

Jotaro Igarashi

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36
papers

961
citations

18
h-index

30
g-index

40
ext. papers

1,030
ext. citations

4.4
avg, IF

3.38
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 36 | Minimal pharmacophoric elements and fragment hopping, an approach directed at molecular diversity and isozyme selectivity. Design of selective neuronal nitric oxide synthase inhibitors. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3900-14 | 16.4 | 88 |
| 35 | Selective neuronal nitric oxide synthase inhibitors and the prevention of cerebral palsy. <i>Annals of Neurology</i> , 2009 , 65, 209-17 | 9.4 | 71 |
| 34 | Elucidation of the heme binding site of heme-regulated eukaryotic initiation factor 2alpha kinase and the role of the regulatory motif in heme sensing by spectroscopic and catalytic studies of mutant proteins. <i>Journal of Biological Chemistry</i> , 2008 , 283, 18782-91 | 5.4 | 70 |
| 33 | Important roles of Tyr43 at the putative heme distal side in the oxygen recognition and stability of the Fe(II)-O ₂ complex of YddV, a globin-coupled heme-based oxygen sensor diguanylate cyclase. <i>Biochemistry</i> , 2010 , 49, 10381-93 | 3.2 | 61 |
| 32 | Activation of heme-regulated eukaryotic initiation factor 2alpha kinase by nitric oxide is induced by the formation of a five-coordinate NO-heme complex: optical absorption, electron spin resonance, and resonance raman spectral studies. <i>Journal of Biological Chemistry</i> , 2004 , 279, 15752-62 | 5.4 | 56 |
| 31 | Heme-binding characteristics of the isolated PAS-A domain of mouse Per2, a transcriptional regulatory factor associated with circadian rhythms. <i>Biochemistry</i> , 2008 , 47, 6157-68 | 3.2 | 50 |
| 30 | Structural studies of constitutive nitric oxide synthases with diatomic ligands bound. <i>Journal of Biological Inorganic Chemistry</i> , 2006 , 11, 753-68 | 3.7 | 50 |
| 29 | SOUL in mouse eyes is a new hexameric heme-binding protein with characteristic optical absorption, resonance Raman spectral, and heme-binding properties. <i>Biochemistry</i> , 2004 , 43, 14189-98 | 3.2 | 48 |
| 28 | Characterization of heme-regulated eIF2alpha kinase: roles of the N-terminal domain in the oligomeric state, heme binding, catalysis, and inhibition. <i>Biochemistry</i> , 2006 , 45, 9894-905 | 3.2 | 45 |
| 27 | Binding of oxygen and carbon monoxide to a heme-regulated phosphodiesterase from Escherichia coli. Kinetics and infrared spectra of the full-length wild-type enzyme, isolated PAS domain, and Met-95 mutants. <i>Journal of Biological Chemistry</i> , 2004 , 279, 3340-7 | 5.4 | 45 |
| 26 | Arg97 at the heme-distal side of the isolated heme-bound PAS domain of a heme-based oxygen sensor from Escherichia coli (Ec DOS) plays critical roles in autoxidation and binding to gases, particularly O ₂ . <i>Biochemistry</i> , 2008 , 47, 8874-84 | 3.2 | 39 |
| 25 | Identification and functional and spectral characterization of a globin-coupled histidine kinase from Anaeromyxobacter sp. Fw109-5. <i>Journal of Biological Chemistry</i> , 2011 , 286, 35522-35534 | 5.4 | 38 |
| 24 | Spectroscopic and DNA-binding characterization of the isolated heme-bound basic helix-loop-helix-PAS-A domain of neuronal PAS protein 2 (NPAS2), a transcription activator protein associated with circadian rhythms. <i>FEBS Journal</i> , 2006 , 273, 2528-39 | 5.7 | 33 |
| 23 | A hydrogen-bonding network formed by the B10-E7-E11 residues of a truncated hemoglobin from Tetrahymena pyriformis is critical for stability of bound oxygen and nitric oxide detoxification. <i>Journal of Biological Inorganic Chemistry</i> , 2011 , 16, 599-609 | 3.7 | 24 |
| 22 | Leu65 in the heme distal side is critical for the stability of the Fe(II)-O ₂ complex of YddV, a globin-coupled oxygen sensor diguanylate cyclase. <i>Journal of Inorganic Biochemistry</i> , 2012 , 108, 163-70 | 4.2 | 22 |
| 21 | Heme-binding characteristics of the isolated PAS-B domain of mouse Per2, a transcriptional regulatory factor associated with circadian rhythms. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011 , 1814, 326-33 | 4 | 20 |
| 20 | Spectroscopic characterization of the isolated heme-bound PAS-B domain of neuronal PAS domain protein 2 associated with circadian rhythms. <i>FEBS Journal</i> , 2005 , 272, 4153-62 | 5.7 | 20 |

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|----|--|-----|----|
| 19 | Catalysis and oxygen binding of Ec DOS: a haem-based oxygen-sensor enzyme from Escherichia coli. <i>Journal of Biochemistry</i> , 2010 , 148, 693-703 | 3.1 | 18 |
| 18 | Crystal structures of constitutive nitric oxide synthases in complex with de novo designed inhibitors. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 2060-6 | 8.3 | 18 |
| 17 | Exploring the binding conformations of bulkier dipeptide amide inhibitors in constitutive nitric oxide synthases. <i>Biochemistry</i> , 2005 , 44, 15222-9 | 3.2 | 18 |
| 16 | CO binding study of mouse heme-regulated eIF-2alpha kinase: kinetics and resonance Raman spectra. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003 , 1650, 99-104 | 4 | 13 |
| 15 | Identification of Cys385 in the isolated kinase insertion domain of heme-regulated eIF2 alpha kinase (HRI) as the heme axial ligand by site-directed mutagenesis and spectral characterization. <i>Journal of Inorganic Biochemistry</i> , 2007 , 101, 1172-9 | 4.2 | 11 |
| 14 | A primitive myoglobin from Tetrahymena pyriformis: its heme environment, autoxidizability, and genomic DNA structure. <i>BBA - Proteins and Proteomics</i> , 2000 , 1543, 131-45 | | 11 |
| 13 | Hydrogen sulfide stimulates the catalytic activity of a heme-regulated phosphodiesterase from Escherichia coli (Ec DOS). <i>Journal of Inorganic Biochemistry</i> , 2012 , 109, 66-71 | 4.2 | 10 |
| 12 | Autophosphorylation of heme-regulated eukaryotic initiation factor 2kinase and the role of the modification in catalysis. <i>FEBS Journal</i> , 2011 , 278, 918-28 | 5.7 | 9 |
| 11 | Eukaryotic initiation factor 2alpha kinase is a nitric oxide-responsive mercury sensor enzyme: potent inhibition of catalysis by the mercury cation and reversal by nitric oxide. <i>FEBS Letters</i> , 2007 , 581, 4109-14 | 3.8 | 9 |
| 10 | Role of Phe113 at the distal side of the heme domain of an oxygen-sensor (Ec DOS) in the characterization of the heme environment. <i>Journal of Inorganic Biochemistry</i> , 2009 , 103, 989-96 | 4.2 | 7 |
| 9 | The FG loop of a heme-based gas sensor enzyme, Ec DOS, functions in heme binding, autoxidation and catalysis. <i>Journal of Inorganic Biochemistry</i> , 2009 , 103, 1380-5 | 4.2 | 7 |
| 8 | Critical roles of Leu99 and Leu115 at the heme distal side in auto-oxidation and the redox potential of a heme-regulated phosphodiesterase from Escherichia coli. <i>FEBS Journal</i> , 2006 , 273, 1210-23 | 5.7 | 7 |
| 7 | Phosphorylation of a heme-regulated eukaryotic initiation factor 2kinase enhances the interaction with heat-shock protein 90 and substantially upregulates kinase activity. <i>Protein and Peptide Letters</i> , 2011 , 18, 1251-7 | 1.9 | 6 |
| 6 | Identification and Characterization of a Redox Sensor Phosphodiesterase from sp. PN-J185 Containing Bacterial Hemerythrin and HD-GYP Domains. <i>Biochemistry</i> , 2020 , 59, 983-991 | 3.2 | 5 |
| 5 | 73 Emerging Roles of Heme as a Signal and a Gas-Sensing Site: Heme-Sensing and Gas-Sensing Proteins. <i>Handbook of Porphyrin Science</i> , 2011 , 399-460 | 0.3 | 5 |
| 4 | Analysis of the kinetics of CO binding to neuronal nitric oxide synthase by flash photolysis: dual effects of substrates, inhibitors, and tetrahydrobiopterin. <i>Journal of Inorganic Biochemistry</i> , 2004 , 98, 1210-6 | 4.2 | 5 |
| 3 | Dual Effects of the Substrate and Pterins on the Kinetics of CO Binding to Neuronal Nitric Oxide Synthase: A Laser Flash Photolysis Study. <i>Chemistry Letters</i> , 2005 , 34, 752-753 | 1.7 | 1 |
| 2 | Interdomain Electron Transfer in Flavohemoglobin from Candida norvegensis with Antibiotic Azole Compounds.. <i>FEBS Letters</i> , 2022 , | 3.8 | 1 |

1 Heme-regulated Transcriptional Factors Associated with Circadian Rhythms. *Seibutsu Butsuri*, **2010**, 50, 034-035

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