David J Pagliarini

List of Publications by Year
in descending order

74 papers	7,528 citations	101543 36 h-index	102487 66 g-index
86 all docs	86 docs citations	86 times ranked	12201 citing authors

#	Article	IF	Citations
1	Design and Evaluation of Cleavable CoQâ€triphenylphosphonium Analogs. FASEB Journal, 2022, 36, .	0.5	0
2	Defining mitochondrial protein functions through deep multiomic profiling. Nature, 2022, 606, 382-388.	27.8	49
3	Classification of T-cell activation via autofluorescence lifetime imaging. Nature Biomedical Engineering, 2021, 5, 77-88.	22.5	92
4	Defining intermediates and redundancies in coenzyme Q precursor biosynthesis. Journal of Biological Chemistry, 2021, 296, 100643.	3.4	12
5	Multi-Omic Single-Shot Technology for Integrated Proteome and Lipidome Analysis. Analytical Chemistry, 2021, 93, 4217-4222.	6.5	22
6	The extensive and functionally uncharacterized mitochondrial phosphoproteome. Journal of Biological Chemistry, 2021, 297, 100880.	3.4	23
7	Loss of C2orf69 defines a fatal autoinflammatory syndrome in humans and zebrafish that evokes a glycogen-storage-associated mitochondriopathy. American Journal of Human Genetics, 2021, 108, 1301-1317.	6.2	11
8	UbiB proteins regulate cellular CoQ distribution in Saccharomyces cerevisiae. Nature Communications, 2021, 12, 4769.	12.8	26
9	Prolyl endopeptidase-like is a (thio)esterase involved in mitochondrial respiratory chain function. IScience, 2021, 24, 103460.	4.1	8
10	Pathogenic Bi-allelic Mutations in NDUFAF8 Cause Leigh Syndrome with an Isolated Complex I Deficiency. American Journal of Human Genetics, 2020, 106, 92-101.	6.2	39
11	Argonaut: A Web Platform for Collaborative Multi-omic Data Visualization and Exploration. Patterns, 2020, 1, 100122.	5.9	18
12	Quantitative shotgun proteome analysis by direct infusion. Nature Methods, 2020, 17, 1222-1228.	19.0	48
13	Mass spectrometry proteomics reveals a function for mammalian CALCOCO1 in MTOR-regulated selective autophagy. Autophagy, 2020, 16, 2219-2237.	9.1	37
14	Clinicoâ€Genetic, Imaging and Molecular Delineation of <scp>COQ8A</scp>â€Ataxia: A Multicenter Study of 59 Patients. Annals of Neurology, 2020, 88, 251-263.	5.3	52
15	Systems Biochemistry Approaches to Defining Mitochondrial Protein Function. Cell Metabolism, 2020, 31, 669-678.	16.2	16
16	Clinico-Genetic, Imaging and Molecular Delineation of COQ8A-Ataxia: A Multicenter Study of 59 Patients. , 2020, 88, 251.		1
17	Pptc7 is an essential phosphatase for promoting mammalian mitochondrial metabolism and biogenesis. Nature Communications, 2019, 10, 3197.	12.8	45
18	Two-stage metabolic remodelling in macrophages in response to lipopolysaccharide and interferon-Î³ stimulation. Nature Metabolism, 2019, 1, 731-742.	11.9	90

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19	Coenzyme Q biosynthetic proteins assemble in a substrate-dependent manner into domains at ERâ€“mitochondria contacts. Journal of Cell Biology, 2019, 218, 1353-1369.	5.2	69
20	Obesity-dependent CDK1 signaling stimulates mitochondrial respiration at complex I in pancreatic Î²-cells. Journal of Biological Chemistry, 2019, 294, 4656-4666.	3.4	35
21	An Isoprene Lipid-Binding Protein Promotes Eukaryotic Coenzyme Q Biosynthesis. Molecular Cell, 2019, 73, 763-774.e10.	9.7	37
22	ADCK3/COQ8A: the choice target of the UbiB protein kinase-like family. Nature Reviews Drug Discovery, 2019, 18, 815-815.	46.4	15
23	DNA Polymerase Î¸ Increases Mutational Rates in Mitochondrial DNA. ACS Chemical Biology, 2018, 13, 900-908.	3.4	26
24	A path to the powerhouse: systemsâ€toâ€structure approaches for studying mitochondrial proteins. Protein Science, 2018, 27, 1518-1525.	7.6	0
25	Multi-omics Reveal Specific Targets of the RNA-Binding Protein Puf3p and Its Orchestration of Mitochondrial Biogenesis. Cell Systems, 2018, 6, 125-135.e6.	6.2	80
26	Conserved Lipid and Small-Molecule Modulation of COQ8 Reveals Regulation of the Ancient Kinase-like UbiB Family. Cell Chemical Biology, 2018, 25, 154-165.e11.	5.2	63
27	Identification and Quantification of Murine Mitochondrial Proteoforms Using an Integrated Top-Down and Intact-Mass Strategy. Journal of Proteome Research, 2018, 17, 3526-3536.	3.7	23
28	Genetic Regulation of Plasma Lipid Species and Their Association with Metabolic Phenotypes. Cell Systems, 2018, 6, 709-721.e6.	6.2	52
29	Systems Analyses Reveal Physiological Roles and Genetic Regulators of Liver Lipid Species. Cell Systems, 2018, 6, 722-733.e6.	6.2	54
30	COQ9 Membrane Association and Its Role in Coenzyme Q Biosynthesis. FASEB Journal, 2018, 32, 815.8.	0.5	0
31	Ptc7p Dephosphorylates Select Mitochondrial Proteins to Enhance Metabolic Function. Cell Reports, 2017, 18, 307-313.	6.4	45
32	Integrative proteomics and biochemical analyses define Ptc6p as the Saccharomyces cerevisiae pyruvate dehydrogenase phosphatase. Journal of Biological Chemistry, 2017, 292, 11751-11759.	3.4	25
33	Biochemistry of Mitochondrial Coenzyme Q Biosynthesis. Trends in Biochemical Sciences, 2017, 42, 824-843.	7.5	239
34	Multi-omic Mitoprotease Profiling Defines a Role for Oct1p in Coenzyme Q Production. Molecular Cell, 2017, 68, 970-977.e11.	9.7	45
35	Erythropoietin signaling regulates heme biosynthesis. ELife, 2017, 6, .	6.0	36
36	Transomics: Mitochondrial Systems Analyses Get Supercomplex. Cell Metabolism, 2016, 24, 13-14.	16.2	1

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37	Mitochondrial protein functions elucidated by multi-omic mass spectrometry profiling. Nature Biotechnology, 2016, 34, 1191-1197.	17.5	122
38	Mitochondrial Protein Interaction Mapping Identifies Regulators of Respiratory Chain Function. Molecular Cell, 2016, 63, 621-632.	9.7	241
39	Iron Deprivation Induces Transcriptional Regulation of Mitochondrial Biogenesis. Journal of Biological Chemistry, 2016, 291, 20827-20837.	3.4	28
40	Cerebellar Ataxia and Coenzyme Q Deficiency through Loss of Unorthodox Kinase Activity. Molecular Cell, 2016, 63, 608-620.	9.7	101
41	Mitochondrial protein hyperacetylation in the failing heart. JCI Insight, 2016, 1, .	5.0	133
42	Mitochondrial protein functions revealed by global proteinâ€lipidâ€metabolite profiles. FASEB Journal, 2016, 30, 1100.4.	0.5	0
43	Multiplexed Quantification for Data-Independent Acquisition. Analytical Chemistry, 2015, 87, 2570-2575.	6.5	43
44	Maximal Oxidative Capacity during Exercise Is Associated with Skeletal Muscle Fuel Selection and Dynamic Changes in Mitochondrial Protein Acetylation. Cell Metabolism, 2015, 21, 468-478.	16.2	165
45	A Single Kinase Generates the Majority of the Secreted Phosphoproteome. Cell, 2015, 161, 1619-1632.	28.9	264
46	Mitochondrial ADCK3 Employs an Atypical Protein Kinase-like Fold to Enable Coenzyme Q Biosynthesis. Molecular Cell, 2015, 57, 83-94.	9.7	104
47	Mitochondrial COQ9 is a lipid-binding protein that associates with COQ7 to enable coenzyme Q biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4697-705.	7.1	113
48	Mitochondrial DNA Variant in COX1 Subunit Significantly Alters Energy Metabolism of Geographically Divergent Wild Isolates in Caenorhabditis elegans. Journal of Molecular Biology, 2014, 426, 2199-2216.	4.2	49
49	A Gly-Zipper Motif Mediates Homodimerization of the Transmembrane Domain of the Mitochondrial Kinase ADCK3. Journal of the American Chemical Society, 2014, 136, 14068-14077.	13.7	17
50	Neutron-Encoded Mass Signatures for Quantitative Top-Down Proteomics. Analytical Chemistry, 2014, 86, 2314-2319.	6.5	45
51	Intelligent Data Acquisition Blends Targeted and Discovery Methods. Journal of Proteome Research, 2014, 13, 2152-2161.	3.7	39
52	Hallmarks of a new era in mitochondrial biochemistry. Genes and Development, 2013, 27, 2615-2627.	5.9	146
53	Inhibitors of bacterial tubulin target bacterial membranes in vivo. MedChemComm, 2013, 4, 112-119.	3.4	45
54	Calorie Restriction and SIRT3 Trigger Global Reprogramming of the Mitochondrial Protein Acetylome. Molecular Cell, 2013, 49, 186-199.	9.7	584

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55	Complementary RNA and Protein Profiling Identifies Iron as a Key Regulator of Mitochondrial Biogenesis. Cell Reports, 2013, 3, 237-245.	6.4	67
56	Neutron-encoded mass signatures for multiplexed proteome quantification. Nature Methods, 2013, 10, 332-334.	19.0	165
57	Quantification of Mitochondrial Acetylation Dynamics Highlights Prominent Sites of Metabolic Regulation. Journal of Biological Chemistry, 2013, 288, 26209-26219.	3.4	105
58	Automated Gas-Phase Purification for Accurate, Multiplexed Quantification on a Stand-Alone Ion-Trap Mass Spectrometer. Analytical Chemistry, 2013, 85, 2079-2086.	6.5	13
59	Amine-reactive Neutron-encoded Labels for Highly Plexed Proteomic Quantitation. Molecular and Cellular Proteomics, 2013, 12, 3360-3369.	3.8	57
60	Ironâ€dependent regulation of mitochondrial form and function. FASEB Journal, 2013, 27, lb65.	0.5	0
61	A Quantitative Map of the Liver Mitochondrial Phosphoproteome Reveals Posttranslational Control of Ketogenesis. Cell Metabolism, 2012, 16, 672-683.	16.2	141
62	Solution NMR Structure of Yeast Succinate Dehydrogenase Flavinylation Factor Sdh5 Reveals a Putative Sdh1 Binding Site. Biochemistry, 2012, 51, 8475-8477.	2.5	29
63	Analysis of the Acidic Proteome with Negative Electron-Transfer Dissociation Mass Spectrometry. Analytical Chemistry, 2012, 84, 2875-2882.	6.5	57
64	Exploring the Role of an Atypical Kinase in Ubiquinone Biosynthesis. FASEB Journal, 2012, 26, 565.12.	0.5	0
65	Pharmacological Targeting of the Mitochondrial Phosphatase PTPMT1. Journal of Pharmacology and Experimental Therapeutics, 2010, 333, 584-592.	2.5	53
66	Upstream open reading frames cause widespread reduction of protein expression and are polymorphic among humans. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7507-7512.	7.1	741
67	Mutation of C20orf7 Disrupts Complex I Assembly and Causes Lethal Neonatal Mitochondrial Disease. American Journal of Human Genetics, 2008, 83, 468-478.	6.2	175
68	A Mitochondrial Protein Compendium Elucidates Complex I Disease Biology. Cell, 2008, 134, 112-123.	28.9	1,766
69	Dual Specificity Phosphatases 18 and 21 Target to Opposing Sides of the Mitochondrial Inner Membrane. Journal of Biological Chemistry, 2008, 283, 15440-15450.	3.4	24
70	Mitochondrial modulation: reversible phosphorylation takes center stage?. Trends in Biochemical Sciences, 2006, 31, 26-34.	7.5	211
71	Involvement of a Mitochondrial Phosphatase in the Regulation of ATP Production and Insulin Secretion in Pancreatic Î² Cells. Molecular Cell, 2005, 19, 197-207.	9.7	138
72	Protein Tyrosine Phosphatases. , 2004, , 536-542.		3

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73	A PTEN-like Phosphatase with a Novel Substrate Specificity. Journal of Biological Chemistry, 2004, 279, 38590-38596.	3.4	70
74	A PTEN-related 5-Phosphatidylinositol Phosphatase Localized in the Golgi. Journal of Biological Chemistry, 2003, 278, 39866-39873.	3.4	32