocytes. 1992 , 112, 282-90	10
1528	Rat lung metallothionein and heme oxygenase gene expression following ozone and zinc oxide exposure. 1992 , 117, 75-80	27
1527	Differential regulation of heme oxygenase isozymes by Sn- and Zn-protoporphyrins: possible relevance to suppression of hyperbilirubinemia. 1992 , 1131, 166-74	50
1526	A microassay for heme oxygenase activity using thin-layer chromatography. 1992 , 200, 27-30	18
1525	Bilirubin production and conjugation from newly formed heme in isolated rat hepatocytes. 1992 , 24, 1421-8	2
1524	Induction of heme oxygenase in intestinal epithelial cells: studies in Caco-2 cell cultures. 1993 , 129, 93-8	25
1523	Glutathione depletion induces heme oxygenase-1 (HSP32) mRNA and protein in rat brain. 1993 , 60, 1512-9	168
1522	Biliverdin reductase is heat resistant and coexpressed with constitutive and heat shock forms of heme oxygenase in brain. 1993 , 61, 1015-23	91
1521	Molecular basis for heme-dependent induction of heme oxygenase in primary cultures of chick embryo hepatocytes. Demonstration of acquired refractoriness to heme. 1993 , 213, 909-17	42
1520	Transcriptional control of the heme oxygenase gene during mouse spermatogenesis. 1993 , 217, 633-8	5
1519	Inhibition of hepatic xenobiotic metabolism and of glutathione-dependent enzyme activities by zinc ethylene-bis-dithiocarbamate in the rabbit. 1993 , 73, 233-9	20
1518	A beneficial role of bile pigments as an endogenous tissue protector: anti-complement effects of biliverdin and conjugated bilirubin. 1993 , 1158, 189-93	215
1517	Carbon monoxide: a putative neural messenger. 1993 , 259, 381-4	1418
1516	Synthesis of hsp-70 is enhanced in glutathione-depleted Hep G2 cells. 1993 , 135, 387-93	22

1515	Resonance Raman and EPR spectroscopic studies on heme-heme oxygenase complexes. 1993 , 32, 14151-7	101
1514	Chemistry and biology of heme. Effect of metal salts, organometals, and metalloporphyrins on heme synthesis and catabolism, with special reference to clinical implications and interactions with cytochrome P-450. 1993 , 25, 49-152	55
1513	Selection of metalloporphyrin heme oxygenase inhibitors based on potency and photoreactivity. 1993 , 33, 195-200	140
1512	NADPH-Cytochrome P450 Reductase: Function. 1993 , 15-34	15
1511	Kohlenmonoxid ein Neurotransmitter?. 1993 , 41, 339-339	2
1510	Activation of whole cell currents in isolated human jejunal circular smooth muscle cells by carbon monoxide. 1993 , 264, G1184-9	33
1509	Inhibitory effect of CO on internal anal sphincter: heme oxygenase inhibitor inhibits NANC relaxation. 1993 , 265, G799-804	44
1508	Carbon monoxide stimulates a potassium-selective current in rabbit corneal epithelial cells. 1994 , 267, C435-42	35
1507	Heme oxygenase regulation of and physiological implication in heme catabolism. 1994 , 12, 103-116	7
1506	Heme oxygenase induction. A possible factor in aluminum-associated anemia. 1994 , 40, 9-19	12
1505	Renal antioxidant enzymes: their regulation and function. 1994 , 45, 1-9	127
1504	Light-dependent effects of zinc protoporphyrin IX on endothelium-dependent relaxation resistant to N omega-nitro-L-arginine. 1994 , 152, 137-43	36
1503	Mitochondrial biogenesis in striated muscle. 1994 , 19, 12-48	34
1502	Carbon monoxide modulates secretion of corticotropin-releasing factor from rat hypothalamic cell cultures. 1994 , 646, 315-8	42
1501	Reduction of depolarization-induced glutamate release by heme oxygenase inhibitor: possible role of carbon monoxide in synaptic transmission. 1994 , 166, 131-4	50
1500	Hemeoxygenase expression after reversible ischemia of rat brain. 1994 , 180, 5-8	68
1499	Identification of histidine 25 as the heme ligand in human liver heme oxygenase. 1994 , 33, 13734-40	112
1498	Heme-heme oxygenase complex: structure and properties of the catalytic site from resonance Raman scattering. 1994 , 33, 5531-8	95

1497	Molecular Studies Relevant to Radiation Oncology: A Radiation Study Section Workshop: Taos, New Mexico, February 12, 1994. 1994 , 140, 143	2
1496	Mechanisms of endotoxin-induced haem oxygenase mRNA accumulation in mouse liver: synergism by glutathione depletion and protection by N-acetylcysteine. 1994 , 304 (Pt 2), 477-83	98
1495	Regulation of c-jun expression during hypoxic and low-glucose stress. 1994 , 14, 5032-42	99
1494	Guanylyl cyclase receptors. 1994 , 5, 1-5	92
1493	Differential localization of heme oxygenase and NADPH-diaphorase in spinal cord neurons. 1995 , 6, 973-6	39
1492	Induction by prostaglandin A1 of haem oxygenase in myoblastic cells: an effect independent of expression of the 70 kDa heat shock protein. 1995 , 308 (Pt 2), 455-63	38
1491	Characterization and Use of Isolated Toadfish Hepatocytes for Studies of Heme Synthesis and Utilization. 1995 , 189, 227-228	3
1490	Modulation of cellular antioxidant defense activities by sodium arsenite in human fibroblasts. 1995 , 69, 498-504	132
1489	Inhaled cigarette smoke selectively reverses human hypoxic vasoconstriction. 1995 , 21, 941-4	10
1488	Induction of heme oxygenase in toxic renal injury: a protective role in cisplatin nephrotoxicity in the rat. 1995 , 48, 1298-307	210
1487	Porphyrin concentrations in various human tissues. 1995 , 4, 218-20	11
1486	The role of carbon monoxide in lucigenin-dependent chemiluminescence of rat alveolar macrophages. 1995 , 289, 103-7	24
1485	Immunohistochemical localization of biliverdin reductase in rat brain: age related expression of protein and transcript. 1995 , 672, 29-41	28
1484	Evidence for oxidative stress in Pick disease and corticobasal degeneration. 1995 , 696, 268-71	70
1483	A sensitive microassay reveals marked regional differences in the capacity of rat brain to generate carbon monoxide. 1995 , 694, 246-52	18
1482	Factors Influencing Metal Toxicity. 1995 , 31-45	7
1481	Direct demonstration of a physiological role for carbon monoxide in olfactory receptor neurons. 1995 , 15, 8214-22	94
1480	Selective increase of rat lung cytochrome P450 1A1 dependent monooxygenase activity after acute sodium arsenite administration. 1995 , 73, 153-8	11

1479	Identification of a cis-regulatory element for delta 12-prostaglandin J2-induced expression of the rat heme oxygenase gene. <i>Journal of Biological Chemistry</i> , 1995 , 270, 21779-84	5-4	38
1478	Hemoglobin provides protection against lethal endotoxemia in rats: the role of heme oxygenase-1. 1995 , 13, 595-601		283
1477	Multiple transcripts encoding heme oxygenase-2 in rat testis: developmental and cell-specific regulation of transcripts and protein. 1995 , 53, 1330-8		33
1476	Heme oxygenase-2. Properties of the heme complex of the purified tryptic fragment of recombinant human heme oxygenase-2. <i>Journal of Biological Chemistry</i> , 1995 , 270, 6345-50	5-4	60
1475	Expression and characterization of truncated human heme oxygenase (hHO-1) and a fusion protein of hHO-1 with human cytochrome P450 reductase. 1995 , 34, 4421-7		111
1474	Hippocampal long-term potentiation is normal in heme oxygenase-2 mutant mice. 1995 , 15, 867-73		167
1473	The cellular Na ⁺ pump as a site of action for carbon monoxide and glutamate: a mechanism for long-term modulation of cellular activity. 1995 , 14, 781-94		201
1472	Retrograde messengers, long-term potentiation and memory. 1995 , 21, 185-94		110
1471	Differential expression of heme oxygenase-1 in cultured cortical neurons and astrocytes determined by the aid of a new heme oxygenase antibody. Response to oxidative stress. 1995 , 30, 37-47		120
1470	Messenger RNAs encoding steroidogenic enzymes are expressed in rodent brain. 1995 , 34, 75-88		132
1469	Temporalspatial patterns of expression of metallothionein-I and -III and other stress related genes in rat brain after kainic acid-induced seizures. 1995 , 27, 59-71		79
1468	Induction of heme oxygenase-1 (HO-1) after traumatic brain injury in the rat. 1995 , 199, 127-30		66
1467	Induction of the antioxidant stress proteins heme oxygenase-1 and MSP23 by stress agents and oxidised LDL in cultured vascular smooth muscle cells. 1995 , 368, 239-42		71
1466	Involvement of protein kinase in delta 12-prostaglandin J2-induced expression of rat heme oxygenase-1 gene. 1995 , 372, 279-82		16
1465	Heme oxygenase and related indices in chloroquine-resistant and -sensitive strains of <i>Plasmodium berghei</i> . 1995 , 25, 1061-4		21
1464	Gases as Chemical Messengers in the Carotid Body. 1995 , 309-312		7
1463	The cellular reactions to experimental intracerebral hemorrhage. 1995 , 134 Suppl, 102-112		89
1462	Metals and Stress Proteins. 1995 , 229-266		8

1461	Intravenous manganese-mesoporphyrin as a magnetic resonance imaging contrast agent: an experimental model using VX-2 carcinoma in rabbits. 1995 , 2, 43-9	10
1460	Pharmacological identification of different inhibitory mediators involved in the innervation of the internal anal sphincter. 1995 , 115, 158-62	15
1459	Inhibition by zinc protoporphyrin-IX of receptor-mediated relaxation of the rat aorta in a manner distinct from inhibition of haem oxygenase. 1995 , 115, 186-90	33
1458	Heme oxygenase-1: function, regulation, and implication of a novel stress-inducible protein in oxidant-induced lung injury. 1996 , 15, 9-19	983
1457	Localization and activity of haem oxygenase and functional effects of carbon monoxide in the feline lower oesophageal sphincter. 1996 , 118, 392-9	49
1456	Localization of heme oxygenase in rat retina: effect of light adaptation. 1996 , 205, 13-6	17
1455	Heme oxygenase-1 (HO-1) protein induction in rat brain following focal ischemia. 1996 , 37, 201-8	130
1454	Transient induction of heme oxygenase after cortical stab wound injury. 1996 , 38, 251-9	35
1453	Regulation of metallothionein gene expression. Studies in transfected primary cultures of chick embryo liver cells. 1996 , 78, 236-44	5
1452	Reduced cytochrome P450 and increased heme oxygenase in liver during rabbit aflatoxicosis. 1996 , 58, 1883-9	7
1451	Differential regulation of cardiac heme oxygenase-1 and vascular endothelial growth factor mRNA expressions by hemin, heavy metals, heat shock and anoxia. 1996 , 382, 229-33	82
1450	A precursor of the nitric oxide donor SIN-1 modulates the stress protein heme oxygenase-1 in rat liver. 1996 , 225, 167-72	54
1449	Expression of heme oxygenase-2 (HO-2)-like immunoreactivity in rat tissues. 1996 , 98, 203-14	49
1448	Glycooxidation and oxidative stress in Parkinson disease and diffuse Lewy body disease. 1996 , 737, 195-200	262
1447	Carbon monoxide: an endogenous modulator of the nitric oxide-cyclic GMP signaling system. 1996 , 16, 835-42	222
1446	Heme-Containing Oxygenases. 1996 , 96, 2841-2888	2066
1445	Overexpression of heme oxygenase-1 in human pulmonary epithelial cells results in cell growth arrest and increased resistance to hyperoxia. 1996 , 93, 10393-8	322
1444	The regulation of heme turnover and carbon monoxide biosynthesis in cultured primary rat olfactory receptor neurons. 1996 , 16, 5621-8	70

1443	Cloning and sequencing of mouse complementary DNA for heme oxygenase-2. 1996 , 120, 1079-81	3
1442	Microvascular & Endothelial with Smooth Muscle. 1996 , 491, 5-47	
1441	The Phytochrome-Deficient pcd1 Mutant of Pea Is Unable to Convert Heme to Biliverdin IXa. 1996 , 8, 55	32
1440	Carbon monoxide and nitric oxide homology: differential modulation of heme oxygenases in brain and detection of protein and activity. 1996 , 268, 473-88	62
1439	The methylotrophic yeast <i>Pichia pastoris</i> synthesizes a functionally active chromophore precursor of the plant photoreceptor phytochrome. 1996 , 93, 8989-94	35
1438	The possible role of hydrogen sulfide as an endogenous neuromodulator. 1996 , 16, 1066-71	1655
1437	Preimplantation mouse blastocysts fail to express CYP genes required for estrogen biosynthesis. 1996 , 43, 428-36	40
1436	Heme-oxygenase-1 induction in glia throughout rat brain following experimental subarachnoid hemorrhage. 1996 , 713, 211-22	150
1435	Corticosterone promotes increased heme oxygenase-2 protein and transcript expression in the newborn rat brain. 1996 , 722, 83-94	60
1434	Induction of heme oxygenase-1 (HO-1) in glia after traumatic brain injury. 1996 , 736, 68-75	112
1433	Superoxide, NO and CO in liver microcirculation: Physiology and pathophysiology. 1996 , 3, 154-160	1
1432	Oxidative posttranslational modifications in Alzheimer disease. A possible pathogenic role in the formation of senile plaques and neurofibrillary tangles. 1996 , 28, 41-8	56
1431	Hepatic 5-aminolevulinic acid synthase mRNA stability is modulated by inhibitors of heme biosynthesis and by metalloporphyrins. 1996 , 240, 112-7	15
1430	2,4-dioxygenases catalyzing N-heterocyclic-ring cleavage and formation of carbon monoxide. Purification and some properties of 1H-3-hydroxy-4-oxoquinaldine 2,4-dioxygenase from <i>Arthrobacter</i> sp. RB1a and comparison with 1H-3-hydroxy-4-oxoquinoline 2,4-dioxygenase from <i>Pseudomonas putida</i> 33/1. 1996 , 240, 576-83	50
1429	Advanced glycosylation end-products and heat shock proteins accumulate in the basophilic degeneration of the myocardium and the corpora amylacea of the glia. 1996 , 46, 757-63	20
1428	Cloning and characterization of the cDNA encoding human biliverdin-IX alpha reductase. 1996 , 1309, 89-99	18
1427	Quantitative measurement of heme oxygenase-1 in the human renal adenocarcinoma. 1996 , 63, 342-348	12
1426	Oscillations and gaseous oxides in invertebrate olfaction. 1996 , 30, 110-22	45

1425	Coordinated expression of heme oxygenase-1 and ubiquitin in the porcine heart subjected to ischemia and reperfusion. 1996 , 157, 111-6		53
1424	Heme oxygenase: a novel target for the modulation of the inflammatory response. 1996 , 2, 87-90		707
1423	Oxidative stress activates metal-responsive transcription factor-1 binding activity. Occupancy in vivo of metal response elements in the metallothionein-I gene promoter. <i>Journal of Biological Chemistry</i> , 1996 , 271, 26233-41	5-4	197
1422	The Phytochrome-Deficient pcd1 Mutant of Pea Is Unable to Convert Heme to Biliverdin IX[alpha]. 1996 , 8, 55-67		42
1421	Induction of heme oxygenase in mammalian cells by mineral fibers: distinctive effect of reactive oxygen species. 1996 , 17, 661-7		21
1420	Characterization of porphyrin heme oxygenase inhibitors. 1996 , 74, 278-285		25
1419	Evolution and overview of classical transmitter molecules and their receptors. 1996 , 113 Suppl, S3-33		96
1418	Regulation of heme oxygenase-1 expression in vivo and in vitro in hyperoxic lung injury. 1996 , 14, 556-68		188
1417	Biomarker protein expression in primary cultures of salmon (<i>Salmo salar</i> L.) hepatocytes exposed to environmental pollutants. 1996 , 1, 45-53		55
1416	Focal hyperexpression of hemeoxygenase-1 protein and messenger RNA in rat brain caused by cellular stress following subarachnoid injections of lysed blood. 1996 , 85, 892-900		42
1415	Relation between antioxidant enzyme gene expression and antioxidative defense status of insulin-producing cells. 1997 , 46, 1733-42		929
1414	Increased carbon monoxide in exhaled air of asthmatic patients. 1997 , 156, 1140-3		246
1413	Aryl hydrocarbon receptor-dependent induction of cyp1a1 by bilirubin in mouse hepatoma hepa 1c1c7 cells. 1997 , 52, 590-9		204
1412	Heme oxygenase-mediated resistance to oxygen toxicity in hamster fibroblasts. <i>Journal of Biological Chemistry</i> , 1997 , 272, 14937-42	5-4	115
1411	Thiol compounds interact with nitric oxide in regulating heme oxygenase-1 induction in endothelial cells. Involvement of superoxide and peroxynitrite anions. <i>Journal of Biological Chemistry</i> , 1997 , 272, 18411-7	5-4	250
1410	Targeted gene deletion of heme oxygenase 2 reveals neural role for carbon monoxide. 1997 , 94, 14848-53		221
1409	Cloning and overexpression of rat kidney biliverdin IX alpha reductase as a fusion protein with glutathione S-transferase: stereochemistry of NADH oxidation and evidence that the presence of the glutathione S-transferase domain does not effect BVR-A activity. 1997 , 328 (Pt 1), 33-6		11
1408	Heme oxygenase-1, intermediates in verdoheme formation and the requirement for reduction equivalents. <i>Journal of Biological Chemistry</i> , 1997 , 272, 6909-17	5-4	95

1407	Chapter 23 Guanylyl cyclases as signal transducing enzymes. 1997 , 7, 531-540	
1406	Histidine-132 does not stabilize a distal water ligand and is not an important residue for the enzyme activity in heme oxygenase-1. 1997 , 36, 4909-15	49
1405	Resonance Raman spectroscopic characterization of alpha-hydroxyheme and verdoheme complexes of heme oxygenase. 1997 , 36, 1402-10	37
1404	Effects of vitamin E deficiency and glutathione depletion on stress protein heme oxygenase 1 mRNA expression in rat liver and kidney. 1997 , 54, 1081-6	8
1403	Interrelation between nitric oxide synthase and heme oxygenase in rat endothelial cells. 1997 , 331, 87-91	19
1402	Dose-related increase in liver heme catabolism during rabbit aflatoxicosis. 1997 , 92, 101-8	4
1401	Novel regulation of delta-aminolevulinate synthase in the rat harderian gland. 1997 , 53, 643-50	16
1400	Comparative nutrition of iron and copper. 1997 , 17, 501-26	48
1399	The heme oxygenase system: a regulator of second messenger gases. 1997 , 37, 517-54	2185
1398	High levels of recombinant CYP3A4 expression in Chinese hamster ovary cells are modulated by coexpressed human P450 reductase and hemin supplementation. 1997 , 348, 403-10	30
1397	The possible role of hydrogen sulfide as an endogenous smooth muscle relaxant in synergy with nitric oxide. 1997 , 237, 527-31	977
1396	Roles of heme oxygenase/carbon monoxide system in genetically hypertensive rats. 1997 , 241, 574-8	32
1395	Cooperative induction of c-fos and heme oxygenase gene products under oxidative stress in human fibroblastic cells. 1997 , 237, 434-44	26
1394	Heme oxygenase synthesis is induced in cultured lens epithelium by hyperbaric oxygen or puromycin. 1997 , 65, 435-43	27
1393	Heme oxygenase-dependent carbon monoxide production is a hepatic adaptive response to sepsis. 1997 , 71, 7-12	33
1392	Impact of alloimmunity on chronic tissue remodelling: role of cytokines and protective genes in the vessel wall. 1997 , 5, 277-81	3
1391	Non-adrenergic non-cholinergic (NANC) transmission to smooth muscle: 35 years on. 1997 , 52, 159-95	53
1390	Activation of the chicken metallothionein promoter by metals and oxidative stress in cultured cells and transgenic mice. 1997 , 116, 75-86	21

1389	Heme Oxygenase-1 and Heat Shock Protein 70 Induction in Glia and Neurons throughout Rat Brain after Experimental Intracerebral Hemorrhage. 1997 ,	
1388	Induction of heme oxygenase-1 (HSP32) mRNA in skeletal muscle following contractions. 1997 , 272, C59-67	55
1387	Carbon monoxide-induced relaxation and distribution of haem oxygenase isoenzymes in the pig urethra and lower oesophagogastric junction. 1997 , 120, 312-8	53
1386	Bilirubin oxidation provoked by endotoxin treatment is suppressed by feeding ascorbic acid in a rat mutant unable to synthesize ascorbic acid. 1997 , 245, 233-40	28
1385	Cross-linking of vitreous collagen and degradation of hyaluronic acid induced by bilirubin-sensitized photochemical reaction. 1997 , 41, 154-9	13
1384	Regulation of expression of the human heme oxygenase-1 gene in transfected chick embryo liver cell cultures. 1997 , 1352, 293-302	22
1383	The pathogenetic role of heme in pregnancy-induced hypertension-like disease in ewes. 1997 , 62, 58-64	11
1382	Mechanism of induction of heme oxygenase by metalloporphyrins in primary chick embryo liver cells: evidence against a stress-mediated response. 1997 , 169, 13-20	18
1381	Theophylline protects against glycerol-induced acute renal failure: Regulation of heme oxygenase-1 and glutathione in rat kidney. 1997 , 1, 204-211	1
1380	Heme oxygenase activity and acute and chronic ethanol exposure in the hippocampus, frontal cerebral cortex, and cerebellum of the near-term fetal guinea pig. 1997 , 14, 117-24	6
1379	Liver metabolism of porphyrins and haem. 1998 , 13, 324-9	19
1378	Bronchodilatation in vivo by carbon monoxide, a cyclic GMP related messenger. 1998 , 124, 1065-8	31
1377	Carbon monoxide is a major contributor to the regulation of vascular tone in aortas expressing high levels of haeme oxygenase-1. 1998 , 125, 1437-44	188
1376	Heme oxygenase-1 is induced in glia throughout brain by subarachnoid hemoglobin. 1998 , 18, 257-73	135
1375	Induction of heme oxygenase-1 and major histocompatibility complex antigens in transient forebrain ischemia. 1998 , 18, 824-32	29
1374	Induction of heme oxygenase-1 after hyperosmotic opening of the blood-brain barrier. 1998 , 780, 108-18	54
1373	Involvement of the endothelin receptor subtype A in neuronal pathogenesis after traumatic brain injury. 1998 , 809, 39-49	49
1372	Heme oxygenase and nitric oxide synthase in the placenta of the guinea-pig during gestation. 1998 , 19, 509-16	42

1371	4-Aminoquinolines--past, present, and future: a chemical perspective. 1998 , 77, 29-58	213
1370	Cellular mechanisms of resistance to chronic oxidative stress. 1998 , 24, 1375-89	128
1369	The hepatic circulation in health and disease: report of a single-topic symposium. 1998 , 27, 279-88	58
1368	Kupffer cell depletion partially prevents hepatic heme oxygenase 1 messenger RNA accumulation in systemic inflammation in mice: role of interleukin 1beta. 1998 , 27, 703-10	52
1367	Expression pattern of heme oxygenase isoenzymes 1 and 2 in normal and stress-exposed rat liver. 1998 , 27, 829-38	149
1366	Der bakterielle Abbau von Chinolin und seinen Derivaten [Abbauege und Biokatalysatoren. 1998 , 110, 596-617	3
1365	In vitro and in vivo induction of heme oxygenase-1 in rat glial cells: Possible involvement of nitric oxide production from inducible nitric oxide synthase. 1998 , 22, 138-148	61
1364	Alzheimer's disease--synergistic effects of glucose deficit, oxidative stress and advanced glycation endproducts. 1998 , 105, 439-61	212
1363	A regulatory role for carbon monoxide in mast cell function. 1998 , 47 Suppl 1, S7-8	13
1362	Acute phencyclidine neurotoxicity in rat forebrain: induction of haem oxygenase-1 and attenuation by the antioxidant dimethylthiourea. 1998 , 10, 3840-52	28
1361	Heme oxygenase is induced in nephrotoxic nephritis and hemin, a stimulator of heme oxygenase synthesis, ameliorates disease. 1998 , 53, 672-8	82
1360	Induction of heme oxygenase in fish by heavy metals, phenylhydrazine and high lipid diets. 1998 , 46, 559-561	4
1359	Heme oxygenase induction by UVA radiation. A response to oxidative stress in rat liver. 1998 , 30, 285-92	41
1358	Management of acute attacks in the porphyrias. 1998 , 16, 299-306	19
1357	Heme oxygenase isozymes in bone: induction of HO-1 mRNA following physiological levels of mechanical loading in vivo. 1998 , 23, 433-6	9
1356	Induction of inducible nitric oxide synthase and heme oxygenase-1 in rat glial cells. 1998 , 62, 1717-21	50
1355	Differential regulation of hepatic arterial and portal venous vascular resistance by nitric oxide and carbon monoxide in rats. 1998 , 62, 2025-33	63
1354	Basic science aspects of chronic rejection: induction of protective genes to prevent development of transplant arteriosclerosis. 1998 , 30, 1585-9	6

1353	Heme oxygenase 2 is present in interstitial cell networks of the mouse small intestine. 1998 , 114, 239-44	70
1352	Hemoglobin Structure and Function. 1998 , 17, 1-40	42
1351	A high expression of heme oxygenase-1 in the liver of LEC rats at the stage of hepatoma: the possible implication of induction in uninvolved tissue. 1998 , 28, 383-91	13
1350	Solution 1H NMR Investigation of the Molecular and Electronic Structure of the Active Site of Substrate-Bound Human Heme Oxygenase: the Nature of the Distal Hydrogen Bond Donor to Bound Ligands. 1998 , 120, 8875-8884	45
1349	Heme oxygenase active-site residues identified by heme-protein cross-linking during reduction of CBrCl ₃ . 1998 , 37, 2889-96	28
1348	Altered activities of transcription factors and their related gene expression in cardiac tissues of diabetic rats. 1998 , 47, 1318-25	66
1347	Effect of heme oxygenase inhibitors on soluble guanylyl cyclase activity. 1998 , 359, 8-16	47
1346	Heme oxygenase in the experimental ALS mouse. 1998 , 150, 206-12	13
1345	Stress (heat shock) proteins: molecular chaperones in cardiovascular biology and disease. 1998 , 83, 117-32	737
1344	Induction of heme oxygenase-1 in toxic renal injury: mercuric chloride-induced acute renal failure in rat. 1998 , 94, 57-64	20
1343	Increased carbon monoxide in exhaled air of subjects with upper respiratory tract infections. 1998 , 158, 311-4	99
1342	Identification of histidine 45 as the axial heme iron ligand of heme oxygenase-2. <i>Journal of Biological Chemistry</i> , 1998 , 273, 4317-22	5-4 20
1341	Metallothionein induction in response to restraint stress. Transcriptional control, adaptation to stress, and role of glucocorticoid. <i>Journal of Biological Chemistry</i> , 1998 , 273, 27904-10	5-4 59
1340	Heme oxygenase-1-derived carbon monoxide contributes to the suppression of acute hypertensive responses in vivo. 1998 , 83, 568-77	252
1339	Role of nitric oxide and carbon monoxide in modulating the ACTH response to immune and nonimmune signals. 1998 , 5, 203-13	41
1338	The oxygen and carbon monoxide reactions of heme oxygenase. <i>Journal of Biological Chemistry</i> , 1998 , 273, 945-9	5-4 64
1337	Nitric oxide and carbon monoxide in the brain pathology of heat stress. 1998 , 115, 297-333	64
1336	Involvement of the tyrosine phosphorylation pathway in induction of human heme oxygenase-1 by hemin, sodium arsenite, and cadmium chloride. 1998 , 124, 628-33	55

1335	Effect of the heme/heme oxygenase pathway on the relationship between salt consumption and blood pressure. 1998 , 16, 1965-9	8
1334	Transcriptional activation of the haem oxygenase-1 gene by cGMP via a cAMP response element/activator protein-1 element in primary cultures of rat hepatocytes. 1998 , 334 (Pt 1), 141-6	112
1333	Calcium-sensitive particulate guanylyl cyclase as a modulator of cAMP in olfactory receptor neurons. 1998 , 18, 3195-205	57
1332	The rat heme oxygenase-1 gene is transcriptionally induced via the protein kinase A signaling pathway in rat hepatocyte cultures. 1998 , 53, 483-91	71
1331	Induction of ferritin and heme oxygenase-1 by endotoxin in the lung. 1998 , 275, L583-92	38
1330	Heme oxygenase-1 induction in skeletal muscle cells: hemin and sodium nitroprusside are regulators in vitro. 1998 , 275, C1087-94	59
1329	Interactive toxicity and stress protein expression by vinylidene chloride and monochloroacetate in precision-cut rat liver slices. 1998 , 106 Suppl 6, 1319-23	3
1328	Distribution of heme oxygenase and effects of exogenous carbon monoxide in canine jejunum. 1998 , 274, G350-8	24
1327	Carbon monoxide as a novel mediator of the febrile response in the central nervous system. 1999 , 277, R499-507	18
1326	Carbon monoxide induces vasodilation and nitric oxide release but suppresses endothelial NOS. 1999 , 277, F882-9	123
1325	Differential signaling pathways of HO-1 gene expression in pulmonary and systemic vascular cells. 1999 , 277, L1133-41	38
1324	Carbon monoxide overproduced by heme oxygenase-1 causes a reduction of vascular resistance in perfused rat liver. 1999 , 277, G1088-96	19
1323	Zinc Protoporphyrin: A Metabolite with a Mission. 1999 , 45, 2060-2072	198
1322	Iron regulates hyperoxia-dependent human heme oxygenase 1 gene expression in pulmonary endothelial cells. 1999 , 20, 797-804	56
1321	Protective effects of heme oxygenase-1 against oxidant-induced injury in the cultured human tracheal epithelium. 1999 , 21, 428-35	47
1320	Neurochemical substances in neurons of the canine intrinsic laryngeal muscles. 1999 , 119, 267-70	7
1319	Induction of metallothionein and heme oxygenase in rats after inhalation of endotoxin. 1999 , 56, 183-203	13
1318	Serum malondialdehyde concentration in babies with hyperbilirubinaemia. 1999 , 80, F235-7	23

1317	Induction of heme oxygenase-1 suppresses venular leukocyte adhesion elicited by oxidative stress: role of bilirubin generated by the enzyme. 1999 , 85, 663-71		323
1316	Heme degradation as catalyzed by a recombinant bacterial heme oxygenase (Hmu O) from <i>Corynebacterium diphtheriae</i> . <i>Journal of Biological Chemistry</i> , 1999 , 274, 21319-25	5-4	61
1315	Platelet-derived growth factor stimulates heme oxygenase-1 gene expression and carbon monoxide production in vascular smooth muscle cells. 1999 , 19, 2666-72		61
1314	The heme complex of Hmu O, a bacterial heme degradation enzyme from <i>Corynebacterium diphtheriae</i> . Structure of the catalytic site. <i>Journal of Biological Chemistry</i> , 1999 , 274, 24490-6	5-4	38
1313	Hemin and carbon monoxide modulate the immunological response of human basophils. 1999 , 118, 259-60		9
1312	Induction of heme oxygenase-1 with hemoglobin depresses vasoreactivity in rat aorta. 1999 , 36, 114-9		11
1311	The heme oxygenase pathway and its interaction with nitric oxide in the control of cellular homeostasis. 1999 , 31, 459-75		230
1310	Hepatotoxicity of tetrabromobisphenol-A: effects of repeated dosage in rats. 2000 , 142, 87-95		63
1309	Modulation of the immunological response of guinea pig mast cells by carbon monoxide. 1999 , 43, 65-73		32
1308	Increased carbon monoxide in exhaled air of patients with seasonal allergic rhinitis. 1999 , 29, 1537-41		46
1307	Nitric oxide induces heme oxygenase-1 gene expression in mesangial cells. 1999 , 55, 1734-9		66
1306	Haem oxygenase-1 prevents cell death by regulating cellular iron. 1999 , 1, 152-7		448
1305	Phosphorylation of c-Jun and its localization with heme oxygenase-1 and cyclooxygenase-2 in CA1 pyramidal neurons after transient forebrain ischemia. 1999 , 19, 1247-55		42
1304	Induction of stress proteins in rat cardiac myocytes by antimony. 1999 , 159, 91-7		11
1303	Soluble guanylyl cyclase: structure and regulation. 1999 , 135, 41-65		97
1302	Modulation of the immunological activation of human basophils by carbon monoxide. 1999 , 48 Suppl 1, S11-2		4
1301	Induction of inducible heme oxygenase (HO-1) in the central nervous system: is HO-1 helpful or harmful?. 1999 , 1, 113-7		7
1300	Distribution of heme oxygenase 2 in nerves and c-kit(+) interstitial cells in human stomach. 1999 , 112, 317-22		24

1299	Hemozoin stability and dormant induction of heme oxygenase in hemozoin-fed human monocytes. 1999 , 100, 61-72	33
1298	Positive and negative regulation of the human heme oxygenase-1 gene expression in cultured cells. 1999 , 1447, 231-5	30
1297	Molecular oxygen oxidizes the porphyrin ring of the ferric alpha-hydroxyheme in heme oxygenase in the absence of reducing equivalent. 1999 , 1432, 203-13	27
1296	Role of carbon monoxide in L-glutamate-induced cardiovascular responses in nucleus tractus solitarius of conscious rats. 1999 , 824, 147-52	25
1295	Expression of the antioxidant stress protein heme oxygenase-1 (HO-1) in human leukocytes. 1999 , 26, 184-92	64
1294	Cyclooxygenase dependent release of heme from microsomal heme proteins correlates with induction of heme oxygenase 1 transcription in human fibroblasts. 1999 , 26, 511-7	37
1293	Heme oxygenase: who needs it?. 1999 , 222, 299-305	74
1292	Increased heme oxygenase-1 gene expression in liver cells and splanchnic organs from portal hypertensive rats. 1999 , 29, 1672-9	97
1291	Carbon monoxide-mediated alterations in paracellular permeability and vesicular transport in acetaminophen-treated perfused rat liver. 1999 , 30, 160-8	27
1290	Up-regulation of heme-binding protein 23 (HBP23) gene expression by lipopolysaccharide is mediated via a nitric oxide-dependent signaling pathway in rat Kupffer cells. 1999 , 30, 118-27	38
1289	Protective role of heme oxygenase-1 in oxidative stress-induced neuronal injury. 1999 , 56, 652-8	126
1288	Heme oxygenase, carbon monoxide, and interstitial cells of Cajal. 1999 , 47, 321-4	30
1287	An integrated pharmacokinetic and pharmacodynamic study of arsenite action. 1. Heme oxygenase induction in rats. 1999 , 19, 385-402	40
1286	Stress Proteins. 1999 ,	8
1285	Mechanistic Studies of the Inactivation of Inducible Nitric Oxide Synthase by N5-(1-Iminoethyl)-L-ornithine (L-NIO). 1999 , 121, 903-916	26
1284	Detection of heme oxygenase 1 and 2 proteins and bilirubin formation. 2001 , Chapter 9, Unit 9.3	4
1283	Circadian Locomotor Rhythms in Mice with Targeted Disruption of the Gene for the Carbon Monoxide Synthesizing Enzyme, Heme Oxygenase-2. 1999 , 30, 282-289	
1282	Corpora-amylacea and the family of polyglucosan diseases. 1999 , 29, 265-95	189

1281	Anti-oxidants prevent focal rat brain injury as assessed by induction of heat shock proteins (HSP70, HO-1/HSP32, HSP47) following subarachnoid injections of lysed blood. 1999 , 65, 87-102	88
1280	Regulation of heme oxygenase-1 expression by dopamine in cultured C6 glioma and primary astrocytes. 1999 , 73, 50-9	31
1279	Induction of heme oxygenase produces load-independent cardioprotective effects in hypertensive rats. 1999 , 65, 1077-86	22
1278	Expression of heme oxygenase-1 mediated by non-NMDA and metabotropic receptors in glial cells: possible involvement of reactive oxygen species production and protein kinase C activation. 1999 , 38, 825-34	19
1277	Heme binding and polymerization by Plasmodium falciparum histidine rich protein II: influence of pH on activity and conformation. 1999 , 459, 267-71	54
1276	CO-LOCALIZATION OF CARBON MONOXIDE AND NITRIC OXIDE SYNTHESIZING ENZYMES IN THE HUMAN URETHRAL SPHINCTER. 1999 , 161, 1968-1972	45
1275	Recent advances in the vascular pathophysiology of heme oxygenase-carbon monoxide system. 1999 , 6, 143-148	
1274	Replacement of the proximal histidine iron ligand by a cysteine or tyrosine converts heme oxygenase to an oxidase. 1999 , 38, 3733-43	98
1273	Hemoxygenase and nitric oxide synthase do not maintain human uterine quiescence during pregnancy. 1999 , 155, 831-40	27
1272	Chamber-specific regulation of heme oxygenase-1 (heat shock protein 32) in right-sided congestive heart failure. 1999 , 31, 1581-9	38
1271	Crystallization and preliminary X-ray diffraction analysis of a recombinant bacterial heme oxygenase (Hmu O) from Corynebacterium diphtheriae. 1999 , 126, 171-4	15
1270	MAP kinase-independent induction of proto-oncogene c-fos mRNA by hemin in human cells. 1999 , 260, 289-95	6
1269	Balloon injury does not induce heme oxygenase-1 expression, but administration of hemin inhibits neointimal formation in balloon-injured rat carotid artery. 1999 , 261, 302-7	58
1268	Induction of haem oxygenase contributes to the synthesis of pro-inflammatory cytokines in re-oxygenated rat macrophages: role of cGMP. 1999 , 11, 326-33	31
1267	Overview of heme degradation pathway. 2001 , Chapter 9, Unit 9.1	5
1266	Peroxynitrite induces haem oxygenase-1 in vascular endothelial cells: a link to apoptosis. 1999 , 339, 729	77
1265	Exhaled carbon monoxide levels during treatment of acute asthma. 1999 , 13, 757-60	70
1264	Peroxynitrite induces haem oxygenase-1 in vascular endothelial cells: a link to apoptosis. 1999 , 339, 729-736	164

1263	Oxidative stress causes enhanced endothelial cell injury in human heme oxygenase-1 deficiency. 1999 , 103, 129-35	1002
1262	Carbon monoxide: from toxin to endogenous modulator of cardiovascular functions. 1999 , 32, 1-14	69
1261	Vascular Events After Spinal Cord Injury: Contribution to Secondary Pathogenesis. 2000 , 80, 673-687	286
1260	Studies on the specificity of the tetrapyrrole substrate for human biliverdin-IXalpha reductase and biliverdin-IXbeta reductase. Structure-activity relationships define models for both active sites. <i>Journal of Biological Chemistry</i> , 2000 , 275, 19009-17	5-4 24
1259	Modulatory effects of carbon monoxide on baroreflex activation in nucleus tractus solitarii of rats. 2000 , 35, 1253-7	25
1258	Oxidative stress, antioxidants, and Alzheimer disease. 2000 , 14 Suppl 1, S62-6	63
1257	Structural evidence of genomic exon-deletion mediated by Alu-Alu recombination in a human case with heme oxygenase-1 deficiency. 2000 , 16, 178-9	24
1256	The heme oxygenase-carbon monoxide system: a regulator of hepatobiliary function. 2000 , 31, 3-6	115
1255	Doxorubicin preconditioning: a protection against rat hepatic ischemia-reperfusion injury. 2000 , 31, 416-9	49
1254	MPTP selectively induces haem oxygenase-1 expression in striatal astrocytes. 2000 , 12, 1573-83	35
1253	Mechanism of heme degradation by heme oxygenase. 2000 , 82, 33-41	136
1252	Multiple molecular penumbras after focal cerebral ischemia. 2000 , 20, 1011-32	350
1251	Mitochondrial DNA damage as a mechanism of cell loss in Alzheimer's disease. 2000 , 80, 1323-35	165
1250	Heme oxygenase activity causes transient hypersensitivity to oxidative ultraviolet A radiation that depends on release of iron from heme. 2000 , 28, 1191-6	38
1249	The heme synthesis and degradation pathways: role in oxidant sensitivity. Heme oxygenase has both pro- and antioxidant properties. 2000 , 28, 289-309	607
1248	Adriana and Luisa Castellucci award lecture 1999: role of oxygen in the regulation of trophoblast gene expression and invasion. 2000 , 21, 443-50	90
1247	Will antioxidants fulfill their expectations for the treatment of Alzheimer disease?. 2000 , 116, 169-79	26
1246	Tin-protoporphyrin potentiates arsenite-induced DNA strand breaks, chromatid breaks and kinetochore-negative micronuclei in human fibroblasts. 2000 , 452, 41-50	19

1245	Relaxation of rabbit lower urinary tract smooth muscle by nitric oxide and carbon monoxide: modulation by hydrogen peroxide. 2000 , 387, 329-35		15
1244	Effects of hemoglobin and its breakdown products on synaptic transmission in rat hippocampal CA1 neurons. 2000 , 864, 1-12		19
1243	Co-induction of HSP70 and heme oxygenase-1 in macrophages and glia after spinal cord contusion in the rat. 2000 , 883, 233-7		33
1242	Subarachnoid hemolysate produces DNA fragmentation in a pattern similar to apoptosis in mouse brain. 2000 , 858, 312-9		73
1241	Involvement of haemoxygenase-1 in ozone-induced airway inflammation and hyperresponsiveness. 2000 , 399, 229-34		19
1240	Co-administration of melatonin reverses the tin-protoporphyrin (SnPP) induced decline of cytochrome P450 content in vivo in rats. 2000 , 25, 213-8		2
1239	Long-term expression of heme oxygenase-1 (HO-1, HSP-32) following focal cerebral infarctions and traumatic brain injury in humans. 2000 , 100, 377-84		108
1238	Association of Serum Bilirubin Concentration with Risk of Coronary Artery Disease. 2000 , 46, 1723-1727		182
1237	Antioxidant Actions of Nitric Oxide. 2000 , 265-276		9
1236	Heme oxygenase: colors of defense against cellular stress. 2000 , 279, L1029-37		645
1235	Hemeoxygenase expression in human placenta and placental bed implies a role in regulation of trophoblast invasion and placental function. <i>FASEB Journal</i> , 2000 , 14, 208-19	0.9	125
1234	Transcriptional induction of heme oxygenase-1 gene expression by okadaic acid in primary rat hepatocyte cultures. 2000 , 57, 610-8		26
1233	Heme oxygenase modulates selectin expression in different regional vascular beds. 2000 , 278, H1613-7		122
1232	AP-1 and STAT mediate hyperoxia-induced gene transcription of heme oxygenase-1. 2000 , 279, L175-82		84
1231	Protective roles of endogenous carbon monoxide in neointimal development elicited by arterial injury. 2000 , 278, H623-32		95
1230	Central CO-heme oxygenase pathway raises body temperature by a prostaglandin-independent way. 2000 , 88, 1607-13		39
1229	Nitric oxide and carbon monoxide modulate oscillations of olfactory interneurons in a terrestrial mollusk. 2000 , 83, 116-27		63
1228	Inhaled carbon monoxide does not cause pulmonary vasodilation in the late-gestation fetal lamb. 2000 , 278, L779-84		16

1227	Induction of Placental Heme Oxygenase-1 Is Protective Against TNF α -Induced Cytotoxicity and Promotes Vessel Relaxation. 2000 , 6, 391-409		130
1226	Replacement of the distal glycine 139 transforms human heme oxygenase-1 into a peroxidase. <i>Journal of Biological Chemistry</i> , 2000 , 275, 34501-7	5-4	43
1225	Endotoxin-induced mortality is related to increased oxidative stress and end-organ dysfunction, not refractory hypotension, in heme oxygenase-1-deficient mice. 2000 , 102, 3015-22		182
1224	Reaction intermediates and single turnover rate constants for the oxidation of heme by human heme oxygenase-1. <i>Journal of Biological Chemistry</i> , 2000 , 275, 5297-307	5-4	121
1223	Prevention of hypoxia-induced pulmonary hypertension by enhancement of endogenous heme oxygenase-1 in the rat. 2000 , 86, 1224-9		189
1222	Overexpression of heme oxygenase in neuronal cells, the possible interaction with Tau. <i>Journal of Biological Chemistry</i> , 2000 , 275, 5395-9	5-4	138
1221	Expression of heme oxygenase isoenzymes 1 and 2 in normal and asthmatic airways: effect of inhaled corticosteroids. 2000 , 162, 1912-8		90
1220	Histidine 20, the crucial proximal axial heme ligand of bacterial heme oxygenase Hmu O from <i>Corynebacterium diphtheriae</i> . <i>Journal of Biological Chemistry</i> , 2000 , 275, 17494-500	5-4	25
1219	Use of heme compounds as iron sources by pathogenic neisseriae requires the product of the hemO gene. 2000 , 182, 439-47		102
1218	Cadmium in the environment: sources, mechanisms of biotoxicity, and biomarkers. 2000 , 15, 299-323		112
1217	Thioredoxin facilitates the induction of heme oxygenase-1 in response to inflammatory mediators. <i>Journal of Biological Chemistry</i> , 2000 , 275, 24840-6	5-4	99
1216	Degradation of heme in gram-negative bacteria: the product of the hemO gene of <i>Neisseriae</i> is a heme oxygenase. 2000 , 182, 6783-90		174
1215	Heat shock proteins Hsp27 and Hsp32 localize to synaptic sites in the rat cerebellum following hyperthermia. 2000 , 75, 309-20		60
1214	Induction of the heme oxygenase-1 gene by metalloporphyrins. 2000 , 380, 219-27		89
1213	Regulation of heme metabolism in rat hepatocytes and hepatocyte cell lines: delta-aminolevulinic acid synthase and heme oxygenase are regulated by different heme-dependent mechanisms. 2000 , 384, 280-95		31
1212	Expression and localization of heme oxygenase in human placental villi. 2000 , 276, 1136-42		41
1211	Arteriovenous carboxyhemoglobin gradient is a technical artifact that is eliminated by special calibration (SAT 100). 2000 , 278, 447-8		11
1210	Sustained induction of heme oxygenase-1 in the traumatized spinal cord. 2000 , 166, 254-65		33

1209	Adaptive responses of the endothelium to stress. 2000 , 89, 85-119	72
1208	Chronic morphine exposure and the expression of heme oxygenase type 2. 2000 , 75, 179-84	19
1207	Iron bioavailability from hemoglobin and hemin in chick, rat, cat, and dog: A comparative study. 2000 , 20, 237-248	3
1206	Tubular injury as a cardinal pathologic feature in human heme oxygenase-1 deficiency. 2000 , 35, 863-70	97
1205	Heme oxygenase-1 induction protects murine cortical astrocytes from hemoglobin toxicity. 2000 , 282, 1-4	63
1204	Effect of acetaminophen on heme metabolism in rat liver. 2000 , 32, 983-91	32
1203	Heme oxygenase induction by menadione bisulfite adduct-generated oxidative stress in rat liver. 2000 , 127, 91-9	3
1202	Heme oxygenase-1 expression in rat Kupffer cells by immunomodulating agents: role in the pathogenesis of hepatic ischemia/reperfusion injury. 2000 , 32, 1665-6	2
1201	Expression and distribution of heme oxygenase-1 and -2 in rat brown adipose tissue: the modulatory role of the noradrenergic system. 2000 , 487, 171-5	18
1200	Fibroblast biology. Signals targeting the synovial fibroblast in arthritis. 2000 , 2, 348-55	35
1199	Protection against ozone-induced pulmonary inflammation and cell death by endotoxin pretreatment in mice: role of HO-1. 2000 , 12, 1225-38	20
1198	Potential role of oxidized lipids and lipoproteins in antioxidant defense. 2000 , 33, 197-215	57
1197	Axial Ligation States of Five-Coordinate Heme Oxygenase Proximal Histidine Mutants, as Revealed by EPR and Resonance Raman Spectroscopy. 2000 , 122, 12612-12613	12
1196	Participation of Carboxylate Amino Acid Side Chain in Regiospecific Oxidation of Heme by Heme Oxygenase. 2000 , 122, 8311-8312	38
1195	Heme oxygenase activity in the internal anal sphincter: effects of nonadrenergic, noncholinergic nerve stimulation. 2000 , 118, 477-86	23
1194	Carbon monoxide is endogenously produced in the human nose and paranasal sinuses. 2000 , 105, 269-73	37
1193	Hemin pretreatment ameliorates aspects of the nephropathy induced by mercuric chloride in the rat. 2000 , 116, 223-9	29
1192	Carbon monoxide from heme catabolism protects against hepatobiliary dysfunction in endotoxin-treated rat liver. 2001 , 120, 1227-40	146

1191	Analysis of urinary porphyrins in rats exposed to aluminum and iron. 2001 , 48, 11-7	8
1190	Localization of the peptide transporter PEPT2 in the lung: implications for pulmonary oligopeptide uptake. 2001 , 158, 707-14	137
1189	Induction of heme oxygenase-1 by Ginkgo biloba extract but not its terpenoids partially mediated its protective effect against lysophosphatidylcholine-induced damage. 2001 , 43, 63-9	38
1188	Reduction of inflammatory response in composite flap transfer by local stress conditioning-induced heat-shock protein 32. 2001 , 129, 292-301	45
1187	Inhibitory effects of methylxanthines on the pre-eclamptic-like symptoms in ewes. 2001 , 99, 25-32	8
1186	Enhancement of glomerular heme oxygenase-1 expression in diabetic rats. 2001 , 52, 85-96	55
1185	Induction of heme oxygenase 1 in liver of spontaneously diabetic rats. 2001 , 34, 189-91	20
1184	A role for highly conserved carboxylate, aspartate-140, in oxygen activation and heme degradation by heme oxygenase-1. 2001 , 123, 6475-84	98
1183	Crystallographic studies on endothelial nitric oxide synthase complexed with nitric oxide and mechanism-based inhibitors. 2001 , 40, 5399-406	74
1182	Development of the utero-placental circulation: purported mechanisms for cytotrophoblast invasion in normal pregnancy and pre-eclampsia. 2001 , 20-36	
1181	Protective role of heme oxygenase-1 on trinitrobenzene sulfonic acid-induced colitis in rats. 2001 , 281, G586-94	110
1180	Real-time measurements of endogenous CO production from vascular cells using an ultrasensitive laser sensor. 2001 , 280, H483-8	55
1179	Role of nitric oxide and carbon monoxide in modulating the activity of the rodent hypothalamic-pituitary-adrenal axis. 2002 , 29, 15-49	7
1178	Inhaled carbon monoxide and hyperoxic lung injury in rats. 2001 , 281, L949-57	41
1177	The role of haem oxygenase in renal vascular reactivity in normotensive and hypertensive rats. 2001 , 19, 1105-11	9
1176	Roles of carbon monoxide in leukocyte and platelet dynamics in rat mesenteric during sevoflurane anesthesia. 2001 , 95, 192-9	20
1175	Relative importance of nitric oxide and carbon monoxide in regulating the ACTH response to immune and non-immune signals. 2001 , 4, 13-24	3
1174	"Haemoxygenase-1 induction and exhaled markers of oxidative stress in lung diseases", summary of the ERS Research Seminar in Budapest, Hungary, September, 1999. 2001 , 18, 420-30	43

1173	Mechanism of carbon monoxide-induced relaxation in the guinea pig ileal smooth muscle. 2001 , 63, 389-93	8
1172	Role of heme oxygenase-1 and Kupffer cells in the production of bilirubin in the rat liver. 2001 , 64, 169-78	8
1171	Heme oxygenase-1 is expressed in viable astrocytes and microglia but in degenerating pyramidal neurons in the kainate-lesioned rat hippocampus. 2001 , 137, 424-31	78
1170	Heme oxygenase-1 (HO-1) protein induction in a mouse model of asthma. 2001 , 31, 1470-7	34
1169	Induction of NADPH cytochrome P450 reductase by the Alzheimer beta-protein. Amyloid as a "foreign body". 2001 , 78, 121-8	14
1168	Cytoprotective role of heme oxygenase (HO)-1 in human kidney with various renal diseases. 2001 , 60, 1858-66	79
1167	Heme oxygenase isoform-specific expression and distribution in the rat kidney. 2001 , 59, 1448-57	84
1166	Hypoxia-induced Haem Oxygenase-1 gene expression in neonatal rat cardiac myocytes. 2001 , 10, 121-9	8
1165	Strain-dependent susceptibility to MPTP and MPP ⁺ -induced Parkinsonism is determined by glia. 2001 , 34, 73-80	45
1164	Functional genomic analysis of the HY2 family of ferredoxin-dependent bilin reductases from oxygenic photosynthetic organisms. 2001 , 13, 965-78	209
1163	Altered expression of heme oxygenase-1 in the livers of patients with portal hypertensive diseases. 2001 , 33, 32-42	68
1162	Alternative metalloporphyrins for the treatment of neonatal jaundice. 2001 , 21 Suppl 1, S108-13; discussion S125-7	21
1161	Pharmacological preconditioning with doxorubicin. Implications of heme oxygenase-1 induction in doxorubicin-induced hepatic injury in rats. 2001 , 62, 1249-55	16
1160	An ELISA assay for heme oxygenase (HO-1). 2001 , 247, 153-61	12
1159	Carbon monoxide and bilirubin production in neonates. 2001 , 25, 85-93	28
1158	Disruption of an active site hydrogen bond converts human heme oxygenase-1 into a peroxidase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 10612-9	5-4 80
1157	Suppression of cytochrome P450 1A1 and 4A1 gene expression in renal carcinomas of TSC2 gene mutant (Eker) rats. 2001 , 18, 147-9	
1156	H(mox-1) constitutes an adaptive response to effect antioxidant cardioprotection: A study with transgenic mice heterozygous for targeted disruption of the Heme oxygenase-1 gene. 2001 , 103, 1695-701	119

1155	Heme oxygenase expression in human placenta and placental bed: reduced expression of placenta endothelial HO-2 in preeclampsia and fetal growth restriction. <i>FASEB Journal</i> , 2001 , 15, 1158-68	0.9	101
1154	The heme-regulated eukaryotic initiation factor 2alpha kinase. A potential regulatory target for control of protein synthesis by diffusible gases. <i>Journal of Biological Chemistry</i> , 2001 , 276, 14875-83	5.4	41
1153	Heme oxygenase-1 gene promoter microsatellite polymorphism is associated with restenosis after percutaneous transluminal angioplasty. 2001 , 8, 433-40		155
1152	Protective role of heme oxygenases against endotoxin-induced diaphragmatic dysfunction in rats. 2001 , 163, 753-61		58
1151	Mechanisms for Carbon Monoxide-Mediated Protection against Hepatobiliary Dysfunction. 2001 , 114-118		
1150	Localization of heme oxygenase-2 in the canine larynx. 2001 , 121, 315-7		2
1149	Regulation of human heme oxygenase in endothelial cells by using sense and antisense retroviral constructs. 2001 , 98, 12203-8		52
1148	Heme oxygenase-1 induction in islet cells results in protection from apoptosis and improved in vivo function after transplantation. 2001 , 50, 1983-91		223
1147	Increased expression of heme oxygenase (HO)-1 in alveolar spaces and HO-2 in alveolar walls of smokers. 2001 , 164, 1508-13		102
1146	Functional Genomic Analysis of the HY2 Family of Ferredoxin-Dependent Bilin Reductases from Oxygenic Photosynthetic Organisms. 2001 , 13, 965		4
1145	Biosynthesis and Analysis of Bilins. 2002 , 273-291		2
1144	Regulation and role of heme oxygenase in oxidative injury. 2000 , 36, 181-99		120
1143	Identification of heme oxygenase in human endometrium. 2001 , 86, 5033-8		21
1142	Modulation of the thioredoxin system during inflammatory responses and its effect on heme oxygenase-1 expression. 2002 , 4, 569-75		30
1141	Biological chemistry of carbon monoxide. 2002 , 4, 259-70		159
1140	Brain edema after experimental intracerebral hemorrhage: role of hemoglobin degradation products. 2002 , 96, 287-93		359
1139	Nutritional Components Modify Metal Absorption, Toxic Response and Chelation Therapy. 2002 , 12, 53-67		72
1138	Heme oxygenase-1 expression after spinal cord injury: the induction in activated neutrophils. 2002 , 19, 479-90		29

1137	Significance of heme oxygenase in prolactin-mediated cell proliferation and angiogenesis in human endothelial cells. 2002 , 10, 433		3
1136	Paraquat-generated oxidative stress in rat liver induces heme oxygenase-1 and aminolevulinic acid synthase. 2002 , 36, 633-9		23
1135	Microglial activation and amyloid-beta clearance induced by exogenous heat-shock proteins. <i>FASEB Journal</i> , 2002 , 16, 601-3	0.9	261
1134	Kinetics of gene expression profiling in Swiss 3T3 cells exposed to aqueous extracts of cigarette smoke. 2002 , 23, 741-8		68
1133	Adenovirus-mediated heme oxygenase-1 gene expression stimulates apoptosis in vascular smooth muscle cells. 2002 , 105, 79-84		121
1132	Heme oxygenase-1 genotype is a vascular anti-inflammatory factor following balloon angioplasty. 2002 , 9, 385-94		35
1131	Solution NMR characterization of an unusual distal H-bond network in the active site of the cyanide-inhibited, human heme oxygenase complex of the symmetric substrate, 2,4-dimethyldeuterohemin. <i>Journal of Biological Chemistry</i> , 2002 , 277, 33018-31	5.4	32
1130	Carbon monoxide and bile pigments: surprising mediators of vascular function. 2002 , 7, 195-202		69
1129	Preeclampsia is associated with altered Ca ²⁺ regulation and NO production in human fetal venous endothelial cells. <i>FASEB Journal</i> , 2002 , 16, 721-3	0.9	59
1128	Carbon monoxide modulates endotoxin-induced microvascular leukocyte adhesion through platelet-dependent mechanisms. 2002 , 97, 701-9		47
1127	Pathogenesis and management of virus infection-induced exacerbation of senile bronchial asthma and chronic pulmonary emphysema. 2002 , 197, 67-80		1
1126	The protective role of Kupffer cells in the ischemia-reperfused rat liver. 2002 , 65, 251-61		30
1125	Tin chloride pretreatment prevents renal injury in rats with ischemic acute renal failure. 2002 , 30, 1512-22		44
1124	Co-operation of the transcription factor hepatocyte nuclear factor-4 with Sp1 or Sp3 leads to transcriptional activation of the human haem oxygenase-1 gene promoter in a hepatoma cell line. 2002 , 367, 641-52		17
1123	Heme oxygenase-1-derived carbon monoxide is an autocrine inhibitor of vascular smooth muscle cell growth. 2002 , 99, 4443-8		138
1122	Enhanced splenomegaly and severe liver inflammation in haptoglobin/hemopexin double-null mice after acute hemolysis. 2002 , 100, 4201-8		110
1121	Hemoglobin-induced cytotoxicity in rat cerebral cortical neurons: caspase activation and oxidative stress. 2002 , 33, 1882-8		158
1120	Heme oxygenase 1 transgenic mice as a model to study neuroprotection. 2002 , 353, 374-88		24

1119	Apoptotic and Oxidative Indicators in Alzheimer's Disease. 2002 , 225-246	2
1118	Stabilization of mast cells by heme oxygenase-1: an anti-inflammatory role. 2002 , 283, H861-70	45
1117	Crystal structure of rat apo-heme oxygenase-1 (HO-1): mechanism of heme binding in HO-1 inferred from structural comparison of the apo and heme complex forms. 2002 , 41, 7293-300	61
1116	Pegylated zinc protoporphyrin: a water-soluble heme oxygenase inhibitor with tumor-targeting capacity. 2002 , 13, 1031-8	110
1115	Expression of heme oxygenase-1 in response to myocardial infarction in rats. 2002 , 34, 1357-65	68
1114	Mapping of the chick heme oxygenase-1 proximal promoter for responsiveness to metalloporphyrins. 2002 , 399, 159-66	26
1113	A significant role for the heme oxygenase-1 gene in endothelial cell cycle progression. 2002 , 291, 68-75	49
1112	Regulation of heme oxygenase-1 by redox signals involving nitric oxide. 2002 , 4, 615-24	123
1111	Heme oxygenase-1: redox regulation and role in the hepatic response to oxidative stress. 2002 , 4, 749-58	209
1110	Heme oxygenase/carbon monoxide signaling path-ways: Regulation and functional significance. 2002 , 249-263	5
1109	Exhaled carbon monoxide levels after a course of oral prednisone in children with asthma exacerbation. 2002 , 109, 440-5	28
1108	Apoptosis Techniques and Protocols. 2002 ,	3
1107	[Respiratory muscle failure in sepsis]. 2002 , 38, 226-35	3
1106	Hypoxia-induced anapnoea: implications and putative mediators. 2002 , 64, 263-88	127
1105	Induction of heme-binding protein 23/peroxiredoxin I gene expression by okadaic acid in cultured rat hepatocytes. 2002 , 21, 347-54	9
1104	Heme oxygenase-1 gene promoter polymorphism is associated with abdominal aortic aneurysm. 2002 , 106, 131-6	91
1103	Affinity of carbon monoxide to hemoglobin increases at low oxygen fractions. 2002 , 295, 975-7	13
1102	Arteriovenous carboxyhemoglobin difference in critical illness: fiction or fact?. 2002 , 299, 479-82	16

1101	Prior induction of heme oxygenase-1 with glutathione depletor ameliorates the renal ischemia and reperfusion injury in the rat. 2002 , 510, 221-4	29
1100	Effects of chronic administration of a heme oxygenase substrate or inhibitor on progression of the estrous cycle, pregnancy and lactation of Sprague-Dawley rats. 2002 , 72, 153-62	9
1099	Crystal structure of a biliverdin IXalpha reductase enzyme-cofactor complex. 2002 , 319, 1199-210	54
1098	Heme oxygenase-1 deficiency: the first autopsy case. 2002 , 33, 125-30	210
1097	Up-regulation of heme oxygenase-1 in alveolar macrophages of newly diagnosed asthmatics. 2002 , 96, 418-23	29
1096	Increased expression of heme oxygenase-1 in human lung transplantation. 2002 , 21, 1120-6	35
1095	Ferritin induction protects cortical astrocytes from heme-mediated oxidative injury. 2002 , 113, 985-94	61
1094	1,2,3,4,6-Penta-O-galloyl-beta-D-glucose protects rat neuronal cells (Neuro 2A) from hydrogen peroxide-mediated cell death via the induction of heme oxygenase-1. 2002 , 328, 185-9	59
1093	Pathophysiology of brain edema formation. 2002 , 13, 371-83	171
1092	Hydrogen sulfide is produced in response to neuronal excitation. 2002 , 22, 3386-91	149
1091	Mitogen-activated protein kinases regulate HO-1 gene transcription after ischemia-reperfusion lung injury. 2002 , 283, L815-29	87
1090	Decreased renal heme oxygenase-1 expression contributes to decreased renal function during cirrhosis. 2002 , 283, F1123-31	18
1089	From O2 to H2S: a landscape view of gas biology. 2002 , 51, 1-10	37
1088	Hemolysate pretreatment ameliorates ischemic acute renal injury in rats. 2002 , 92, 407-13	5
1087	The role of the placenta in pre-eclampsia—a workshop report. 2002 , 23 Suppl A, S142-5	22
1086	Preoperative stress conditioning prevents paralysis after experimental aortic surgery: increased heat shock protein content is associated with ischemic tolerance of the spinal cord. 2002 , 124, 162-70	12
1085	Carbon monoxide and metabotropic glutamate receptors in rat nucleus tractus solitarii: participation in cardiovascular effect. 2002 , 454, 39-45	17
1084	Investigation of the potential modulatory effect of biliverdin, carbon monoxide and bilirubin on nitrenergic neurotransmission in the pig gastric fundus. 2002 , 457, 177-86	22

1083	Oxidative brain injury from extravasated erythrocytes after intracerebral hemorrhage. 2002 , 953, 45-52	183
1082	Analysis of inflammatory gene induction by oxidized phospholipids in vivo by quantitative real-time RT-PCR in comparison with effects of LPS. 2002 , 38, 219-27	86
1081	Endothelin-1 and heme oxygenase-1 as modulators of sinusoidal tone in the stress-exposed rat liver. 2002 , 36, 1453-1465	28
1080	TNF tolerance and cytotoxicity in the liver: the role of interleukin-1beta, inducible nitric oxide-synthase and heme oxygenase-1 in D-galactosamine-sensitized mice. 2002 , 51, 229-35	16
1079	Carbon monoxide regulates blood pressure cooperatively with nitric oxide in hypertensive rats. 2002 , 16, 189-95	29
1078	Microsatellite polymorphism in promoter of heme oxygenase-1 gene is associated with susceptibility to coronary artery disease in type 2 diabetic patients. 2002 , 111, 1-8	268
1077	Splenectomy ameliorates hepatic ischemia and reperfusion injury mediated by heme oxygenase-1 induction in the rat. 2002 , 22, 467-73	24
1076	Interactions between inducible nitric oxide synthase and heme oxygenase-1 in glomerulonephritis. 2002 , 61, 847-50	25
1075	Induction of heme oxygenase in guinea-pig stomach: roles in contraction and in single muscle cell ionic currents. 2002 , 175, 297-313	6
1074	Local heat-shock priming-induced improvement in microvascular perfusion in osteomyocutaneous flaps is mediated by heat-shock protein 32. 2001 , 88, 450-7	34
1073	Increased carbon monoxide levels in the nasal airways of subjects with a history of seasonal allergic rhinitis and in patients with upper respiratory tract infection. 2002 , 32, 224-7	25
1072	Prevention of respiratory infections in the elderly. 2002 , 2, 115-121	17
1071	Corticosterone regulates heme oxygenase-2 and NO synthase transcription and protein expression in rat brain. 1994 , 63, 953-62	120
1070	Induction of heme oxygenase-1 mRNA and protein in neocortex and cerebral vessels in Alzheimer's disease. 1995 , 65, 1399-402	166
1069	Carbon monoxide and the nervous system. 2002 , 26, 925-40	117
1068	Heme oxygenase/carbon monoxide signaling pathways: regulation and functional significance. 2002 , 234-235, 249-63	372
1067	Hydrogen sulfide as a neuromodulator. 2002 , 26, 13-9	334
1066	Induction of Hsp27 and Hsp32 stress proteins and vimentin in glial cells of the rat hippocampus following hyperthermia. 2003 , 28, 1163-73	46

1065	Heme oxygenase-1 accelerates tumor angiogenesis of human pancreatic cancer. 2003 , 6, 15-24	162
1064	Bilirubin rinse: A simple protectant against the rat liver graft injury mimicking heme oxygenase-1 preconditioning. 2003 , 38, 364-73	77
1063	Heme oxygenase in liver transplantation: heme catabolism and metabolites in the search of function. 2003 , 38, 286-8	10
1062	Inhibition of heme oxygenase ameliorates sepsis-induced liver dysfunction in rats. 2003 , 33, 30-8	20
1061	Tyrosine kinase is involved in hemin-induced pyresis. 2003 , 26, 411-5	1
1060	Modulatory influence of tin-protoporphyrin on gossypol-induced alterations of heme oxygenase activity in male Wistar rats. 2003 , 28, 237-43	3
1059	Glutathione depletion increases nitric oxide-induced oxidative stress in primary rat hepatocyte cultures: involvement of low-molecular-weight iron. 2003 , 34, 1283-94	15
1058	Heme oxygenase-2 knockout neurons are less vulnerable to hemoglobin toxicity. 2003 , 35, 872-81	76
1057	Bilirubin and S-nitrosothiols interaction: evidence for a possible role of bilirubin as a scavenger of nitric oxide. 2003 , 66, 2355-63	81
1056	Protective role of heme oxygenase-1 induction in carbon tetrachloride-induced hepatotoxicity. 2003 , 66, 1091-105	104
1055	The expression and localization of heme oxygenase in the adult guinea pig cochlea. 2003 , 966, 162-6	3
1054	Cerebral angiogenesis and expression of VEGF after subarachnoid hemorrhage (SAH) in rats. 2003 , 981, 58-69	47
1053	Heme oxygenase-1 and its reaction product, carbon monoxide, prevent inflammation-related apoptotic liver damage in mice. 2003 , 38, 909-918	146
1052	Heme oxygenase-1 in growth control and its clinical application to vascular disease. 2003 , 195, 373-82	160
1051	Development of the utero-placental circulation: the role of carbon monoxide and nitric oxide in trophoblast invasion and spiral artery transformation. 2003 , 60, 402-11	40
1050	Immunohistochemical study on the induction of heme oxygenase-1 by traumatic brain injury. 2003 , 5 Suppl 1, S278-9	14
1049	Photic regulation of heme oxygenase activity in the golden hamster retina: involvement of dopamine. 2003 , 85, 534-42	6
1048	Heme oxygenase-1 and heme oxygenase-2 have distinct roles in the proliferation and survival of olfactory receptor neurons mediated by cGMP and bilirubin, respectively. 2003 , 85, 1247-61	38

1047	Nerve growth factor induces anti-apoptotic heme oxygenase-1 in rat pheochromocytoma PC12 cells. 2003 , 86, 1553-63	44
1046	Selective protection of renal tubular epithelial cells by heme oxygenase (HO)-1 during stress-induced injury. 2003 , 64, 1302-9	38
1045	Effect of Tin-mesoporphyrin, an inhibitor of haem catabolism, on intestinal iron absorption. 2003 , 122, 298-304	6
1044	Expression of haem oxygenase in cirrhotic rat liver. 2003 , 199, 324-34	41
1043	Stereoselectivity of each of the three steps of the heme oxygenase reaction: hemin to meso-hydroxyhemin, meso-hydroxyhemin to verdoheme, and verdoheme to biliverdin. 2003 , 42, 7418-26	31
1042	Heme oxygenase-1 is an antifibrogenic protein in human hepatic myofibroblasts. 2003 , 125, 460-9	64
1041	Crystal structures of ferrous and CO-, CN(-)-, and NO-bound forms of rat heme oxygenase-1 (HO-1) in complex with heme: structural implications for discrimination between CO and O2 in HO-1. 2003 , 42, 9898-905	59
1040	Induction of heme oxygenase-1 and dilatation of hepatic sinusoids by an administration of pyrrolidine dithiocarbamate in rat livers. 2003 , 115, 310-7	13
1039	Carboxyhemoglobin formation following smoke inhalation injury in sheep is interrelated with pulmonary shunt fraction. 2003 , 311, 754-8	16
1038	Protective role of heme oxygenase-1 against endotoxin-induced uveitis in rats. 2003 , 77, 665-73	41
1037	Particulate air pollutants and asthma. A paradigm for the role of oxidative stress in PM-induced adverse health effects. 2003 , 109, 250-65	540
1036	Crystal structures of the ferric, ferrous, and ferrous-NO forms of the Asp140Ala mutant of human heme oxygenase-1: catalytic implications. 2003 , 330, 527-38	73
1035	Interaction of bilirubin and biliverdin with reactive nitrogen species. 2003 , 543, 113-9	143
1034	Heme oxygenase-1 fused to a TAT peptide transduces and protects pancreatic beta-cells. 2003 , 305, 876-81	66
1033	The regulating effect of heme oxygenase/carbon monoxide on hypoxic pulmonary vascular structural remodeling. 2003 , 306, 523-9	31
1032	Changes of heme oxygenase-carbon monoxide system in vascular calcification in rats. 2003 , 72, 1027-37	8
1031	Attenuated induction of heme oxygenase after intrathecal exposure to lysed blood in mice overexpressing superoxide dismutase. 2003 , 336, 13-6	4
1030	Bilirubin is highly effective in preventing in vivo delta-aminolevulinic acid-induced oxidative cell damage. 2003 , 1638, 173-8	32

1029	Retrovirus-mediated human heme oxygenase-1 (HO-1) gene transfer into rat endothelial cells: the effect of HO-1 inducers on the expression of cytokines. 2003 , 35, 324-32		23
1028	Bilirubin release induced by tumor necrosis factor in combination with galactosamine is toxic to mice. 2003 , 23, 94-100		3
1027	Developments in Tryptophan and Serotonin Metabolism. 2003 ,		5
1026	Tempol, a novel stable nitroxide, reduces brain damage and free radical production, after acute subdural hematoma in the rat. 2003 , 20, 337-45		34
1025	Brain Edema XII. 2003 ,		1
1024	Induction of heme oxygenase-1 expression in murine macrophages is essential for the anti-inflammatory effect of low dose 15-deoxy-Delta 12,14-prostaglandin J2. <i>Journal of Biological Chemistry</i> , 2003 , 278, 19325-30	5.4	173
1023	Decreased haem oxygenase-1 and increased inducible nitric oxide synthase in the lung of severe COPD patients. 2003 , 21, 971-6		117
1022	Renal Disease. 2003 ,		1
1021	Interaction between heme oxygenase-1 and -2 proteins. <i>Journal of Biological Chemistry</i> , 2003 , 278, 50993-100535		35
1020	Absence of heme oxygenase-1 exacerbates atherosclerotic lesion formation and vascular remodeling. <i>FASEB Journal</i> , 2003 , 17, 1759-61	0.9	247
1019	Transcriptional regulation of heme oxygenase-1 gene expression by MAP kinases of the JNK and p38 pathways in primary cultures of rat hepatocytes. <i>Journal of Biological Chemistry</i> , 2003 , 278, 17927-36	5.4	161
1018	Gene expression profiling in respiratory tissues from rats exposed to mainstream cigarette smoke. 2004 , 25, 169-78		67
1017	Role of heme oxygenase-1 in morphine-modulated apoptosis and migration of macrophages. 2003 , 187, 47-54		34
1016	Effects of nitrogen monoxide and carbon monoxide on molecular and cellular iron metabolism: mirror-image effector molecules that target iron. 2003 , 369, 429-40		79
1015	A major role for carbon monoxide as an endogenous hyperpolarizing factor in the gastrointestinal tract. 2003 , 100, 8567-70		81
1014	Genomic and transcriptional alterations in mouse fetus liver after transplacental exposure to cigarette smoke. <i>FASEB Journal</i> , 2003 , 17, 1127-9	0.9	70
1013	Atypical protein kinase C mediates activation of NF-E2-related factor 2 in response to oxidative stress. 2003 , 285, C334-42		265
1012	Effect of carbon monoxide on dopamine and glutamate uptake and cGMP levels in rat brain. 2003 , 28, 1176-81		14

1011	Neonatal hyperbilirubinemia in Japanese neonates: analysis of the heme oxygenase-1 gene and fetal hemoglobin composition in cord blood. 2003 , 54, 165-71	34
1010	Absolute quantitation of normal and ROS-induced patterns of gene expression: an in vivo real-time PCR study in mice. 2003 , 11, 23-34	26
1009	Gestational pattern of heme oxygenase expression in the rat. 2003 , 54, 172-8	15
1008	Bioactivity and pharmacological actions of carbon monoxide-releasing molecules. 2003 , 9, 2525-39	217
1007	Methods for measurements of heme oxygenase (HO) isoforms-mediated synthesis of carbon monoxide and HO-1 and HO-2 proteins. 2003 , 86, 399-411	11
1006	Induction of heme oxygenase-1 in kidneys during ex vivo warm perfusion. 2003 , 76, 1145-9	35
1005	. 2003 , 238, 49-58	4
1004	Protective role of heme oxygenase-1 in the intestinal tissue injury in an experimental model of sepsis. 2003 , 31, 893-902	58
1003	Graft protective effects of heme oxygenase 1 in mouse tracheal transplant-related obliterative bronchiolitis. 2003 , 76, 650-6	17
1002	Heme-oxygenase-1 mRNA expression affects hemorrhagic shock-induced leukocyte adherence. 2003 , 55, 118-25	12
1001	IL-10 increases tissue injury after selective intestinal ischemia/reperfusion. 2003 , 238, 49-58	26
1000	Heme oxygenase-1 production by peripheral blood monocytes during acute inflammatory illnesses of children. 2003 , 228, 550-6	70
999	Role of heme oxygenase-1 in the regulation of blood pressure and cardiac function. 2003 , 228, 447-53	78
998	Heme oxygenase in the rat ovary: immunohistochemical localization and possible role in steroidogenesis. 2003 , 228, 59-63	14
997	Expression of heat shock protein 32 (hemoxygenase-1) in the normal and inflamed human stomach and colon: an immunohistochemical study. 2003 , 8, 329-34	54
996	Expression of heme oxygenase-1 in rat ontogeny. 2003 , 66, 155-62	12
995	Heme oxygenase in the rat anterior pituitary: immunohistochemical localization and possible role in gonadotropin and prolactin secretion. 2003 , 228, 64-9	10
994	Adaptive responses to the stress induced by hyperthermia or hydrogen peroxide in human fibroblasts. 2003 , 228, 491-8	44

- 993 Effects of Metalloporphyrins on Heme Oxygenase-1 Transcription: Correlative Cell Culture Assays Guide in Vivo Imaging. **2003**, 2, 153535002003031
- 992 Role of oxidative stress and heme oxygenase activity in morphine-induced glomerular epithelial cell growth. **2003**, 285, F861-9 36
- 991 Heme oxygenase-2 protects against lipid peroxidation-mediated cell loss and impaired motor recovery after traumatic brain injury. **2003**, 23, 3689-96 104
- 990 Cardioprotective and vasomotor effects of HO activity during acute and chronic hypoxia. **2004**, 287, H2009-15 26
- 989 Selegiline increases heme oxygenase-1 expression and the cytotoxicity produced by dopamine treatment of neuroblastoma SK-N-SH cells. **2004**, 37, 1055-62 6
- 988 Heme oxygenase attenuates allergen-induced airway inflammation and hyperreactivity in guinea pigs. **2004**, 287, L26-34 53
- 987 A microsatellite polymorphism in the heme oxygenase-1 gene promoter is associated with increased bilirubin and HDL levels but not with coronary artery disease. **2004**, 91, 155-61 67
- 986 Mechanism of internal anal sphincter relaxation by CORM-1, authentic CO, and NANC nerve stimulation. **2004**, 287, G605-11 23
- 985 Effect of smoking on restenosis during the 1st year after lower-limb endovascular interventions. **2004**, 231, 831-8 29
- 984 Pro-oxidant role of heme oxygenase in mediating glucose-induced endothelial cell damage. **2004**, 38, 1301-10 35
- 983 Alteration in heme oxygenase-1 and nitric oxide synthase-2 gene expression during endotoxemia in cyclooxygenase-2-deficient mice. **2004**, 6, 850-7 18
- 982 The heme oxygenase(s)-phytochrome system of *Pseudomonas aeruginosa*. *Journal of Biological Chemistry*, **2004**, 279, 45791-802 5-4 73
- 981 Activation of extracellular signal-regulated kinase mediates apoptosis induced by uropathogenic *Escherichia coli* toxins via nitric oxide synthase: protective role of heme oxygenase-1. **2004**, 190, 127-35 33
- 980 Heme Oxygenase-1 Attenuates Interleukin-1 β -Induced Nitric Oxide Synthase Expression in Vascular Smooth Muscle Cells. **2004**, 11, 799-809 2
- 979 Heme oxygenase in *Candida albicans* is regulated by hemoglobin and is necessary for metabolism of exogenous heme and hemoglobin to alpha-biliverdin. *Journal of Biological Chemistry*, **2004**, 279, 3426-33 5-4 78
- 978 Regulation of Nrf2 transactivation domain activity. The differential effects of mitogen-activated protein kinase cascades and synergistic stimulatory effect of Raf and CREB-binding protein. *Journal of Biological Chemistry*, **2004**, 279, 23052-60 5-4 161
- 977 Mechanism of heme oxygenase-1 gene induction by quercetin in rat aortic smooth muscle cells. **2004**, 71, 107-12 39
- 976 Protective role of heme oxygenase-1 in renal ischemia. **2004**, 6, 867-77 39

975	The heme oxygenase system: past, present, and future. 2004 , 6, 797-801	63
974	Heme-oxygenase-mediated iron accumulation in the liver. 2004 , 82, 448-56	23
973	Mechanism of the delay phenomenon: tissue protection is mediated by heme oxygenase-1. 2004 , 287, H2332-40	18
972	Interference of antihypertrophic molecules and signaling pathways with the Ca ²⁺ -calcineurin-NFAT cascade in cardiac myocytes. 2004 , 63, 450-7	78
971	Renal blood flow in heart failure patients during exercise. 2004 , 287, H2834-9	37
970	Unique features of recombinant heme oxygenase of <i>Drosophila melanogaster</i> compared with those of other heme oxygenases studied. 2004 , 271, 1713-24	33
969	Protease inhibitors modulate apoptosis in mesangial cells derived from a mouse model of HIVAN. 2004 , 65, 860-70	12
968	End tidal carbon monoxide levels are lower in women with gestational hypertension and pre-eclampsia. 2004 , 24, 213-7	49
967	Upregulation of heme oxygenase-1 and p21 confers resistance to apoptosis in human gastric cancer cells. 2004 , 23, 503-13	139
966	Polymorphism in heme oxygenase-1 (HO-1) promoter is related to the risk of oral squamous cell carcinoma occurring on male areca chewers. 2004 , 91, 1551-5	79
965	In vivo bioluminescent monitoring of chemical toxicity using heme oxygenase-luciferase transgenic mice. 2004 , 200, 219-28	15
964	Marked developmental changes in heme oxygenase-1 (HO-1) expression in the mouse placenta: correlation between HO-1 expression and placental development. 2004 , 25, 387-95	33
963	Increased iron staining in the cerebral cortex of cholesterol fed rabbits. 2004 , 125, 305-13	17
962	Chemoprevention of severe neonatal hyperbilirubinemia. 2004 , 28, 365-8	19
961	Protective mechanisms during ischemic tolerance in skeletal muscle. 2004 , 36, 371-9	16
960	Overexpression of heme oxygenase (HO)-1 renders Jurkat T cells resistant to fas-mediated apoptosis: involvement of iron released by HO-1. 2004 , 36, 858-71	59
959	The role of heme oxygenase-1 promoter polymorphisms in human disease. 2004 , 37, 1097-104	313
958	Carbon monoxide actuates O(2)-limited heme degradation in the rat brain. 2004 , 37, 1802-12	52

957	Intracellular signaling mechanisms in photodynamic therapy. 2004 , 1704, 59-86	123
956	Antiapoptotic role of heme oxygenase (HO) and the potential of HO as a target in anticancer treatment. 2004 , 9, 27-35	153
955	Calcium-dependent changes in potassium currents in guinea-pig coronary artery smooth muscle cells after acute cobalt loading in vivo. 2004 , 449, 16-25	2
954	Differentiation and function of Kupffer cells. 2004 , 37, 16-28	161
953	Effects of polysaccharide ginsan from Panax ginseng on liver function. 2004 , 27, 531-8	19
952	Heme oxygenase-1 attenuates interleukin-1beta-induced nitric oxide synthase expression in vascular smooth muscle cells. 2004 , 11, 799-809	21
951	Olfactory receptor gene expression in tiger salamander olfactory epithelium. 2004 , 474, 453-67	23
950	Enhancement of chemotherapeutic response of tumor cells by a heme oxygenase inhibitor, pegylated zinc protoporphyrin. 2004 , 109, 1-8	142
949	Paradoxical enhancement of oxidative cell injury by overexpression of heme oxygenase-1 in an anchorage-dependent cell ECV304. 2004 , 93, 552-62	30
948	Crystal structures of ferrous and ferrous-NO forms of verdoheme in a complex with human heme oxygenase-1: catalytic implications for heme cleavage. 2004 , 98, 1686-95	36
947	¹ H NMR characterization of the solution active site structure of substrate-bound, cyanide-inhibited heme oxygenase from Neisseria meningitidis: comparison to crystal structures. 2004 , 43, 10112-26	24
946	Syndrome de détresse respiratoire aiguë 2004 , 1, 143-186	1
945	Heme oxygenase-1 genotype and restenosis after balloon angioplasty: a novel vascular protective factor. 2004 , 43, 950-7	76
944	Phosphorylation and hypoxia-induced heme oxygenase-1 gene expression in cardiomyocytes. 2004 , 10, 519-26	18
943	Apoptotic cells as sources for biologically active oxidized phospholipids. 2004 , 6, 311-20	36
942	Arteriovenous carboxyhemoglobin difference is not correlated to TNF-alpha, IL-6, PCT, CRP and leukocytes in critically ill patients. 2004 , 349, 75-80	3
941	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
940	The effect of a promoter polymorphism in the heme oxygenase-1 gene on the risk of ischaemic cerebrovascular events: the influence of other vascular risk factors. 2004 , 113, 217-23	34

939 Plenary lecture and Morning Plenary Lecture. **2004**, 11, 25-30

938 Adenoviral transfer of the heme oxygenase-1 gene protects striatal astrocytes from heme-mediated oxidative injury. **2004**, 17, 179-87 26

937 Polychlorinated biphenyl mixture aroclor 1254-induced oxidative stress plays a role in dopaminergic cell injury. **2004**, 25, 925-39 67

936 Effects of endogenous carbon monoxide on collagen synthesis in pulmonary artery in rats under hypoxia. **2004**, 74, 1225-41 25

935 Heme, iron, and the mitochondrial decay of ageing. **2004**, 3, 303-18 120

934 Volatile anaesthetics induce biochemical alterations in the heme pathway in a B-lymphocyte cell line established from hepatoerythropoietic porphyria patients (LBHEP) and in mice inoculated with LBHEP cells. **2004**, 36, 216-22 4

933 Heme oxygenase and its products in the nervous system. **2004**, 6, 878-87 93

932 Role of oxidative modifications in atherosclerosis. **2004**, 84, 1381-478 1918

931 Quantitative determination of carbon monoxide in cell culture supernatants by spectrophotometric analysis. **2004**, 58, 49-58 5

930 Donor heme oxygenase-1 genotype is associated with renal allograft function. **2004**, 77, 538-42 58

929 The cardiovascular effects of nitric oxide and carbon monoxide in the nucleus tractus solitarii of rats. **2004**, 22, 1182-90 14

928 Hydrogen Sulfide Is Severely Decreased in Alzheimer Disease Brains. **2004**, 79-83 1

927 Differential effects of anesthetics on endotoxin-induced liver injury. **2005**, 58, 711-6; discussion 716-7 24

926 Heat shock preconditioning reduces ischemic tissue necrosis by heat shock protein (HSP)-32-mediated improvement of the microcirculation rather than induction of ischemic tolerance. **2005**, 242, 869-78, discussion 878-9 30

925 Relationships between NOS2 and HO-1 in liver of rats with chronic bile duct ligation. **2005**, 32, 58-65 5

924 An integrated pharmacokinetic and pharmacodynamic study of arsenite action 2. Heme oxygenase induction in mice. **2005**, 206, 389-401 18

923 Synthesis and evaluation of azalanstat analogues as heme oxygenase inhibitors. **2005**, 15, 1457-61 55

922 Protective effects of ischemic preconditioning on the intestinal mucosal microcirculation following ischemia-reperfusion of the intestine. **2005**, 12, 615-25 29

921	Portal hypertension: from pathophysiology to clinical practice. 2005 , 25, 1079-90	92
920	Activation of ERK in renal fibrosis after unilateral ureteral obstruction: modulation by antioxidants. 2005 , 67, 931-43	98
919	Role of heme oxygenase/carbon monoxide pathway on the vascular response to noradrenaline in portal hypertensive rats. 2005 , 32, 196-201	6
918	Selective expansion of CD16 ^{high} CCR2 ⁻ subpopulation of circulating monocytes with preferential production of haem oxygenase (HO)-1 in response to acute inflammation. 2005 , 142, 461-70	58
917	Haem oxygenase-1 genotype and cardiovascular adverse events in patients with peripheral artery disease. 2005 , 35, 731-7	42
916	Oregonin inhibits lipopolysaccharide-induced iNOS gene transcription and upregulates HO-1 expression in macrophages and microglia. 2005 , 146, 378-88	52
915	Heme regulation in traumatic brain injury: relevance to the adult and developing brain. 2005 , 25, 1401-17	50
914	Protein expressed by the ho2 gene of the cyanobacterium <i>Synechocystis</i> sp. PCC 6803 is a true heme oxygenase. Properties of the heme and enzyme complex. 2005 , 272, 1012-22	23
913	Mechanism of concentration-dependent induction of heme oxygenase-1 by resveratrol in human aortic smooth muscle cells. 2005 , 69, 41-8	144
912	Prevention of hemorrhagic shock-induced lung injury by heme arginate treatment in rats. 2005 , 69, 1667-80	35
911	Heme oxygenase expression in cultured human trophoblast cells during in vitro differentiation: effects of hypoxia. 2005 , 26, 201-9	19
910	Priming and remodelling of human placental bed spiral arteries during pregnancy--a review. 2005 , 26 Suppl A, S31-6	121
909	Experimental cooling-induced preconditioning attenuates skin flap failure. 2005 , 92, 1432-8	21
908	Heme oxygenase-1 activity after excitotoxic injury: immunohistochemical localization of bilirubin in neurons and astrocytes and deleterious effects of heme oxygenase inhibition on neuronal survival after kainate treatment. 2005 , 80, 268-78	33
907	Increased expression and activity of heme oxygenase-2 in pregnant rat aorta is not involved in attenuated vasopressin-induced contraction. 2005 , 372, 220-7	3
906	The inhibitory effects of roflumilast on lipopolysaccharide-induced nitric oxide production in RAW264.7 cells are mediated by heme oxygenase-1 and its product carbon monoxide. 2005 , 54, 508-13	29
905	Tissue-specific changes in heme oxygenase activity and level of nonprotein thiols in C57Bl/6 mice after whole-body gamma-irradiation. 2005 , 140, 341-4	2
904	Inhibition of heme oxygenase-1 impairs cardiac muscle sensitivity to beta-adrenergic stimulation. 2005 , 100, 224-30	4

903	Crystal structures of the G139A, G139A-NO and G143H mutants of human heme oxygenase-1. A finely tuned hydrogen-bonding network controls oxygenase versus peroxidase activity. 2005 , 10, 138-46		13
902	Guanosine stimulates neurite outgrowth in PC12 cells via activation of heme oxygenase and cyclic GMP. 2005 , 1, 161-72		41
901	Carbon monoxide activates human intestinal smooth muscle L-type Ca ²⁺ channels through a nitric oxide-dependent mechanism. 2005 , 288, G7-14		48
900	Modulation of radiation-induced disturbances of antioxidant defense systems by ginsan. 2005 , 2, 529-36		35
899	Gene Expression of Heme Oxygenase-1: Relationship to Fibrogenic and Apoptotic Factors in Murine Schistosomiasis. 2005 , 36, 67-78		2
898	Differential effect of gamma-radiation-induced heme oxygenase-1 activity in female and male C57BL/6 mice. 2005 , 20, 535-41		9
897	Ferric cycle activity and Alzheimer disease. 2005 , 2, 261-7		13
896	Ex vivo gene transfer for improvement of transplanted pancreatic islet viability and function. 2005 , 11, 2927-40		7
895	Interaction between endothelial heme oxygenase-2 and endothelin-1 in altered aortic reactivity after hypoxia in rats. 2005 , 288, H962-70		17
894	Heme oxygenase-2 protects against glutathione depletion-induced neuronal apoptosis mediated by bilirubin and cyclic GMP. 2005 , 2, 121-31		30
893	Renoprotective properties of angiotensin receptor blockers beyond blood pressure lowering. 2005 , 16, 3631-41		162
892	Cutting edge: TLR4 deficiency confers susceptibility to lethal oxidant lung injury. 2005 , 175, 4834-8		123
891	Glomerular proteinuria induces heme oxygenase-1 gene expression within renal epithelial cells. 2005 , 58, 666-71		19
890	Cytoprotection of heme oxygenase-1/carbon monoxide in lung injury. 2005 , 2, 232-5		24
889	Small interference RNA-mediated gene silencing of human biliverdin reductase, but not that of heme oxygenase-1, attenuates arsenite-mediated induction of the oxygenase and increases apoptosis in 293A kidney cells. <i>Journal of Biological Chemistry</i> , 2005 , 280, 17084-92	5-4	80
888	Fibroblast growth factor-1 induces heme oxygenase-1 via nuclear factor erythroid 2-related factor 2 (Nrf2) in spinal cord astrocytes: consequences for motor neuron survival. <i>Journal of Biological Chemistry</i> , 2005 , 280, 25571-9	5-4	114
887	Endoplasmic reticulum stress stimulates heme oxygenase-1 gene expression in vascular smooth muscle. Role in cell survival. <i>Journal of Biological Chemistry</i> , 2005 , 280, 872-7	5-4	101
886	Role of Ets-2 in the regulation of heme oxygenase-1 by endotoxin. <i>Journal of Biological Chemistry</i> , 2005 , 280, 4578-84	5-4	41

885	Clinical restenosis after coronary stent implantation is associated with the heme oxygenase-1 gene promoter polymorphism and the heme oxygenase-1 +99G/C variant. 2005 , 51, 1661-5	25
884	Hepatocyte growth factor modulates H ₂ O ₂ -induced mesangial cell apoptosis through induction of heme oxygenase-1. 2005 , 101, p92-8	18
883	Carbon monoxide from heme oxygenase-2 is a tonic regulator against NO-dependent vasodilatation in the adult rat cerebral microcirculation. 2005 , 97, e104-14	69
882	Ischemic preconditioning procedure induces behavioral deficits in the absence of brain injury?. 2005 , 27, 261-7	16
881	Cytoprotective effects of heme oxygenase in acute renal failure. 2005 , 148, 70-85	43
880	The EPR Effect and Polymeric Drugs: A Paradigm Shift for Cancer Chemotherapy in the 21st Century. 2005 , 103-121	115
879	Free heme toxicity and its detoxification systems in human. 2005 , 157, 175-88	562
878	Involvement of heme oxygenase as antioxidant defense in soybean nodules. 2005 , 39, 145-51	53
877	Molecular basis of heme oxygenase-1 induction: implications for chemoprevention and chemoprotection. 2005 , 7, 1688-703	159
876	Carbon monoxide: endogenous production, physiological functions, and pharmacological applications. 2005 , 57, 585-630	696
875	Resveratrol upregulates heme oxygenase-1 expression via activation of NF-E2-related factor 2 in PC12 cells. 2005 , 331, 993-1000	359
874	Carbon monoxide protects cardiomyogenic cells against ischemic death through L-type Ca ²⁺ channel inhibition. 2005 , 334, 661-8	32
873	Heme oxygenase and heme degradation. 2005 , 338, 558-67	322
872	30 some years of heme oxygenase: from a "molecular wrecking ball" to a "mesmerizing" trigger of cellular events. 2005 , 338, 568-77	176
871	Chemoprevention of genome, transcriptome, and proteome alterations induced by cigarette smoke in rat lung. 2005 , 41, 1864-74	52
870	Complexity of astrocyte-motor neuron interactions in amyotrophic lateral sclerosis. 2005 , 2, 139-46	61
869	Inhibition of heme oxygenase-1 increases responsiveness of pancreatic cancer cells to anticancer treatment. 2005 , 11, 3790-8	205
868	The heme oxygenase system: update 2005. 2005 , 7, 1761-6	128

867	Increased serum HO-1 in hemophagocytic syndrome and adult-onset Still's disease: use in the differential diagnosis of hyperferritinemia. 2005 , 7, R616-24	46
866	Heme oxygenase-2 is a critical determinant for execution of an acute inflammatory and reparative response. 2006 , 169, 1612-23	75
865	[Carbon monoxide: two sides to the same coin]. 2006 , 42, 489-91	
864	Advanced Maillard reaction end products, free radicals, and protein oxidation in Alzheimer's disease. 1994 , 738, 447-54	105
863	Inhibition of inflammatory nitric oxide production and epidermis damages by Saccharomycopsis Ferment Filtrate. 2006 , 42, 249-57	7
862	Imidazole-dioxolane compounds as isozyme-selective heme oxygenase inhibitors. 2006 , 49, 4437-41	63
861	Carbon monoxide protects PC12 cells from peroxynitrite-induced apoptotic death by preventing the depolarization of mitochondrial transmembrane potential. 2006 , 342, 984-90	44
860	Role of heat shock proteins (molecular chaperones) in intestinal mucosal protection. 2006 , 348, 1-5	65
859	Role of the Nrf2-mediated signaling pathway as a negative regulator of inflammation: implications for the impact of particulate pollutants on asthma. 2006 , 8, 88-98	107
858	Heme oxygenase protects hippocampal neurons from ethanol-induced neurotoxicity. 2006 , 405, 168-71	48
857	Heme oxygenase-carbon monoxide (HO-CO) system in rat uterus: effect of sexual steroids and prostaglandins. 2006 , 99, 59-66	8
856	Heme oxygenase activity and oxidative stress signaling in soybean leaves. 2006 , 170, 339-346	35
855	Pyrrolidine dithiocarbamate protects the small bowel from warm ischaemia/reperfusion injury of the intestine: the role of haem oxygenase. 2006 , 111, 373-80	13
854	[Inflammation and oxidative stress]. 2006 , 95, 1870-5	0
853	Behaviour of the anti-oxidant defence system and heme oxygenase-1 protein expression in fructose-hypertensive rats. 2006 , 33, 734-9	13
852	Hypoxia and angiogenesis in pancreatic cancer. 2006 , 76, 830-42	32
851	Mechanisms regulating cytotrophoblast invasion in normal pregnancy and pre-eclampsia. 2006 , 46, 266-73	82
850	Deposition of iron and beta-amyloid plaques is associated with cortical cellular damage in rabbits fed with long-term cholesterol-enriched diets. 2006 , 99, 438-49	104

849	Insulin induces heme oxygenase-1 through the phosphatidylinositol 3-kinase/Akt pathway and the Nrf2 transcription factor in renal cells. 2006 , 273, 2345-56	50
848	Selectivity of imidazole-dioxolane compounds for in vitro inhibition of microsomal haem oxygenase isoforms. 2006 , 147, 307-15	61
847	Positive inotropic effects of carbon monoxide-releasing molecules (CO-RMs) in the isolated perfused rat heart. 2006 , 149, 1104-12	39
846	Heme oxygenase-1 mediates the protective effects of rapamycin in monocrotaline-induced pulmonary hypertension. 2006 , 86, 62-71	60
845	Flunarizine induces Nrf2-mediated transcriptional activation of heme oxygenase-1 in protection of auditory cells from cisplatin. 2006 , 13, 1763-75	72
844	Heme: a versatile signaling molecule controlling the activities of diverse regulators ranging from transcription factors to MAP kinases. 2006 , 16, 681-92	198
843	The role of complement C3 in intracerebral hemorrhage-induced brain injury. 2006 , 26, 1490-5	66
842	Length polymorphism in heme oxygenase-1 is associated with arteriovenous fistula patency in hemodialysis patients. 2006 , 69, 165-72	57
841	Heme oxygenase-1: a provenance for cytoprotective pathways in the kidney and other tissues. 2006 , 70, 432-43	238
840	Glutotoxin reduces the severity of trinitrobenzene sulfonic acid-induced colitis in mice: evidence of the connection between heme oxygenase-1 and the nuclear factor-kappaB pathway in vitro and in vivo. 2006 , 12, 619-29	25
839	Upregulation of VEGF by 15-deoxy-Delta12,14-prostaglandin J2 via heme oxygenase-1 and ERK1/2 signaling in MCF-7 cells. 2006 , 1090, 375-84	45
838	Perspektiven in der Schockforschung. 2006 , 9, 542-546	
837	Heme oxygenase up-regulation in ultraviolet-B irradiated soybean plants involves reactive oxygen species. 2006 , 224, 1154-62	147
836	Protective effect of carbon monoxide in transplantation. <i>Journal of Cellular and Molecular Medicine</i> , 2006 , 10, 650-71	5.6 120
835	Role of carbon monoxide in cardiovascular function. <i>Journal of Cellular and Molecular Medicine</i> , 2006 , 10, 672-86	5.6 117
834	Carbon monoxide, oxidative stress, and mitochondrial permeability pore transition. 2006 , 40, 1332-9	64
833	Heme oxygenase-1 attenuates the cisplatin-induced apoptosis of auditory cells via down-regulation of reactive oxygen species generation. 2006 , 40, 1810-9	66
832	Peroxynitrite induces HO-1 expression via PI3K/Akt-dependent activation of NF-E2-related factor 2 in PC12 cells. 2006 , 41, 1079-91	120

831	Heme oxygenase-1 gene expression in human alveolar epithelial cells (A549) following exposure to whole cigarette smoke on a direct in vitro exposure system. 2006 , 57, 411-8	31
830	Heme as key regulator of major mammalian cellular functions: molecular, cellular, and pharmacological aspects. 2006 , 111, 327-45	188
829	Monóxido de carbono: dos caras de un mismo personaje. 2006 , 42, 489-491	1
828	Heme oxygenase-1: a new drug target in oxidative tissue injuries in critically ill conditions. 2006 , 67, 130-153	7
827	Biochemical modifications induced in human blood by oxygenation-ozonation. 2006 , 20, 133-8	31
826	A microsatellite polymorphism in the heme oxygenase-1 gene promoter is associated with risk for melanoma. 2006 , 119, 1312-5	49
825	Anthocyanidins decrease endothelin-1 production and increase endothelial nitric oxide synthase in human endothelial cells. 2006 , 50, 44-51	65
824	Expression of heme oxygenase-1 protein and messenger RNA in permanent cerebral ischemia in rats. 2006 , 28, 38-45	23
823	Mitogen-activated protein kinase signaling, oxygen sensors and hypoxic induction of neurogenesis. 2006 , 3, 50-5	16
822	The effectiveness of oral tin mesoporphyrin prophylaxis in reducing bilirubin production after an oral heme load in a transgenic mouse model. 2006 , 89, 139-46	8
821	American Pediatric Society Presidential Address 2006: science on the edge with life in the balance. 2006 , 60, 630-5	2
820	Increased heme catabolism in critically ill patients: correlation among exhaled carbon monoxide, arterial carboxyhemoglobin, and serum bilirubin IXalpha concentrations. 2006 , 290, L114-9	50
819	Heme oxygenase activity in fetal and adult sheep is not altered by acclimatization to high altitude hypoxia. 2006 , 84, 893-901	4
818	Endotoxin-induced down-regulation of Elk-3 facilitates heme oxygenase-1 induction in macrophages. 2006 , 176, 2414-20	26
817	Heme oxygenase 1 in cerebrospinal fluid from infants and children after severe traumatic brain injury. 2006 , 28, 342-7	30
816	Chronic nephropathies of cocaine and heroin abuse: a critical review. 2006 , 1, 655-67	91
815	Brain Edema XIII. 2006 ,	7
814	Inhibition of the enzymatic activity of heme oxygenases by azole-based antifungal drugs. 2006 , 319, 277-84	32

813	Skeletal Muscle Plasticity in Health and Disease. 2006 ,		2
812	Apoptosis in liver during malaria: role of oxidative stress and implication of mitochondrial pathway. <i>FASEB Journal</i> , 2006 , 20, 1224-6	0.9	136
811	Bone marrow stem cells as a vehicle for delivery of heme oxygenase-1 gene. 2006 , 15, 79-86		10
810	Albumin-bound bilirubin interacts with nitric oxide by a redox mechanism. 2006 , 8, 487-94		55
809	beta-Carotene and cigarette smoke condensate regulate heme oxygenase-1 and its repressor factor Bach1: relationship with cell growth. 2006 , 8, 1069-80		29
808	Astrocytes induce hemeoxygenase-1 expression in microglia: a feasible mechanism for preventing excessive brain inflammation. 2006 , 26, 1880-7		189
807	Hemin activation ameliorates HIV-1 infection via heme oxygenase-1 induction. 2006 , 176, 4252-7		113
806	Heme oxygenase-1/carbon monoxide: from basic science to therapeutic applications. 2006 , 86, 583-650		1792
805	Hepatic ischemia-reperfusion induces renal heme oxygenase-1 via NF-E2-related factor 2 in rats and mice. 2007 , 71, 817-25		58
804	Carbon monoxide produced by heme oxygenase-1 in response to nitrosative stress induces expression of glutamate-cysteine ligase in PC12 cells via activation of phosphatidylinositol 3-kinase and Nrf2 signaling. <i>Journal of Biological Chemistry</i> , 2007 , 282, 28577-28586	5.4	90
803	Non-heme induction of heme oxygenase-1 does not alter cellular iron metabolism. <i>Journal of Biological Chemistry</i> , 2007 , 282, 10480-6	5.4	40
802	Downregulation of NADPH oxidase, antioxidant enzymes, and inflammatory markers in the heart of streptozotocin-induced diabetic rats by N-acetyl-L-cysteine. 2007 , 292, H1728-36		79
801	Activation of endothelial nitric oxide synthase by dietary isoflavones: role of NO in Nrf2-mediated antioxidant gene expression. 2007 , 75, 261-74		124
800	Mitochondrial localization and function of heme oxygenase-1 in cigarette smoke-induced cell death. 2007 , 36, 409-17		183
799	Hemin, an inducer of heme oxygenase-1, lowers intraocular pressure in rabbits. 2007 , 23, 232-9		13
798	Evidence for the role of endogenous carbon monoxide in memory processing. 2007 , 19, 557-62		14
797	A new activating role for CO in cardiac mitochondrial biogenesis. 2007 , 120, 299-308		174
796	Exhaled nitric oxide and carbon monoxide in respiratory diseases. 2007 , 1, 024002		12

795	Influence of oxidative stress and inflammation on rHuEPO requirements of hemodialysis patients with CRP values "in normal range". 2007 , 39, 3035-40	4
794	Inhibition of heme oxygenase-1 protects against tissue injury in carbon tetrachloride exposed livers. 2007 , 139, 113-20	16
793	Triphlorethol-A induces heme oxygenase-1 via activation of ERK and NF-E2 related factor 2 transcription factor. 2007 , 581, 2000-8	63
792	The safety profile of Hemospan [®] : a new oxygen therapeutic designed using maleimide poly(ethylene) glycol conjugation to human hemoglobin. 2007 , 9, 213-225	8
791	Tumor-targeted induction of oxystress for cancer therapy. 2007 , 15, 475-86	175
790	Neonatal Jaundice: Bilirubin Physiology and Clinical Chemistry. 2007 , 8, e58-e67	9
789	Effectiveness of novel imidazole-dioxolane heme oxygenase inhibitors in renal proximal tubule epithelial cells. 2007 , 323, 763-70	23
788	Heme oxygenase-1 in tumors: is it a false friend?. 2007 , 9, 2099-117	303
787	BMP4 induces HO-1 via a Smad-independent, p38MAPK-dependent pathway in pulmonary artery myocytes. 2007 , 37, 598-605	37
786	An overview of the biological significance of endogenous gases: new roles for old molecules. 2007 , 35, 1138-41	114
785	Microsatellite polymorphism in the heme oxygenase-1 gene promoter is associated with iron status in persons with type 2 diabetes mellitus. 2007 , 86, 1347-53	34
784	The CO/HO system reverses inhibition of mitochondrial biogenesis and prevents murine doxorubicin cardiomyopathy. 2007 , 117, 3730-41	181
783	Heme Oxygenase and Carbon Monoxide in Endothelial Cell Biology. 994-1003	
782	HO-1 promoter polymorphism associated with rheumatoid arthritis. 2007 , 56, 3953-8	61
781	Multiple mechanisms that prevent excessive brain inflammation. 2007 , 85, 2298-305	32
780	Heme oxygenase inhibition by 2-oxy-substituted 1-(1H-imidazol-1-yl)-4-phenylbutanes: effect of halogen substitution in the phenyl ring. 2007 , 15, 3225-34	67
779	High-loading nanosized micelles of copoly(styrene-maleic acid)-zinc protoporphyrin for targeted delivery of a potent heme oxygenase inhibitor. 2007 , 28, 1871-81	79
778	Role of vasoactive substances on endometrial and ovarian function. 2007 , 6, 157-164	

777	The anti-inflammatory actions of LCY-2-CHO, a carbazole analogue, in vascular smooth muscle cells. 2007 , 74, 298-308	37
776	Heme oxygenase-1 mediates cytoprotective effects of immunostimulation in microglia. 2007 , 74, 723-9	45
775	2',4',6'-tris(methoxymethoxy) chalcone protects against trinitrobenzene sulfonic acid-induced colitis and blocks tumor necrosis factor-alpha-induced intestinal epithelial inflammation via heme oxygenase 1-dependent and independent pathways. 2007 , 74, 870-80	89
774	A novel inhibitor of advanced glycation and endoplasmic reticulum stress reduces infarct volume in rat focal cerebral ischemia. 2007 , 1183, 124-37	24
773	Resveratrol alleviates cardiac dysfunction in streptozotocin-induced diabetes: Role of nitric oxide, thioredoxin, and heme oxygenase. 2007 , 43, 720-9	231
772	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
771	Can ozonotherapy be performed if the biochemistry of the process cannot be controlled?. 2007 , 38, 584-5	7
770	Changes in hepatic gene expression related to innate immunity, growth and iron metabolism in GH-transgenic amago salmon (<i>Oncorhynchus masou</i>) by cDNA subtraction and microarray analysis, and serum lysozyme activity. 2007 , 151, 42-54	35
769	Brain death activates donor organs and is associated with a worse I/R injury after liver transplantation. 2007 , 7, 1584-93	217
768	Induction of heme oxygenase-1 improves impaired intestinal transit after burn injury. 2007 , 141, 385-93	17
767	Expression and protective role of heme oxygenase-1 in delayed myocardial preconditioning. 2007 , 1095, 251-61	36
766	Heme oxygenase-1 gene promoter polymorphism is associated with risk of gastric adenocarcinoma and lymphovascular tumor invasion. 2007 , 14, 2250-6	46
765	Effect of melatonin on altered expression of vasoregulatory genes during hepatic ischemia/reperfusion. 2007 , 30, 1619-24	14
764	CD4+ CD25+ FoxP3+ T-cell infiltration and heme oxygenase-1 expression correlate with tumor grade in human gliomas. 2007 , 83, 145-52	107
763	Heme oxygenase 1 expression in rat liver during ageing and ethanol intoxication. 2007 , 8, 365-72	27
762	An improved method for purification of recombinant truncated heme oxygenase-1 by expanded bed adsorption and gel filtration. 2007 , 30, 87-90	1
761	Heme oxygenase-1 expression in premature and mature neonates during the first week of life. 2007 , 166, 1033-8	8
760	Inhibition of plasminogen activator inhibitor-1 expression in vascular smooth muscle cells by protoporphyrins through a heme oxygenase-independent mechanism. 2008 , 312, 93-101	3

759	Oridonin promotes CD4+/CD25+ Treg differentiation, modulates Th1/Th2 balance and induces HO-1 in rat splenic lymphocytes. 2008 , 57, 163-70	33
758	The heme oxygenase-carbon monoxide system: regulation and role in stress response and organ failure. 2008 , 34, 640-8	589
757	Heme oxygenase and carbon monoxide initiate homeostatic signaling. 2008 , 86, 267-79	180
756	Increased heme oxygenase-1 expression in premature infants with respiratory distress syndrome. 2008 , 167, 1379-83	8
755	Heme oxygenase-1 and NADPH cytochrome P450 reductase expression in experimental allergic encephalomyelitis: an expanded view of the stress response. 2000 , 75, 2555-62	44
754	Bilirubin as an endogenous modulator of neurotrophin redox signaling. 2008 , 86, 2235-49	59
753	Inhibition of heme oxygenase 1 expression by small interfering RNA decreases orthotopic tumor growth in livers of mice. 2008 , 123, 1269-77	78
752	Reactive oxygen species: current knowledge and applications in cancer research and therapeutic. 2008 , 104, 657-67	214
751	Adenosine induces hemeoxygenase-1 expression in microglia through the activation of phosphatidylinositol 3-kinase and nuclear factor E2-related factor 2. 2008 , 56, 1028-37	38
750	Intragastric administration with recombinant Lactococcus lactis producing heme oxygenase-1 prevents lipopolysaccharide-induced endotoxemia in rats. 2008 , 283, 62-8	9
749	Overexpression of heme oxygenase-1 is neuroprotective in a model of permanent middle cerebral artery occlusion in transgenic mice. 1999 , 72, 1187-203	339
748	Heme oxygenase enzyme activity in human seminal plasma of fertile and infertile males. 2008 , 40, 292-7	12
747	Improved renal function after kidney transplantation is associated with heme oxygenase-1 polymorphism. 2008 , 22, 609-16	24
746	The coffee diterpene kahweol induces heme oxygenase-1 via the PI3K and p38/Nrf2 pathway to protect human dopaminergic neurons from 6-hydroxydopamine-derived oxidative stress. 2008 , 582, 2655-62	112
745	Bilirubin inhibits Plasmodium falciparum growth through the generation of reactive oxygen species. 2008 , 44, 602-13	52
744	The role of oxidative stress in ambient particulate matter-induced lung diseases and its implications in the toxicity of engineered nanoparticles. 2008 , 44, 1689-99	663
743	Ubiquitin-proteasome system mediates heme oxygenase-1 degradation through endoplasmic reticulum-associated degradation pathway. 2008 , 1783, 1826-34	45
742	The homeostasis of iron and suppression of HO-1 involved in the protective effects of nimodipine on neurodegeneration induced by aluminum overloading in mice. 2008 , 586, 100-5	15

741	Protective effects of pyrrolidine dithiocarbamate against airway inflammation in the ovalbumin-induced mouse model. 2008 , 590, 355-62	2
740	Mechanism of phytoestrogen puerarin-mediated cytoprotection following oxidative injury: estrogen receptor-dependent up-regulation of PI3K/Akt and HO-1. 2008 , 233, 371-81	81
739	Genetic variation in heme oxygenase 1 (HMOX1) and the risk of recurrent venous thromboembolism. 2008 , 47, 566-70	28
738	Up-regulation of hepatic heme oxygenase-1 expression by locally induced interleukin-6 in rats administered carbon tetrachloride intraperitoneally. 2008 , 179, 124-9	10
737	Quantitative real-time polymerase chain reaction (qRT-PCR) restriction fragment length polymorphism (RFLP) method for monitoring highly conserved transgene expression during gene therapy. 2008 , 152, 290-7	4
736	An old dream revitalised: preconditioning strategies to protect surgical flaps from critical ischaemia and ischaemia-reperfusion injury. 2008 , 61, 503-11	77
735	X-ray crystal structure of human heme oxygenase-1 in complex with 1-(adamantan-1-yl)-2-(1H-imidazol-1-yl)ethanone: a common binding mode for imidazole-based heme oxygenase-1 inhibitors. 2008 , 51, 5943-52	45
734	Implication of heme oxygenase-1 in the sensitivity of nasopharyngeal carcinomas to radiotherapy. 2008 , 27, 13	17
733	Heme oxygenase-1 and the vascular bed: from molecular mechanisms to therapeutic opportunities. 2008 , 10, 1767-812	206
732	Oxidants in Biology. 2008 ,	6
731	Influence of heme oxygenase-1 on microcirculation after kidney transplantation. 2008 , 148, 126-35	21
730	Secoisolariciresinol diglucoside induces neovascularization-mediated cardioprotection against ischemia-reperfusion injury in hypercholesterolemic myocardium. 2008 , 44, 170-9	38
729	Exacerbated corneal inflammation and neovascularization in the HO-2 null mice is ameliorated by biliverdin. 2008 , 87, 268-78	27
728	Influence of polymorphism within the heme oxygenase-I promoter on overall survival and transplantation-related mortality after allogeneic stem cell transplantation. 2008 , 14, 1180-1189	13
727	NS-398, a selective COX-2 inhibitor, inhibits proliferation of IL-1beta-stimulated vascular smooth muscle cells by induction of HO-1. 2008 , 376, 753-7	20
726	Heme oxygenase-1 is an anti-inflammatory host factor that promotes murine plasmodium liver infection. 2008 , 3, 331-8	108
725	Upregulation of heme oxygenase-1 expression in areca-quid-chewing-associated oral squamous cell carcinoma. 2008 , 107, 355-63	28
724	Inhibitors of the heme oxygenase - carbon monoxide system: on the doorstep of the clinic?. 2008 , 86, 577-99	45

723	Failed induction of heme oxygenase 1 in endothelial cells exposed to the hemoglobin based oxygen carrier Oxyglobin. 2008 , 36, 34-44		2
722	Exhaled carbon monoxide levels: as a marker of clinical severity and control of asthma. 2008 , 45, 677-80		10
721	Endothelial dysfunction: from molecular mechanisms to measurement, clinical implications, and therapeutic opportunities. 2008 , 10, 1631-74		131
720	Heme oxygenase-1 regulates cardiac mitochondrial biogenesis via Nrf2-mediated transcriptional control of nuclear respiratory factor-1. 2008 , 103, 1232-40		393
719	Arsenic methylation capability, heme oxygenase-1 and NADPH quinone oxidoreductase-1 genetic polymorphisms and the stage and grade of urothelial carcinomas. 2008 , 80, 405-12		9
718	Induction of heme oxygenase-1 by plant extract KIOM-79 via Akt pathway and NF-E2 related factor 2 in pancreatic beta-cells. 2008 , 71, 1392-9		14
717	Carbon monoxide and nitric oxide mediate cytoskeletal reorganization in microvascular cells via vasodilator-stimulated phosphoprotein phosphorylation: evidence for blunted responsiveness in diabetes. 2008 , 57, 2488-94		46
716	Heme oxygenase-1-derived carbon monoxide induces the Mycobacterium tuberculosis dormancy regulon. <i>Journal of Biological Chemistry</i> , 2008 , 283, 18032-9	5-4	174
715	Selective regulation of heme oxygenase-1 expression and function by insulin through IRS1/phosphoinositide 3-kinase/Akt-2 pathway. <i>Journal of Biological Chemistry</i> , 2008 , 283, 34327-36	5-4	52
714	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
713	The polyacetylenes falcarinol and falcarindiol affect stress responses in myotube cultures in a biphasic manner. 2008 , 6, 239-51		24
712	Cerebroprotective functions of HO-2. 2008 , 14, 443-53		61
711	Regulation of maternal and fetal hemodynamics by heme oxygenase in mice. 2008 , 78, 744-51		30
710	Expression of pulmonary vasoactive factors after sevoflurane anaesthesia in rats: a quantitative real-time polymerase chain reaction study. 2008 , 100, 190-4		14
709	Heme oxygenase-1 and carbon monoxide: emerging therapeutic targets in inflammation and allergy. 2008 , 2, 159-65		76
708	Modulation of the secondary injury process after spinal cord injury in Bach1-deficient mice by heme oxygenase-1. 2008 , 9, 611-20		21
707	15d-PGJ2 upregulates synthesis of IL-8 in endothelial cells through induction of oxidative stress. 2008 , 10, 2035-46		12
706	Opposite expression of the antioxidant heme oxygenase-1 in primary cells and tumor cells: regulation by interaction of USF-2 and Fra-1. 2008 , 10, 1163-74		15

705	Activation of the insulin receptor (IR) by insulin and a synthetic peptide has different effects on gene expression in IR-transfected L6 myoblasts. 2008 , 412, 435-45	23
704	Haem oxygenase-1 gene transfer protects retinal ganglion cells from ischaemia/reperfusion injury. 2008 , 115, 335-42	14
703	Protective effect of baicalin against carbon tetrachloride-induced acute hepatic injury in mice. 2008 , 106, 136-43	64
702	Aprotinin Inhibits Vascular Smooth Muscle Cell Inflammation and Proliferation via Induction of HO-1. 2009 , 13, 123-9	6
701	Effects of Oxidative Stress and Antioxidant on the Expression of Heme Oxygenase-1 in Human RPE. 2009 , 50, 1247	
700	Heme oxygenase-1: its therapeutic roles in inflammatory diseases. 2009 , 9, 12-9	85
699	Iron metabolism genes, low-level lead exposure, and QT interval. 2009 , 117, 80-5	25
698	Acute effect of cigarette smoking on placental circulation - a study by carbon-monoxide measurement and Doppler assessment. 2009 , 96, 243-50	3
697	Heme oxygenase-1 accelerates cutaneous wound healing in mice. 2009 , 4, e5803	96
696	The Nrf2-ARE cytoprotective pathway in astrocytes. 2009 , 11, e17	199
695	Circadian variability of bilirubin in healthy men during normal sleep and after an acute shift of sleep. 2009 , 26, 1613-21	20
694	Neuroprotective role of heme-oxygenase 1 against iodoacetate-induced toxicity in rat cerebellar granule neurons: Role of bilirubin. 2009 , 43, 214-23	9
693	Oligomerization is crucial for the stability and function of heme oxygenase-1 in the endoplasmic reticulum. <i>Journal of Biological Chemistry</i> , 2009 , 284, 22672-9	5-4 40
692	Heme oxygenase-2 deletion causes endothelial cell activation marked by oxidative stress, inflammation, and angiogenesis. 2009 , 331, 925-32	49
691	Negative feedback maintenance of heme homeostasis by its receptor, Rev-erbalpha. 2009 , 23, 2201-9	83
690	Crystal structure of rat haem oxygenase-1 in complex with ferrous verdohaem: presence of a hydrogen-bond network on the distal side. 2009 , 419, 339-45	15
689	Expression of heme oxygenase-1, hypoxia inducible factor-1alpha, and ubiquitin in peripheral inflammatory cells from patients with coronary heart disease. 2009 , 47, 327-33	13
688	Regulation of enteric neuron migration by the gaseous messenger molecules CO and NO. 2009 , 136, 85-93	21

687	Heme oxygenase expression in human placental villous tissue in response to exposure to in vitro ischemia-reperfusion injury. 2009 , 28, 256-72		8
686	Heme Oxygenase Contributes to Alleviate Salinity Damage in Glycine max L. Leaves. 2009 , 2009, 848516		11
685	Cytoprotective function of heme oxygenase 1 induced by a nitrated cyclic nucleotide formed during murine salmonellosis. 2009 , 182, 3746-56		50
684	Evidence of carbon monoxide-mediated phase advancement of the yeast metabolic cycle. 2009 , 106, 14293-6		17
683	Inhibitors of heme oxygenase reduce invasion of human primary cytotrophoblast cells in vitro. 2009 , 30, 536-8		23
682	Effect of heme oxygenase-1 deficiency on placental development. 2009 , 30, 861-8		103
681	Regulation of heme oxygenase-1 expression and MAPK pathways in response to kaempferol and rhamnocitrin in PC12 cells. 2009 , 237, 59-68		60
680	Activation of Nrf2 by cadmium and its role in protection against cadmium-induced apoptosis in rat kidney cells. 2009 , 241, 81-9		85
679	Characterization of the S-denitrosylating activity of bilirubin. <i>Journal of Cellular and Molecular Medicine</i> , 2009 , 13, 2365-2375	5.6	50
678	Malarial infection develops mitochondrial pathology and mitochondrial oxidative stress to promote hepatocyte apoptosis. 2009 , 46, 271-81		58
677	Signaling events in apoptotic photokilling of 5-aminolevulinic acid-treated tumor cells: inhibitory effects of nitric oxide. 2009 , 47, 731-40		31
676	Protective mechanisms of 3-caffeoyl, 4-dihydrocaffeoyl quinic acid from <i>Salicornia herbacea</i> against tert-butyl hydroperoxide-induced oxidative damage. 2009 , 181, 366-76		43
675	Investigations of the posttranslational mechanism of arsenite-mediated downregulation of human cytochrome P450A1 levels: the role of heme oxygenase-1. 2009 , 23, 222-32		13
674	Upregulation of heme oxygenase-1 inhibits the maturation and mineralization of osteoblasts. 2010 , 222, 757-68		47
673	Protective mechanism of KIOM-4 against streptozotocin induced diabetic cells: Involvement of heme oxygenase-1. 2009 , 14, 295-301		5
672	Role of Nrf2-mediated heme oxygenase-1 upregulation in adaptive survival response to nitrosative stress. 2009 , 32, 1163-76		108
671	Isoliquiritigenin, from <i>Dalbergia odorifera</i> , up-regulates anti-inflammatory heme oxygenase-1 expression in RAW264.7 macrophages. 2009 , 58, 257-62		72
670	Augmented heme oxygenase-1 expression in areca quid chewing-associated oral submucous fibrosis. 2009 , 15, 281-6		19

669	Anti-atherogenic effect of statins: role of nitric oxide, peroxynitrite and haem oxygenase-1. 2009 , 156, 1256-66	56
668	Carbon monoxide produced by intrasinusoidally located haem-oxygenase-1 regulates the vascular tone in cirrhotic rat liver. 2009 , 29, 650-60	25
667	Synthesis and evaluation of imidazole-dioxolane compounds as selective heme oxygenase inhibitors: effect of substituents at the 4-position of the dioxolane ring. 2009 , 17, 2461-75	28
666	Vitagenes, cellular stress response, and acetylcarnitine: relevance to hormesis. 2009 , 35, 146-60	67
665	Therapeutic strategies by modulating oxygen stress in cancer and inflammation. 2009 , 61, 290-302	400
664	C-Terminal membrane spanning region of human heme oxygenase-1 mediates a time-dependent complex formation with cytochrome P450 reductase. 2009 , 48, 190-7	20
663	Oxidative stress-related genotypes, fruit and vegetable consumption and breast cancer risk. 2009 , 30, 777-84	66
662	Cerebral malaria and the hemolysis/methemoglobin/heme hypothesis: shedding new light on an old disease. 2009 , 41, 711-6	43
661	Heme oxygenase-1 induction prevents neuronal damage triggered during mitochondrial inhibition: role of CO and bilirubin. 2009 , 41, 1304-14	26
660	Heme oxygenase-1 mediates the inhibitory actions of brazilin in RAW264.7 macrophages stimulated with lipopolysaccharide. 2009 , 121, 79-85	43
659	Down-regulation of aminolevulinatase synthase, the rate-limiting enzyme for heme biosynthesis in Alzheimer's disease. 2009 , 460, 180-4	16
658	Oxidative stress of CeO ₂ nanoparticles via p38-Nrf-2 signaling pathway in human bronchial epithelial cell, Beas-2B. 2009 , 187, 77-83	206
657	Simvastatin ameliorates established pulmonary hypertension through a heme oxygenase-1 dependent pathway in rats. 2009 , 10, 32	23
656	Pretreatment with glutamine attenuates anoxia/reoxygenation injury of human proximal renal tubular epithelial cells via induction of heme oxygenase-1. 2009 , 84, 1-8	8
655	Risk reduction of ethyl acetate fraction of <i>Empetrum nigrum</i> var. <i>japonicum</i> via antioxidant properties against hydrogen peroxide-induced cell damage. 2009 , 72, 1499-508	10
654	Prognostic factors influencing the patency of hemodialysis vascular access: literature review and novel therapeutic modality by far infrared therapy. 2009 , 72, 109-16	27
653	Carbon monoxide rescues heme oxygenase-1-deficient mice from arterial thrombosis in allogeneic aortic transplantation. 2009 , 175, 422-9	67
652	Heme Oxygenase as a Therapeutic Funnel in Nutritional Redox Homeostasis and Cellular Stress Response. 2009 , 39-52	

651	Lowering arterial pressure delays the oxidative stress generation in a renal experimental model of hypertension. 2009 , 54, 348-54	4
650	Local preconditioning by thermal stress accelerates microvascular thrombus formation. 2009 , 31, 627-33	6
649	Heme oxygenase 1 polymorphisms and plasma concentrations in critically ill patients. 2010 , 34, 558-64	23
648	Heme oxygenase 1 protects against hepatic hypoxia and injury from hemorrhage via regulation of cellular respiration. 2010 , 33, 274-81	21
647	Puerarin suppresses AGEs-induced inflammation in mouse mesangial cells: a possible pathway through the induction of heme oxygenase-1 expression. 2010 , 244, 106-13	51
646	Heme oxygenase-1 and carbon monoxide promote neovascularization after myocardial infarction by modulating the expression of HIF-1alpha, SDF-1alpha and VEGF-B. 2010 , 635, 156-64	60
645	Heme oxygenase-1 contributes to pathology associated with thrombin-induced striatal and cortical injury in organotypic slice culture. 2010 , 1347, 170-8	27
644	The anti-inflammatory effects of adiponectin are mediated via a heme oxygenase-1-dependent pathway in rat Kupffer cells. 2010 , 51, 1420-9	107
643	Effect of interactions of glutathione S-transferase T1, M1, and P1 and HMOX1 gene promoter polymorphisms with heavy smoking on the risk of rheumatoid arthritis. 2010 , 62, 3196-210	42
642	Structural characterization of human heme oxygenase-1 in complex withazole-based inhibitors. 2010 , 104, 324-30	24
641	Comparative metabolomics approach coupled with cell- and gene-based assays for species classification and anti-inflammatory bioactivity validation of Echinacea plants. 2010 , 21, 1045-59	43
640	Shorter GT repeat polymorphism in the heme oxygenase-1 gene promoter has protective effect on ischemic stroke in dyslipidemia patients. 2010 , 17, 12	22
639	Heme and non-heme iron transporters in non-polarized and polarized cells. 2010 , 11, 39	46
638	Hydrogen sulfide as a gasotransmitter. 2010 , 113, 14-26	374
637	Long-acting genipin derivative protects retinal ganglion cells from oxidative stress models in vitro and in vivo through the Nrf2/antioxidant response element signaling pathway. 2010 , 115, 79-91	54
636	Direct effect of carbon monoxide on relaxation induced by electrical field stimulation in rat corpus cavernosum. 2010 , 51, 572-8	3
635	Anti-inflammatory pathways and alcoholic liver disease: role of an adiponectin/interleukin-10/heme oxygenase-1 pathway. 2010 , 16, 1330-6	78
634	Exhaled carbon monoxide in airway diseases: from research findings to clinical relevance. 2010 , 4, 047102	30

633	Human sickle cell blood modulates endothelial heme oxygenase activity: effects on vascular adhesion and reactivity. 2010 , 30, 305-12	20
632	Haem oxygenase (HO): an overlooked enzyme of plant metabolism and defence. 2010 , 61, 2255-70	135
631	Heme oxygenase expression and Nrf2 signaling during hibernation in ground squirrels. 2010 , 88, 379-87	33
630	The effects of azole-based heme oxygenase inhibitors on rat cytochromes P450 2E1 and 3A1/2 and human cytochromes P450 3A4 and 2D6. 2010 , 334, 981-7	10
629	Recombinant truncated and microsomal heme oxygenase-1 and -2: differential sensitivity to inhibitors. 2010 , 88, 480-6	6
628	Lipopolysaccharide suppresses HIV-1 replication in human monocytes by protein kinase C-dependent heme oxygenase-1 induction. 2010 , 87, 915-24	29
627	Pivotal Advance: Heme oxygenase 1 expression by human CD4+ T cells is not sufficient for their development of immunoregulatory capacity. 2010 , 87, 193-202	21
626	Heme oxygenase-2 modulates early pathogenesis after traumatic injury to the immature brain. 2010 , 32, 81-90	13
625	Carbon monoxide: endogenous mediator, potential diagnostic and therapeutic target. 2010 , 42, 1-12	33
624	Metalloporphyrins in the management of neonatal hyperbilirubinemia. 2010 , 15, 164-8	18
623	Disrupted postnatal lung development in heme oxygenase-1 deficient mice. 2010 , 11, 142	13
622	Investigation of the immunosuppressive activity of Physalin H on T lymphocytes. 2010 , 10, 290-7	36
621	Up-regulation of Nrf2-mediated heme oxygenase-1 expression by eckol, a phlorotannin compound, through activation of Erk and PI3K/Akt. 2010 , 42, 297-305	126
620	Isoliquiritigenin 2'-methyl ether induces growth inhibition and apoptosis in oral cancer cells via heme oxygenase-1. 2010 , 24, 776-82	46
619	Decreased heme oxygenase-1 expression distinguishes human melanomas from melanocytic nevi. 2010 , 23, 841-4	3
618	Adiponectin-mediated heme oxygenase-1 induction protects against iron-induced liver injury via a PPAR α -dependent mechanism. 2010 , 177, 1697-709	58
617	Redox homeostasis and cellular stress response in aging and neurodegeneration. 2010 , 610, 285-308	112
616	The effect of curcumin on insulin release in rat-isolated pancreatic islets. 2010 , 61, 557-66	27

615	Study on association between genetic polymorphisms of haem oxygenase-1, tumour necrosis factor, cadmium exposure and malaria pathogenicity and severity. 2010 , 9, 260	15
614	Selective brain cooling in rats ameliorates intracerebral hemorrhage and edema caused by penetrating brain injury: possible involvement of heme oxygenase-1 expression. 2011 , 28, 1237-45	40
613	Some Molecular Aspects in the Biology of Respiration. 2011 , 85-140	
612	A new role for myeloid HO-1 in the innate to adaptive crosstalk and immune homeostasis. 2011 , 780, 101-11	21
611	Echinacea alkamides prevent lipopolysaccharide/D-galactosamine-induced acute hepatic injury through JNK pathway-mediated HO-1 expression. 2011 , 59, 11966-74	20
610	Crossroads between Innate and Adaptive Immunity III. 2011 ,	3
609	Heme oxygenase/carbon monoxide-biliverdin pathway may be involved in the antinociceptive activity of etoricoxib, a selective COX-2 inhibitor. 2011 , 63, 112-9	21
608	Oxidative Stress and Free Radical Damage in Neurology. 2011 ,	16
607	Update in chronic obstructive pulmonary disease: role of antioxidant and metabolizing gene polymorphisms. 2011 , 37, 364-75	19
606	HMOX1 is an important prognostic indicator of nonmuscle invasive bladder cancer recurrence and progression. 2011 , 185, 701-5	25
605	Toxicity of Metal Oxides Nanoparticles. 2011 , 5, 145-178	37
604	Renal liver-type fatty acid binding protein (L-FABP) attenuates acute kidney injury in aristolochic acid nephrotoxicity. 2011 , 178, 1021-32	55
603	Caveolin-1 deletion reduces early brain injury after experimental intracerebral hemorrhage. 2011 , 178, 1749-61	56
602	Aminolevulinic Acid (ALA) as a Prodrug in Photodynamic Therapy of Cancer. <i>Molecules</i> , 2011 , 16, 4140-4164	149
601	Protection of acute myeloid leukaemia cells from apoptosis induced by front-line chemotherapeutics is mediated by haem oxygenase-1. 2011 , 2, 658-68	59
600	Gene expression of heme oxygenase-1 and nitric oxide synthase on trophoblast of preeclampsia. 2011 , 54, 341	2
599	Biliverdin Rescues the HO-2 Null Mouse Phenotype of Unresolved Chronic Inflammation Following Corneal Epithelial Injury. 2011 , 52, 3246-53	34
598	Protective Effect of Heme Oxygenase-1 on High Glucose-Induced Pancreatic β Cell Injury. 2011 , 35, 469-79	18

- 597 Therapeutic potential of heme oxygenase-1 in cardiovascular disease. **2011**, 2, 166-179
- 596 Heme-oxygenases during erythropoiesis in K562 and human bone marrow cells. **2011**, 6, e21358 19
- 595 The amino-terminus of nitric oxide sensitive guanylyl cyclase ~~is~~ does not affect dimerization but influences subcellular localization. **2011**, 6, e25772 14
- 594 SC1/hevin and reactive gliosis after transient ischemic stroke in young and aged rats. **2011**, 70, 913-29 37
- 593 Ferritin/alanine aminotransferase ratio as a possible marker for predicting the prognosis of acute liver injury. **2011**, 26, 1326-32 10
- 592 Ectopic overexpression of haem oxygenase-1 protects kidneys from carboplatin-mediated apoptosis. **2011**, 162, 1716-30 7
- 591 The heme oxygenase system and oral diseases. **2011**, 17, 252-7 18
- 590 Maternal quercetin intake during pregnancy results in an adapted iron homeostasis at adulthood. **2011**, 290, 350-8 38
- 589 Bilirubin production and the risk of bilirubin neurotoxicity. **2011**, 35, 121-6 43
- 588 Neuroprotective and anti-inflammatory effects of mollugin via up-regulation of heme oxygenase-1 in mouse hippocampal and microglial cells. **2011**, 654, 226-34 43
- 587 Effects of heme oxygenase-1 on induction and development of chemically induced squamous cell carcinoma in mice. **2011**, 51, 1717-26 40
- 586 Induction of heat shock proteins in the adult rat cerebral cortex following pilocarpine-induced status epilepticus. **2011**, 1368, 271-80 5
- 585 Role of heme oxygenase-1 in inflammatory response induced by mechanical stretch in synovial cells. **2011**, 60, 861-7 13
- 584 Cloning and characterization of a heme oxygenase-2 gene from alfalfa (*Medicago sativa* L.). **2011**, 165, 1253-63 5
- 583 P38-Nrf-2 signaling pathway of oxidative stress in mice caused by nanoparticulate TiO₂. **2011**, 140, 186-97 70
- 582 Up-regulation of heme oxygenase-1 as a resistance mechanism against MPP⁺ induced cytotoxicity in Raw 264.7 macrophages. **2011**, 7, 120-126
- 581 The influence of brain death on donor liver and the potential mechanisms of protective intervention. **2011**, 5, 8-14 11
- 580 Cholesterol-enriched diet causes age-related macular degeneration-like pathology in rabbit retina. **2011**, 11, 22 46

579	PTEN deletion and heme oxygenase-1 overexpression cooperate in prostate cancer progression and are associated with adverse clinical outcome. 2011 , 224, 90-100	55
578	Therapeutic potential of pegylated hemin for reactive oxygen species-related diseases via induction of heme oxygenase-1: results from a rat hepatic ischemia/reperfusion injury model. 2011 , 339, 779-89	38
577	Heme oxygenase-1 overexpression fails to attenuate hypertension when the nitric oxide synthase system is not fully operative. 2011 , 87, 341-9	9
576	Celastrol inhibits aminoglycoside-induced ototoxicity via heat shock protein 32. 2011 , 2, e195	43
575	Heme oxygenase-1 induction protects the heart and modulates cellular and extracellular remodelling after myocardial infarction in rats. 2011 , 236, 1437-48	30
574	The Role of Reactive Oxygen Species in the Pathogenesis of Traumatic Brain Injury. 2011 , 99-118	2
573	Carbon monoxide as an endogenous vascular modulator. 2011 , 301, H1-H11	138
572	Characterization of a wheat heme oxygenase-1 gene and its responses to different abiotic stresses. 2011 , 12, 7692-707	12
571	Age-related hearing loss and expression of antioxidant enzymes in BDF1 mice. 2011 , 131, 1020-4	3
570	Effect of Treatment with Cyanidin-3-O- β -D-Glucoside on Rat Ischemic/Reperfusion Brain Damage. 2012 , 2012, 285750	15
569	The multiple functions of heme oxygenase-1 in the liver. 2012 , 50, 34-40	61
568	Heme oxygenase-1 alleviates mouse hepatic failure through suppression of adaptive immune responses. 2012 , 340, 2-10	15
567	Heme oxygenase-1 in environmental toxin-induced lung disease. 2012 , 22, 323-9	20
566	Leishmania infantum chagasi in northeastern Brazil: asymptomatic infection at the urban perimeter. 2012 , 86, 99-107	41
565	Virus infection-induced bronchial asthma exacerbation. 2012 , 2012, 834826	35
564	Antithrombotic properties of water-soluble carbon monoxide-releasing molecules. 2012 , 32, 2149-57	47
563	Urinary excretion of bilirubin oxidative metabolites in arsenite-treated mice. 2012 , 37, 655-61	4
562	Endoplasmic reticulum anchored heme-oxygenase 1 faces the cytosol. 2012 , 97, 1489-93	52

561	Haem oxygenase-1: non-canonical roles in physiology and pathology. 2012 , 122, 93-103	119
560	Microsatellite polymorphism in the heme oxygenase-1 gene promoter and the risk of psoriasis in Taiwanese. 2012 , 304, 739-44	4
559	Curcumin ameloriates heat stress via inhibition of oxidative stress and modulation of Nrf2/HO-1 pathway in quail. 2012 , 50, 4035-41	87
558	Redox regulation of mitochondrial biogenesis. 2012 , 53, 2043-53	122
557	Protective action of nipradilol mediated through S-nitrosylation of Keap1 and HO-1 induction in retinal ganglion cells. 2012 , 61, 1242-53	20
556	High expression of heme oxygenase-1 is associated with tumor invasiveness and poor clinical outcome in non-small cell lung cancer patients. 2012 , 35, 461-71	67
555	A reaction-based fluorescent probe for selective imaging of carbon monoxide in living cells using a palladium-mediated carbonylation. 2012 , 134, 15668-71	307
554	Neuroprotective effects of black soybean anthocyanins via inactivation of ASK1-JNK/p38 pathways and mobilization of cellular sialic acids. 2012 , 90, 874-82	51
553	Ethyl pyruvate-mediated Nrf2 activation and hemeoxygenase 1 induction in astrocytes confer protective effects via autocrine and paracrine mechanisms. 2012 , 61, 89-99	29
552	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
551	17-Hydroxy-jolkinolide B, a diterpenoid from <i>Euphorbia fischeriana</i> , inhibits inflammatory mediators but activates heme oxygenase-1 expression in lipopolysaccharide-stimulated murine macrophages. 2012 , 12, 101-9	28
550	HSP32 (HO-1) inhibitor, copoly(styrene-maleic acid)-zinc protoporphyrin IX, a water-soluble micelle as anticancer agent: In vitro and in vivo anticancer effect. 2012 , 81, 540-7	30
549	Brain iron accumulation in aging and neurodegenerative disorders. 2012 , 12, 1467-80	67
548	Evaluation of imidazole-based compounds as heme oxygenase-1 inhibitors. 2012 , 80, 876-86	29
547	Probing HSA and AGP Drug-Binding Sites by Electronic Circular Dichroism. 2012 , 665-705	
546	Reduced heme oxygenase-1 expression in steatotic livers infected with hepatitis C virus. 2012 , 23, 649-55	13
545	Preventive and therapeutic effects of oleuropein against carbon tetrachloride-induced liver damage in mice. 2012 , 65, 451-64	63
544	Epigallocatechin gallate induces expression of heme oxygenase-1 in endothelial cells via p38 MAPK and Nrf-2 that suppresses proinflammatory actions of TNF- α . 2012 , 23, 1134-45	82

543	Pathological conditions involving extracellular hemoglobin: molecular mechanisms, clinical significance, and novel therapeutic opportunities for α 1-microglobulin. 2012 , 17, 813-46		73
542	Characterization of a Heme Oxygenase β from Tobacco That Is Involved in Some Abiotic Stress Responses. 2012 , 173, 113-123		4
541	Emerging concepts on the anti-inflammatory actions of carbon monoxide-releasing molecules (CO-RMs). 2012 , 2, 28		67
540	Heme oxygenase, inflammation, and fibrosis: the good, the bad, and the ugly?. <i>Frontiers in Pharmacology</i> , 2012 , 3, 81	5.6	63
539	Evaluating the beneficial and detrimental effects of bile pigments in early and later life. <i>Frontiers in Pharmacology</i> , 2012 , 3, 115	5.6	4
538	Elucidating the Role of Biliverdin Reductase in the Expression of Heme Oxygenase-1 as a Cytoprotective Response to Stress. 2012 ,		1
537	Oxidative damage of lung and its protective mechanism in mice caused by long-term exposure to titanium dioxide nanoparticles. 2012 , 100, 2554-62		49
536	Heme oxygenase inhibition by α -(1H-imidazol-1-yl)- β -phenylalkanes: effect of introduction of heteroatoms in the alkyl linker. 2012 , 7, 897-902		20
535	Hepatocyte growth factor overexpression ameliorates liver inflammation and fibrosis in a mouse model of nonalcoholic steatohepatitis. 2012 , 6, 620-30		12
534	Genetic causation of neointimal hyperplasia in hemodialysis vascular access dysfunction. 2012 , 25, 65-73		9
533	Therapeutic potential of carbon monoxide in multiple sclerosis. 2012 , 167, 179-87		49
532	Immunomodulatory properties of mesenchymal stem cells: cytokines and factors. 2012 , 67, 1-8		165
531	Resistance of neuroblastoma GI-ME-N cell line to glutathione depletion involves Nrf2 and heme oxygenase-1. 2012 , 52, 488-96		34
530	Heme oxygenase-1 posttranslational modifications in the brain of subjects with Alzheimer disease and mild cognitive impairment. 2012 , 52, 2292-301		92
529	Aged red garlic extract reduces lipopolysaccharide-induced nitric oxide production in RAW 264.7 macrophages and acute pulmonary inflammation through haeme oxygenase-1 induction. 2012 , 205, 61-70		47
528	Splenic artery ligation: A protection against hepatic ischemia/reperfusion injury in partially hepatectomized rats. 2012 , 42, 819-27		4
527	Use of carbon monoxide in minimizing ischemia/reperfusion injury in transplantation. 2012 , 26, 125-39		39
526	Carbon monoxide, generated by heme oxygenase-1, mediates the enhanced permeability and retention effect in solid tumors. 2012 , 103, 535-41		61

525	Xenograft protection by heme oxygenase-1. 2012 , 19, 18-18	
524	Induction of heme oxygenase 1 prevents progression of liver fibrosis in Mdr2 knockout mice. 2012 , 55, 553-62	41
523	Hemin, an iron-binding porphyrin, inhibits HIF-1 α induction through its binding with heat shock protein 90. 2012 , 130, 716-27	28
522	CO metabolism, sensing, and signaling. 2012 , 38, 1-13	41
521	Isolation and characterization of a heme oxygenase-1 gene from Chinese cabbage. 2012 , 50, 8-17	10
520	Dose-dependent relationship between prenatal exposure to fine particulates and exhaled carbon monoxide in non-asthmatic children. A population-based birth cohort study. 2013 , 26, 73-82	5
519	Protective effects of 6-hydroxy-1-methylindole-3-acetonitrile on cisplatin-induced oxidative nephrotoxicity via Nrf2 inactivation. 2013 , 62, 159-66	12
518	Inhibitory effects and molecular mechanisms of garlic organosulfur compounds on the production of inflammatory mediators. 2013 , 57, 2049-60	55
517	Evaluation of novel aryloxyalkyl derivatives of imidazole and 1,2,4-triazole as heme oxygenase-1 (HO-1) inhibitors and their antitumor properties. 2013 , 21, 5145-53	57
516	Selective inhibition of heme oxygenase-2 activity by analogs of 1-(4-chlorobenzyl)-2-(pyrrolidin-1-ylmethyl)-1H-benzimidazole (clemizole): Exploration of the effects of substituents at the N-1 position. 2013 , 21, 6788-95	16
515	Activation of the cholinergic anti-inflammatory pathway by nicotine attenuates hepatic ischemia/reperfusion injury via heme oxygenase-1 induction. 2013 , 707, 61-70	44
514	Protective effect of lipoic acid against oxidative stress is mediated by Keap1/Nrf2-dependent heme oxygenase-1 induction in the RGC-5 cellline. 2013 , 1499, 145-57	80
513	A kavalactone derivative inhibits lipopolysaccharide-stimulated iNOS induction and NO production through activation of Nrf2 signaling in BV2 microglial cells. 2013 , 71, 34-43	31
512	Up-down regulation of HO-1 and iNOS gene expressions by ethyl pyruvate via recruiting p300 to Nrf2 and depriving it from p65. 2013 , 65, 468-476	74
511	Heme oxygenase-1 induction by the ROS-JNK pathway plays a role in aluminum-induced anemia. 2013 , 128, 221-8	23
510	Preconditioning to mild oxidative stress mediates astroglial neuroprotection in an IL-10-dependent manner. 2013 , 30, 176-85	25
509	Suppressive effects of <i>Indigofera suffruticosa</i> Mill extracts on lipopolysaccharide-induced inflammatory responses in murine RAW 264.7 macrophages. 2013 , 55, 257-64	22
508	CHP1002, a novel andrographolide derivative, inhibits pro-inflammatory inducible nitric oxide synthase and cyclooxygenase-2 expressions in RAW264.7 macrophages via up-regulation of heme oxygenase-1 expression. 2013 , 15, 289-95	13

507	Inhibition of fatty acid amide hydrolase activates Nrf2 signalling and induces heme oxygenase 1 transcription in breast cancer cells. 2013 , 170, 489-505	31
506	Kinetics and mechanism of the base-catalyzed oxygenation of 1H-2-phenyl-3-hydroxy-4-oxoquinolines in DMSO/H ₂ O. 2013 , 69, 6666-6672	7
505	The role of renal research in demonstrating the protective properties of heme oxygenase-1. 2013 , 84, 3-6	8
504	Renal injury and Nrf2 modulation in mouse kidney following chronic exposure to TiO ₂ nanoparticles. 2013 , 61, 8959-68	50
503	Curcumin ameliorates AAPH-induced oxidative stress in HepG2 cells by activating Nrf2. 2013 , 22, 241-247	12
502	Heme oxygenase-1 attenuates epithelial-to-mesenchymal transition of human peritoneal mesothelial cells. 2013 , 17, 284-93	5
501	Lipoxin A4 ameliorates cerebral ischaemia/reperfusion injury through upregulation of nuclear factor erythroid 2-related factor 2. 2013 , 35, 968-75	30
500	Tissue-protective effect of glutamine on hepatic ischemia-reperfusion injury via induction of heme oxygenase-1. 2013 , 91, 59-68	11
499	Pre-emptive hypoxia-regulated HO-1 gene therapy improves post-ischaemic limb perfusion and tissue regeneration in mice. 2013 , 97, 115-24	38
498	cor, a novel carbon monoxide resistance gene, is essential for Mycobacterium tuberculosis pathogenesis. 2013 , 4, e00721-13	25
497	Bach1 deficiency protects pancreatic β cells from oxidative stress injury. 2013 , 305, E641-8	27
496	Targeting the redox balance in inflammatory skin conditions. 2013 , 14, 9126-67	108
495	Fungal iron availability during deep seated candidiasis is defined by a complex interplay involving systemic and local events. 2013 , 9, e1003676	40
494	Physiological cyclic strain promotes endothelial cell survival via the induction of heme oxygenase-1. 2013 , 304, H1634-43	44
493	Propofol attenuates cerebral ischemia/reperfusion injury partially using heme oxygenase-1. 2013 , 25, 311-6	27
492	Structural insights into human heme oxygenase-1 inhibition by potent and selective azole-based compounds. 2013 , 10, 20120697	32
491	Overexpressions of HO-1/HO-1G143H in C57/B6J mice affect melanoma B16F10 lung metastases rather than change the survival rate of mice-bearing tumours. 2013 , 238, 696-704	10
490	Length polymorphism in heme oxygenase-1 and cardiovascular events and mortality in hemodialysis patients. 2013 , 8, 1756-63	14

489	Polygonum viviparum L. inhibits the lipopolysaccharide-induced inflammatory response in RAW264.7 macrophages through haem oxygenase-1 induction and activation of the Nrf2 pathway. <i>Journal of the Science of Food and Agriculture</i> , 2013 , 93, 491-7	4.3	11
488	Hemophagocytosis-mediated keratinization in oral carcinoma in situ and squamous cell carcinoma: a possible histopathogenesis of keratin pearls. 2013 , 228, 1977-88		10
487	Effects of heme oxygenase-1 on bacterial antigen-induced articular chondrocyte catabolism in vitro. 2013 , 31, 1943-9		4
486	The cytoprotective enzyme heme oxygenase-1 suppresses Ebola virus replication. 2013 , 87, 13795-802		69
485	Lesional accumulation of heme oxygenase-1+ microglia/macrophages in rat traumatic brain injury. 2013 , 24, 281-6		13
484	Physiological and molecular biochemical mechanisms of bile formation. 2013 , 19, 7341-60		60
483	Inhibiting heme oxygenase-1 attenuates rat liver fibrosis by removing iron accumulation. 2013 , 19, 2921-34		21
482	Mechanisms of Nrf2 protection in astrocytes as identified by quantitative proteomics and siRNA screening. 2013 , 8, e70163		15
481	A review on hemeoxygenase-2: focus on cellular protection and oxygen response. <i>Oxidative Medicine and Cellular Longevity</i> , 2014 , 2014, 604981	6.7	83
480	HMOX1 gene promoter polymorphism is not associated with coronary artery disease in Koreans. 2014 , 34, 337-44		5
479	Cudarflavone B provides neuroprotection against glutamate-induced mouse hippocampal HT22 cell damage through the Nrf2 and PI3K/Akt signaling pathways. <i>Molecules</i> , 2014 , 19, 10818-31	4.8	19
478	Defensive mechanism in cholangiocarcinoma cells against oxidative stress induced by chlorin e6-based photodynamic therapy. 2014 , 8, 1451-62		4
477	Protective Effects of Inducible HO-1 on Oxygen Toxicity in Rat Brain Endothelial Microvessel Cells. 2014 , 29, 356-62		6
476	Length polymorphism in heme oxygenase-1 and risk of CKD among patients with coronary artery disease. 2014 , 25, 2669-77		20
475	Combination of unsaturated fatty acids and ionizing radiation on human glioma cells: cellular, biochemical and gene expression analysis. 2014 , 13, 142		43
474	Amomum tsao-ko suppresses lipopolysaccharide-induced inflammatory responses in RAW264.7 macrophages via Nrf2-dependent heme oxygenase-1 expression. 2014 , 42, 1229-44		35
473	Intraperitoneal bilirubin administration decreases infarct area in a rat coronary ischemia/reperfusion model. 2014 , 5, 53		26
472	Capsaicin ameliorates cisplatin-induced renal injury through induction of heme oxygenase-1. 2014 , 37, 234-40		39

471	De-differentiation confers multidrug resistance via noncanonical PERK-Nrf2 signaling. 2014 , 12, e1001945	79
470	Involvement of the heme oxygenase system in the development of preeclampsia and as a possible therapeutic target. 2014 , 10, 623-43	15
469	Effects of light on metalloporphyrin-treated newborn mice. 2014 , 103, 474-9	5
468	Drugs and acute porphyrias: reasons for a hazardous relationship. 2014 , 126, 108-20	8
467	Nitric Oxide Contributes to Retinal Ganglion Cell Survival Through Protein S-Nitrosylation After Optic Nerve Injury. 2014 , 85-97	
466	. 2014 , 5,	
465	5-Aminolevulinic acid combined with ferrous iron enhances the expression of heme oxygenase-1. 2014 , 19, 300-7	39
464	Downregulation of NO and PGE2 in LPS-stimulated BV2 microglial cells by trans-isoferulic acid via suppression of PI3K/Akt-dependent NF- κ B and activation of Nrf2-mediated HO-1. 2014 , 18, 203-11	37
463	Antioxidant therapeutics: Pandora's box. 2014 , 66, 58-64	45
462	Exercise-induced oxidative stress and hypoxic exercise recovery. 2014 , 114, 725-33	29
461	Cloning and characterization of a heme oxygenase-2 gene from rice (<i>Oryza sativa</i> L.), and its expression analysis in response to some abiotic stresses. 2014 , 36, 893-902	6
460	Therapeutic potential of statins and the induction of heme oxygenase-1 in preeclampsia. 2014 , 101-102, 153-160	54
459	Production and characterization of soluble human TNFR1-Fc and human HO-1(HMOX1) transgenic pigs by using the F2A peptide. 2014 , 23, 407-19	24
458	In vitro evaluation of mitochondrial-chloroplast subcellular localization of heme oxygenase1 (HO1) in <i>Glycine max</i> . 2014 , 251, 671-5	11
457	Inhibition of replication of porcine reproductive and respiratory syndrome virus by hemin is highly dependent on heme oxygenase-1, but independent of iron in MARC-145 cells. 2014 , 105, 39-46	11
456	Lycopene improves activation of antioxidant system and Nrf2/HO-1 pathway of muscle in rainbow trout (<i>Oncorhynchus mykiss</i>) with different stocking densities. 2014 , 430, 133-138	21
455	Studies on Pediatric Disorders. 2014 ,	3
454	Cellular mechanisms in intermittent hypoxia-induced cardiac damage in vivo. 2014 , 70, 201-13	17

453	Polymicrobial sepsis is associated with decreased hepatic oxidative phosphorylation and an altered metabolic profile. 2014 , 186, 297-303		21
452	7,8-Dihydroxyflavone protects human keratinocytes against oxidative stress-induced cell damage via the ERK and PI3K/Akt-mediated Nrf2/HO-1 signaling pathways. 2014 , 33, 964-70		43
451	Heme enzyme structure and function. 2014 , 114, 3919-62		782
450	Heme oxygenase-1 and anti-inflammatory M2 macrophages. 2014 , 564, 83-8		214
449	Carbon monoxide--physiology, detection and controlled release. 2014 , 50, 3644-60		276
448	Hispolon inhibition of inflammatory apoptosis through reduction of iNOS/NO production via HO-1 induction in macrophages. 2014 , 156, 61-72		23
447	Upregulation of heme oxygenase-1 in colorectal cancer patients with increased circulation carbon monoxide levels, potentially affects chemotherapeutic sensitivity. 2014 , 14, 436		55
446	HO-1 up-regulation: a key point in high-risk neuroblastoma resistance to bortezomib. 2014 , 1842, 613-22		39
445	Mitochondria-targeted heme oxygenase-1 induces oxidative stress and mitochondrial dysfunction in macrophages, kidney fibroblasts and in chronic alcohol hepatotoxicity. 2014 , 2, 273-83		74
444	Endothelial nitric oxide synthase and heme oxygenase-1 act independently in liver ischemic preconditioning. 2014 , 186, 417-28		8
443	Nitric oxide sets off an antioxidant response in adrenal cells: involvement of sGC and Nrf2 in HO-1 induction. 2014 , 37, 1-10		10
442	A possible protective role of Nrf2 in preeclampsia. 2014 , 196, 268-77		37
441	Styrene-maleic acid copolymer-encapsulated CORM2, a water-soluble carbon monoxide (CO) donor with a constant CO-releasing property, exhibits therapeutic potential for inflammatory bowel disease. <i>Journal of Controlled Release</i> , 2014 , 187, 14-21	11.7	67
440	Brain iron homeostasis: from molecular mechanisms to clinical significance and therapeutic opportunities. 2014 , 20, 1324-63		102
439	Heme in pathophysiology: a matter of scavenging, metabolism and trafficking across cell membranes. <i>Frontiers in Pharmacology</i> , 2014 , 5, 61	5.6	194
438	Preconditioning with Gua Lou Gui Zhi decoction enhances HO-induced Nrf2/HO-1 activation in PC12 cells. 2015 , 10, 877-884		5
437	Nitric oxide is an important regulator of heme oxygenase-1 expression in the lipopolysaccharide and interferon- β -treated murine macrophage-like cell line J774.1/JA-4. 2015 , 38, 7-16		13
436	Dynamic correlation between induction of the expression of heme oxygenase-1 and hepatitis B viral replication. 2015 , 11, 4706-12		5

435	Overexpression of Heme Oxygenase 1 Impairs Cognitive Ability and Changes the Plasticity of the Synapse. 2015 , 47, 595-608	10
434	Heme oxygenase-1 promoter polymorphisms and risk of spina bifida. 2015 , 103, 741-6	2
433	Anti-inflammatory Activity of Constituents Isolated from Aerial Part of <i>Angelica acutiloba</i> Kitagawa. 2015 , 29, 1956-63	25
432	Spinal Heme Oxygenase-1 (HO-1) Exerts Antinociceptive Effects Against Neuropathic Pain in a Mouse Model of L5 Spinal Nerve Ligation. 2016 , 17, 220-9	18
431	Carbon monoxide inhibits T cell activation in target organs during systemic lupus erythematosus. 2015 , 182, 1-13	21
430	Carbon monoxide: a critical quantitative analysis and review of the extent and limitations of its second messenger function. 2015 , 7, 37-56	26
429	Neuroprotective effects of a glutathione depletor in rat post-ischemic reperfusion brain damage. 2015 , 14, 41-8	4
428	Anti-Inflammatory Effect of <i>Angelica gigas</i> via Heme Oxygenase (HO)-1 Expression. 2015 , 7, 4862-74	30
427	Effects of <i>Tithonia diversifolia</i> (Hemsl.) A. Gray extract on adipocyte differentiation of human mesenchymal stem cells. 2015 , 10, e0122320	22
426	Redox mechanisms of cardiomyocyte mitochondrial protection. 2015 , 6, 291	59
425	Association between GT-repeat polymorphism at heme oxygenase-1 gene promoter and gastric cancer and metastasis. 2015 , 36, 4757-62	7
424	A novel and sensitive assay for heme oxygenase activity. 2015 , 309, F667-71	9
423	A new fluorogenic probe for the selective detection of carbon monoxide in aqueous medium based on Pd(0) mediated reaction. 2015 , 51, 4410-3	80
422	Heme oxygenase-1 in pregnancy and cancer: similarities in cellular invasion, cytoprotection, angiogenesis, and immunomodulation. <i>Frontiers in Pharmacology</i> , 2014 , 5, 295	5.6 38
421	Phosphodiesterase-4 inhibition with rolipram attenuates hepatocellular injury in hyperinflammation in vivo and in vitro without influencing inflammation and HO-1 expression. 2015 , 6, 13-23	5
420	Short time tripterine treatment enhances endothelial progenitor cell function via heat shock protein 32. 2015 , 230, 1139-47	13
419	Myrosinase-treated glucoerucin is a potent inducer of the Nrf2 target gene heme oxygenase 1--studies in cultured HT-29 cells and mice. 2015 , 26, 661-6	16
418	Cloning, expression and functional characterization of heme detoxification protein (HDP) from the rodent malaria parasite <i>Plasmodium vinckei</i> . 2015 , 566, 109-19	8

417	Intercellular cross-talk in intracerebral hemorrhage. 2015 , 1623, 97-109		30
416	Heme oxygenase-1 and heme oxygenase-2 expression in bruises. 2015 , 11, 482-7		4
415	Overexpression of Nrf2 attenuates Carmustine-induced cytotoxicity in U87MG human glioma cells. 2015 , 15, 118		17
414	Heme oxygenase-1: emerging target of cancer therapy. 2015 , 22, 22		140
413	Polymorphisms in the Haem Oxygenase-1 promoter are not associated with severity of Plasmodium falciparum malaria in Ghanaian children. 2015 , 14, 153		11
412	Flavonoids derived from liquorice suppress murine macrophage activation by up-regulating heme oxygenase-1 independent of Nrf2 activation. 2015 , 28, 917-24		38
411	Novel roles of the unfolded protein response in the control of tumor development and aggressiveness. 2015 , 33, 67-73		48
410	Molecular mechanism of oxidative damage of lung in mice following exposure to lanthanum chloride. 2015 , 30, 357-65		13
409	Calcium-siRNA nanocomplexes: what reversibility is all about. <i>Journal of Controlled Release</i> , 2015 , 203, 150-60	11.7	29
408	Heme oxygenase-1-derived bilirubin protects endothelial cells against high glucose-induced damage. 2015 , 89, 91-8		36
407	Upregulation of heme oxygenase-1 by ginsenoside Ro attenuates lipopolysaccharide-induced inflammation in macrophage cells. 2015 , 39, 365-70		34
406	Beyond the 5-HT3 receptors: A role for α nACh receptors in neuroprotective aspects of tropisetron. 2015 , 34, 922-31		13
405	Spiranthes sinensis Suppresses Production of Pro-Inflammatory Mediators by Down-Regulating the NF- κ B Signaling Pathway and Up-Regulating HO-1/Nrf2 Anti-Oxidant Protein. 2015 , 43, 969-89		22
404	Macromolecular and Inorganic Nanomaterials Scaffolds for Carbon Monoxide Delivery: Recent Developments and Future Trends. 2015 , 1, 895-913		62
403	Hemin protects against hippocampal damage following orthotopic autologous liver transplantation in adult rats. 2015 , 135, 27-34		4
402	Identification of heme oxygenase-1 stimulators by a convenient ELISA-based bilirubin quantification assay. 2015 , 78, 135-46		14
401	Neuroprotection by acetyl-11-keto- β Boswellic acid, in ischemic brain injury involves the Nrf2/HO-1 defense pathway. 2014 , 4, 7002		103
400	Simultaneous determination of the bilirubin oxidation end products Z-BOX A and Z-BOX B in human serum using liquid chromatography coupled to tandem mass spectrometry. 2015 , 974, 83-9		16

399	Impact of acute arsenic and cadmium exposure on the expression of two haeme oxygenase genes and other antioxidant markers in common carp (<i>Cyprinus carpio</i>). 2015 , 35, 310-8		7
398	In vivo response of heme-oxygenase-1 to metal ions released from metal-on-metal hip prostheses. 2016 , 14, 474-80		5
397	The Anti-Inflammatory Activity of <i>Eucommia ulmoides</i> Oliv. Bark. Involves NF- κ B Suppression and Nrf2-Dependent HO-1 Induction in BV-2 Microglial Cells. 2016 , 24, 268-82		21
396	Neuroprotective Effects of Betaxolol Mediated by Heme Oxygenase-1 Induction in RGC-5. 2016 , 57, 113		
395	The Nrf2/HO-1 Axis in Cancer Cell Growth and Chemoresistance. <i>Oxidative Medicine and Cellular Longevity</i> , 2016 , 2016, 1958174	6.7	156
394	Redox Homeostasis and Cellular Antioxidant Systems: Crucial Players in Cancer Growth and Therapy. <i>Oxidative Medicine and Cellular Longevity</i> , 2016 , 2016, 6235641	6.7	165
393	S-Propargyl-cysteine Exerts a Novel Protective Effect on Methionine and Choline Deficient Diet-Induced Fatty Liver via Akt/Nrf2/HO-1 Pathway. <i>Oxidative Medicine and Cellular Longevity</i> , 2016 , 2016, 4690857	6.7	29
392	Skin Redox Balance Maintenance: The Need for an Nrf2-Activator Delivery System. 2016 , 3, 1		39
391	To treat or not to treat: metabolomics reveals biomarkers for treatment indication in chronic lymphocytic leukaemia patients. 2016 , 7, 22324-38		14
390	Effects of Intralabyrinthine Hemorrhage on the Cochlear Elements: A Human Temporal Bone Study. 2016 , 37, 132-6		10
389	Fasting-Mimicking Diet Reduces HO-1 to Promote T Cell-Mediated Tumor Cytotoxicity. 2016 , 30, 136-146		181
388	PLASMA HEME OXYGENASE-1 IN PATIENTS RESUSCITATED FROM OUT-OF-HOSPITAL CARDIAC ARREST. 2016 , 45, 320-5		3
387	The effect of feeding frequency and dose rate of nitrate supplements on blood haemoglobin fractions in <i>Bos indicus</i> cattle fed Flinders grass (<i>Iseilemia</i> spp.) hay. 2016 , 56, 1605		9
386	Signaling pathways involved in HSP32 induction by hyperbaric oxygen in rat spinal neurons. 2016 , 10, 108-118		16
385	Heme oxygenase-1-mediated anti-inflammatory effects of tussilagonone on macrophages and 12-O-tetradecanoylphorbol-13-acetate-induced skin inflammation in mice. 2016 , 34, 155-164		31
384	Heme Oxygenase-1 Promoter Polymorphism Protects Liver Allograft. 2016 , 78, 14-19		5
383	Rv2074 is a novel F420 H ₂ -dependent biliverdin reductase in <i>Mycobacterium tuberculosis</i> . 2016 , 25, 1692-709		18
382	A High-Throughput Screening Assay to Identify Kidney Toxic Compounds. 2016 , 69, 9.10.1-9.10.26		11

381	Remote-controlled delivery of CO via photoactive CO-releasing materials on a fiber optical device. 2016 , 45, 13222-33	31
380	Ischemic preconditioning in hepatic ischemic reperfusion injury. 2016 , 49, 169-173	1
379	Modulation of antigen processing by haem-oxygenase 1. Implications on inflammation and tolerance. 2016 , 149, 1-12	24
378	Heme oxygenase-1-transduced bone marrow mesenchymal stem cells in reducing acute rejection and improving small bowel transplantation outcomes in rats. 2016 , 7, 164	18
377	Intraventricular Hemorrhage: the Role of Blood Components in Secondary Injury and Hydrocephalus. 2016 , 7, 447-451	39
376	Role of CREB on heme oxygenase-1 induction in adrenal cells: involvement of the PI3K pathway. 2016 , 57, 113-24	11
375	Omeprazole induces heme oxygenase-1 in fetal human pulmonary microvascular endothelial cells via hydrogen peroxide-independent Nrf2 signaling pathway. 2016 , 311, 26-33	11
374	Heme biomolecule as redox mediator and oxygen shuttle for efficient charging of lithium-oxygen batteries. 2016 , 7, 12925	98
373	Lifetime Cocaine and Opiate Use and Chronic Kidney Disease. 2016 , 44, 447-453	15
372	Coniferaldehyde inhibits LPS-induced apoptosis through the PKC β /Nrf-2/HO-1 dependent pathway in RAW264.7 macrophage cells. 2016 , 48, 85-93	14
371	Heme Oxygenase-1 and Carbon Monoxide in the Heart: The Balancing Act Between Danger Signaling and Pro-Survival. 2016 , 118, 1940-1959	121
370	Heme oxygenase 1 induction protects myocardial cells against hypoxia/reoxygenation-induced apoptosis : The role of JNK/c-Jun/Caspase-3 inhibition and Akt signaling enhancement. 2016 , 41, 715-724	16
369	5-Aminolevulinic acid regulates the inflammatory response and alloimmune reaction. 2016 , 37, 71-78	48
368	Isocyperol, isolated from the rhizomes of <i>Cyperus rotundus</i> , inhibits LPS-induced inflammatory responses via suppression of the NF- κ B and STAT3 pathways and ROS stress in LPS-stimulated RAW 264.7 cells. 2016 , 38, 61-9	28
367	A bridge to silencing: Co-assembling anionic nanoparticles of siRNA and hyaluronan sulfate via calcium ion bridges. <i>Journal of Controlled Release</i> , 2016 , 232, 215-27	11.7 14
366	Fibroblast growth factor 21 (FGF21) inhibits macrophage-mediated inflammation by activating Nrf2 and suppressing the NF- κ B signaling pathway. 2016 , 38, 144-52	78
365	Andrographolide stimulates p38 mitogen-activated protein kinase-nuclear factor erythroid-2-related factor 2-heme oxygenase 1 signaling in primary cerebral endothelial cells for definite protection against ischemic stroke in rats. 2016 , 170, 57-72	49
364	CORM-EDE1: A Highly Water-Soluble and Nontoxic Manganese-Based photoCORM with a Biogenic Ligand Sphere. 2016 , 55, 104-13	30

363	Gasotransmitters in cancer: from pathophysiology to experimental therapy. 2016 , 15, 185-203	323
362	Endocrine activities and cellular stress responses in the marsh frog <i>Pelophylax ridibundus</i> exposed to cobalt, zinc and their organic nanocomplexes. 2016 , 170, 62-71	16
361	Cross-talk between two antioxidants, thioredoxin reductase and heme oxygenase-1, and therapeutic implications for multiple myeloma. 2016 , 8, 175-85	30
360	Eel green fluorescent protein is associated with resistance to oxidative stress. 2016 , 181-182, 35-9	6
359	Heme Oxygenase-1 in Kidney Health and Disease. 2016 , 25, 165-83	74
358	Role of heme Oxygenase-1 in low dose Radioadaptive response. 2016 , 8, 333-40	7
357	Heme Oxygenase-1/Carbon Monoxide System and Embryonic Stem Cell Differentiation and Maturation into Cardiomyocytes. 2016 , 24, 345-60	37
356	Targeting heme oxygenase-1 and carbon monoxide for therapeutic modulation of inflammation. 2016 , 167, 7-34	206
355	Heme Oxygenase 2 Binds Myristate to Regulate Retrovirus Assembly and TLR4 Signaling. 2017 , 21, 220-230	20
354	Gene duplication, conservation and divergence of Heme oxygenase 2 genes in blunt snout bream (<i>Megalobrama amblycephala</i>) and their responses to hypoxia. 2017 , 610, 133-139	4
353	Heme oxygenase-1 promoter polymorphisms: do they modulate neonatal hyperbilirubinemia?. 2017 , 37, 901-905	11
352	Synthesis and biological activity of new phthalimides as potential anti-inflammatory agents. 2017 , 25, 3396-3405	31
351	Synergism of highly transducible adenovirus encoding heme oxygenase 1 gene and low-dose immunosuppressants for successful outcomes of xenotransplanted pancreatic islet. 2017 , 47, 202-213	1
350	Splenic Ly6C monocytes contribute to adverse late post-ischemic left ventricular remodeling in heme oxygenase-1 deficient mice. 2017 , 112, 39	24
349	Identification of Genes for Synthesis of the Blue Pigment, Biliverdin IX β in the Blue Coral <i>Heliopora coerulea</i> . 2017 , 232, 71-81	10
348	How to Increase Brightness of Near-Infrared Fluorescent Proteins in Mammalian Cells. 2017 , 24, 758-766.e3	37
347	Near-infrared fluorescent protein iRFP713 as a reporter protein for optogenetic vectors, a transgenic Cre-reporter rat, and other neuronal studies. 2017 , 284, 1-14	16
346	Protective effect of rutaecarpine against t-BHP-induced hepatotoxicity by upregulating antioxidant enzymes via the CaMKII-Akt and Nrf2/ARE pathways. 2017 , 100, 138-148	36

- 345 Haem oxygenase-1 polymorphisms can affect HCV replication and treatment responses with different efficacy in humanized mice. **2017**, 37, 1128-1137 7
- 344 Challenges for intraventricular hemorrhage research and emerging therapeutic targets. **2017**, 21, 1111-1122 36
- 343 Metabolomic analysis of oxidative stress: Superoxide dismutase mutation and paraquat induced stress in *Drosophila melanogaster*. **2017**, 113, 323-334 17
- 342 Differential inhibition of rat and mouse microsomal heme oxygenase by derivatives of imidazole and benzimidazole. **2017**, 95, 1454-1461
- 341 Differentiation impairs Bach1 dependent HO-1 activation and increases sensitivity to oxidative stress in SH-SY5Y neuroblastoma cells. **2017**, 7, 7568 18
- 340 Taurine Has Neuroprotective Activity against Oxidative Damage-Induced HT22 Cell Death through Heme Oxygenase-1 Pathway. **2017**, 975 Pt 1, 159-171 6
- 339 Driving Cancer Tumorigenesis and Metastasis Through UPR Signaling. **2018**, 414, 159-192 34
- 338 Carbon monoxide released from its pharmacological donor, tricarbonyldichlororuthenium (II) dimer, accelerates the healing of pre-existing gastric ulcers. **2017**, 174, 3654-3668 27
- 337 The CO release properties of Δ N1,N2 Mn(I) tricarbonyl photoCORMs with tridentate benzimidazole coligands. **2017**, 4, 1517-1524 21
- 336 Induction of Heme Oxygenase-1 Attenuates the Severity of Sepsis in a Non-Surgical Preterm Mouse Model. **2017**, 47, 242-250 16
- 335 Eggshell Biliverdin and Protoporphyrin Pigments in a Songbird: Are They Derived from Erythrocytes, Blood Plasma, or the Shell Gland?. **2017**, 90, 613-626 14
- 334 MAPK/JNK1 activation protects cells against cadmium-induced autophagic cell death via differential regulation of catalase and heme oxygenase-1 in oral cancer cells. **2017**, 332, 81-91 16
- 333 Hispolon Suppresses LPS- or LTA-Induced iNOS/NO Production and Apoptosis in BV-2 Microglial Cells. **2017**, 45, 1649-1666 9
- 332 QM/MM Study of the Conversion of Oxophlorin into Verdoheme by Heme Oxygenase. **2017**, 121, 11427-11436 5
- 331 The protective effects of Shikonin on lipopolysaccharide/D-galactosamine-induced acute liver injury via inhibiting MAPK and NF- κ B and activating Nrf2/HO-1 signaling pathways. **2017**, 7, 34846-34856 14
- 330 Infiltration of myeloid cells in the pregnant uterus is affected by heme oxygenase-1. **2017**, 101, 217-226 9
- 329 Brassica-Derived Plant Bioactives as Modulators of Chemopreventive and Inflammatory Signaling Pathways. **2017**, 18, 50
- 328 Fluorescent Probes for Gaseous Biological Signaling Agents. **2017**, 423-434

327	HO-1 Induction in Cancer Progression: A Matter of Cell Adaptation. <i>Antioxidants</i> , 2017 , 6,	7.1	102
326	Protective Effect of <i>Fragaria ananassa</i> Crude Extract on Cadmium-Induced Lipid Peroxidation, Antioxidant Enzymes Suppression, and Apoptosis in Rat Testes. 2017 , 18,		44
325	Postneonatal Mortality and Liver Changes in Cloned Pigs Associated with Human Tumor Necrosis Factor Receptor I-Fc and Human Heme Oxygenase-1 Overexpression. 2017 , 2017, 5276576		1
324	Deficiency Sensitizes Mice to Peroxynitrite Formation and Diabetic Glomerular Microvascular Injuries. 2017 , 2017, 9603924		3
323	Physiology of Cerebral Blood Vessels. 2017 , 3-27		1
322	Anti-oxidative effects of 4-hydroxybenzyl alcohol in astrocytes confer protective effects in autocrine and paracrine manners. 2017 , 12, e0177322		16
321	Dynamic changes in Bach1 expression in the kidney of rhabdomyolysis-associated acute kidney injury. 2017 , 12, e0180934		9
320	hnRNPK-regulated PTOV1-AS1 modulates heme oxygenase-1 expression via miR-1207-5p. 2017 , 50, 220-225		12
319	Implications of macrophage polarization in autoimmunity. 2018 , 154, 186-195		218
318	Prevention of doxorubicin (DOX)-induced genotoxicity and cardiotoxicity: Effect of plant derived small molecule indole-3-carbinol (I3C) on oxidative stress and inflammation. 2018 , 101, 228-243		51
317	The proximal tubular α 7 nicotinic acetylcholine receptor attenuates ischemic acute kidney injury through Akt/PKC signaling-mediated HO-1 induction. 2018 , 50, 1-17		14
316	High Glucose Stimulates Expression of MFHAS1 to Mitigate Inflammation via Akt/HO-1 Pathway in Human Umbilical Vein Endothelial Cells. 2018 , 41, 400-408		6
315	Bioluminescence Imaging of Carbon Monoxide in Living Cells and Nude Mice Based on Pd-Mediated Tsuji-Trost Reaction. 2018 , 90, 5951-5958		34
314	Emerging role of carbon monoxide in regulation of cellular pathways and in the maintenance of gastric mucosal integrity. 2018 , 129, 56-64		24
313	Gaseous Signaling Molecules in Cardiovascular Function: From Mechanisms to Clinical Translation. 2018 , 174, 81-156		14
312	Potholing of the hydrophobic heme oxygenase-1 western region for the search of potent and selective imidazole-based inhibitors. 2018 , 148, 54-62		34
311	A New Lysosome-Targetable Turn-On Fluorogenic Probe for Carbon Monoxide Imaging in Living Cells. 2018 , 90, 2933-2938		64
310	Antiviral potential of curcumin. 2018 , 40, 692-699		117

309	Heme oxygenase-1 mediates BAY 11-7085 induced ferroptosis. 2018 , 416, 124-137	161
308	Coordinating Organismal Physiology Through the Unfolded Protein Response. 2018 ,	
307	Hemin Through the Heme Oxygenase 1/Ferrous Iron, Carbon Monoxide System Involved in Zinc Tolerance in <i>Oryza Sativa</i> L.. 2018 , 37, 947-957	18
306	S-Nitrosylation Regulates Cell Survival and Death in the Central Nervous System. 2018 , 43, 50-58	9
305	Neuroprotection of edaravone on the hippocampus of kainate-induced epilepsy rats through Nrf2/HO-1 pathway. 2018 , 112, 159-165	33
304	Histone deacetylase inhibitor BG45-mediated HO-1 expression induces apoptosis of multiple myeloma cells by the JAK2/STAT3 pathway. 2018 , 29, 61-74	24
303	Acacetin attenuates mice endotoxin-induced acute lung injury via augmentation of heme oxygenase-1 activity. 2018 , 26, 635-643	25
302	Studies of <i>Pseudomonas aeruginosa</i> Mutants Indicate Pyoverdine as the Central Factor in Inhibition of <i>Aspergillus fumigatus</i> Biofilm. 2018 , 200,	62
301	Carbon Monoxide and Its Controlled Release: Therapeutic Application, Detection, and Development of Carbon Monoxide Releasing Molecules (CORMs). 2018 , 61, 2611-2635	134
300	High expression of HO-1 predicts poor prognosis of ovarian cancer patients and promotes proliferation and aggressiveness of ovarian cancer cells. 2018 , 20, 491-499	14
299	Heme Oxygenase-1-Inducing Activity of 4-Methoxydalbergione and 4'-Hydroxy-4-methoxydalbergione from <i>Dalbergia odorifera</i> and Their Anti-inflammatory and Cytoprotective Effects in Murine Hippocampal and BV2 Microglial Cell Line and Primary Rat Microglial Cells. 2018 , 33, 337-352	13
298	Evaluation of heme oxygenase 1 (HO 1) in Cd and Ni induced cytotoxicity and crosstalk with ROS quenching enzymes in two to four leaf stage seedlings of <i>Vigna radiata</i> . 2018 , 255, 527-545	19
297	Effects of food limitation on the intensity of blue-green and brown eggshell coloration: an experimental study with the canary. 2018 , 49, jav-01486	9
296	DL-3-n-butylphthalide alleviates vascular cognitive impairment induced by chronic cerebral hypoperfusion by activating the Akt/Nrf2 signaling pathway in the hippocampus of rats. 2018 , 672, 59-64	27
295	Upregulation of heme oxygenase 1 (HO-1) attenuates kidney damage, oxidative stress and inflammatory reaction during renal ischemia/ reperfusion injury. 2018 , 37, 193-204	9
294	Adipose Organ Development and Remodeling. 2018 , 8, 1357-1431	68
293	Activated Integrated Stress Response Induced by Salubrinal Promotes Cisplatin Resistance in Human Gastric Cancer Cells via Enhanced xCT Expression and Glutathione Biosynthesis. 2018 , 19,	22
292	Curcumin Inhibits Age-Related Vascular Changes in Aged Mice Fed a High-Fat Diet. 2018 , 10,	14

291	Research Progress in Understanding the Relationship Between Heme Oxygenase-1 and Intracerebral Hemorrhage. 2018 , 9, 682		12
290	CORM-A1 treatment leads to increased carbon monoxide in pregnant mice. 2018 , 14, 97-104		
289	Epigallocatechin-3-gallate protected vanadium-induced eggshell depigmentation via P38MAPK-Nrf2/HO-1 signaling pathway in laying hens. 2018 , 97, 3109-3118		14
288	Heme oxygenase-1 deficiency promotes severity of sepsis in a non-surgical preterm mouse model. 2018 , 84, 139-145		8
287	Upregulation of heme oxygenase-1 protected against brain damage induced by transient cerebral ischemia-reperfusion injury in rats. 2018 , 15, 4629-4636		7
286	Heme Oxygenase 1 in the Nervous System: Does It Favor Neuronal Cell Survival or Induce Neurodegeneration?. 2018 , 19,		69
285	Reviews of Physiology, Biochemistry and Pharmacology Vol. 174. 2018 ,		1
284	Novel Structural Insight into Inhibitors of Heme Oxygenase-1 (HO-1) by New Imidazole-Based Compounds: Biochemical and In Vitro Anticancer Activity Evaluation. <i>Molecules</i> , 2018 , 23,	4.8	35
283	microRNA-494 Favors HO-1 Expression in Neuroblastoma Cells Exposed to Oxidative Stress in a Bach1-Independent Way. 2018 , 8, 199		17
282	Andalucin from <i>Artemisia lannta</i> suppresses the neuroinflammation via the promotion of Nrf2-mediated HO-1 levels by blocking the p65-p300 interaction in LPS-activated BV2 microglia. 2018 , 51, 226-232		12
281	Phycocyanin Protects Against UVB-induced Apoptosis Through the PKC β -Nrf-2/HO-1 Dependent Pathway in Human Primary Skin Cells. <i>Molecules</i> , 2018 , 23,	4.8	10
280	Microsatellite polymorphism in the Heme oxygenase-1 gene promoter is associated with dermal collagen density in Japanese obese male subjects. 2018 , 13, e0199994		2
279	Identification of danthron as an isoform-specific inhibitor of HEME OXYGENASE-1/cytochrome P450 reductase interaction with anti-tumor activity. 2018 , 25, 6		2
278	Ropivacaine regulates the expression and function of heme oxygenase-1. 2018 , 103, 284-289		2
277	Development of new HO-1 inhibitors by a thorough scaffold-hopping analysis. 2018 , 81, 334-339		22
276	Bioelectronic Approaches to Control Neuroimmune Interactions in Acute Kidney Injury. 2019 , 9,		1
275	Heme Catabolic Pathway in Inflammation and Immune Disorders. <i>Frontiers in Pharmacology</i> , 2019 , 10, 825	5.6	31
274	Haem oxygenase-1 induction prevents glucocorticoid-induced osteoblast apoptosis through activation of extracellular signal-regulated kinase1/2 signalling pathway. 2019 , 19, 29-37		3

273	Lion's Mane Mushroom, (Bull.: Fr.) Pers. Suppresses HO-Induced Oxidative Damage and LPS-Induced Inflammation in HT22 Hippocampal Neurons and BV2 Microglia. <i>Antioxidants</i> , 2019 , 8,	7.1	20
272	Hyperbilirubinemia. 2019 , 173-181		
271	Effects of heme oxygenase-1 upregulation on isoproterenol-induced myocardial infarction. 2019 , 23, 203-217		7
270	The correlation analysis of intralabyrinthine haemorrhage magnetic resonance imaging with hearing loss and prognosis: A retrospective analysis of 207 cases. 2019 , 44, 1096-1100		2
269	Heme oxygenase-1/carbon monoxide as modulators of autophagy and inflammation. 2019 , 678, 108186		46
268	Optimizing effectiveness and robustness for solar heat absorbers composed of a periodically nano-structured surface. 2019 , 1, 1		
267	The Role of Heme Oxygenase-1 in Remote Ischemic and Anesthetic Organ Conditioning. <i>Antioxidants</i> , 2019 , 8,	7.1	7
266	Non-canonical transcriptional regulation of heme oxygenase in <i>Aedes aegypti</i> . 2019 , 9, 13726		8
265	Protective Effects of Caffeic Acid Phenethyl Ester (CAPE) and Novel Cape Analogue as Inducers of Heme Oxygenase-1 in Streptozotocin-Induced Type 1 Diabetic Rats. 2019 , 20,		26
264	CO-Releasing Materials: An Emphasis on Therapeutic Implications, as Release and Subsequent Cytotoxicity Are the Part of Therapy. 2019 , 12,		30
263	Zinc-substituted hemoglobin with specific drug binding sites and fatty acid resistance ability for enhanced photodynamic therapy. 2019 , 12, 1880-1887		11
262	Mesenchymal Stem Cells Modulate the Immune System in Developing Therapeutic Interventions. 2019 ,		13
261	TonEBP Suppresses the HO-1 Gene by Blocking Recruitment of Nrf2 to Its Promoter. 2019 , 10, 850		9
260	Low-Dose Carbon Monoxide Inhibits Rhinovirus Replication in Human Alveolar and Airway Epithelial Cells. 2019 , 247, 215-222		3
259	Oleocanthal Modulates LPS-Induced Murine Peritoneal Macrophages Activation via Regulation of Inflammasome, Nrf-2/HO-1, and MAPKs Signaling Pathways. 2019 , 67, 5552-5559		16
258	Heme oxygenase-1 attenuates low-dose of deoxynivalenol-induced liver inflammation potentially associating with microbiota. 2019 , 374, 20-31		13
257	Inhibited autophagy may contribute to heme toxicity in cardiomyoblast cells. 2019 , 511, 732-738		6
256	Human Pathobiochemistry. 2019 ,		

255	DMO-CAP inhibits influenza virus replication by activating heme oxygenase-1-mediated IFN response. 2019 , 16, 21		9
254	The immunophenotype of decidual macrophages in acute atherosclerosis. 2019 , 81, e13098		13
253	The Role of Iron Regulation in Immunometabolism and Immune-Related Disease. 2019 , 6, 116		81
252	The Heme Oxygenase/Biliverdin Reductase System as Effector of the Neuroprotective Outcomes of Herb-Based Nutritional Supplements. <i>Frontiers in Pharmacology</i> , 2019 , 10, 1298	5.6	2
251	Non-urate transporter 1, non-glucose transporter member 9-related renal hypouricemia and acute renal failure accompanied by hyperbilirubinemia after anaerobic exercise: a case report. 2019 , 20, 433		2
250	Can heme oxygenase-1 be a prognostic factor in patients with hepatocellular carcinoma?. 2019 , 98, e16084		5
249	Heme oxygenase-1 as a potential therapeutic target in rheumatic diseases. 2019 , 218, 205-212		7
248	Inhaled carbon monoxide increases vasodilation in the microvascular circulation. 2019 , 123, 92-98		5
247	A positive feedback regulation of Heme oxygenase 1 by CELF1 in cardiac myoblast cells. 2019 , 1862, 209-218		8
246	Redox Pioneer: Professor Hideo Kimura. 2019 , 30, 1699-1708		4
245	Increasing Heme Oxygenase-1-Expressing Macrophages Indicates a Tendency of Poor Prognosis in Advanced Colorectal Cancer. 2020 , 101, 401-410		6
244	Increased expression of heme oxygenase-1 suppresses airway branching morphogenesis in fetal mouse lungs exposed to inflammation. 2020 , 87, 494-500		0
243	Serial Carboxyhemoglobin Levels and Its Relationship with Late Onset Sepsis in Preterm Infants: An Observational Cohort Study. 2020 , 39, 145-155		2
242	Expression of IL-1 β /HMGB1, HO-1, and LDH in malignant and non-malignant pleural effusions. 2020 , 272, 103330		4
241	Maternal disease and gasotransmitters. 2020 , 96, 1-12		8
240	Heme oxygenase-1 regulates autophagy through carbon-oxygen to alleviate deoxynivalenol-induced hepatic damage. 2020 , 94, 573-588		6
239	Short ELF-EMF Exposure Targets SIRT1/Nrf2/HO-1 Signaling in THP-1 Cells. 2020 , 21,		7
238	Identification of a potent heme oxygenase-2 (HO-2) inhibitor by targeting the secondary hydrophobic pocket of the HO-2 western region. 2020 , 104, 104310		3

237	Piperlongumine Inhibits Zika Virus Replication In vitro and Promotes Up-Regulation of HO-1 Expression, Suggesting An Implication of Oxidative Stress. 2021 , 36, 510-520		2
236	Therapeutic Potential of Heme Oxygenase-1 in Aneurysmal Diseases. <i>Antioxidants</i> , 2020 , 9,	7.1	5
235	Modulation of Inflammation and Immune Responses by Heme Oxygenase-1: Implications for Infection with Intracellular Pathogens. <i>Antioxidants</i> , 2020 , 9,	7.1	10
234	Dietary amino acid ergothioneine protects HT22 hippocampal neurons against H ₂ O ₂ -induced neurotoxicity via antioxidative mechanism. 2020 , 13, 100214		1
233	Significance of heme oxygenase-1(HMOX1) gene on fetal hemoglobin induction in sickle cell anemia patients. 2020 , 10, 18506		
232	Beyond tug-of-war: Iron metabolism in cooperative host-microbe interactions. 2020 , 16, e1008698		9
231	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
230	Photo-Degradable Micelles Capable of Releasing of Carbon Monoxide under Visible Light Irradiation. 2020 , 41, e2000323		8
229	The Cutaneous Physiological Redox: Essential to Maintain but Difficult to Define. <i>Antioxidants</i> , 2020 , 9,	7.1	4
228	Iron Carbonyl Complexes Containing N,C,S-Tridentate Ligands with Quinoline, Vinyl, and Benzenethiolate Units. 2020 , 39, 4051-4060		
227	Roles of JNK/Nrf2 Pathway on Hemin-Induced Heme Oxygenase-1 Activation in MCF-7 Human Breast Cancer Cells. 2020 , 56,		5
226	Molecular Physiology and Pathophysiology of Bilirubin Handling by the Blood, Liver, Intestine, and Brain in the Newborn. 2020 , 100, 1291-1346		10
225	Heme oxygenase-1 alleviated non-alcoholic fatty liver disease via suppressing ROS-dependent endoplasmic reticulum stress. 2020 , 253, 117678		11
224	Repurposing of Secukinumab as Neuroprotective in Cuprizone-Induced Multiple Sclerosis Experimental Model via Inhibition of Oxidative, Inflammatory, and Neurodegenerative Signaling. 2020 , 57, 3291-3306		1
223	Cytotoxicity of Mn-based photoCORMs of ethynyl-diimine ligands against different cancer cell lines: The key role of CO-depleted metal fragments. 2020 , 209, 111122		14
222	Frontispiece: Fast Lithium Ion Conduction in Lithium Phosphidoaluminates. 2020 , 59,		
221	Hematoma Resolution In Vivo Is Directed by Activating Transcription Factor 1. 2020 , 127, 928-944		4
220	NRF2 Knockdown Resensitizes 5-Fluorouracil-Resistant Pancreatic Cancer Cells by Suppressing HO-1 and ABCG2 Expression. 2020 , 21,		9

219	Marine Microorganism-Derived Macrolactins Inhibit Inflammatory Mediator Effects in LPS-Induced Macrophage and Microglial Cells by Regulating BACH1 and HO-1/Nrf2 Signals through Inhibition of TLR4 Activation. <i>Molecules</i> , 2020 , 25,	4.8	4
218	Donor Heme Oxygenase-1 Promoter Gene Polymorphism Predicts Survival after Unrelated Bone Marrow Transplantation for High-Risk Patients. 2020 , 12,		6
217	HMOX1 is partly responsible for phenotypic and functional abnormalities in mesenchymal stem cells/stromal cells from placenta of preeclampsia (PE) patients. 2020 , 11, 30		6
216	MicroRNA and heme oxygenase-1 in allergic disease. 2020 , 80, 106132		6
215	Heme Oxygenase Dependent Bilirubin Generation in Vascular Cells: A Role in Preventing Endothelial Dysfunction in Local Tissue Microenvironment?. 2020 , 11, 23		15
214	Defense and protection mechanisms in lung exposed to asbestiform fiber: the role of macrophage migration inhibitory factor and heme oxygenase-1. 2020 , 64,		3
213	Polymorphisms in the heme oxygenase-1 and bone morphogenetic protein receptor type 1b genes and estimated glomerular filtration rate in Brazilian sickle cell anemia patients. 2021 , 43, 165-170		1
212	Chloroquine and hydroxychloroquine in the prophylaxis and therapy of COVID-19 infection. 2021 , 538, 156-162		4
211	Role of heme oxygenase-1 in human placenta on iron supply to fetus. 2021 , 103, 53-58		1
210	Molecular mechanisms associated with oxidative damage in the mouse testis induced by LaCl. 2021 , 36, 408-416		1
209	Using genetically encoded heme sensors to probe the mechanisms of heme uptake and homeostasis in <i>Candida albicans</i> . 2021 , 23, e13282		6
208	Interacting with Hemoglobin: spp. Recruits hsp30 on Its Cell Surface for Enhanced Ability to Use This Iron Source. 2021 , 7,		0
207	Novel mutual prodrug of 5-fluorouracil and heme oxygenase-1 inhibitor (5-FU/HO-1 hybrid): design and preliminary evaluation. 2021 , 36, 1378-1386		5
206	Role of Promoter Genetic Variants in Chemoresistance and Chemotherapy Induced Neutropenia in Children with Acute Lymphoblastic Leukemia. 2021 , 22,		4
205	The effects of feeding nitrate on the development of methaemoglobinaemia in sedentary <i>Bos indicus</i> cattle. 2021 ,		
204	Dioxygen-Binding in Metalloproteins and Corresponding Models. 2021 , 200-237		0
203	Plant gasotransmitters: light molecules interplaying with heavy metals. 2021 , 20, 31-53		1
202	Neonatal hyperbilirubinemia management: Clinical assessment of bilirubin production. 2021 , 45, 151351		5

201	Heme Oxygenase-1 Deficiency and Oxidative Stress: A Review of 9 Independent Human Cases and Animal Models. 2021 , 22,			11
200	Increased Plasma Heme Oxygenase-1 Levels in Patients With Early-Stage Parkinson's Disease. 2021 , 13, 621508			6
199	The Role of Heme Oxygenase-1 Promoter Polymorphisms in Perinatal Disease. 2021 , 18,			1
198	Palladium Probe Consisting of Naphthalimide and Ethylenediamine for Selective Turn-On Sensing of CO and Cell Imaging. 2021 , 60, 7108-7114			1
197	GT-Repeat Polymorphism in the HO-1 Gene Promoter Is Associated with Risk of Liver Cancer: A Follow-Up Study from Arseniasis-Endemic Areas in Taiwan. 2021 , 10,			
196	Early life stress induces dysregulation of the heme pathway in adult mice. 2021 , 9, e14844			
195	Clinical Significance of Heme Oxygenase 1 in Tumor Progression. <i>Antioxidants</i> , 2021 , 10,	7.1		7
194	Application of a expression system to identify proteins translocated into host cells. 2021 ,			3
193	Carbon Monoxide: from Poison to Clinical Trials. 2021 , 42, 329-339			17
192	The antioxidant response in Barrett's tumorigenesis: A double-edged sword. 2021 , 41, 101894			5
191	Carbon Monoxide Releasing Molecule-3 Enhances Heme Oxygenase-1 Induction via ROS-Dependent FoxO1 and Nrf2 in Brain Astrocytes. <i>Oxidative Medicine and Cellular Longevity</i> , 2021 , 2021, 5521196	6.7		4
190	Heme oxygenase-1 induction by heat shock in rat hepatoma cell line is regulated by the coordinated function of HSF1, NRF2 and BACH1. 2021 , 170, 501-510			1
189	Heme oxygenase-2 (HO-2) binds and buffers labile heme, which is largely oxidized, in human embryonic kidney cells.			
188	The Role of Gasotransmitters in Gut Peptide Actions. <i>Frontiers in Pharmacology</i> , 2021 , 12, 720703	5.6		4
187	Bilirubin Links and Gene Polymorphisms to Predict Cardiovascular Outcome in Patients Receiving Maintenance Hemodialysis. <i>Antioxidants</i> , 2021 , 10,	7.1		0
186	Understanding the Logistics for the Distribution of Heme in Cells. 2021 , 1, 1541-1555			2
185	HO-1: A new potential therapeutic target to combat osteoporosis. 2021 , 906, 174219			2
184	MicroRNA-760 resists ambient PM-induced apoptosis in human bronchial epithelial cells through elevating heme-oxygenase 1 expression. 2021 , 284, 117213			3

183	UV-Induced Neuronal Degeneration in the Rat Cerebral Cortex. 2021 , 2, tgab006	1
182	Skeletal Muscle Adaptations to Disease States. 2006 , 315-360	2
181	Polymer Therapeutics for Cancer: Current Status and Future Challenges. 1-65	105
180	Zinc protoporphyrin IX attenuates closed head injury-induced edema formation, blood-brain barrier disruption, and serotonin levels in the rat. 2006 , 96, 151-6	19
179	Intracerebral hemorrhage in complement C3-deficient mice. 2006 , 96, 227-31	15
178	The Question of Balance: The Interaction Between Blood and Ozone. 2008 , 155-165	5
177	Stability and Toxicity of Hemoglobin Solutions. 1995 , 105-131	9
176	Coordinated expression of heme oxygenase-1 and ubiquitin in the porcine heart subjected to ischemia and reperfusion. 1996 , 111-116	2
175	Upregulation of cytochrome P450 1A2 in chronic renal failure: does oxidized tryptophan play a role?. 2003 , 527, 401-7	10
174	Induction of Heme Oxygenase-1 as a Protective Response Against Heme Protein-Induced Renal Injury. 2002 , 241-250	1
173	Heme Oxygenase and Atherosclerosis. 2002 , 269-278	1
172	Human Heme Oxygenase (HO)-1 Deficiency and the Oxidative Injury of Vascular Endothelial Cells. 2002 , 325-334	3
171	Role of Heme Oxygenase in Angiogenesis and Renal Carcinoma. 2002 , 459-467	1
170	Bioluminescence for biological sensing in living mammals. 1999 , 471, 775-84	20
169	Carbon monoxide and carotid body chemoreception. 1996 , 410, 341-4	9
168	The Role of Heme Oxygenase-1 in the Mammalian Stress Response: Molecular Aspects of Regulation and Function. 1997 , 343-386	4
167	Iron Salvage Pathways. 2012 , 141-171	1
166	Overview of HO-1 in inflammatory pathologies. 1999 , 55-91	8

165	Inducible enzymes in inflammation: advances, interactions and conflicts. 1999 , 187-205	2
164	New insights into the mechanisms of cadmium regulation of mouse metallothionein-I gene expression. 1999 , 227-232	1
163	Metallothionein-1,2 and heme oxygenase-1 are expressed in damaged brain regions following chemically-induced seizures. 1999 , 351-357	1
162	Enzymology of Soluble Guanylyl Cyclase. 2000 , 93-109	6
161	The Cellular Stress Gene Response in Brain. 1999 , 243-263	12
160	Biology of Oxidative Stress. 1997 , 5-38	3
159	Hippocampal heme oxygenase-1 in a murine cardiac arrest model. 2003 , 86, 101-3	4
158	Depletion of endogenous serotonin synthesis with p-CPA attenuates upregulation of constitutive isoform of heme oxygenase-2 expression, edema formation and cell injury following a focal trauma to the rat spinal cord. 2003 , 86, 389-94	12
157	A new antioxidant compound H-290/51 attenuates upregulation of constitutive isoform of heme oxygenase (HO-2) following trauma to the rat spinal cord. 2000 , 76, 153-7	15
156	Inducible enzymes with special reference to COX-2 in inflammation and apoptosis. 1996 , 67-83	8
155	Heme Oxygenase-1 Deficiency. 2019 , 67-79	1
154	PHOTOOXIDATIVE STRESS AND PHOTODYNAMIC THERAPY. 1991 , 300-310	1
153	Structure-Function Relationships in NO-Sensitive Guanylyl Cyclase. 2000 , 369-379	1
152	Mechanism of Activation of Soluble Guanylyl Cyclase by NO. 2000 , 381-399	2
151	The Heat Shock Proteins and Hemeoxygenase Response in Central Nervous System Injuries. 2004 , 329-360	8
150	The No Receptor. 1995 , 43-50	10
149	The Heme Oxygenase System In Liver Microcirculation: A Key Mechanism for Hemoglobin Degradation. 1998 , 241-249	1
148	Heme-heme oxygenase complex. Structure of the catalytic site and its implication for oxygen activation.. <i>Journal of Biological Chemistry</i> , 1994 , 269, 1010-1014	5-4 89

147	Rat liver heme oxygenase. High level expression of a truncated soluble form and nature of the meso-hydroxylating species.. <i>Journal of Biological Chemistry</i> , 1993 , 268, 22357-22362	5-4	207
146	Interaction of Fe-protoporphyrin IX and heme analogues with purified recombinant heme oxygenase-2, the constitutive isozyme of the brain and testes. <i>Journal of Biological Chemistry</i> , 1994 , 269, 26390-26395	5-4	22
145	Inactivation of a redox-sensitive protein phosphatase during the early events of tumor necrosis factor/interleukin-1 signal transduction.. <i>Journal of Biological Chemistry</i> , 1993 , 268, 2141-2148	5-4	97
144	Oxidative stress resulting from ultraviolet A irradiation of human skin fibroblasts leads to a heme oxygenase-dependent increase in ferritin. <i>Journal of Biological Chemistry</i> , 1993 , 268, 14678-14681	5-4	295
143	Developmental expression of heme oxygenase isozymes in rat brain. Two HO-2 mRNAs are detected.. <i>Journal of Biological Chemistry</i> , 1990 , 265, 8212-8217	5-4	115
142	Isolation, characterization, and expression in <i>Escherichia coli</i> of a cDNA encoding rat heme oxygenase-2.. <i>Journal of Biological Chemistry</i> , 1990 , 265, 7501-7506	5-4	111
141	Oxidants and antioxidants in atherogenesis: an appraisal. 1999 , 40, 2143-2157		126
140	Chapter 4:HO-1-derived CO Is a Regulator of Vascular Function and Metabolic Syndrome. <i>2-Oxoglutarate-Dependent Oxygenases</i> , 2018 , 59-100	1.8	1
139	Differential expression pattern of heme oxygenase-1/heat shock protein 32 and nitric oxide synthase-II and their impact on liver injury in a rat model of hemorrhage and resuscitation. 1999 , 27, 2766-75		84
138	Heme oxygenase activity and immunohistochemical localization in bovine pulmonary artery and vein. 1997 , 30, 1-6		37
137	Pharmacogenomics and therapeutic target validation in cerebral vasospasm. 2000 , 36 Suppl 2, S1-4		17
136	CO-LOCALIZATION OF CARBON MONOXIDE AND NITRIC OXIDE SYNTHESIZING ENZYMES IN THE HUMAN URETHRAL SPHINCTER. 1999 , 1968-1972		2
135	Heme oxygenase-1 and heat shock protein 70 induction in glia and neurons throughout rat brain after experimental intracerebral hemorrhage. 1997 , 40, 152-60; discussion 160-2		32
134	Hemin arginate-induced heme oxygenase 1 expression improves liver microcirculation and mediates an anti-inflammatory cytokine response after hemorrhagic shock. 2008 , 29, 583-90		27
133	Universally available herbal teas based on sage and perilla elicit potent antiviral activity against SARS-CoV-2 in vitro.		1
132	Regulation of c-jun expression during hypoxic and low-glucose stress. 1994 , 14, 5032-5042		19
131	Vascular smooth muscle cell heme oxygenases generate guanylyl cyclase-stimulatory carbon monoxide. 1995 , 91, 2306-9		195
130	A heme oxygenase product, presumably carbon monoxide, mediates a vasodepressor function in rats. 1995 , 25, 166-9		145

129	Heme oxygenase-1 is regulated by angiotensin II in rat vascular smooth muscle cells. 1997 , 29, 790-5	41
128	Role of endogenous carbon monoxide in central regulation of arterial pressure. 1997 , 30, 962-7	65
127	Nitric oxide induces heme oxygenase-1 gene expression and carbon monoxide production in vascular smooth muscle cells. 1997 , 80, 557-64	256
126	Leydig cell-derived heme oxygenase-1 regulates apoptosis of premeiotic germ cells in response to stress. 2002 , 109, 457-467	62
125	The case of CO signaling: why the jury is still out. 2001 , 107, 1071-3	44
124	Heme oxygenase-1 gene induction as an intrinsic regulation against delayed cerebral vasospasm in rats. 1999 , 104, 59-66	128
123	Hypoxia induces severe right ventricular dilatation and infarction in heme oxygenase-1 null mice. 1999 , 103, R23-9	342
122	Carbon Monoxide. 2005 , 695-716	2
121	Carbon Monoxide in Breath, Blood, and Other Tissues. 2000 , 19-60	41
120	Carbon Monoxide and Vascular Smooth Muscle Cell Growth. 2001 , 45-65	2
119	Studies on the Development of Carbon Monoxide-Releasing Molecules. 2001 , 249-271	5
118	Hyperoxic regulation of lung heme oxygenase in neonatal rats. 1996 , 40, 815-21	34
117	Heme Oxygenase-1 and Heat Shock Protein 70 Induction in Glia and Neurons throughout Rat Brain after Experimental Intracerebral Hemorrhage. 1997 , 40, 152-162	59
116	Biliverdin Reductase-A Deficiency Brighten and Sensitize Biliverdin-binding Chromoproteins. 2020 , 45, 131-141	6
115	Heme oxygenase-1 prevents cardiac dysfunction in streptozotocin-diabetic mice by reducing inflammation, oxidative stress, apoptosis and enhancing autophagy. 2013 , 8, e75927	96
114	Prion Protein Protects against Renal Ischemia/Reperfusion Injury. 2015 , 10, e0136923	12
113	Modification of Caffeic Acid with Pyrrolidine Enhances Antioxidant Ability by Activating AKT/HO-1 Pathway in Heart. 2016 , 11, e0148545	13
112	(GT) _n Repeat Polymorphism in Heme Oxygenase-1 (HO-1) Correlates with Clinical Outcome after Myeloablative or Nonmyeloablative Allogeneic Hematopoietic Cell Transplantation. 2016 , 11, e0168210	5

111	Self-cytoprotection against stress: feedback regulation of heme-dependent metabolism. 2001 , 6, 1-5	7
110	Heme Oxygenase-1 Gene Promoter Microsatellite Polymorphism Is Associated With Restenosis After Percutaneous Transluminal Angioplasty. 2001 , 8, 433-440	45
109	Heme Oxygenase-1 Genotype Is a Vascular Anti-inflammatory Factor Following Balloon Angioplasty. 2002 , 9, 385-394	17
108	Heme oxygenase-1 induction attenuates inducible nitric oxide synthase expression and proteinuria in glomerulonephritis. 1999 , 10, 2540-50	91
107	Restenosis after percutaneous angioplasty: the role of vascular inflammation. 2005 , 1, 73-8	64
106	[Heme oxygenase and its role in defense system; paradigm shift of anti-inflammatory therapy]. 2007 , 30, 11-21	6
105	Effects of heme oxygenase-1 on tissue factor and thrombomodulin in the endothelial cell. 2009 , 20, 315-322	3
104	Heme Oxygenase-1 is an Essential Cytoprotective Component in Oxidative Tissue Injury Induced by Hemorrhagic Shock. 2009 , 44, 28-40	55
103	Immune Modulation by Inhibitors of the HO System. 2020 , 22,	8
102	Excretion of biliary compounds during intrauterine life. 2009 , 15, 817-28	41
101	Heme oxygenase-1 in cholecystokinin-octapeptide attenuated injury of pulmonary artery smooth muscle cells induced by lipopolysaccharide and its signal transduction mechanism. 2004 , 10, 1789-94	6
100	Pyrrolidine dithiocarbamate reduces ischemia-reperfusion injury of the small intestine. 2005 , 11, 7308-13	27
99	Antioxidant role of heme oxygenase-1 in prehepatic portal hypertensive rats. 2006 , 12, 4149-55	14
98	Heme in intestinal epithelial cell turnover, differentiation, detoxification, inflammation, carcinogenesis, absorption and motility. 2006 , 12, 4281-95	59
97	TLR4 mediates LPS-induced HO-1 expression in mouse liver: role of TNF-alpha and IL-1beta. 2003 , 9, 1799-803	39
96	Brassicaphenanthrene A from Brassica rapa protects HT22 neuronal cells through the regulation of Nrf2-mediated heme oxygenase-1 expression. 2020 , 21, 493-500	5
95	The ameliorative effect of Aspergillus awamori on aflatoxin B1-induced hepatic damage in rabbits. 2017 , 10, 363-373	9
94	Regulation of heme oxygenase expression by alcohol, hypoxia and oxidative stress. 2011 , 2, 252-60	13

- 93 15d-PGJ2 inhibits NF- κ B and AP-1-mediated MMP-9 expression and invasion of breast cancer cell by means of a heme oxygenase-1-dependent mechanism. **2020**, 53, 212-217 12
- 92 Residual mitochondrial transmembrane potential decreases unsaturated fatty acid level in sake yeast during alcoholic fermentation. **2016**, 4, e1552 3
- 91 The Metabolism of Nitrogen and Amino Acids. **2001**, 1359-1419
- 90 Carbon Monoxide and Cardiovascular Inflammation. **2001**, 165-180
- 89 Carbon Monoxide Signaling in the Heart. **2001**, 135-145
- 88 Human HO-1 Deficiency and Cardiovascular Dysfunction. **2001**, 181-212
- 87 Heme Oxygenase in Skeletal Muscle. **2002**, 205-213
- 86 End Tidal Breath Carbon Monoxide (ETCO) Levels in Pregnant Women. **2002**, 55-65
- 85 Thioredoxin Facilitates the Induction of Heme Oxygenase-1 in Response to Inflammatory Mediators. **2002**, 227-237
- 84 The Influence of Glucuronidation on in Vitro Assessment of Bilirubin Production as Measure of HO Activity. **2002**, 353-363
- 83 Induction of Apoptosis in Vascular Smooth Muscle Cells by Heme Oxygenase-1-Derived Carbon Monoxide. **2002**, 449-457
- 82 The Role of Heme Oxygenase in Pregnancy. **2002**, 67-82
- 81 Increased Carbon Monoxide in Exhaled Air in Patients with Inflammatory Respiratory Diseases. **2002**, 83-95
- 80 Heme Oxygenase, Ginkgo Biloba Extract and its Terpenoids Protect Myocytes Against Oxidative Injury. **2002**, 399-408
- 79 Hydrogen Sulfide and the Regulation of Neuronal Activities. **2004**, 315-321 0
- 78 Heme Oxygenase-1 (HO-1) -like Immunoreactivity in Synovial Tissue of a Mouse Model of Rheumatoid Arthritis. **2004**, 16, 39-45
- 77 Gasotransmitters as a Novel Class of Metabolic Regulators. **2004**, 359-369
- 76 Impaired vasodilation in cirrhotic livers. **2004**, 81-88

- 75 Nutritional Redox Homeostasis and Cellular Stress Response. **2008**, 1
- 74 Carbon Monoxide and Heme Oxygenase in the Regulation of Pulmonary Vascular Function and Structure. **2011**, 779-786
- 73 Functional Designs of the Gas Exchangers. **2011**, 141-221 0
- 72 Nanomedicine: Emerging Field of Nanotechnology to Human Health. **2012**, 13-54
- 71 Allergic and Immunological Disorders. **2014**, 255-270
- 70 Atherosclerosis. **2014**, 133-210
- 69 Hydrogen peroxide-induced synthesis of the 32kDa stress protein (HO-1) in endothelial cells is serum dependent. **1994**, 91-100
- 68 Role of Small Heat Shock Proteins in the Cardiovascular System. *Developments in Cardiovascular Medicine*, **1997**, 127-158 1
- 67 Heme Oxygenase: A Central Enzyme of Oxygen-Dependent Heme Catabolism and Carbon Monoxide Synthesis. **1998**, 304-314 3
- 66 Heme Degradation Mechanism by Heme Oxygenase: Conversion of β -meso-Hydroxyheme to Verdoheme IX **1998**, 315-321
- 65 Effects of Zinc Protoporphyrin IX, a Heme Oxygenase Inhibitor, on Mitochondrial Membrane Potential in Rat Cultured Hepatocytes. **1998**, 585-590
- 64 Carbon Monoxide: Toxic Waste or Endogenous Modulator of Hepatobiliary Function?. **1998**, 544-549
- 63 Inducible enzymes In the pathogenesis of rheumatoid arthritis. **1999**, 93-107
- 62 Important role of heme oxygenase-1 in renal tubular epithelial cell.. *Japanese Journal of Pediatric Nephrology*, **1999**, 12, 119-126 0
- 61 Environmental Metal Pollutants: Sources and Determinants of Toxicity. **1999**, 1-16
- 60 The role of the inducible enzymes cyclooxygenase-2, nitric oxide synthase and heme oxygenase in angiogenesis of inflammation. **1999**, 125-147 1
- 59 Inflammation. **2014**, 15-99
- 58 Using genetically encoded heme sensors to probe the mechanisms of heme uptake and homeostasis in *Candida albicans*.

57	Heme Oxygenase 1(HO1): An Enzyme of Plant System and Its Role Against Various Abiotic Stresses. 2020 , 355-366		2
56	Ischemia-Reperfusion and Oxidative Stress-Induced Lung Injury. 2020 , 87-101		
55	Dynamic increase of intrahepatic vascular resistance in cirrhosis. 183-194		
54	Heme Oxygenase-1 and Carbon Monoxide in Vascular Regulation. 2005 , 1-12		
53	On the Respective Roles of Nitric Oxide and Carbon Monoxide in Long-Term Potentiation in the Hippocampus. <i>Learning and Memory</i> , 1998 , 5, 467-480	2.8	17
52	Upgrade of an old drug: Auranofin in innovative cancer therapies to overcome drug resistance and to increase drug effectiveness. <i>Medicinal Research Reviews</i> , 2021 ,	14.4	4
51	Kuwanon T and Sanggenon a Isolated from Exert Anti-Inflammatory Effects by Regulating NF- κ B and HO-1/Nrf2 Signaling Pathways in BV2 and RAW264.7 Cells.. <i>Molecules</i> , 2021 , 26,	4.8	1
50	Recent progress in bioactive gas delivery for cancer immunotherapy. <i>Progress in Biomedical Engineering</i> ,	7.2	
49	Computational modeling of macrophage iron sequestration during host defense against <i>Aspergillus</i> .		
48	Heme oxygenase-2 (HO-2) binds and buffers labile ferric heme in human embryonic kidney cells.. <i>Journal of Biological Chemistry</i> , 2021 , 101549	5.4	1
47	Heme oxygenase-1 gene delivery for altering high mobility group box-1 protein in pancreatic islet.. <i>Journal of Controlled Release</i> , 2022 ,	11.7	
46	Therapeutic potential of gasotransmitters for cold stress-related cardiovascular disease. <i>Frigid Zone Medicine</i> , 2022 , 2, 10-24		
45	Choline Protects the Heart from Doxorubicin-Induced Cardiotoxicity through Vagal Activation and Nrf2/HO-1 Pathway.. <i>Oxidative Medicine and Cellular Longevity</i> , 2022 , 2022, 4740931	6.7	1
44	Mechanisms of neuroinflammation in hydrocephalus after intraventricular hemorrhage: a review.. <i>Fluids and Barriers of the CNS</i> , 2022 , 19, 28	7	1
43	Expression Dynamics of Heme Oxygenase-1 in Tumor Cells and the Host Contributes to the Progression of Tumors.. <i>Journal of Personalized Medicine</i> , 2021 , 11,	3.6	1
42	Heme Oxygenase-1 Protects Hair Cells From Gentamicin-Induced Death.. <i>Frontiers in Cellular Neuroscience</i> , 2022 , 16, 783346	6.1	
41	Expression profiles of iron transport molecules along the duodenum.. <i>Journal of Cellular and Molecular Medicine</i> , 2022 ,	5.6	1
40	CHAPTER 4. Haem-based Sensors of Carbon Monoxide. <i>2-Oxoglutarate-Dependent Oxygenases</i> , 84-135	1.8	

39	Image_1.tiff. 2019 ,		
38	Image_2.tiff. 2019 ,		
37	Image_3.tiff. 2019 ,		
36	Image_4.tiff. 2019 ,		
35	Image_5.tiff. 2019 ,		
34	Table_1.pdf. 2019 ,		
33	data_sheet_1.docx. 2018 ,		
32	image_1.PDF. 2018 ,		
31	Overexpression of TIGAR and HO-1 in peripheral blood mononuclear cells (PBMCs) of breast cancer patients treated with radiotherapy.. <i>International Journal of Radiation Biology</i> , 2022 , 1-24	2.9	
30	HO-1 Contributes to Luteolin-Triggered Ferroptosis in Clear Cell Renal Cell Carcinoma via Increasing the Labile Iron Pool and Promoting Lipid Peroxidation. <i>Oxidative Medicine and Cellular Longevity</i> , 2022 , 2022, 1-26	6.7	2
29	Endogenous CO Production in Sickness and in Health. 2022 , 1-26		
28	On the Respective Roles of Nitric Oxide and Carbon Monoxide in Long-Term Potentiation in the Hippocampus. <i>Learning and Memory</i> , 1999 , 6, 63-76	2.8	27
27	Identification of an endoplasmic reticulum stress-related signature associated with clinical prognosis and immune therapy in glioma. <i>BMC Neurology</i> , 2022 , 22,	3.1	
26	Curcumin Alleviated Lipopolysaccharide-Induced Lung Injury Via Regulating Nrf2-ARE and NF- κ B Signaling Pathways in Ducks. <i>Journal of the Science of Food and Agriculture</i> ,	4.3	0
25	Ferroptosis and Tumor Drug Resistance: Current Status and Major Challenges. <i>Frontiers in Pharmacology</i> , 13,	5.6	0
24	Heme Proteins [Structure and Function. 2022 , 709-742		
23	The molecular and metabolic landscape of iron and ferroptosis in cardiovascular disease. <i>Nature Reviews Cardiology</i> ,	14.8	12
22	Computational Modeling of Macrophage Iron Sequestration during Host Defense against <i>Aspergillus</i> . <i>MSphere</i> ,	5	0

21	Role of Heme Oxygenase in Gastrointestinal Epithelial Cells. <i>Antioxidants</i> , 2022 , 11, 1323	7.1	1
20	Biology of macrophage fate decision: Implication in inflammatory disorders. <i>Cell Biology International</i> ,	4.5	0
19	Space anemia unexplained: red blood cells seem to be space-proof. <i>American Journal of Hematology</i> ,	7.1	
18	Carbon Monoxide (&Special Issue& A View of the Present Status and the Future of Medical Gases). <i>Ika Kikaigaku</i> , 2004 , 74, 111-119		
17	Ambroxol, a mucolytic agent, boosts HO -1, suppresses NF- κ B , and decreases the susceptibility of the inflamed rat colon to apoptosis: A new treatment option for treating ulcerative colitis. 2022 , 36,		1
16	Role of Iron-Related Oxidative Stress and Mitochondrial Dysfunction in Cardiovascular Diseases. 2022 , 2022, 1-12		1
15	Differential Effects of Arsenic in Drinking Water on Mouse Hepatic and Intestinal Heme Oxygenase-1 Expression. 2022 , 11, 1835		0
14	Proteomic analysis of the effect of hemin in breast cancer.		0
13	Heat shock-induced heme oxygenase-1 expression in a mouse hepatoma cell line is dependent on HSF1 and modified by NRF2 and BACH1.		0
12	Adverse Effects of Organochlorine Pesticide Residues on Biochemical Parameters and Oxidative Stress in Libyan Agricultural Workers. 2022 , 37, 226-250		0
11	The dual role and mutual dependence of heme/HO-1/Bach1 axis in the carcinogenic and anti-carcinogenic intersection.		1
10	Molecular Regulation of Heme Oxygenase-1 Expression by E2F Transcription Factor 2 in Lung Fibroblast Cells: Relevance to Idiopathic Pulmonary Fibrosis. 2022 , 12, 1531		0
9	Role of Heme Oxygenase-1 in Dual Stress Response of Herbicide and Micronutrient Fe in <i>Arabidopsis thaliana</i> . 2022 , 70, 13499-13509		0
8	Identification of herbal teas and their compounds eliciting antiviral activity against SARS-CoV-2 in vitro. 2022 , 20,		0
7	Puerariae lobatae Radix Alleviates Pre-Eclampsia by Remodeling Gut Microbiota and Protecting the Gut and Placental Barriers. 2022 , 14, 5025		0
6	Inhibition of Inducible Nitric Oxide Synthase by Peroxisome Proliferator-Activated Receptor Agonists: Correlation with Induction of Heme Oxygenase 1. 1998 , 161, 978-984		29
5	Suppression of angiotensin converting enzyme 2, a host receptor for SARS-CoV-2 infection, using 5-aminolevulinic acid in vitro. 2023 , 18, e0281399		0
4	It's a two-way street: Photoswitching and reversible changes of the protein matrix in photoswitchable fluorescent proteins and bacteriophytochromes.		0

- 3 BilirubinBiliverdin concentration measurement using photoacoustic spectroscopic analysis for determining hemorrhage age. ○
- 2 Effects of Exhaustive Exercise on Inflammatory, Apoptotic, and Antioxidative Signaling Pathways in Human Peripheral Blood Mononuclear Cells. **2023**, 28, 3-11 ○
- 1 The impact of heme oxygenase-2 on pharmacological research: A bibliometric analysis and beyond. 14, ○