Sergio Guerrero-Castillo

List of Publications by Year
in descending order

38	1,882	304743	315739
papers	citations	22 h-index	38 g-index

42	42	42	2947
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Assembly Pathway of Mitochondrial Respiratory Chain Complex I. Cell Metabolism, 2017, 25, 128-139.	16.2	325
2	The m -AAA Protease Associated with Neurodegeneration Limits MCU Activity in Mitochondria. Molecular Cell, 2016, 64, 148-162.	9.7	153
3	Evolution and structural organization of the mitochondrial contact site (MICOS) complex and the mitochondrial intermembrane space bridging (MIB) complex. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 91-101.	4.1	150
4	Unraveling the complexity of mitochondrial complex I assembly: A dynamic process. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 980-990.	1.0	110
5	MR-1S Interacts with PET100 and PET117 in Module-Based Assembly of Human Cytochrome c Oxidase. Cell Reports, 2017, 18, 1727-1738.	6.4	86
6	Mutations in ATP6V1E1 or ATP6V1A Cause Autosomal-Recessive Cutis Laxa. American Journal of Human Genetics, 2017, 100, 216-227.	6.2	82
7	Locking loop movement in the ubiquinone pocket of complex I disengages the proton pumps. Nature Communications, 2018, 9, 4500.	12.8	80
8	A salvage pathway maintains highly functional respiratory complex I. Nature Communications, 2020, 11, 1643.	12.8	80
9	Accessory NUMM (NDUFS6) subunit harbors a Zn-binding site and is essential for biogenesis of mitochondrial complex I. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5685-5690.	7.1	64
10	A homozygous missense mutation in ERAL1, encoding a mitochondrial rRNA chaperone, causes Perrault syndrome. Human Molecular Genetics, 2017, 26, 2541-2550.	2.9	61
11	Bi-allelic Mutations in the Mitochondrial Ribosomal Protein MRPS2 Cause Sensorineural Hearing Loss, Hypoglycemia, and Multiple OXPHOS Complex Deficiencies. American Journal of Human Genetics, 2018, 102, 685-695.	6.2	61
12	Barth syndrome cells display widespread remodeling of mitochondrial complexes without affecting metabolic flux distribution. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 3650-3658.	3.8	53
13	Mutations in Complex I Assembly Factor TMEM126B Result in Muscle Weakness and Isolated Complex I Deficiency. American Journal of Human Genetics, 2016, 99, 208-216.	6.2	51
14	In Yarrowia lipolytica mitochondria, the alternative NADH dehydrogenase interacts specifically with the cytochrome complexes of the classic respiratory pathway. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 75-85.	1.0	42
15	Physiological uncoupling of mitochondrial oxidative phosphorylation. Studies in different yeast species. Journal of Bioenergetics and Biomembranes, 2011, 43, 323-331.	2.3	38
16	COmplexome Profiling ALignment (COPAL) reveals remodeling of mitochondrial protein complexes in Barth syndrome. Bioinformatics, 2019, 35, 3083-3091.	4.1	37
17	Mitochondrial Unselective Channels throughout the eukaryotic domain. Mitochondrion, 2011, 11, 382-390.	3.4	35
18	Staphylococcus epidermidis: metabolic adaptation and biofilm formation in response to different oxygen concentrations. Pathogens and Disease, 2016, 74, ftv111.	2.0	35

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19	Identification and evolutionary analysis of tissue-specific isoforms of mitochondrial complex I subunit NDUFV3. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 208-217.	1.0	33
20	TMEM70 functions in the assembly of complexes I and V. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148202.	1.0	31
21	CEDAR, an online resource for the reporting and exploration of complexome profiling data. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148411.	1.0	27
22	Mitochondria from the salt-tolerant yeast Debaryomyces hansenii (halophilic organelles?). Journal of Bioenergetics and Biomembranes, 2010, 42, 11-19.	2.3	25
23	During the stationary growth phase, Yarrowia lipolytica prevents the overproduction of reactive oxygen species by activating an uncoupled mitochondrial respiratory pathway. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 353-362.	1.0	25
24	Deactivation of mitochondrial complex I after hypoxiaâ€“ischemia in the immature brain. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 1790-1802.	4.3	24
25	Neutropenia and intellectual disability are hallmarks of biallelic and de novo CLPB deficiency. Genetics in Medicine, 2021, 23, 1705-1714.	2.4	22
26	Complexome Profilingâ€”Exploring Mitochondrial Protein Complexes in Health and Disease. Frontiers in Cell and Developmental Biology, 2021, 9, 796128.	3.7	20
27	The branched mitochondrial respiratory chain from Debaryomyces hansenii: Components and supramolecular organization. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 73-84.	1.0	19
28	Mitochondrial Dysfunction during the Early Stages of Excitotoxic Spinal Motor Neuron Degeneration in Vivo. ACS Chemical Neuroscience, 2016, 7, 886-896.	3.5	18
29	Complexome analysis of the nitrite-dependent methanotroph Methylomirabilis lanthanidiphila. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 734-744.	1.0	18
30	Ablation of mitochondrial DNA results in widespread remodeling of the mitochondrial complexome. EMBO Journal, 2021, 40, e108648.	7.8	18
31	Effect of glycolysis inhibition on mitochondrial function in rat brain. Journal of Biochemical and Molecular Toxicology, 2012, 26, 206-211.	3.0	12
32	The Saccharomyces cerevisiae mitochondrial unselective channel behaves as a physiological uncoupling system regulated by Ca2+, Mg2+, phosphate and ATP. Journal of Bioenergetics and Biomembranes, 2015, 47, 477-491.	2.3	10
33	Novel defect in phosphatidylinositol 4â€kinase type 2â€alpha (<scp>PI4K2A</scp>) at the membraneâ€enzyme interface is associated with metabolic cutis laxa. Journal of Inherited Metabolic Disease, 2020, 43, 1382-1391.	3.6	7
34	Multiplexed complexome profiling using tandem mass tags. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148448.	1.0	6
35	Oxidative phosphorylation in Debaryomyces hansenii: Physiological uncoupling at different growth phases. Biochimie, 2014, 102, 124-136.	2.6	5
36	The plastid proteome of the nonphotosynthetic chlorophycean alga Polytomella parva. Microbiological Research, 2021, 243, 126649.	5.3	5

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37	ZBTB11 dysfunction: spectrum of brain abnormalities, biochemical signature and cellular consequences. Brain, 2022, 145, 2602-2616.	7.6	5
38	A critical tyrosine residue determines the uncoupling protein-like activity of the yeast mitochondrial oxaloacetate carrier. Biochemical Journal, 2012, 443, 317-325.	3.7	4