

Gary Cecchini

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2668126/publications.pdf>

Version: 2024-02-01

48
papers

3,700
citations

201674

27
h-index

206112

48
g-index

49
all docs

49
docs citations

49
times ranked

3260
citing authors

#	ARTICLE	IF	CITATIONS
1	Architecture of Succinate Dehydrogenase and Reactive Oxygen Species Generation. <i>Science</i> , 2003, 299, 700-704.	12.6	806
2	Function and Structure of Complex II of the Respiratory Chain. <i>Annual Review of Biochemistry</i> , 2003, 72, 77-109.	11.1	430
3	Structure of the <i>Escherichia coli</i> Fumarate Reductase Respiratory Complex. <i>Science</i> , 1999, 284, 1961-1966.	12.6	400
4	Structural and Computational Analysis of the Quinone-binding Site of Complex II (Succinate-Ubiquinone Oxidoreductase). <i>Journal of Biological Chemistry</i> , 2006, 281, 7309-7316.	3.4	244
5	Succinate dehydrogenase and fumarate reductase from <i>Escherichia coli</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002, 1553, 140-157.	1.0	228
6	Anaerobic Expression of <i>Escherichia coli</i> Succinate Dehydrogenase: Functional Replacement of Fumarate Reductase in the Respiratory Chain during Anaerobic Growth. <i>Journal of Bacteriology</i> , 1998, 180, 5989-5996.	2.2	125
7	Crystallographic Studies of the <i>Escherichia coli</i> Quinol-Fumarate Reductase with Inhibitors Bound to the Quinol-binding Site. <i>Journal of Biological Chemistry</i> , 2002, 277, 16124-16130.	3.4	98
8	Enzyme Electrokinetics: Energetics of Succinate Oxidation by Fumarate Reductase and Succinate Dehydrogenase. <i>Biochemistry</i> , 2001, 40, 11234-11245.	2.5	88
9	[3Fe-4S] to [4Fe-4S] cluster conversion in <i>Escherichia coli</i> fumarate reductase by site-directed mutagenesis. <i>Biochemistry</i> , 1992, 31, 2703-2712.	2.5	84
10	Structure of <i>Escherichia coli</i> Succinate:Quinone Oxidoreductase with an Occupied and Empty Quinone-binding Site. <i>Journal of Biological Chemistry</i> , 2009, 284, 29836-29846.	3.4	76
11	Effect of cysteine to serine mutations on the properties of the [4Fe-4S] center in <i>Escherichia coli</i> fumarate reductase. <i>Biochemistry</i> , 1995, 34, 12284-12293.	2.5	73
12	The quinone-binding and catalytic site of complex II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1877-1882.	1.0	70
13	Comparison of Catalytic Activity and Inhibitors of Quinone Reactions of Succinate Dehydrogenase (Succinate-Ubiquinone Oxidoreductase) and Fumarate Reductase (Menaquinol-Fumarate) Tj ETQq1 1 0.784314 orgBT /Overlock		
14	The Quinone Binding Site in <i>Escherichia coli</i> Succinate Dehydrogenase Is Required for Electron Transfer to the Heme b. <i>Journal of Biological Chemistry</i> , 2006, 281, 32310-32317.	3.4	51
15	Fumarate Reductase and Succinate Oxidase Activity of <i>Escherichia coli</i> Complex II Homologs Are Perturbed Differently by Mutation of the Flavin Binding Domain. <i>Journal of Biological Chemistry</i> , 2006, 281, 11357-11365.	3.4	49
16	<i>Escherichia coli</i> succinate dehydrogenase variant lacking the heme b. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18007-18012.	7.1	47
17	The bacterial flagellar switch complex is getting more complex. <i>EMBO Journal</i> , 2008, 27, 1134-1144.	7.8	45
18	Interactions of oxaloacetate with <i>Escherichia coli</i> fumarate reductase. <i>Archives of Biochemistry and Biophysics</i> , 1989, 268, 26-34.	3.0	44

#	ARTICLE	IF	CITATIONS
19	Differences in Protonation of Ubiquinone and Menaquinone in Fumarate Reductase from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 26655-26664.	3.4	44
20	Retention of Heme in Axial Ligand Mutants of Succinate-Ubiquinone Oxidoreductase (Complex II) from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2001, 276, 18968-18976.	3.4	41
21	Structural Basis for Malfunction in Complex II. <i>Journal of Biological Chemistry</i> , 2012, 287, 35430-35438.	3.4	41
22	Molecular identification of the enzyme responsible for the mitochondrial NADH-supported ammonium-dependent hydrogen peroxide production. <i>FEBS Letters</i> , 2011, 585, 385-389.	2.8	40
23	Variation in proton donor/acceptor pathways in succinate:quinone oxidoreductases. <i>FEBS Letters</i> , 2003, 545, 31-38.	2.8	39
24	Analyzing your complexes: structure of the quinol-fumarate reductase respiratory complex. <i>Current Opinion in Structural Biology</i> , 2000, 10, 448-455.	5.7	32
25	Evidence for non-cysteinyll coordination of the [2Fe-2S] cluster in <i>Escherichia coli</i> succinate dehydrogenase. <i>FEBS Letters</i> , 1992, 299, 1-4.	2.8	31
26	A novel strong competitive inhibitor of complex I. <i>FEBS Letters</i> , 2005, 579, 4861-4866.	2.8	30
27	Defining a direction: Electron transfer and catalysis in <i>Escherichia coli</i> complex II enzymes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 668-678.	1.0	29
28	Defining the QP-site of <i>Escherichia coli</i> fumarate reductase by site-directed mutagenesis, fluorescence quench titrations and EPR spectroscopy. <i>FEBS Journal</i> , 2005, 272, 313-326.	4.7	28
29	Electron Transfer within Complex II. <i>Journal of Biological Chemistry</i> , 2005, 280, 33331-33337.	3.4	28
30	Redox State of Flavin Adenine Dinucleotide Drives Substrate Binding and Product Release in <i>Escherichia coli</i> Succinate Dehydrogenase. <i>Biochemistry</i> , 2015, 54, 1043-1052.	2.5	26
31	A Threonine on the Active Site Loop Controls Transition State Formation in <i>Escherichia coli</i> Respiratory Complex II. <i>Journal of Biological Chemistry</i> , 2008, 283, 15460-15468.	3.4	25
32	The roles of SDHAF2 and dicarboxylate in covalent flavinylation of SDHA, the human complex II flavoprotein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23548-23556.	7.1	25
33	Overexpression, Purification, and Crystallization of the Membrane-Bound Fumarate Reductase from <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2000, 19, 188-196.	1.3	23
34	The unassembled flavoprotein subunits of human and bacterial complex II have impaired catalytic activity and generate only minor amounts of ROS. <i>Journal of Biological Chemistry</i> , 2018, 293, 7754-7765.	3.4	23
35	Maturation of the respiratory complex II flavoprotein. <i>Current Opinion in Structural Biology</i> , 2019, 59, 38-46.	5.7	22
36	Crystal structure of an assembly intermediate of respiratory Complex II. <i>Nature Communications</i> , 2018, 9, 274.	12.8	21

#	ARTICLE	IF	CITATIONS
37	Geometric Restraint Drives On- and Off-pathway Catalysis by the Escherichia coli Menaquinol:Fumarate Reductase. <i>Journal of Biological Chemistry</i> , 2011, 286, 3047-3056.	3.4	20
38	Binding of the Covalent Flavin Assembly Factor to the Flavoprotein Subunit of Complex II. <i>Journal of Biological Chemistry</i> , 2016, 291, 2904-2916.	3.4	18
39	Electron-Transfer Pathways in the Heme and Quinone-Binding Domain of Complex II (Succinate) Tj ETQq1 1 0.784314 rgBT /Overlock 16	2.5	16
40	Structural and biochemical analyses reveal insights into covalent flavinylation of the Escherichia coli Complex II homolog quinol:fumarate reductase. <i>Journal of Biological Chemistry</i> , 2017, 292, 12921-12933.	3.4	15
41	Mutation of the heme axial ligand of Escherichia coli succinateâ€“quinone reductase: Implications for heme ligation in mitochondrial complex II from yeast. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 747-754.	1.0	12
42	Cardioprotective activity of a novel and potent competitive inhibitor of lactate dehydrogenase. <i>FEBS Letters</i> , 2010, 584, 159-165.	2.8	10
43	New crystal forms of the integral membrane Escherichia coli quinol:fumarate reductase suggest that ligands control domain movement. <i>Journal of Structural Biology</i> , 2018, 202, 100-104.	2.8	8
44	Uptake and binding of riboflavin by membrane vesicles of bacillus subtilis. <i>Journal of Supramolecular Structure</i> , 1980, 13, 93-100.	2.3	5
45	A Mechanism of Modulating the Direction of Flagellar Rotation in Bacteria by Fumarate and Fumarate Reductase. <i>Journal of Molecular Biology</i> , 2019, 431, 3662-3676.	4.2	5
46	Determination of Flavin Potential in Proteins by Xanthine/Xanthine Oxidase Method. <i>Bio-protocol</i> , 2020, 10, e3571.	0.4	5
47	Complexities of complex II: Sulfide metabolism inÂˆvivo. <i>Journal of Biological Chemistry</i> , 2022, 298, 101661.	3.4	4
48	Investigating the Thermostability of Succinate: Quinone Oxidoreductase Enzymes by Direct Electrochemistry at SWNTsâ€™Modified Electrodes and FTIR Spectroscopy. <i>ChemPhysChem</i> , 2014, 15, 3572-3579.	2.1	3