

# Samantha M Solon-Biet

## List of Publications by Citations

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**Version:** 2024-04-23

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47  
papers

2,172  
citations

21  
h-index

46  
g-index

49  
ext. papers

2,886  
ext. citations

8.1  
avg, IF

4.62  
L-index

#	Paper	IF	Citations
47	The ratio of macronutrients, not caloric intake, dictates cardiometabolic health, aging, and longevity in ad libitum-fed mice. <i>Cell Metabolism</i> , <b>2014</b> , 19, 418-30	24.6	572
46	Macronutrient balance, reproductive function, and lifespan in aging mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 3481-6	11.5	152
45	The impact of low-protein high-carbohydrate diets on aging and lifespan. <i>Cellular and Molecular Life Sciences</i> , <b>2016</b> , 73, 1237-52	10.3	136
44	Defining the Nutritional and Metabolic Context of FGF21 Using the Geometric Framework. <i>Cell Metabolism</i> , <b>2016</b> , 24, 555-565	24.6	118
43	Dietary Protein to Carbohydrate Ratio and Caloric Restriction: Comparing Metabolic Outcomes in Mice. <i>Cell Reports</i> , <b>2015</b> , 11, 1529-34	10.6	117
42	Branched chain amino acids impact health and lifespan indirectly via amino acid balance and appetite control. <i>Nature Metabolism</i> , <b>2019</b> , 1, 532-545	14.6	105
41	Diet-Microbiome Interactions in Health Are Controlled by Intestinal Nitrogen Source Constraints. <i>Cell Metabolism</i> , <b>2017</b> , 25, 140-151	24.6	97
40	Macronutrients and caloric intake in health and longevity. <i>Journal of Endocrinology</i> , <b>2015</b> , 226, R17-28	4.7	90
39	Dietary protein, aging and nutritional geometry. <i>Ageing Research Reviews</i> , <b>2017</b> , 39, 78-86	12	72
38	FGF21 Signals Protein Status to the Brain and Adaptively Regulates Food Choice and Metabolism. <i>Cell Reports</i> , <b>2019</b> , 27, 2934-2947.e3	10.6	71
37	Nutritional strategies to optimise cognitive function in the aging brain. <i>Ageing Research Reviews</i> , <b>2016</b> , 31, 80-92	12	64
36	Cognitive and behavioral evaluation of nutritional interventions in rodent models of brain aging and dementia. <i>Clinical Interventions in Aging</i> , <b>2017</b> , 12, 1419-1428	4	57
35	Comparing the Effects of Low-Protein and High-Carbohydrate Diets and Caloric Restriction on Brain Aging in Mice. <i>Cell Reports</i> , <b>2018</b> , 25, 2234-2243.e6	10.6	57
34	Aging, lifestyle and dementia. <i>Neurobiology of Disease</i> , <b>2019</b> , 130, 104481	7.5	50
33	New Horizons: Dietary protein, ageing and the Okinawan ratio. <i>Age and Ageing</i> , <b>2016</b> , 45, 443-7	3	47
32	The Geometric Framework for Nutrition as a tool in precision medicine. <i>Nutrition and Healthy Aging</i> , <b>2017</b> , 4, 217-226	1.3	37
31	Liver aging and pseudocapillarization in a Werner syndrome mouse model. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2014</b> , 69, 1076-86	6.4	36

30	Branched chain amino acids, aging and age-related health. <i>Ageing Research Reviews</i> , <b>2020</b> , 64, 101198	12	29
29	Restriction of essential amino acids dictates the systemic metabolic response to dietary protein dilution. <i>Nature Communications</i> , <b>2020</b> , 11, 2894	17.4	27
28	The Influence of Macronutrients on Splanchnic and Hepatic Lymphocytes in Aging Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2015</b> , 70, 1499-507	6.4	27
27	Nutritional ecology and the evolution of aging. <i>Experimental Gerontology</i> , <b>2016</b> , 86, 50-61	4.5	26
26	Ingestion of resistant starch by mice markedly increases microbiome-derived metabolites. <i>FASEB Journal</i> , <b>2019</b> , 33, 8033-8042	0.9	21
25	The nutritional geometry of liver disease including non-alcoholic fatty liver disease. <i>Journal of Hepatology</i> , <b>2018</b> , 68, 316-325	13.4	19
24	Nutritional geometry of paternal effects on embryo mortality. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2017</b> , 284,	4.4	18
23	Defining the impact of dietary macronutrient balance on PCOS traits. <i>Nature Communications</i> , <b>2020</b> , 11, 5262	17.4	16
22	Dietary macronutrient content, age-specific mortality and lifespan. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2019</b> , 286, 20190393	4.4	13
21	The Relationship Between Dietary Macronutrients and Hepatic Telomere Length in Aging Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2018</b> , 73, 446-449	6.4	13
20	Effects of temperature on macronutrient selection, metabolic and swimming performance of the Indo-Pacific Damselfish ( <i>Abudefduf vaigiensis</i> ). <i>Marine Biology</i> , <b>2018</b> , 165, 1	2.5	11
19	Long-term Dietary Macronutrients and Hepatic Gene Expression in Aging Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2018</b> , 73, 1618-1625	6.4	10
18	Of Older Mice and Men: Branched-Chain Amino Acids and Body Composition. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	10
17	Impact of dietary carbohydrate type and protein-carbohydrate interaction on metabolic health. <i>Nature Metabolism</i> , <b>2021</b> , 3, 810-828	14.6	10
16	Sex-specific metabolic responses to 6 hours of fasting during the active phase in young mice. <i>Journal of Physiology</i> , <b>2020</b> , 598, 2081-2092	3.9	9
15	The contribution of dietary restriction to extended longevity in the malaria vector <i>Anopheles coluzzii</i> . <i>Parasites and Vectors</i> , <b>2017</b> , 10, 156	4	8
14	The Effects of Dietary Macronutrient Balance on Skin Structure in Aging Male and Female Mice. <i>PLoS ONE</i> , <b>2016</b> , 11, e0166175	3.7	7
13	Central nervous system SIRT1 expression is required for cued and contextual fear conditioning memory responses in aging mice. <i>Nutrition and Healthy Aging</i> , <b>2019</b> , 5, 111-117	1.3	6

12	Nutritional reprogramming of mouse liver proteome is dampened by metformin, resveratrol, and rapamycin. <i>Cell Metabolism</i> , <b>2021</b> , 33, 2367-2379.e4	24.6	6
11	Sucrose and starch intake contribute to reduced alveolar bone height in a rodent model of naturally occurring periodontitis. <i>PLoS ONE</i> , <b>2019</b> , 14, e0212796	3.7	3
10	Macronutrient Determinants of Obesity, Insulin Resistance and Metabolic Health. <i>Biology</i> , <b>2021</b> , 10,	4.9	3
9	Kidney disease risk factors do not explain impacts of low dietary protein on kidney function and structure. <i>iScience</i> , <b>2021</b> , 24, 103308	6.1	2
8	Geometric framework reveals that a moderate protein, high carbohydrate intake is optimal for severe burn injury in mice. <i>British Journal of Nutrition</i> , <b>2020</b> , 123, 1056-1067	3.6	0
7	Meta-analysis links dietary branched-chain amino acids to metabolic health in rodents.. <i>BMC Biology</i> , <b>2022</b> , 20, 19	7.3	0
6	LC-N2G: a local consistency approach for nutrigenomics data analysis. <i>BMC Bioinformatics</i> , <b>2020</b> , 21, 530	3.6	0
5	Low-protein diet accelerates wound healing in mice post-acute injury. <i>Burns and Trauma</i> , <b>2021</b> , 9, tkab0193	1.3	0
4	The geometric framework: An approach for studying the impact of nutrition on healthy aging. <i>Drug Discovery Today: Disease Models</i> , <b>2018</b> , 27, 61-68	1.3	0
3	An integrative approach to dietary balance across the life course. <i>iScience</i> , <b>2022</b> , 104315	6.1	0
2	A Framework for Uncovering the Roles of Calories and Macronutrients in Health and Aging <b>2018</b> , 93-108		
1	Modeling nutrition and brain aging in rodents <b>2021</b> , 517-526		