

David J Pagliarini

List of Publications by Year in descending order

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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	A Mitochondrial Protein Compendium Elucidates Complex I Disease Biology. <i>Cell</i> , 2008, 134, 112-123.	28.9	1,766
2	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, 7507-7512.	7.1	741
3	Calorie Restriction and SIRT3 Trigger Global Reprogramming of the Mitochondrial Protein Acetylome. <i>Molecular Cell</i> , 2013, 49, 186-199.	9.7	584
4	A Single Kinase Generates the Majority of the Secreted Phosphoproteome. <i>Cell</i> , 2015, 161, 1619-1632.	28.9	264
5	Mitochondrial Protein Interaction Mapping Identifies Regulators of Respiratory Chain Function. <i>Molecular Cell</i> , 2016, 63, 621-632.	9.7	241
6	Biochemistry of Mitochondrial Coenzyme Q Biosynthesis. <i>Trends in Biochemical Sciences</i> , 2017, 42, 824-843.	7.5	239
7	Mitochondrial modulation: reversible phosphorylation takes center stage?. <i>Trends in Biochemical Sciences</i> , 2006, 31, 26-34.	7.5	211
8	Mutation of C20orf7 Disrupts Complex I Assembly and Causes Lethal Neonatal Mitochondrial Disease. <i>American Journal of Human Genetics</i> , 2008, 83, 468-478.	6.2	175
9	Neutron-encoded mass signatures for multiplexed proteome quantification. <i>Nature Methods</i> , 2013, 10, 332-334.	19.0	165
10	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, 468-478.	16.2	165
11	Hallmarks of a new era in mitochondrial biochemistry. <i>Genes and Development</i> , 2013, 27, 2615-2627.	5.9	146
12	A Quantitative Map of the Liver Mitochondrial Phosphoproteome Reveals Posttranslational Control of Ketogenesis. <i>Cell Metabolism</i> , 2012, 16, 672-683.	16.2	141
13	Involvement of a Mitochondrial Phosphatase in the Regulation of ATP Production and Insulin Secretion in Pancreatic β^2 Cells. <i>Molecular Cell</i> , 2005, 19, 197-207.	9.7	138
14	Mitochondrial protein hyperacetylation in the failing heart. <i>JCI Insight</i> , 2016, 1, .	5.0	133
15	Mitochondrial protein functions elucidated by multi-omic mass spectrometry profiling. <i>Nature Biotechnology</i> , 2016, 34, 1191-1197.	17.5	122
16	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.	7.1	113
17	Quantification of Mitochondrial Acetylation Dynamics Highlights Prominent Sites of Metabolic Regulation. <i>Journal of Biological Chemistry</i> , 2013, 288, 26209-26219.	3.4	105
18	Mitochondrial ADCK3 Employs an Atypical Protein Kinase-like Fold to Enable Coenzyme Q Biosynthesis. <i>Molecular Cell</i> , 2015, 57, 83-94.	9.7	104

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19	Cerebellar Ataxia and Coenzyme Q Deficiency through Loss of Unorthodox Kinase Activity. <i>Molecular Cell</i> , 2016, 63, 608-620.	9.7	101
20	Classification of T-cell activation via autofluorescence lifetime imaging. <i>Nature Biomedical Engineering</i> , 2021, 5, 77-88.	22.5	92
21	Two-stage metabolic remodelling in macrophages in response to lipopolysaccharide and interferon- γ stimulation. <i>Nature Metabolism</i> , 2019, 1, 731-742.	11.9	90
22	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.	6.2	80
23	A PTEN-like Phosphatase with a Novel Substrate Specificity. <i>Journal of Biological Chemistry</i> , 2004, 279, 38590-38596.	3.4	70
24	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.	5.2	69
25	Complementary RNA and Protein Profiling Identifies Iron as a Key Regulator of Mitochondrial Biogenesis. <i>Cell Reports</i> , 2013, 3, 237-245.	6.4	67
26	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.	5.2	63
27	Analysis of the Acidic Proteome with Negative Electron-Transfer Dissociation Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 2875-2882.	6.5	57
28	Amine-reactive Neutron-encoded Labels for Highly Plexed Proteomic Quantitation. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 3360-3369.	3.8	57
29	Systems Analyses Reveal Physiological Roles and Genetic Regulators of Liver Lipid Species. <i>Cell Systems</i> , 2018, 6, 722-733.e6.	6.2	54
30	Pharmacological Targeting of the Mitochondrial Phosphatase PTPMT1. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 333, 584-592.	2.5	53
31	Genetic Regulation of Plasma Lipid Species and Their Association with Metabolic Phenotypes. <i>Cell Systems</i> , 2018, 6, 709-721.e6.	6.2	52
32	Clinico-Genetic, Imaging and Molecular Delineation of <i>COQ8A</i> -Ataxia: A Multicenter Study of 59 Patients. <i>Annals of Neurology</i> , 2020, 88, 251-263.	5.3	52
33	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, 2199-2216.	4.2	49
34	Defining mitochondrial protein functions through deep multiomic profiling. <i>Nature</i> , 2022, 606, 382-388.	27.8	49
35	Quantitative shotgun proteome analysis by direct infusion. <i>Nature Methods</i> , 2020, 17, 1222-1228.	19.0	48
36	Inhibitors of bacterial tubulin target bacterial membranes <i>in vivo</i> . <i>MedChemComm</i> , 2013, 4, 112-119.	3.4	45

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37	Neutron-Encoded Mass Signatures for Quantitative Top-Down Proteomics. <i>Analytical Chemistry</i> , 2014, 86, 2314-2319.	6.5	45
38	Ptc7p Dephosphorylates Select Mitochondrial Proteins to Enhance Metabolic Function. <i>Cell Reports</i> , 2017, 18, 307-313.	6.4	45
39	Multi-omic Mitoprotease Profiling Defines a Role for Oct1p in Coenzyme Q Production. <i>Molecular Cell</i> , 2017, 68, 970-977.e11.	9.7	45
40	Pptc7 is an essential phosphatase for promoting mammalian mitochondrial metabolism and biogenesis. <i>Nature Communications</i> , 2019, 10, 3197.	12.8	45
41	Multiplexed Quantification for Data-Independent Acquisition. <i>Analytical Chemistry</i> , 2015, 87, 2570-2575.	6.5	43
42	Intelligent Data Acquisition Blends Targeted and Discovery Methods. <i>Journal of Proteome Research</i> , 2014, 13, 2152-2161.	3.7	39
43	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.	6.2	39
44	An Isoprene Lipid-Binding Protein Promotes Eukaryotic Coenzyme Q Biosynthesis. <i>Molecular Cell</i> , 2019, 73, 763-774.e10.	9.7	37
45	Mass spectrometry proteomics reveals a function for mammalian CALCOCO1 in MTOR-regulated selective autophagy. <i>Autophagy</i> , 2020, 16, 2219-2237.	9.1	37
46	Erythropoietin signaling regulates heme biosynthesis. <i>ELife</i> , 2017, 6, .	6.0	36
47	Obesity-dependent CDK1 signaling stimulates mitochondrial respiration at complex I in pancreatic β -cells. <i>Journal of Biological Chemistry</i> , 2019, 294, 4656-4666.	3.4	35
48	A PTEN-related 5-Phosphatidylinositol Phosphatase Localized in the Golgi. <i>Journal of Biological Chemistry</i> , 2003, 278, 39866-39873.	3.4	32
49	Solution NMR Structure of Yeast Succinate Dehydrogenase Flavinylation Factor Sdh5 Reveals a Putative Sdh1 Binding Site. <i>Biochemistry</i> , 2012, 51, 8475-8477.	2.5	29
50	Iron Deprivation Induces Transcriptional Regulation of Mitochondrial Biogenesis. <i>Journal of Biological Chemistry</i> , 2016, 291, 20827-20837.	3.4	28
51	DNA Polymerase γ Increases Mutational Rates in Mitochondrial DNA. <i>ACS Chemical Biology</i> , 2018, 13, 900-908.	3.4	26
52	UbiB proteins regulate cellular CoQ distribution in <i>Saccharomyces cerevisiae</i> . <i>Nature Communications</i> , 2021, 12, 4769.	12.8	26
53	Integrative proteomics and biochemical analyses define Ptc6p as the <i>Saccharomyces cerevisiae</i> pyruvate dehydrogenase phosphatase. <i>Journal of Biological Chemistry</i> , 2017, 292, 11751-11759.	3.4	25
54	Dual Specificity Phosphatases 18 and 21 Target to Opposing Sides of the Mitochondrial Inner Membrane. <i>Journal of Biological Chemistry</i> , 2008, 283, 15440-15450.	3.4	24

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55	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.	3.7	23
56	The extensive and functionally uncharacterized mitochondrial phosphoproteome. <i>Journal of Biological Chemistry</i> , 2021, 297, 100880.	3.4	23
57	Multi-Omic Single-Shot Technology for Integrated Proteome and Lipidome Analysis. <i>Analytical Chemistry</i> , 2021, 93, 4217-4222.	6.5	22
58	Argonaut: A Web Platform for Collaborative Multi-omic Data Visualization and Exploration. <i>Patterns</i> , 2020, 1, 100122.	5.9	18
59	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, 14068-14077.	13.7	17
60	Systems Biochemistry Approaches to Defining Mitochondrial Protein Function. <i>Cell Metabolism</i> , 2020, 31, 669-678.	16.2	16
61	ADCK3/COQ8A: the choice target of the UbiB protein kinase-like family. <i>Nature Reviews Drug Discovery</i> , 2019, 18, 815-815.	46.4	15
62	Automated Gas-Phase Purification for Accurate, Multiplexed Quantification on a Stand-Alone Ion-Trap Mass Spectrometer. <i>Analytical Chemistry</i> , 2013, 85, 2079-2086.	6.5	13
63	Defining intermediates and redundancies in coenzyme Q precursor biosynthesis. <i>Journal of Biological Chemistry</i> , 2021, 296, 100643.	3.4	12
64	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.	6.2	11
65	Prolyl endopeptidase-like is a (thio)esterase involved in mitochondrial respiratory chain function. <i>IScience</i> , 2021, 24, 103460.	4.1	8
66	Protein Tyrosine Phosphatases. , 2004, , 536-542.		3
67	Transomics: Mitochondrial Systems Analyses Get Supercomplex. <i>Cell Metabolism</i> , 2016, 24, 13-14.	16.2	1
68	Clinico-Genetic, Imaging and Molecular Delineation of COQ8A-Ataxia: A Multicenter Study of 59 Patients. , 2020, 88, 251.		1
69	A path to the powerhouse: systemsâ€”structure approaches for studying mitochondrial proteins. <i>Protein Science</i> , 2018, 27, 1518-1525.	7.6	0
70	Exploring the Role of an Atypical Kinase in Ubiquinone Biosynthesis. <i>FASEB Journal</i> , 2012, 26, 565.12.	0.5	0
71	Ironâ€”dependent regulation of mitochondrial form and function. <i>FASEB Journal</i> , 2013, 27, lb65.	0.5	0
72	Mitochondrial protein functions revealed by global proteinâ€”lipidâ€”metabolite profiles. <i>FASEB Journal</i> , 2016, 30, 1100.4.	0.5	0

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73	COQ9 Membrane Association and Its Role in Coenzyme Q Biosynthesis. FASEB Journal, 2018, 32, 815.8.	0.5	0
74	Design and Evaluation of Cleavable CoQâ€³triphenylphosphonium Analogs. FASEB Journal, 2022, 36, .	0.5	0