Benoit D'AutrÃ©aux

List of Publications by Year
in descending order

#	Article	IF	Citations
1	ROS as signalling molecules: mechanisms that generate specificity in ROS homeostasis. Nature Reviews Molecular Cell Biology, 2007, 8, 813-824.	16.1	2,930
2	Glutathione revisited: a vital function in iron metabolism and ancillary role in thiol-redox control. EMBO Journal, 2011, 30, 2044-2056.	3.5	268
3	A non-haem iron centre in the transcription factor NorR senses nitric oxide. Nature, 2005, 437, 769-772.	13.7	264
4	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
5	The Dual Functions of Thiol-Based Peroxidases in H₂O₂Scavenging and Signaling. Antioxidants and Redox Signaling, 2008, 10, 1565-1576.	2.5	144
6	Mammalian frataxin directly enhances sulfur transfer of NFS1 persulfide to both ISCU and free thiols. Nature Communications, 2015, 6, 5686.	5.8	123
7	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
8	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
9	Endoplasmic Reticulum Transport of Glutathione by Sec61 Is Regulated by Ero1 and Bip. Molecular Cell, 2017, 67, 962-973.e5.	4.5	91
10	Spectroscopic Description of the Two Nitrosylâˆ’Iron Complexes Responsible for Fur Inhibition by Nitric Oxide. Journal of the American Chemical Society, 2004, 126, 6005-6016.	6.6	88
11	A scaffold protein that chaperones a cysteine-sulfenic acid in H2O2 signaling. Nature Chemical Biology, 2017, 13, 909-915.	3.9	49
12	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
13	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
14	Reversible Redox- and Zinc-Dependent Dimerization of theEscherichia coliFur Protein. Biochemistry, 2007, 46, 1329-1342.	1.2	40
15	Mechanism of transcriptional regulation by the Escherichia coli nitric oxide sensor NorR. Biochemical Society Transactions, 2006, 34, 191-194.	1.6	33
16	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
17	Mechanism of Ironâ€"Sulfur Cluster Assembly: In the Intimacy of Iron and Sulfur Encounter. Inorganics, 2020, 8, 55.	1.2	29
18	In vivo parameters influencing 2-Cys Prx oligomerization: The role of enzyme sulfinylation. Redox Biology, 2015, 6, 326-333.	3.9	26

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19	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
20	Non-Heme Iron Sensors of Reactive Oxygen and Nitrogen Species. Antioxidants and Redox Signaling, 2012, 17, 1264-1276.	2.5	16
21	Characterization of the Nitric Oxide-Reactive Transcriptional Activator NorR. Methods in Enzymology, 2008, 437, 235-251.	0.4	15
22	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
23	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
24	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
25	Cytoprotective activities of kinetin purine isosteres. Bioorganic and Medicinal Chemistry, 2021, 33, 115993.	1.4	6
26	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
27	Cellular Signaling by Reactive Oxygen Species: Biochemical Basis and Physiological Scope. , 2010, , 313-336.		2
28	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