# Samantha M Solon-Biet

## List of Publications by Year in Descending Order



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| 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 | Meta-analysis links dietary branched-chain amino acids to metabolic health in rodents.. *BMC Biology* , **2022**, 20, 19 | 7.3 | 0 |
| 46 | An integrative approach to dietary balance across the life course. *IScience*, **2022**, 104315 | 6.1 | 0 |
| 45 | Nutritional reprogramming of mouse liver proteome is dampened by metformin, resveratrol, and rapamycin. *Cell Metabolism*, **2021**, 33, 2367-2379.e4 | 24.6 | 6 |
| 44 | Kidney disease risk factors do not explain impacts of low dietary protein on kidney function and structure. *IScience*, **2021**, 24, 103308 | 6.1 | 2 |
| 43 | Macronutrient Determinants of Obesity, Insulin Resistance and Metabolic Health. *Biology*, **2021**, 10, | 4.9 | 3 |
| 42 | Impact of dietary carbohydrate type and protein-carbohydrate interaction on metabolic health. *Nature Metabolism*, **2021**, 3, 810-828 | 14.6 | 10 |
| 41 | Low-protein diet accelerates wound healing in mice post-acute injury. *Burns and Trauma*, **2021**, 9, tkab016 | 3.3 | 0 |
| 40 | Modeling nutrition and brain aging in rodents **2021**, 517-526 | | |
| 39 | Restriction of essential amino acids dictates the systemic metabolic response to dietary protein dilution. *Nature Communications*, **2020**, 11, 2894 | 17.4 | 27 |
| 38 | Sex-specific metabolic responses to 6 hours of fasting during the active phase in young mice. *Journal of Physiology*, **2020**, 598, 2081-2092 | 3.9 | 9 |
| 37 | Geometric framework reveals that a moderate protein, high carbohydrate intake is optimal for severe burn injury in mice. *British Journal of Nutrition*, **2020**, 123, 1056-1067 | 3.6 | 0 |
| 36 | Defining the impact of dietary macronutrient balance on PCOS traits. *Nature Communications*, **2020** , 11, 5262 | 17.4 | 16 |
| 35 | LC-N2G: a local consistency approach for nutrigenomics data analysis. *BMC Bioinformatics*, **2020**, 21, 530 | 3.6 | 0 |
| 34 | Branched chain amino acids, aging and age-related health. *Ageing Research Reviews*, **2020**, 64, 101198 | 12 | 29 |
| 33 | Aging, lifestyle and dementia. *Neurobiology of Disease*, **2019**, 130, 104481 | 7.5 | 50 |
| 32 | Central nervous system SIRT1 expression is required for cued and contextual fear conditioning memory responses in aging mice. *Nutrition and Healthy Aging*, **2019**, 5, 111-117 | 1.3 | 6 |
| 31 | FGF21 Signals Protein Status to the Brain and Adaptively Regulates Food Choice and Metabolism. *Cell Reports*, **2019**, 27, 2934-2947.e3 | 10.6 | 71 |

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| 30 | Dietary macronutrient content, age-specific mortality and lifespan. *Proceedings of the Royal Society B: Biological Sciences*, **2019**, 286, 20190393 | 4.4 | 13 |
| 29 | Branched chain amino acids impact health and lifespan indirectly via amino acid balance and appetite control. *Nature Metabolism*, **2019**, 1, 532-545 | 14.6 | 105 |
| 28 | Sucrose and starch intake contribute to reduced alveolar bone height in a rodent model of naturally occurring periodontitis. *PLoS ONE*, **2019**, 14, e0212796 | 3.7 | 3 |
| 27 | Ingestion of resistant starch by mice markedly increases microbiome-derived metabolites. *FASEB Journal*, **2019**, 33, 8033-8042 | 0.9 | 21 |
| 26 | Of Older Mice and Men: Branched-Chain Amino Acids and Body Composition. *Nutrients*, **2019**, 11, | 6.7 | 10 |
| 25 | Long-term Dietary Macronutrients and Hepatic Gene Expression in Aging Mice. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2018**, 73, 1618-1625 | 6.4 | 10 |
| 24 | The Relationship Between Dietary Macronutrients and Hepatic Telomere Length in Aging Mice. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2018**, 73, 446-449 | 6.4 | 13 |
| 23 | A Framework for Uncovering the Roles of Calories and Macronutrients in Health and Aging **2018**, 93-108 | | |
| 22 | The nutritional geometry of liver disease including non-alcoholic fatty liver disease. *Journal of Hepatology*, **2018**, 68, 316-325 | 13.4 | 19 |
| 21 | The geometric framework: An approach for studying the impact of nutrition on healthy aging. *Drug Discovery Today: Disease Models*, **2018**, 27, 61-68 | 1.3 | 0 |
| 20 | Comparing the Effects of Low-Protein and High-Carbohydrate Diets and Caloric Restriction on Brain Aging in Mice. *Cell Reports*, **2018**, 25, 2234-2243.e6 | 10.6 | 57 |
| 19 | Effects of temperature on macronutrient selection, metabolic and swimming performance of the Indo-Pacific Damselfish (Abudefduf vaigiensis). *Marine Biology*, **2018**, 165, 1 | 2.5 | 11 |
| 18 | Dietary protein, aging and nutritional geometry. *Ageing Research Reviews*, **2017**, 39, 78-86 | 12 | 72 |
| 17 | Nutritional geometry of paternal effects on embryo mortality. *Proceedings of the Royal Society B: Biological Sciences*, **2017**, 284, | 4.4 | 18 |
| 16 | The contribution of dietary restriction to extended longevity in the malaria vector Anopheles coluzzii. *Parasites and Vectors*, **2017**, 10, 156 | 4 | 8 |
| 15 | Diet-Microbiome Interactions in Health Are Controlled by Intestinal Nitrogen Source Constraints. *Cell Metabolism*, **2017**, 25, 140-151 | 24.6 | 97 |
| 14 | The Geometric Framework for Nutrition as a tool in precision medicine. *Nutrition and Healthy Aging*, **2017**, 4, 217-226 | 1.3 | 37 |
| 13 | Cognitive and behavioral evaluation of nutritional interventions in rodent models of brain aging and dementia. *Clinical Interventions in Aging*, **2017**, 12, 1419-1428 | 4 | 57 |

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| 12 | Nutritional strategies to optimise cognitive function in the aging brain. *Ageing Research Reviews*, **2016**, 31, 80-92 | 12 | 64 |
| 11 | The impact of low-protein high-carbohydrate diets on aging and lifespan. *Cellular and Molecular Life Sciences*, **2016**, 73, 1237-52 | 10.3 | 136 |
| 10 | The Effects of Dietary Macronutrient Balance on Skin Structure in Aging Male and Female Mice. *PLoS ONE*, **2016**, 11, e0166175 | 3.7 | 7 |
| 9 | New Horizons: Dietary protein, ageing and the Okinawan ratio. *Age and Ageing*, **2016**, 45, 443-7 | 3 | 47 |
| 8 | Nutritional ecology and the evolution of aging. *Experimental Gerontology*, **2016**, 86, 50-61 | 4.5 | 26 |
| 7 | Defining the Nutritional and Metabolic Context of FGF21 Using the Geometric Framework. *Cell Metabolism*, **2016**, 24, 555-565 | 24.6 | 118 |
| 6 | Macronutrient balance, reproductive function, and lifespan in aging mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 3481-6 | 11.5 | 152 |
| 5 | Macronutrients and caloric intake in health and longevity. *Journal of Endocrinology*, **2015**, 226, R17-28 | 4.7 | 90 |
| 4 | Dietary Protein to Carbohydrate Ratio and Caloric Restriction: Comparing Metabolic Outcomes in Mice. *Cell Reports*, **2015**, 11, 1529-34 | 10.6 | 117 |
| 3 | The Influence of Macronutrients on Splanchnic and Hepatic Lymphocytes in Aging Mice. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2015**, 70, 1499-507 | 6.4 | 27 |
| 2 | The ratio of macronutrients, not caloric intake, dictates cardiometabolic health, aging, and longevity in ad libitum-fed mice. *Cell Metabolism*, **2014**, 19, 418-30 | 24.6 | 572 |
| 1 | Liver aging and pseudocapillarization in a Werner syndrome mouse model. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2014**, 69, 1076-86 | 6.4 | 36 |