David J Pagliarini

List of Publications by Year in Descending Order

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	Prolyl endopeptidase-like is a (thio)esterase involved in mitochondrial respiratory chain function. *IScience*, **2021**, 24, 103460	6.1	0
72	The extensive and functionally uncharacterized mitochondrial phosphoproteome. *Journal of Biological Chemistry*, **2021**, 297, 100880	5.4	3
71	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	11	1
70	Classification of T-cell activation via autofluorescence lifetime imaging. *Nature Biomedical Engineering*, **2021**, 5, 77-88	19	27
69	Defining intermediates and redundancies in coenzyme Q precursor biosynthesis. *Journal of Biological Chemistry*, **2021**, 296, 100643	5.4	3
68	Multi-Omic Single-Shot Technology for Integrated Proteome and Lipidome Analysis. *Analytical Chemistry*, **2021**, 93, 4217-4222	7.8	10
67	UbiB proteins regulate cellular CoQ distribution in Saccharomyces cerevisiae. *Nature Communications*, **2021**, 12, 4769	17.4	7
66	Mass spectrometry proteomics reveals a function for mammalian CALCOCO1 in MTOR-regulated selective autophagy. *Autophagy*, **2020**, 16, 2219-2237	10.2	9
65	Clinico-Genetic, Imaging and Molecular Delineation of COQ8A-Ataxia: A Multicenter Study of 59 Patients. *Annals of Neurology*, **2020**, 88, 251-263	9.4	21
64	Pathogenic Bi-allelic Mutations in NDUFAF8 Cause Leigh Syndrome with an Isolated Complex I Deficiency. *American Journal of Human Genetics*, **2020**, 106, 92-101	11	25
63	Argonaut: A Web Platform for Collaborative Multi-omic Data Visualization and Exploration. *Patterns*, **2020**, 1,	5.1	7
62	Quantitative shotgun proteome analysis by direct infusion. *Nature Methods*, **2020**, 17, 1222-1228	21.6	15
61	Systems Biochemistry Approaches to Defining Mitochondrial Protein Function. *Cell Metabolism*, **2020**, 31, 669-678	24.6	5
60	Clinico-Genetic, Imaging and Molecular Delineation of COQ8A-Ataxia: A Multicenter Study of 59 Patients **2020**, 88, 251		1
59	Coenzyme Q biosynthetic proteins assemble in a substrate-dependent manner into domains at ER-mitochondria contacts. *Journal of Cell Biology*, **2019**, 218, 1353-1369	7.3	45
58	Pptc7 is an essential phosphatase for promoting mammalian mitochondrial metabolism and biogenesis. *Nature Communications*, **2019**, 10, 3197	17.4	24
57	Two-stage metabolic remodelling in macrophages in response to lipopolysaccharide and interferon-stimulation. *Nature Metabolism*, **2019**, 1, 731-742	14.6	42

56	Obesity-dependent CDK1 signaling stimulates mitochondrial respiration at complex I in pancreatic cells. *Journal of Biological Chemistry*, **2019**, 294, 4656-4666	5.4	16
55	An Isoprene Lipid-Binding Protein Promotes Eukaryotic Coenzyme Q Biosynthesis. *Molecular Cell*, **2019**, 73, 763-774.e10	17.6	20
54	DNA Polymerase increases Mutational Rates in Mitochondrial DNA. *ACS Chemical Biology*, **2018**, 13, 900-908	4.9	17
53	A path to the powerhouse: systems-to-structure approaches for studying mitochondrial proteins. *Protein Science*, **2018**, 27, 1518-1525	6.3	
52	Multi-omics Reveal Specific Targets of the RNA-Binding Protein Puf3p and Its Orchestration of Mitochondrial Biogenesis. *Cell Systems*, **2018**, 6, 125-135.e6	10.6	43
51	Genetic Regulation of Plasma Lipid Species and Their Association with Metabolic Phenotypes. *Cell Systems*, **2018**, 6, 709-721.e6	10.6	31
50	Systems Analyses Reveal Physiological Roles and Genetic Regulators of Liver Lipid Species. *Cell Systems*, **2018**, 6, 722-733.e6	10.6	32
49	COQ9 Membrane Association and Its Role in Coenzyme Q Biosynthesis. *FASEB Journal*, **2018**, 32, 815.8	0.9	
48	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	8.2	40
47	Identification and Quantification of Murine Mitochondrial Proteoforms Using an Integrated Top-Down and Intact-Mass Strategy. *Journal of Proteome Research*, **2018**, 17, 3526-3536	5.6	18
46	Ptc7p Dephosphorylates Select Mitochondrial Proteins to Enhance Metabolic Function. *Cell Reports*, **2017**, 18, 307-313	10.6	28
45	Integrative proteomics and biochemical analyses define Ptc6p as the pyruvate dehydrogenase phosphatase. *Journal of Biological Chemistry*, **2017**, 292, 11751-11759	5.4	14
44	Biochemistry of Mitochondrial Coenzyme Q Biosynthesis. *Trends in Biochemical Sciences*, **2017**, 42, 824-843	13.3	126
43	Multi-omic Mitoprotease Profiling Defines a Role for Oct1p in Coenzyme Q Production. *Molecular Cell*, **2017**, 68, 970-977.e11	17.6	30
42	Erythropoietin signaling regulates heme biosynthesis. *ELife*, **2017**, 6,	8.9	22
41	Author response: Erythropoietin signaling regulates heme biosynthesis **2017**,		2
40	Cerebellar Ataxia and Coenzyme Q Deficiency through Loss of Unorthodox Kinase Activity. *Molecular Cell*, **2016**, 63, 608-620	17.6	67
39	Mitochondrial protein hyperacetylation in the failing heart. *JCI Insight*, **2016**, 2,	9.9	87

38	Mitochondrial protein functions revealed by global protein-lipid-metabolite profiles. *FASEB Journal*, **2016**, 30, 1100.4	0.9	
37	Transomics: Mitochondrial Systems Analyses Get Supercomplex. *Cell Metabolism*, **2016**, 24, 13-4	24.6	1
36	Mitochondrial protein functions elucidated by multi-omic mass spectrometry profiling. *Nature Biotechnology*, **2016**, 34, 1191-1197	44.5	84
35	Mitochondrial Protein Interaction Mapping Identifies Regulators of Respiratory Chain Function. *Molecular Cell*, **2016**, 63, 621-632	17.6	163
34	Iron Deprivation Induces Transcriptional Regulation of Mitochondrial Biogenesis. *Journal of Biological Chemistry*, **2016**, 291, 20827-20837	5.4	20
33	Maximal oxidative capacity during exercise is associated with skeletal muscle fuel selection and dynamic changes in mitochondrial protein acetylation. *Cell Metabolism*, **2015**, 21, 468-78	24.6	116
32	A Single Kinase Generates the Majority of the Secreted Phosphoproteome. *Cell*, **2015**, 161, 1619-32	56.2	187
31	Mitochondrial ADCK3 employs an atypical protein kinase-like fold to enable coenzyme Q biosynthesis. *Molecular Cell*, **2015**, 57, 83-94	17.6	77
30	Multiplexed quantification for data-independent acquisition. *Analytical Chemistry*, **2015**, 87, 2570-5	7.8	25
29	A Gly-zipper motif mediates homodimerization of the transmembrane domain of the mitochondrial kinase ADCK3. *Journal of the American Chemical Society*, **2014**, 136, 14068-77	16.4	16
28	Neutron-encoded mass signatures for quantitative top-down proteomics. *Analytical Chemistry*, **2014**, 86, 2314-9	7.8	39
27	Intelligent data acquisition blends targeted and discovery methods. *Journal of Proteome Research*, **2014**, 13, 2152-61	5.6	25
26	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	11.5	84
25	Mitochondrial DNA variant in COX1 subunit significantly alters energy metabolism of geographically divergent wild isolates in Caenorhabditis elegans. *Journal of Molecular Biology*, **2014** , 426, 2199-216	6.5	25
24	Hallmarks of a new era in mitochondrial biochemistry. *Genes and Development*, **2013**, 27, 2615-27	12.6	106
23	Inhibitors of bacterial tubulin target bacterial membranes. *MedChemComm*, **2013**, 4, 112-119	5	37
22	Calorie restriction and SIRT3 trigger global reprogramming of the mitochondrial protein acetylome. *Molecular Cell*, **2013**, 49, 186-99	17.6	476
21	Complementary RNA and protein profiling identifies iron as a key regulator of mitochondrial biogenesis. *Cell Reports*, **2013**, 3, 237-45	10.6	52

20	Neutron-encoded mass signatures for multiplexed proteome quantification. *Nature Methods*, **2013**, 10, 332-4	21.6	148
19	Quantification of mitochondrial acetylation dynamics highlights prominent sites of metabolic regulation. *Journal of Biological Chemistry*, **2013**, 288, 26209-26219	5.4	85
18	Automated gas-phase purification for accurate, multiplexed quantification on a stand-alone ion-trap mass spectrometer. *Analytical Chemistry*, **2013**, 85, 2079-86	7.8	12
17	Amine-reactive neutron-encoded labels for highly plexed proteomic quantitation. *Molecular and Cellular Proteomics*, **2013**, 12, 3360-9	7.6	50
16	Iron-dependent regulation of mitochondrial form and function. *FASEB Journal*, **2013**, 27, lb65	0.9	
15	A quantitative map of the liver mitochondrial phosphoproteome reveals posttranslational control of ketogenesis. *Cell Metabolism*, **2012**, 16, 672-83	24.6	117
14	Solution NMR structure of yeast succinate dehydrogenase flavinylation factor Sdh5 reveals a putative Sdh1 binding site. *Biochemistry*, **2012**, 51, 8475-7	3.2	23
13	Analysis of the acidic proteome with negative electron-transfer dissociation mass spectrometry. *Analytical Chemistry*, **2012**, 84, 2875-82	7.8	48
12	Exploring the Role of an Atypical Kinase in Ubiquinone Biosynthesis. *FASEB Journal*, **2012**, 26, 565.12	0.9	
11	Pharmacological targeting of the mitochondrial phosphatase PTPMT1. *Journal of Pharmacology and Experimental Therapeutics*, **2010**, 333, 584-92	4.7	32
10	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, 7507-12	11.5	566
9	A mitochondrial protein compendium elucidates complex I disease biology. *Cell*, **2008**, 134, 112-23	56.2	1507
8	Dual specificity phosphatases 18 and 21 target to opposing sides of the mitochondrial inner membrane. *Journal of Biological Chemistry*, **2008**, 283, 15440-50	5.4	21
7	Mutation of C20orf7 disrupts complex I assembly and causes lethal neonatal mitochondrial disease. *American Journal of Human Genetics*, **2008**, 83, 468-78	11	150
6	Mitochondrial modulation: reversible phosphorylation takes center stage?. *Trends in Biochemical Sciences*, **2006**, 31, 26-34	10.3	200
5	Involvement of a mitochondrial phosphatase in the regulation of ATP production and insulin secretion in pancreatic beta cells. *Molecular Cell*, **2005**, 19, 197-207	17.6	120
4	Protein Tyrosine Phosphatases **2004**, 536-542		2
3	A PTEN-like phosphatase with a novel substrate specificity. *Journal of Biological Chemistry*, **2004**, 279, 38590-6	5.4	60

2	A PTEN-related 5-phosphatidylinositol phosphatase localized in the Golgi. *Journal of Biological Chemistry*, **2003**, 278, 39866-73	5.4	28
1	UbiB proteins regulate cellular CoQ distribution		1