

Frédéric Barras

List of Publications by Year in descending order

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48
papers

4,252
citations

172457

29
h-index

197818

49
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56
all docs

56
docs citations

56
times ranked

4625
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular assays identify barriers impeding iron-sulfur enzyme activity in a non-native prokaryotic host. <i>ELife</i> , 2022, 11, .	6.0	9
2	The Fe-S proteome of <i>Escherichia coli</i> : prediction, function, and fate. <i>Metallomics</i> , 2022, 14, .	2.4	6
3	Redox controls RecA protein activity via reversible oxidation of its methionine residues. <i>ELife</i> , 2021, 10, .	6.0	18
4	Iron-sulfur biology invades tRNA modification: the case of U34 sulfuration. <i>Nucleic Acids Research</i> , 2021, 49, 3997-4007.	14.5	16
5	The Biosynthetic Pathway of Ubiquinone Contributes to Pathogenicity of <i>Francisella novicida</i> . <i>Journal of Bacteriology</i> , 2021, 203, e0040021.	2.2	8
6	Bacterial Approaches for Assembling Iron-Sulfur Proteins. <i>MBio</i> , 2021, 12, e0242521.	4.1	31
7	Making iron-sulfur cluster: structure, regulation and evolution of the bacterial ISC system. <i>Advances in Microbial Physiology</i> , 2020, 76, 1-39.	2.4	32
8	The O ₂ -independent pathway of ubiquinone biosynthesis is essential for denitrification in <i>Pseudomonas aeruginosa</i> . <i>Journal of Biological Chemistry</i> , 2020, 295, 9021-9032.	3.4	25
9	Oxidative stress antagonizes fluoroquinolone drug sensitivity via the SoxR-SUF Fe-S cluster homeostatic axis. <i>PLoS Genetics</i> , 2020, 16, e1009198.	3.5	10
10	Art and microbiology: encounters of the third type. <i>Environmental Microbiology Reports</i> , 2019, 11, 29-34.	2.4	3
11	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.	2.1	49
12	Ubiquinone Biosynthesis over the Entire O ₂ Range: Characterization of a Conserved O ₂ -Independent Pathway. <i>MBio</i> , 2019, 10, .	4.1	34
13	A Soluble Metabolon Synthesizes the Isoprenoid Lipid Ubiquinone. <i>Cell Chemical Biology</i> , 2019, 26, 482-492.e7.	5.2	46
14	A small RNA controls bacterial sensitivity to gentamicin during iron starvation. <i>PLoS Genetics</i> , 2019, 15, e1008078.	3.5	22
15	The MFS efflux pump EmrKY contributes to the survival of <i>Shigella</i> within macrophages. <i>Scientific Reports</i> , 2019, 9, 2906.	3.3	31
16	The ErpA/NfuA complex builds an oxidation-resistant Fe-S cluster delivery pathway. <i>Journal of Biological Chemistry</i> , 2018, 293, 7689-7702.	3.4	28
17	Species-specific activity of antibacterial drug combinations. <i>Nature</i> , 2018, 559, 259-263.	27.8	276
18	Silver and Antibiotic, New Facts to an Old Story. <i>Antibiotics</i> , 2018, 7, 79.	3.7	65

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19	Oxidative stress, protein damage and repair in bacteria. <i>Nature Reviews Microbiology</i> , 2017, 15, 385-396.	28.6	634
20	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.	3.4	35
21	Silver potentiates aminoglycoside toxicity by enhancing their uptake. <i>Molecular Microbiology</i> , 2017, 105, 115-126.	2.5	27
22	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.	2.1	21
23	Evolution of Ubiquinone Biosynthesis: Multiple Proteobacterial Enzymes with Various Regioselectivities To Catalyze Three Contiguous Aromatic Hydroxylation Reactions. <i>MSystems</i> , 2016, 1, .	3.8	44
24	A Regulatory Circuit Composed of a Transcription Factor, IscR, and a Regulatory RNA, RyhB, Controls Fe-S Cluster Delivery. <i>MBio</i> , 2016, 7, .	4.1	41
25	The "liaisons dangereuses"™ between iron and antibiotics. <i>FEMS Microbiology Reviews</i> , 2016, 40, 418-435.	8.6	60
26	Repairing oxidized proteins in the bacterial envelope using respiratory chain electrons. <i>Nature</i> , 2015, 528, 409-412.	27.8	139
27	Turning <i>Escherichia coli</i> into a Frataxin-Dependent Organism. <i>PLoS Genetics</i> , 2015, 11, e1005134.	3.5	19
28	The iron-binding CyaY and IscX proteins assist the ISC-catalyzed F-S biogenesis in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2015, 95, 605-623.	2.5	36
29	Commercial Lysogeny Broth culture media and oxidative stress: A cautious tale. <i>Free Radical Biology and Medicine</i> , 2014, 74, 245-251.	2.9	28
30	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, 70-79.	2.2	38
31	Biosynthesis and physiology of coenzyme Q in bacteria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1004-1011.	1.0	123
32	Reprint of: Iron/sulfur proteins biogenesis in prokaryotes: Formation, regulation and diversity. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 923-937.	1.0	58
33	<i>In vivo</i> [F-S] cluster acquisition by IscR and NsrR, two stress regulators in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2013, 87, 493-508.	2.5	43
34	Iron/sulfur proteins biogenesis in prokaryotes: Formation, regulation and diversity. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 455-469.	1.0	281
35	Fe-S Cluster Biosynthesis Controls Uptake of Aminoglycosides in a ROS-Less Death Pathway. <i>Science</i> , 2013, 340, 1583-1587.	12.6	201
36	Ferredoxin Competes with Bacterial Frataxin in Binding to the Desulfurase IscS*. <i>Journal of Biological Chemistry</i> , 2013, 288, 24777-24787.	3.4	68

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37	ubil, a New Gene in Escherichia coli Coenzyme Q Biosynthesis, Is Involved in Aerobic C5-hydroxylation. Journal of Biological Chemistry, 2013, 288, 20085-20092.	3.4	45
38	Molecular organization, biochemical function, cellular role and evolution of NfuA, an atypical Fe-S carrier. Molecular Microbiology, 2012, 86, 155-171.	2.5	80
39	Building Fe-S proteins: bacterial strategies. Nature Reviews Microbiology, 2010, 8, 436-446.	28.6	334
40	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-like protein. Molecular Microbiology, 2009, 74, 1527-1542.	2.5	52
41	Iron-Sulfur (Fe/S) Protein Biogenesis: Phylogenomic and Genetic Studies of A-Type Carriers. PLoS Genetics, 2009, 5, e1000497.	3.5	166
42	Biogenesis of Fe/S proteins and pathogenicity: IscR plays a key role in allowing <i>Erwinia chrysanthemi</i> to adapt to hostile conditions. Molecular Microbiology, 2008, 67, 1257-1273.	2.5	51
43	NfuA, a New Factor Required for Maturing Fe/S Proteins in Escherichia coli under Oxidative Stress and Iron Starvation Conditions. Journal of Biological Chemistry, 2008, 283, 14084-14091.	3.4	132
44	ErpA, an iron-sulfur (Fe-S) protein of the A-type essential for respiratory metabolism in <i>Escherichia coli</i> . Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13626-13631.	7.1	134
45	Calorimetry and mass spectrometry study of oxidized calmodulin interaction with target and differential repair by methionine sulfoxide reductases. Biochimie, 2005, 87, 473-480.	2.6	20
46	Methionine sulfoxide reductases protect Ffh from oxidative damages in Escherichia coli. EMBO Journal, 2004, 23, 1868-1877.	7.8	62
47	SufC: an unorthodox cytoplasmic ABC/ATPase required for [Fe-S] biogenesis under oxidative stress. EMBO Journal, 2003, 22, 427-437.	7.8	245
48	Repair of Oxidized Proteins. Journal of Biological Chemistry, 2001, 276, 48915-48920.	3.4	320