

Benoit D'Autra©aux

List of Publications by Year in descending order

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Version: 2024-02-01

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	ROS as signalling molecules: mechanisms that generate specificity in ROS homeostasis. <i>Nature Reviews Molecular Cell Biology</i> , 2007, 8, 813-824.	16.1	2,930
2	Glutathione revisited: a vital function in iron metabolism and ancillary role in thiol-redox control. <i>EMBO Journal</i> , 2011, 30, 2044-2056.	3.5	268
3	A non-haem iron centre in the transcription factor NorR senses nitric oxide. <i>Nature</i> , 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. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 16619-16624.	3.3	162
5	The Dual Functions of Thiol-Based Peroxidases in H ₂ O ₂ Scavenging and Signaling. <i>Antioxidants and Redox Signaling</i> , 2008, 10, 1565-1576.	2.5	144
6	Mammalian frataxin directly enhances sulfur transfer of NFS1 persulfide to both ISCU and free thiols. <i>Nature Communications</i> , 2015, 6, 5686.	5.8	123
7	Physiologically relevant reconstitution of iron-sulfur cluster biosynthesis uncovers persulfide-processing functions of ferredoxin-2 and frataxin. <i>Nature Communications</i> , 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. <i>Journal of Biological Chemistry</i> , 2006, 281, 21286-21295.	1.6	96
9	Endoplasmic Reticulum Transport of Glutathione by Sec61 Is Regulated by Ero1 and Bip. <i>Molecular Cell</i> , 2017, 67, 962-973.e5.	4.5	91
10	Spectroscopic Description of the Two Nitrosyl-Iron Complexes Responsible for Fur Inhibition by Nitric Oxide. <i>Journal of the American Chemical Society</i> , 2004, 126, 6005-6016.	6.6	88
11	A scaffold protein that chaperones a cysteine-sulfenic acid in H ₂ O ₂ signaling. <i>Nature Chemical Biology</i> , 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. <i>Journal of Bacteriology</i> , 2004, 186, 6656-6660.	1.0	48
13	Analysis of the Nitric Oxide-sensing Non-heme Iron Center in the NorR Regulatory Protein. <i>Journal of Biological Chemistry</i> , 2008, 283, 908-918.	1.6	46
14	Reversible Redox- and Zinc-Dependent Dimerization of the Escherichia coli Fur Protein. <i>Biochemistry</i> , 2007, 46, 1329-1342.	1.2	40
15	Mechanism of transcriptional regulation by the Escherichia coli nitric oxide sensor NorR. <i>Biochemical Society Transactions</i> , 2006, 34, 191-194.	1.6	33
16	The rotavirus nonstructural protein NSP5 coordinates a [2Fe-2S] iron-sulfur cluster that modulates interaction to RNA. <i>FASEB Journal</i> , 2013, 27, 1074-1083.	0.2	30
17	Mechanism of Iron-Sulfur Cluster Assembly: In the Intimacy of Iron and Sulfur Encounter. <i>Inorganics</i> , 2020, 8, 55.	1.2	29
18	In vivo parameters influencing 2-Cys Prx oligomerization: The role of enzyme sulfinylation. <i>Redox Biology</i> , 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. <i>Molecular Microbiology</i> , 2011, 82, 54-67.	1.2	19
20	Non-Heme Iron Sensors of Reactive Oxygen and Nitrogen Species. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 1264-1276.	2.5	16
21	Characterization of the Nitric Oxide-Reactive Transcriptional Activator NorR. <i>Methods in Enzymology</i> , 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. <i>Biochemical Society Transactions</i> , 2005, 33, 181-183.	1.6	11
23	Evaluation of a standardized method of protein purification and identification after discovery by mass spectrometry. <i>Journal of Proteomics</i> , 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. <i>Frontiers in Neuroscience</i> , 2022, 16, 838335.	1.4	9
25	Cytoprotective activities of kinetin purine isosteres. <i>Bioorganic and Medicinal Chemistry</i> , 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. <i>Human Molecular Genetics</i> , 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. <i>Methods in Molecular Biology</i> , 2021, 2353, 191-205.	0.4	1