

Frédéric Barras

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

2,942
citations

25
h-index

54
g-index

56
ext. papers

3,756
ext. citations

9.1
avg. IF

5.22
L-index

#	Paper	IF	Citations
47	Oxidative stress, protein damage and repair in bacteria. <i>Nature Reviews Microbiology</i> , 2017 , 15, 385-396	22.2	330
46	Repair of oxidized proteins. Identification of a new methionine sulfoxide reductase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 48915-20	5.4	283
45	Building Fe-S proteins: bacterial strategies. <i>Nature Reviews Microbiology</i> , 2010 , 8, 436-46	22.2	249
44	SufC: an unorthodox cytoplasmic ABC/ATPase required for [Fe-S] biogenesis under oxidative stress. <i>EMBO Journal</i> , 2003 , 22, 427-37	13	219
43	Iron/sulfur proteins biogenesis in prokaryotes: formation, regulation and diversity. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013 , 1827, 455-69	4.6	212
42	Fe-S cluster biosynthesis controls uptake of aminoglycosides in a ROS-less death pathway. <i>Science</i> , 2013 , 340, 1583-7	33.3	146
41	Iron-sulfur (Fe/S) protein biogenesis: phylogenomic and genetic studies of A-type carriers. <i>PLoS Genetics</i> , 2009 , 5, e1000497	6	141
40	Species-specific activity of antibacterial drug combinations. <i>Nature</i> , 2018 , 559, 259-263	50.4	137
39	ErpA, an iron sulfur (Fe S) protein of the A-type essential for respiratory metabolism in Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 13626-31	11.5	118
38	NfuA, a new factor required for maturing Fe/S proteins in Escherichia coli under oxidative stress and iron starvation conditions. <i>Journal of Biological Chemistry</i> , 2008 , 283, 14084-91	5.4	114
37	Repairing oxidized proteins in the bacterial envelope using respiratory chain electrons. <i>Nature</i> , 2015 , 528, 409-412	50.4	91
36	Biosynthesis and physiology of coenzyme Q in bacteria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014 , 1837, 1004-11	4.6	82
35	Molecular organization, biochemical function, cellular role and evolution of NfuA, an atypical Fe-S carrier. <i>Molecular Microbiology</i> , 2012 , 86, 155-71	4.1	71
34	Ferredoxin competes with bacterial frataxin in binding to the desulfurase IscS. <i>Journal of Biological Chemistry</i> , 2013 , 288, 24777-87	5.4	61
33	Methionine sulfoxide reductases protect Ffh from oxidative damages in Escherichia coli. <i>EMBO Journal</i> , 2004 , 23, 1868-77	13	57
32	The CsdA cysteine desulphurase promotes Fe/S biogenesis by recruiting Suf components and participates to a new sulphur transfer pathway by recruiting CsdL (ex-YgdL), a ubiquitin-modifying-like protein. <i>Molecular Microbiology</i> , 2009 , 74, 1527-42	4.1	49
31	Reprint of: Iron/sulfur proteins biogenesis in prokaryotes: formation, regulation and diversity. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013 , 1827, 923-37	4.6	48

30	Biogenesis of Fe/S proteins and pathogenicity: IscR plays a key role in allowing <i>Erwinia chrysanthemi</i> to adapt to hostile conditions. <i>Molecular Microbiology</i> , 2008 , 67, 1257-73	4.1	46
29	In vivo [Fe-S] cluster acquisition by IscR and NsrR, two stress regulators in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2013 , 87, 493-508	4.1	35
28	ubil, a new gene in <i>Escherichia coli</i> coenzyme Q biosynthesis, is involved in aerobic C5-hydroxylation. <i>Journal of Biological Chemistry</i> , 2013 , 288, 20085-92	5.4	34
27	The liaisons dangereuses between iron and antibiotics. <i>FEMS Microbiology Reviews</i> , 2016 , 40, 418-35	15.1	32
26	The iron-binding CyaY and IscX proteins assist the ISC-catalyzed Fe-S biogenesis in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2015 , 95, 605-23	4.1	30
25	Silver and Antibiotic, New Facts to an Old Story. <i>Antibiotics</i> , 2018 , 7,	4.9	30
24	ubiJ, a new gene required for aerobic growth and proliferation in macrophage, is involved in coenzyme Q biosynthesis in <i>Escherichia coli</i> and <i>Salmonella enterica</i> serovar Typhimurium. <i>Journal of Bacteriology</i> , 2014 , 196, 70-9	3.5	28
23	Evolution of Ubiquinone Biosynthesis: Multiple Proteobacterial Enzymes with Various Regioselectivities To Catalyze Three Contiguous Aromatic Hydroxylation Reactions. <i>MSystems</i> , 2016 , 1,	7.6	25
22	The UbiK protein is an accessory factor necessary for bacterial ubiquinone (UQ) biosynthesis and forms a complex with the UQ biogenesis factor UbiJ. <i>Journal of Biological Chemistry</i> , 2017 , 292, 11937-11950	5.4	24
21	The SUF system: an ABC ATPase-dependent protein complex with a role in Fe-S cluster biogenesis. <i>Research in Microbiology</i> , 2019 , 170, 426-434	4	22
20	A Soluble Metabolon Synthesizes the Isoprenoid Lipid Ubiquinone. <i>Cell Chemical Biology</i> , 2019 , 26, 482-492.e7	4.2	21
19	Making iron-sulfur cluster: structure, regulation and evolution of the bacterial ISC system. <i>Advances in Microbial Physiology</i> , 2020 , 76, 1-39	4.4	20
18	The ErpA/NfuA complex builds an oxidation-resistant Fe-S cluster delivery pathway. <i>Journal of Biological Chemistry</i> , 2018 , 293, 7689-7702	5.4	20
17	Turning <i>Escherichia coli</i> into a Frataxin-Dependent Organism. <i>PLoS Genetics</i> , 2015 , 11, e1005134	6	18
16	Calorimetry and mass spectrometry study of oxidized calmodulin interaction with target and differential repair by methionine sulfoxide reductases. <i>Biochimie</i> , 2005 , 87, 473-80	4.6	17
15	A Regulatory Circuit Composed of a Transcription Factor, IscR, and a Regulatory RNA, RyhB, Controls Fe-S Cluster Delivery. <i>MBio</i> , 2016 , 7,	7.8	17
14	The MFS efflux pump EmrKY contributes to the survival of <i>Shigella</i> within macrophages. <i>Scientific Reports</i> , 2019 , 9, 2906	4.9	16
13	Commercial Lysogeny Broth culture media and oxidative stress: a cautious tale. <i>Free Radical Biology and Medicine</i> , 2014 , 74, 245-51	7.8	15

12	Silver potentiates aminoglycoside toxicity by enhancing their uptake. <i>Molecular Microbiology</i> , 2017 , 105, 115-126	4.1	13
11	Ubiquinone Biosynthesis over the Entire O Range: Characterization of a Conserved O-Independent Pathway. <i>MBio</i> , 2019 , 10,	7.8	13
10	The iron-sulfur cluster sensor IscR is a negative regulator of Spi1 type III secretion system in <i>Salmonella enterica</i> . <i>Cellular Microbiology</i> , 2017 , 19, e12680	3.9	12
9	The O-independent pathway of ubiquinone biosynthesis is essential for denitrification in. <i>Journal of Biological Chemistry</i> , 2020 , 295, 9021-9032	5.4	9
8	Redox controls RecA protein activity via reversible oxidation of its methionine residues. <i>ELife</i> , 2021 , 10,	8.9	9
7	A small RNA controls bacterial sensitivity to gentamicin during iron starvation. <i>PLoS Genetics</i> , 2019 , 15, e1008078	6	8
6	Bacterial Approaches for Assembling Iron-Sulfur Proteins. <i>MBio</i> , 2021 , e0242521	7.8	5
5	Iron-sulfur biology invades tRNA modification: the case of U34 sulfuration. <i>Nucleic Acids Research</i> , 2021 , 49, 3997-4007	20.1	5
4	Oxidative stress antagonizes fluoroquinolone drug sensitivity via the SoxR-SUF Fe-S cluster homeostatic axis. <i>PLoS Genetics</i> , 2020 , 16, e1009198	6	4
3	The Biosynthetic Pathway of Ubiquinone Contributes to Pathogenicity of <i>Francisella novicida</i> . <i>Journal of Bacteriology</i> , 2021 , 203, e0040021	3.5	2
2	Resolving phylogenetic and biochemical barriers to functional expression of heterologous iron-sulphur cluster enzymes		1
1	Art and microbiology: encounters of the third type. <i>Environmental Microbiology Reports</i> , 2019 , 11, 29-34	3.7	1