Nathan B Basisty

List of Publications by Year
in descending order

39 papers	3,030 citations	186265 28 h-index	302126 39 g-index
52 all docs	52 docs citations	52 times ranked	4112 citing authors

#	Article	IF	Citations
1	A proteomic atlas of senescence-associated secretomes for aging biomarker development. PLoS Biology, 2020, 18, e3000599.	5.6	694
2	Altered proteome turnover and remodeling by shortâ€term caloric restriction or rapamycin rejuvenate the aging heart. Aging Cell, 2014, 13, 529-539.	6.7	264
3	Senescent cells promote tissue NAD+ decline during ageing via the activation of CD38+ macrophages. Nature Metabolism, 2020, 2, 1265-1283.	11.9	206
4	Global Proteomics and Pathway Analysis of Pressure-Overloadâ€"Induced Heart Failure and Its Attenuation by Mitochondrial-Targeted Peptides. Circulation: Heart Failure, 2013, 6, 1067-1076.	3.9	126
5	Post-translational Protein Acetylation: An Elegant Mechanism for Bacteria to Dynamically Regulate Metabolic Functions. Frontiers in Microbiology, 2019, 10, 1604.	3.5	122
6	Rapamycin transiently induces mitochondrial remodeling to reprogram energy metabolism in old hearts. Aging, 2016, 8, 314-327.	3.1	104
7	Mitochondrial dysfunction in cardiac aging. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 1424-1433.	1.0	103
8	Mechanisms, Detection, and Relevance of Protein Acetylation in Prokaryotes. MBio, 2019, 10, .	4.1	94
9	Algorithmic assessment of cellular senescence in experimental and clinical specimens. Nature Protocols, 2021, 16, 2471-2498.	12.0	92
10	Sirtuin 5 Regulates Proximal Tubule Fatty Acid Oxidation to Protect against AKI. Journal of the American Society of Nephrology: JASN, 2019, 30, 2384-2398.	6.1	85
11	Protein Turnover in Aging and Longevity. Proteomics, 2018, 18, e1700108.	2.2	78
12	Plasma proteomic biomarker signature of age predicts health and life span. ELife, 2020, 9, .	6.0	78
13	Subacute calorie restriction and rapamycin discordantly alter mouse liver proteome homeostasis and reverse aging effects. Aging Cell, 2015, 14, 547-557.	6.7	73
14	Respiratory chain protein turnover rates in mice are highly heterogeneous but strikingly conserved across tissues, ages, and treatments. FASEB Journal, 2015, 29, 3582-3592.	0.5	69
15	Late-life restoration of mitochondrial function reverses cardiac dysfunction in old mice. ELife, 2020, 9, .	6.0	68
16	Age modifies respiratory complex I and protein homeostasis in a muscle typeâ€specific manner. Aging Cell, 2016, 15, 89-99.	6.7	62
17	Composition and Acidification of the Culture Medium Influences Chronological Aging Similarly in Vineyard and Laboratory Yeast. PLoS ONE, 2011, 6, e24530.	2.5	61
18	Rapamycin persistently improves cardiac function in aged, male and female mice, even following cessation of treatment. Aging Cell, 2020, 19, e13086.	6.7	60

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19	Proteomics in aging research: A roadmap to clinical, translational research. Aging Cell, 2021, 20, e13325.	6.7	59
20	Mitochondrial-Targeted Catalase. Progress in Molecular Biology and Translational Science, 2017, 146, 203-241.	1.7	55
21	Connecting aging biology and inflammation in the omics era. Journal of Clinical Investigation, 2022, 132, .	8.2	48
22	Activating transcription factor 4 (ATF4) promotes skeletal muscle atrophy by forming a heterodimer with the transcriptional regulator C/EBPÎ². Journal of Biological Chemistry, 2020, 295, 2787-2803.	3.4	45
23	The power of proteomics to monitor senescence-associated secretory phenotypes and beyond: toward clinical applications. Expert Review of Proteomics, 2020, 17, 297-308.	3.0	40
24	Temporal dynamics of liver mitochondrial protein acetylation and succinylation and metabolites due to high fat diet and/or excess glucose or fructose. PLoS ONE, 2018, 13, e0208973.	2.5	38
25	Stable nuclear expression ofATP8andATP6genes rescues a mtDNA Complex Vnullmutant. Nucleic Acids Research, 2016, 44, gkw756.	14.5	35
26	Global Lysine Acetylation in Escherichia coli Results from Growth Conditions That Favor Acetate Fermentation. Journal of Bacteriology, 2019, 201, .	2.2	34
27	Mitochondrialâ€targeted catalase is good for the old mouse proteome, but not for the young: â€˜reverseâ€™ antagonistic pleiotropy?. Aging Cell, 2016, 15, 634-645.	6.7	33
28	Quality control systems in cardiac aging. Ageing Research Reviews, 2015, 23, 101-115.	10.9	31
29	Simultaneous Quantification of the Acetylome and Succinylome by â€˜Oneâ€Potâ€™ Affinity Enrichment. Proteomics, 2018, 18, e1800123.	2.2	31
30	Quantitative Proteomic Analysis of the Senescenceâ€Associated Secretory Phenotype by Dataâ€Independent Acquisition. Current Protocols, 2021, 1, e32.	2.9	25
31	Accumulation of â€œOld Proteinsâ€• and the Critical Need for MSâ€based Protein Turnover Measurements in Aging and Longevity. Proteomics, 2020, 20, e1800403.	2.2	24
32	Stable Isotope Labeling Reveals Novel Insights Into Ubiquitin-Mediated Protein Aggregation With Age, Calorie Restriction, and Rapamycin Treatment. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 561-570.	3.6	19
33	Lysine and Arginine Protein Post-translational Modifications by Enhanced DIA Libraries: Quantification in Murine Liver Disease. Journal of Proteome Research, 2020, 19, 4163-4178.	3.7	18
34	Quantification and Identification of Post-Translational Modifications Using Modern Proteomics Approaches. Methods in Molecular Biology, 2021, 2228, 225-235.	0.9	11
35	Differential effects of various genetic mouse models of the mechanistic target of rapamycin complex I inhibition on heart failure. GeroScience, 2019, 41, 847-860.	4.6	10
36	Removing 4E-BP Enables Synapses to Refine without Postsynaptic Activity. Cell Reports, 2018, 23, 11-22.	6.4	9

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37	Simultaneous Affinity Enrichment of Two Post-Translational Modifications for Quantification and Site Localization. Journal of Visualized Experiments, 2020, , .	0.3	7
38	Identifying ubiquitinated proteins and aggregates. Aging, 2018, 10, 2549-2550.	3.1	6
39	Short-term senolytic treatment: a paradigm to promote fracture repair during aging. Journal of Clinical Investigation, 2022, 132, .	8.2	5