

# Nathan B Basisty

## List of Publications by Citations

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44  
papers

1,536  
citations

22  
h-index

39  
g-index

52  
ext. papers

2,343  
ext. citations

7.8  
avg, IF

4.8  
L-index

#	Paper	IF	Citations
44	A proteomic atlas of senescence-associated secretomes for aging biomarker development. <i>PLoS Biology</i> , <b>2020</b> , 18, e3000599	9.7	269
43	Altered proteome turnover and remodeling by short-term caloric restriction or rapamycin rejuvenate the aging heart. <i>Aging Cell</i> , <b>2014</b> , 13, 529-39	9.9	194
42	Global proteomics and pathway analysis of pressure-overload-induced heart failure and its attenuation by mitochondrial-targeted peptides. <i>Circulation: Heart Failure</i> , <b>2013</b> , 6, 1067-76	7.6	102
41	Mitochondrial dysfunction in cardiac aging. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2015</b> , 1847, 1424-33	4.6	82
40	Senescent cells promote tissue NAD decline during ageing via the activation of CD38 macrophages. <i>Nature Metabolism</i> , <b>2020</b> , 2, 1265-1283	14.6	78
39	Rapamycin transiently induces mitochondrial remodeling to reprogram energy metabolism in old hearts. <i>Aging</i> , <b>2016</b> , 8, 314-27	5.6	78
38	Mechanisms, Detection, and Relevance of Protein Acetylation in Prokaryotes. <i>MBio</i> , <b>2019</b> , 10,	7.8	57
37	Subacute calorie restriction and rapamycin discordantly alter mouse liver proteome homeostasis and reverse aging effects. <i>Aging Cell</i> , <b>2015</b> , 14, 547-57	9.9	57
36	Composition and acidification of the culture medium influences chronological aging similarly in vineyard and laboratory yeast. <i>PLoS ONE</i> , <b>2011</b> , 6, e24530	3.7	52
35	Post-translational Protein Acetylation: An Elegant Mechanism for Bacteria to Dynamically Regulate Metabolic Functions. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 1604	5.7	50
34	Protein Turnover in Aging and Longevity. <i>Proteomics</i> , <b>2018</b> , 18, e1700108	4.8	44
33	Respiratory chain protein turnover rates in mice are highly heterogeneous but strikingly conserved across tissues, ages, and treatments. <i>FASEB Journal</i> , <b>2015</b> , 29, 3582-92	0.9	43
32	Age modifies respiratory complex I and protein homeostasis in a muscle type-specific manner. <i>Aging Cell</i> , <b>2016</b> , 15, 89-99	9.9	43
31	Mitochondrial-Targeted Catalase: Extended Longevity and the Roles in Various Disease Models. <i>Progress in Molecular Biology and Translational Science</i> , <b>2017</b> , 146, 203-241	4	37
30	Sirtuin 5 Regulates Proximal Tubule Fatty Acid Oxidation to Protect against AKI. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2019</b> , 30, 2384-2398	12.7	35
29	Rapamycin persistently improves cardiac function in aged, male and female mice, even following cessation of treatment. <i>Aging Cell</i> , <b>2020</b> , 19, e13086	9.9	28
28	Simultaneous Quantification of the Acetylome and Succinylome by One-PotTAffinity Enrichment. <i>Proteomics</i> , <b>2018</b> , 18, e1800123	4.8	26

27	Temporal dynamics of liver mitochondrial protein acetylation and succinylation and metabolites due to high fat diet and/or excess glucose or fructose. <i>PLoS ONE</i> , <b>2018</b> , 13, e0208973	3.7	26
26	Quality control systems in cardiac aging. <i>Ageing Research Reviews</i> , <b>2015</b> , 23, 101-15	12	24
25	Mitochondrial-targeted catalase is good for the old mouse proteome, but not for the young: Reverse-Tantagonistic pleiotropy?. <i>Aging Cell</i> , <b>2016</b> , 15, 634-45	9.9	24
24	Algorithmic assessment of cellular senescence in experimental and clinical specimens. <i>Nature Protocols</i> , <b>2021</b> , 16, 2471-2498	18.8	23
23	Late-life restoration of mitochondrial function reverses cardiac dysfunction in old mice. <i>ELife</i> , <b>2020</b> , 9,	8.9	22
22	Stable nuclear expression of ATP8 and ATP6 genes rescues a mtDNA Complex V null mutant. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, 9342-9357	20.1	19
21	Plasma proteomic biomarker signature of age predicts health and life span. <i>ELife</i> , <b>2020</b> , 9,	8.9	18
20	Activating transcription factor 4 (ATF4) promotes skeletal muscle atrophy by forming a heterodimer with the transcriptional regulator C/EBP. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 2787-2803	5.4	15
19	The power of proteomics to monitor senescence-associated secretory phenotypes and beyond: toward clinical applications. <i>Expert Review of Proteomics</i> , <b>2020</b> , 17, 297-308	4.2	14
18	Global Lysine Acetylation in Results from Growth Conditions That Favor Acetate Fermentation. <i>Journal of Bacteriology</i> , <b>2019</b> , 201,	3.5	13
17	Proteomics in aging research: A roadmap to clinical, translational research. <i>Aging Cell</i> , <b>2021</b> , 20, e13325	9.9	10
16	Accumulation of "Old Proteins" and the Critical Need for MS-based Protein Turnover Measurements in Aging and Longevity. <i>Proteomics</i> , <b>2020</b> , 20, e1800403	4.8	10
15	Stable Isotope Labeling Reveals Novel Insights Into Ubiquitin-Mediated Protein Aggregation With Age, Calorie Restriction, and Rapamycin Treatment. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2018</b> , 73, 561-570	6.4	8
14	Lysine and Arginine Protein Post-translational Modifications by Enhanced DIA Libraries: Quantification in Murine Liver Disease. <i>Journal of Proteome Research</i> , <b>2020</b> , 19, 4163-4178	5.6	7
13	Differential effects of various genetic mouse models of the mechanistic target of rapamycin complex I inhibition on heart failure. <i>GeroScience</i> , <b>2019</b> , 41, 847-860	8.9	6
12	Quantitative Proteomic Analysis of the Senescence-Associated Secretory Phenotype by Data-Independent Acquisition. <i>Current Protocols</i> , <b>2021</b> , 1, e32		5
11	Simultaneous Affinity Enrichment of Two Post-Translational Modifications for Quantification and Site Localization. <i>Journal of Visualized Experiments</i> , <b>2020</b> ,	1.6	4
10	Removing 4E-BP Enables Synapses to Refine without Postsynaptic Activity. <i>Cell Reports</i> , <b>2018</b> , 23, 11-22	10.6	4

- 9 Late-life restoration of mitochondrial function reverses cardiac dysfunction in old mice 2
- 8 Quantification and Identification of Post-Translational Modifications Using Modern Proteomics Approaches. *Methods in Molecular Biology*, **2021**, 2228, 225-235 1.4 2
- 7 Multi-Omic Profiling Reveals the Opposing Forces of Excess Dietary Sugar and Fat on Liver Mitochondria Protein Acetylation and Succinylation 1
- 6 A proteomic atlas of senescence-associated secretomes for aging biomarker development **2020**, 18, e3000599
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- 1 A proteomic atlas of senescence-associated secretomes for aging biomarker development **2020**, 18, e3000599