

Angela Wilks

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77
papers

3,772
citations

37
h-index

60
g-index

148
ext. papers

4,266
ext. citations

6.2
avg, IF

5.48
L-index

#	Paper	IF	Citations
77	Crystal structure of human heme oxygenase-1. <i>Nature Structural Biology</i> , 1999 , 6, 860-7		254
76	Homologues of neisserial heme oxygenase in gram-negative bacteria: degradation of heme by the product of the pigA gene of <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2001 , 183, 6394-403	3.5	202
75	Expression and characterization of a heme oxygenase (Hmu O) from <i>Corynebacterium diphtheriae</i> . Iron acquisition requires oxidative cleavage of the heme macrocycle. <i>Journal of Biological Chemistry</i> , 1998 , 273, 837-41	5.4	176
74	Degradation of heme in gram-negative bacteria: the product of the hemO gene of <i>Neisseriae</i> is a heme oxygenase. <i>Journal of Bacteriology</i> , 2000 , 182, 6783-90	3.5	174
73	Heme oxygenase: evolution, structure, and mechanism. <i>Antioxidants and Redox Signaling</i> , 2002 , 4, 603-14	4.4	148
72	Crystal structure of heme oxygenase from the gram-negative pathogen <i>Neisseria meningitidis</i> and a comparison with mammalian heme oxygenase-1. <i>Biochemistry</i> , 2001 , 40, 11552-8	3.2	127
71	Heme and virulence: how bacterial pathogens regulate, transport and utilize heme. <i>Natural Product Reports</i> , 2007 , 24, 511-22	15.1	114
70	Identification of histidine 25 as the heme ligand in human liver heme oxygenase. <i>Biochemistry</i> , 1994 , 33, 13734-40	3.2	112
69	Expression and characterization of truncated human heme oxygenase (hHO-1) and a fusion protein of hHO-1 with human cytochrome P450 reductase. <i>Biochemistry</i> , 1995 , 34, 4421-7	3.2	111
68	Structural basis for novel delta-regioselective heme oxygenation in the opportunistic pathogen <i>Pseudomonas aeruginosa</i> . <i>Biochemistry</i> , 2004 , 43, 5239-45	3.2	102
67	Resonance Raman and EPR spectroscopic studies on heme-heme oxygenase complexes. <i>Biochemistry</i> , 1993 , 32, 14151-7	3.2	101
66	Replacement of the proximal histidine iron ligand by a cysteine or tyrosine converts heme oxygenase to an oxidase. <i>Biochemistry</i> , 1999 , 38, 3733-43	3.2	98
65	Characterization of the periplasmic heme-binding protein shut from the heme uptake system of <i>Shigella dysenteriae</i> . <i>Biochemistry</i> , 2005 , 44, 13179-91	3.2	91
64	Oxidation of heme to beta- and delta-biliverdin by <i>Pseudomonas aeruginosa</i> heme oxygenase as a consequence of an unusual seating of the heme. <i>Journal of the American Chemical Society</i> , 2002 , 124, 14879-92	16.4	88
63	Adaptation of iron homeostasis pathways by a <i>Pseudomonas aeruginosa</i> pyoverdine mutant in the cystic fibrosis lung. <i>Journal of Bacteriology</i> , 2014 , 196, 2265-76	3.5	87
62	Dual-seq transcriptomics reveals the battle for iron during <i>Pseudomonas aeruginosa</i> acute murine pneumonia. <i>Scientific Reports</i> , 2016 , 6, 39172	4.9	84
61	Heme oxygenase structure and mechanism. <i>Advances in Inorganic Chemistry</i> , 2000 , 51, 359-407	2.1	76

60	HutZ is required for efficient heme utilization in <i>Vibrio cholerae</i> . <i>Journal of Bacteriology</i> , 2004 , 186, 4142-51	5.1	74
59	The cytoplasmic heme-binding protein (PhuS) from the heme uptake system of <i>Pseudomonas aeruginosa</i> is an intracellular heme-trafficking protein to the delta-regioselective heme oxygenase. <i>Journal of Biological Chemistry</i> , 2006 , 281, 13652-13662	5.4	69
58	Heme oxygenation and the widening paradigm of heme degradation. <i>Archives of Biochemistry and Biophysics</i> , 2014 , 544, 87-95	4.1	61
57	Holo- and apo-bound structures of bacterial periplasmic heme-binding proteins. <i>Journal of Biological Chemistry</i> , 2007 , 282, 35796-802	5.4	61
56	Extracellular Heme Uptake and the Challenge of Bacterial Cell Membranes. <i>Annual Review of Biochemistry</i> , 2017 , 86, 799-823	29.1	60
55	Heme Oxygenase His25Ala Mutant: Replacement of the Proximal Histidine Iron Ligand by Exogenous Bases Restores Catalytic Activity. <i>Journal of the American Chemical Society</i> , 1995 , 117, 2925-2928	16.4	59
54	Proton NMR investigation of substrate-bound heme oxygenase: evidence for electronic and steric contributions to stereoselective heme cleavage. <i>Biochemistry</i> , 1994 , 33, 6631-41	3.2	59
53	The hydroxide complex of <i>Pseudomonas aeruginosa</i> heme oxygenase as a model of the low-spin iron(III) hydroperoxide intermediate in heme catabolism: ¹³ C NMR spectroscopic studies suggest the active participation of the heme in macrocycle hydroxylation. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11842-52	16.4	56
52	The prrF-encoded small regulatory RNAs are required for iron homeostasis and virulence of <i>Pseudomonas aeruginosa</i> . <i>Infection and Immunity</i> , 2015 , 83, 863-75	3.7	52
51	Heme utilization by pathogenic bacteria: not all pathways lead to biliverdin. <i>Accounts of Chemical Research</i> , 2014 , 47, 2291-8	24.3	51
50	Azide-inhibited bacterial heme oxygenases exhibit an S = 3/2 (dxz,dyz) ³ (dxy) ¹ (dz ²) ¹ spin state: mechanistic implications for heme oxidation. <i>Journal of the American Chemical Society</i> , 2005 , 127, 9794-807	16.4	48
49	Crystallization of recombinant human heme oxygenase-1. <i>Protein Science</i> , 1998 , 7, 1836-8	6.3	46
48	Crystal structures of the NO- and CO-bound heme oxygenase from <i>Neisseriae meningitidis</i> . Implications for O ₂ activation. <i>Journal of Biological Chemistry</i> , 2003 , 278, 34654-9	5.4	45
47	Solution ¹ H 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. <i>Journal of the American Chemical Society</i> , 1998 , 120, 8875-8884	16.4	45
46	The mechanism of heme transfer from the cytoplasmic heme binding protein PhuS to the delta-regioselective heme oxygenase of <i>Pseudomonas aeruginosa</i> . <i>Biochemistry</i> , 2006 , 45, 11642-9	3.2	42
45	The <i>P. aeruginosa</i> heme binding protein PhuS is a heme oxygenase titratable regulator of heme uptake. <i>ACS Chemical Biology</i> , 2013 , 8, 1794-802	4.9	41
44	The role of the cytoplasmic heme-binding protein (PhuS) of <i>Pseudomonas aeruginosa</i> in intracellular heme trafficking and iron homeostasis. <i>Journal of Biological Chemistry</i> , 2009 , 284, 56-66	5.4	41
43	Differential contributions of the outer membrane receptors PhuR and HasR to heme acquisition in <i>Pseudomonas aeruginosa</i> . <i>Journal of Biological Chemistry</i> , 2015 , 290, 7756-66	5.4	40

42	Induced fit on heme binding to the <i>Pseudomonas aeruginosa</i> cytoplasmic protein (PhuS) drives interaction with heme oxygenase (HemO). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 5639-44	11.5	39
41	Characterization of the outer membrane receptor ShuA from the heme uptake system of <i>Shigella dysenteriae</i> . Substrate specificity and identification of the heme protein ligands. <i>Journal of Biological Chemistry</i> , 2007 , 282, 15126-36	5.4	39
40	Metabolic flux of extracellular heme uptake in <i>Pseudomonas aeruginosa</i> is driven by the iron-regulated heme oxygenase (HemO). <i>Journal of Biological Chemistry</i> , 2012 , 287, 18342-50	5.4	37
39	Inhibition of the bacterial heme oxygenases from <i>Pseudomonas aeruginosa</i> and <i>Neisseria meningitidis</i> : novel antimicrobial targets. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 3804-13	8.3	34
38	The ShuS protein of <i>Shigella dysenteriae</i> is a heme-sequestering protein that also binds DNA. <i>Archives of Biochemistry and Biophysics</i> , 2001 , 387, 137-42	4.1	34
37	Identification of the proximal ligand His-20 in heme oxygenase (Hmu O) from <i>Corynebacterium diphtheriae</i> . Oxidative cleavage of the heme macrocycle does not require the proximal histidine. <i>Journal of Biological Chemistry</i> , 2000 , 275, 11686-92	5.4	33
36	Proteomic Analysis of the <i>Pseudomonas aeruginosa</i> Iron Starvation Response Reveals PrrF Small Regulatory RNA-Dependent Iron Regulation of Twitching Motility, Amino Acid Metabolism, and Zinc Homeostasis Proteins. <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	31
35	Functional characterization of the <i>Shigella dysenteriae</i> heme ABC transporter. <i>Biochemistry</i> , 2008 , 47, 7977-9	3.2	30
34	Identification of two heme-binding sites in the cytoplasmic heme-trafficking protein PhuS from <i>Pseudomonas aeruginosa</i> and their relevance to function. <i>Biochemistry</i> , 2007 , 46, 14391-402	3.2	30
33	Iminoguanidines as Allosteric Inhibitors of the Iron-Regulated Heme Oxygenase (HemO) of <i>Pseudomonas aeruginosa</i> . <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 6929-42	8.3	26
32	Metabolite-driven Regulation of Heme Uptake by the Biliverdin IX α -Selective Heme Oxygenase (HemO) of <i>Pseudomonas aeruginosa</i> . <i>Journal of Biological Chemistry</i> , 2016 , 291, 20503-15	5.4	26
31	PAMDB: a comprehensive <i>Pseudomonas aeruginosa</i> metabolome database. <i>Nucleic Acids Research</i> , 2018 , 46, D575-D580	20.1	25
30	The hydrogen-bonding network in heme oxygenase also functions as a modulator of enzyme dynamics: chaotic motions upon disrupting the H-bond network in heme oxygenase from <i>Pseudomonas aeruginosa</i> . <i>Journal of the American Chemical Society</i> , 2007 , 129, 11730-42	16.4	25
29	Small molecule antivirulents targeting the iron-regulated heme oxygenase (HemO) of <i>P. aeruginosa</i> . <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 2097-109	8.3	23
28	Extracellular heme uptake and the challenges of bacterial cell membranes. <i>Current Topics in Membranes</i> , 2012 , 69, 359-92	2.2	22
27	Backbone NMR assignments and H/D exchange studies on the ferric azide- and cyanide-inhibited forms of <i>Pseudomonas aeruginosa</i> heme oxygenase. <i>Biochemistry</i> , 2006 , 45, 4578-92	3.2	21
26	Spectroscopic Determination of Distinct Heme Ligands in Outer-Membrane Receptors PhuR and HasR of <i>Pseudomonas aeruginosa</i> . <i>Biochemistry</i> , 2015 , 54, 2601-12	3.2	20
25	Heme oxidation in a chimeric protein of the alpha-selective <i>Neisseriae meningitidis</i> heme oxygenase with the distal helix of the delta-selective <i>Pseudomonas aeruginosa</i> . <i>Biochemistry</i> , 2005 , 44, 13713-23	3.2	18

24	The ferrous verdoheme-heme oxygenase complex is six-coordinate and low-spin. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17582-3	16.4	18
23	Gallium(III)-Salophen as a Dual Inhibitor of Heme Sensing and Iron Acquisition. <i>ACS Infectious Diseases</i> , 2020 , 6, 2073-2085	5.5	15
22	Heme uptake and utilization by hypervirulent <i>Acinetobacter baumannii</i> LAC-4 is dependent on a canonical heme oxygenase (abHemO). <i>Archives of Biochemistry and Biophysics</i> , 2019 , 672, 108066	4.1	15
21	Ligand-induced allostery in the interaction of the heme binding protein with heme oxygenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3421-3426	11.5	14
20	A rapid seamless method for gene knockout in <i>Pseudomonas aeruginosa</i> . <i>BMC Microbiology</i> , 2017 , 17, 199	4.5	14
19	Post-transcriptional regulation of the heme assimilation system (Has) fine-tunes extracellular heme sensing. <i>Journal of Biological Chemistry</i> , 2019 , 294, 2771-2785	5.4	14
18	Crystal structure of the <i>Pseudomonas aeruginosa</i> cytoplasmic heme binding protein, Apo-PhuS. <i>Journal of Inorganic Biochemistry</i> , 2013 , 128, 131-6	4.2	11
17	Heme inhibits the DNA binding properties of the cytoplasmic heme binding protein of <i>Shigella dysenteriae</i> (ShuS). <i>Biochemistry</i> , 2007 , 46, 2994-3000	3.2	11
16	Structure-based design and biological evaluation of inhibitors of the <i>pseudomonas aeruginosa</i> heme oxygenase (pa-HemO). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018 , 28, 1024-1029	2.9	9
15	Contributions of the heme coordinating ligands of the outer membrane receptor HasR to extracellular heme sensing and transport. <i>Journal of Biological Chemistry</i> , 2020 , 295, 10456-10467	5.4	7
14	72 Mechanisms of Heme Uptake and Utilization in Bacterial Pathogens. <i>Handbook of Porphyrin Science</i> , 2011 , 357-398	0.3	7
13	The Asp99-Arg188 salt bridge of the <i>Pseudomonas aeruginosa</i> HemO is critical in allowing conformational flexibility during catalysis. <i>Journal of Biological Inorganic Chemistry</i> , 2018 , 23, 1057-1070	3.7	5
12	The heme-binding protein PhuS transcriptionally regulates the <i>Pseudomonas aeruginosa</i> tandem sRNA prrF1,F2 locus. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100275	5.4	5
11	Repurposing Acitretin as an Antipseudomonal Agent Targeting the Iron-Regulated Heme Oxygenase. <i>Biochemistry</i> , 2021 , 60, 689-698	3.2	4
10	Catalytic turnover dependent modification of the <i>Pseudomonas aeruginosa</i> heme oxygenase (pa-HO) by 5,6-O-isopropylidene-2-O-allyl-ascorbic acid. <i>Journal of Inorganic Biochemistry</i> , 2008 , 102, 251-9	4.2	3
9	Modeling the native ensemble of PhuS using enhanced sampling MD and HDX-ensemble reweighting. <i>Biophysical Journal</i> , 2021 , 120, 5141-5157	2.9	3
8	Metallotherapeutics development in the age of iron-clad bacteria. <i>Metallomics</i> , 2020 , 12, 1863-1877	4.5	3
7	Bacterial Heme Oxygenases 2014 , 86-95		2

6	Extracellular haem utilization by the opportunistic pathogen <i>Pseudomonas aeruginosa</i> and its role in virulence and pathogenesis. <i>Advances in Microbial Physiology</i> , 2021 , 79, 89-132	4.4	2
5	Axial Heme Coordination by the Tyr-His Motif in the Extracellular Hemophore HasA Is Critical for the Release of Heme to the HasR Receptor of <i>Biochemistry</i> , 2021 , 60, 2549-2559	3.2	1
4	Understanding RNA Binding by the Nonclassical Zinc Finger Protein CPSF30, a Key Factor in Polyadenylation during Pre-mRNA Processing. <i>Biochemistry</i> , 2021 , 60, 780-790	3.2	1
3	Recombinant Production of Biliverdin IX α and β isomers in the T7 Promoter Compatible Nissle.. <i>Frontiers in Microbiology</i> , 2021 , 12, 787609	5.7	0
2	Extracellular Heme Uptake and Metabolism in Bacterial Pathogenesis. <i>Handbook of Porphyrin Science</i> , 2013 , 267-315	0.3	
1	NMR assignments of cd-HO, a 24 kDa heme oxygenase from <i>Corynebacterium diphtheria</i> . <i>Biomolecular NMR Assignments</i> , 2007 , 1, 55-6	0.7	