Benoit D'AutrÃ©aux

List of Publications by Year
in descending order

28 papers	4,667 citations	393982 19 h-index	525886 27 g-index
28 all docs	28 docs citations	28 times ranked	7967 citing authors

#	Article	IF	Citations
1	Recent Advances in the Elucidation of Frataxin Biochemical Function Open Novel Perspectives for the Treatment of Friedreichâ€™s Ataxia. Frontiers in Neuroscience, 2022, 16, 838335.	1.4	9
2	Cytoprotective activities of kinetin purine isosteres. Bioorganic and Medicinal Chemistry, 2021, 33, 115993.	1.4	6
3	A Fast and Ratiometric Method for Quantification of Cysteine-Bound Persulfides Based on Alkylation and Gel-Shift Assays. Methods in Molecular Biology, 2021, 2353, 191-205.	0.4	1
4	A Drosophila model of Friedreich ataxia with CRISPR/Cas9 insertion of GAA repeats in the frataxin gene reveals in vivo protection by N-acetyl cysteine. Human Molecular Genetics, 2020, 29, 2831-2844.	1.4	3
5	Mechanism of Ironâ€“Sulfur Cluster Assembly: In the Intimacy of Iron and Sulfur Encounter. Inorganics, 2020, 8, 55.	1.2	29
6	Physiologically relevant reconstitution of iron-sulfur cluster biosynthesis uncovers persulfide-processing functions of ferredoxin-2 and frataxin. Nature Communications, 2019, 10, 3566.	5.8	107
7	A scaffold protein that chaperones a cysteine-sulfenic acid in H2O2 signaling. Nature Chemical Biology, 2017, 13, 909-915.	3.9	49
8	Endoplasmic Reticulum Transport of Glutathione by Sec61 Is Regulated by Ero1 and Bip. Molecular Cell, 2017, 67, 962-973.e5.	4.5	91
9	In vivo parameters influencing 2-Cys Prx oligomerization: The role of enzyme sulfinylation. Redox Biology, 2015, 6, 326-333.	3.9	26
10	Mammalian frataxin directly enhances sulfur transfer of NFS1 persulfide to both ISCU and free thiols. Nature Communications, 2015, 6, 5686.	5.8	123
11	The rotavirus nonstructural protein NSP5 coordinates a [2Feâ€“2S] ironâ€“sulfur cluster that modulates interaction to RNA. FASEB Journal, 2013, 27, 1074-1083.	0.2	30
12	Non-Heme Iron Sensors of Reactive Oxygen and Nitrogen Species. Antioxidants and Redox Signaling, 2012, 17, 1264-1276.	2.5	16
13	Interaction between the reductase Tah18 and highly conserved Feâ€“S containing Dre2 Câ€“terminus is essential for yeast viability. Molecular Microbiology, 2011, 82, 54-67.	1.2	19
14	Glutathione revisited: a vital function in iron metabolism and ancillary role in thiol-redox control. EMBO Journal, 2011, 30, 2044-2056.	3.5	268
15	Cellular Signaling by Reactive Oxygen Species: Biochemical Basis and Physiological Scope. , 2010, , 313-336.		2
16	Evaluation of a standardized method of protein purification and identification after discovery by mass spectrometry. Journal of Proteomics, 2008, 71, 368-378.	1.2	11
17	The Dual Functions of Thiol-Based Peroxidases in H₂O₂Scavenging and Signaling. Antioxidants and Redox Signaling, 2008, 10, 1565-1576.	2.5	144
18	Analysis of the Nitric Oxide-sensing Non-heme Iron Center in the NorR Regulatory Protein. Journal of Biological Chemistry, 2008, 283, 908-918.	1.6	46

#	Article	IF	Citations
19	Characterization of the Nitric Oxide-Reactive Transcriptional Activator NorR. Methods in Enzymology, 2008, 437, 235-251.	0.4	15
20	Reversible Redox- and Zinc-Dependent Dimerization of theEscherichia coliFur Protein. Biochemistry, 2007, 46, 1329-1342.	1.2	40
21	ROS as signalling molecules: mechanisms that generate specificity in ROS homeostasis. Nature Reviews Molecular Cell Biology, 2007, 8, 813-824.	16.1	2,930
22	Mechanism of transcriptional regulation by the Escherichia coli nitric oxide sensor NorR. Biochemical Society Transactions, 2006, 34, 191-194.	1.6	33
23	Structural Changes of Escherichia coli Ferric Uptake Regulator during Metal-dependent Dimerization and Activation Explored by NMR and X-ray Crystallography. Journal of Biological Chemistry, 2006, 281, 21286-21295.	1.6	96
24	DNA binding properties of the Escherichia coli nitric oxide sensor NorR: towards an understanding of the regulation of flavorubredoxin expression. Biochemical Society Transactions, 2005, 33, 181-183.	1.6	11
25	A non-haem iron centre in the transcription factor NorR senses nitric oxide. Nature, 2005, 437, 769-772.	13.7	264
26	DNA Binding Activity of the Escherichia coli Nitric Oxide Sensor NorR Suggests a Conserved Target Sequence in Diverse Proteobacteria. Journal of Bacteriology, 2004, 186, 6656-6660.	1.0	48
27	Spectroscopic Description of the Two Nitrosylâ^'Iron Complexes Responsible for Fur Inhibition by Nitric Oxide. Journal of the American Chemical Society, 2004, 126, 6005-6016.	6.6	88
28	Direct inhibition by nitric oxide of the transcriptional ferric uptake regulation protein via nitrosylation of the iron. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16619-16624.	3.3	162