

David J Pagliarini

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.

73
papers

5,547
citations

31
h-index

74
g-index

86
ext. papers

6,730
ext. citations

13
avg, IF

5.49
L-index

#	Paper	IF	Citations
73	A mitochondrial protein compendium elucidates complex I disease biology. <i>Cell</i> , 2008 , 134, 112-23	56.2	1507
72	Upstream open reading frames cause widespread reduction of protein expression and are polymorphic among humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 7507-12	11.5	566
71	Calorie restriction and SIRT3 trigger global reprogramming of the mitochondrial protein acetylome. <i>Molecular Cell</i> , 2013 , 49, 186-99	17.6	476
70	Mitochondrial modulation: reversible phosphorylation takes center stage?. <i>Trends in Biochemical Sciences</i> , 2006 , 31, 26-34	10.3	200
69	A Single Kinase Generates the Majority of the Secreted Phosphoproteome. <i>Cell</i> , 2015 , 161, 1619-32	56.2	187
68	Mitochondrial Protein Interaction Mapping Identifies Regulators of Respiratory Chain Function. <i>Molecular Cell</i> , 2016 , 63, 621-632	17.6	163
67	Mutation of C20orf7 disrupts complex I assembly and causes lethal neonatal mitochondrial disease. <i>American Journal of Human Genetics</i> , 2008 , 83, 468-78	11	150
66	Neutron-encoded mass signatures for multiplexed proteome quantification. <i>Nature Methods</i> , 2013 , 10, 332-4	21.6	148
65	Biochemistry of Mitochondrial Coenzyme Q Biosynthesis. <i>Trends in Biochemical Sciences</i> , 2017 , 42, 824-843	13.3	126
64	Involvement of a mitochondrial phosphatase in the regulation of ATP production and insulin secretion in pancreatic beta cells. <i>Molecular Cell</i> , 2005 , 19, 197-207	17.6	120
63	A quantitative map of the liver mitochondrial phosphoproteome reveals posttranslational control of ketogenesis. <i>Cell Metabolism</i> , 2012 , 16, 672-83	24.6	117
62	Maximal oxidative capacity during exercise is associated with skeletal muscle fuel selection and dynamic changes in mitochondrial protein acetylation. <i>Cell Metabolism</i> , 2015 , 21, 468-78	24.6	116
61	Hallmarks of a new era in mitochondrial biochemistry. <i>Genes and Development</i> , 2013 , 27, 2615-27	12.6	106
60	Mitochondrial protein hyperacetylation in the failing heart. <i>JCI Insight</i> , 2016 , 2,	9.9	87
59	Quantification of mitochondrial acetylation dynamics highlights prominent sites of metabolic regulation. <i>Journal of Biological Chemistry</i> , 2013 , 288, 26209-26219	5.4	85
58	Mitochondrial COQ9 is a lipid-binding protein that associates with COQ7 to enable coenzyme Q biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E4697-705	11.5	84
57	Mitochondrial protein functions elucidated by multi-omic mass spectrometry profiling. <i>Nature Biotechnology</i> , 2016 , 34, 1191-1197	44.5	84

56	Mitochondrial ADCK3 employs an atypical protein kinase-like fold to enable coenzyme Q biosynthesis. <i>Molecular Cell</i> , 2015 , 57, 83-94	17.6	77
55	Cerebellar Ataxia and Coenzyme Q Deficiency through Loss of Unorthodox Kinase Activity. <i>Molecular Cell</i> , 2016 , 63, 608-620	17.6	67
54	A PTEN-like phosphatase with a novel substrate specificity. <i>Journal of Biological Chemistry</i> , 2004 , 279, 38590-6	5.4	60
53	Complementary RNA and protein profiling identifies iron as a key regulator of mitochondrial biogenesis. <i>Cell Reports</i> , 2013 , 3, 237-45	10.6	52
52	Amine-reactive neutron-encoded labels for highly plexed proteomic quantitation. <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 3360-9	7.6	50
51	Analysis of the acidic proteome with negative electron-transfer dissociation mass spectrometry. <i>Analytical Chemistry</i> , 2012 , 84, 2875-82	7.8	48
50	Coenzyme Q biosynthetic proteins assemble in a substrate-dependent manner into domains at ER-mitochondria contacts. <i>Journal of Cell Biology</i> , 2019 , 218, 1353-1369	7.3	45
49	Multi-omics Reveal Specific Targets of the RNA-Binding Protein Puf3p and Its Orchestration of Mitochondrial Biogenesis. <i>Cell Systems</i> , 2018 , 6, 125-135.e6	10.6	43
48	Two-stage metabolic remodelling in macrophages in response to lipopolysaccharide and interferon- β stimulation. <i>Nature Metabolism</i> , 2019 , 1, 731-742	14.6	42
47	Conserved Lipid and Small-Molecule Modulation of COQ8 Reveals Regulation of the Ancient Kinase-like UbiB Family. <i>Cell Chemical Biology</i> , 2018 , 25, 154-165.e11	8.2	40
46	Neutron-encoded mass signatures for quantitative top-down proteomics. <i>Analytical Chemistry</i> , 2014 , 86, 2314-9	7.8	39
45	Inhibitors of bacterial tubulin target bacterial membranes. <i>MedChemComm</i> , 2013 , 4, 112-119	5	37
44	Systems Analyses Reveal Physiological Roles and Genetic Regulators of Liver Lipid Species. <i>Cell Systems</i> , 2018 , 6, 722-733.e6	10.6	32
43	Pharmacological targeting of the mitochondrial phosphatase PTPMT1. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010 , 333, 584-92	4.7	32
42	Genetic Regulation of Plasma Lipid Species and Their Association with Metabolic Phenotypes. <i>Cell Systems</i> , 2018 , 6, 709-721.e6	10.6	31
41	Multi-omic Mitoprotease Profiling Defines a Role for Oct1p in Coenzyme Q Production. <i>Molecular Cell</i> , 2017 , 68, 970-977.e11	17.6	30
40	Ptc7p Dephosphorylates Select Mitochondrial Proteins to Enhance Metabolic Function. <i>Cell Reports</i> , 2017 , 18, 307-313	10.6	28
39	A PTEN-related 5-phosphatidylinositol phosphatase localized in the Golgi. <i>Journal of Biological Chemistry</i> , 2003 , 278, 39866-73	5.4	28

38	Classification of T-cell activation via autofluorescence lifetime imaging. <i>Nature Biomedical Engineering</i> , 2021 , 5, 77-88	19	27
37	Intelligent data acquisition blends targeted and discovery methods. <i>Journal of Proteome Research</i> , 2014 , 13, 2152-61	5.6	25
36	Multiplexed quantification for data-independent acquisition. <i>Analytical Chemistry</i> , 2015 , 87, 2570-5	7.8	25
35	Mitochondrial DNA variant in COX1 subunit significantly alters energy metabolism of geographically divergent wild isolates in <i>Caenorhabditis elegans</i> . <i>Journal of Molecular Biology</i> , 2014 , 426, 2199-216	6.5	25
34	Pathogenic Bi-allelic Mutations in NDUFAF8 Cause Leigh Syndrome with an Isolated Complex I Deficiency. <i>American Journal of Human Genetics</i> , 2020 , 106, 92-101	11	25
33	Pptc7 is an essential phosphatase for promoting mammalian mitochondrial metabolism and biogenesis. <i>Nature Communications</i> , 2019 , 10, 3197	17.4	24
32	Solution NMR structure of yeast succinate dehydrogenase flavinylation factor Sdh5 reveals a putative Sdh1 binding site. <i>Biochemistry</i> , 2012 , 51, 8475-7	3.2	23
31	Erythropoietin signaling regulates heme biosynthesis. <i>ELife</i> , 2017 , 6,	8.9	22
30	Clinico-Genetic, Imaging and Molecular Delineation of COQ8A-Ataxia: A Multicenter Study of 59 Patients. <i>Annals of Neurology</i> , 2020 , 88, 251-263	9.4	21
29	Dual specificity phosphatases 18 and 21 target to opposing sides of the mitochondrial inner membrane. <i>Journal of Biological Chemistry</i> , 2008 , 283, 15440-50	5.4	21
28	Iron Deprivation Induces Transcriptional Regulation of Mitochondrial Biogenesis. <i>Journal of Biological Chemistry</i> , 2016 , 291, 20827-20837	5.4	20
27	An Isoprene Lipid-Binding Protein Promotes Eukaryotic Coenzyme Q Biosynthesis. <i>Molecular Cell</i> , 2019 , 73, 763-774.e10	17.6	20
26	Identification and Quantification of Murine Mitochondrial Proteoforms Using an Integrated Top-Down and Intact-Mass Strategy. <i>Journal of Proteome Research</i> , 2018 , 17, 3526-3536	5.6	18
25	DNA Polymerase γ Increases Mutational Rates in Mitochondrial DNA. <i>ACS Chemical Biology</i> , 2018 , 13, 900-908	4.9	17
24	A Gly-zipper motif mediates homodimerization of the transmembrane domain of the mitochondrial kinase ADCK3. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14068-77	16.4	16
23	Obesity-dependent CDK1 signaling stimulates mitochondrial respiration at complex I in pancreatic β cells. <i>Journal of Biological Chemistry</i> , 2019 , 294, 4656-4666	5.4	16
22	Quantitative shotgun proteome analysis by direct infusion. <i>Nature Methods</i> , 2020 , 17, 1222-1228	21.6	15
21	Integrative proteomics and biochemical analyses define Ptc6p as the pyruvate dehydrogenase phosphatase. <i>Journal of Biological Chemistry</i> , 2017 , 292, 11751-11759	5.4	14

20	Automated gas-phase purification for accurate, multiplexed quantification on a stand-alone ion-trap mass spectrometer. <i>Analytical Chemistry</i> , 2013 , 85, 2079-86	7.8	12
19	Multi-Omic Single-Shot Technology for Integrated Proteome and Lipidome Analysis. <i>Analytical Chemistry</i> , 2021 , 93, 4217-4222	7.8	10
18	Mass spectrometry proteomics reveals a function for mammalian CALCOCO1 in MTOR-regulated selective autophagy. <i>Autophagy</i> , 2020 , 16, 2219-2237	10.2	9
17	Argonaut: A Web Platform for Collaborative Multi-omic Data Visualization and Exploration. <i>Patterns</i> , 2020 , 1,	5.1	7
16	UbiB proteins regulate cellular CoQ distribution in <i>Saccharomyces cerevisiae</i> . <i>Nature Communications</i> , 2021 , 12, 4769	17.4	7
15	Systems Biochemistry Approaches to Defining Mitochondrial Protein Function. <i>Cell Metabolism</i> , 2020 , 31, 669-678	24.6	5
14	The extensive and functionally uncharacterized mitochondrial phosphoproteome. <i>Journal of Biological Chemistry</i> , 2021 , 297, 100880	5.4	3
13	Defining intermediates and redundancies in coenzyme Q precursor biosynthesis. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100643	5.4	3
12	Protein Tyrosine Phosphatases 2004 , 536-542		2
11	Author response: Erythropoietin signaling regulates heme biosynthesis 2017 ,		2
10	UbiB proteins regulate cellular CoQ distribution		1
9	Loss of C2orf69 defines a fatal autoinflammatory syndrome in humans and zebrafish that evokes a glycogen-storage-associated mitochondriopathy. <i>American Journal of Human Genetics</i> , 2021 , 108, 1301-1317	11.1	1
8	Transomics: Mitochondrial Systems Analyses Get Supercomplex. <i>Cell Metabolism</i> , 2016 , 24, 13-4	24.6	1
7	Clinico-Genetic, Imaging and Molecular Delineation of COQ8A-Ataxia: A Multicenter Study of 59 Patients 2020 , 88, 251		1
6	Prolyl endopeptidase-like is a (thio)esterase involved in mitochondrial respiratory chain function. <i>IScience</i> , 2021 , 24, 103460	6.1	0
5	A path to the powerhouse: systems-to-structure approaches for studying mitochondrial proteins. <i>Protein Science</i> , 2018 , 27, 1518-1525	6.3	
4	COQ9 Membrane Association and Its Role in Coenzyme Q Biosynthesis. <i>FASEB Journal</i> , 2018 , 32, 815.8	0.9	
3	Mitochondrial protein functions revealed by global protein-lipid-metabolite profiles. <i>FASEB Journal</i> , 2016 , 30, 1100.4	0.9	

2 Exploring the Role of an Atypical Kinase in Ubiquinone Biosynthesis. *FASEB Journal*, **2012**, 26, 565.12 0.9

1 Iron-dependent regulation of mitochondrial form and function. *FASEB Journal*, **2013**, 27, lb65 0.9