# Glenn R Gibson

## List of Publications by Citations



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| 96 papers | 33,404 citations | 61 h-index | 97 g-index |
| 97 ext. papers | 39,178 ext. citations | 6.2 avg, IF | 7.21 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 96 | Dietary modulation of the human colonic microbiota: introducing the concept of prebiotics. *Journal of Nutrition*, **1995**, 125, 1401-12 | 4.1 | 4491 |
| 95 | Metabolic endotoxemia initiates obesity and insulin resistance. *Diabetes*, **2007**, 56, 1761-72 | 0.9 | 3888 |
| 94 | Expert consensus document. The International Scientific Association for Probiotics and Prebiotics consensus statement on the scope and appropriate use of the term probiotic. *Nature Reviews Gastroenterology and Hepatology*, **2014**, 11, 506-14 | 24.2 | 3614 |
| 93 | Host-gut microbiota metabolic interactions. *Science*, **2012**, 336, 1262-7 | 33.3 | 2728 |
| 92 | Expert consensus document: The International Scientific Association for Probiotics and Prebiotics (ISAPP) consensus statement on the definition and scope of prebiotics. *Nature Reviews Gastroenterology and Hepatology*, **2017**, 14, 491-502 | 24.2 | 1963 |
| 91 | Dietary modulation of the human colonic microbiota: updating the concept of prebiotics. *Nutrition Research Reviews*, **2004**, 17, 259-75 | 7 | 1586 |
| 90 | Prebiotic effects: metabolic and health benefits. *British Journal of Nutrition*, **2010**, 104 Suppl 2, S1-63 | 3.6 | 1440 |
| 89 | Selective stimulation of bifidobacteria in the human colon by oligofructose and inulin. *Gastroenterology*, **1995**, 108, 975-82 | 13.3 | 1157 |
| 88 | Direct analysis of genes encoding 16S rRNA from complex communities reveals many novel molecular species within the human gut. *Applied and Environmental Microbiology*, **1999**, 65, 4799-807 | 4.8 | 1070 |
| 87 | Gut microbiota functions: metabolism of nutrients and other food components. *European Journal of Nutrition*, **2018**, 57, 1-24 | 5.2 | 857 |
| 86 | The short-chain fatty acid acetate reduces appetite via a central homeostatic mechanism. *Nature Communications*, **2014**, 5, 3611 | 17.4 | 781 |
| 85 | Probiotics, prebiotics, and synbiotics: approaches for modulating the microbial ecology of the gut. *American Journal of Clinical Nutrition*, **1999**, 69, 1052S-1057S | 7 | 546 |
| 84 | Insight into the prebiotic concept: lessons from an exploratory, double blind intervention study with inulin-type fructans in obese women. *Gut*, **2013**, 62, 1112-21 | 19.2 | 517 |
| 83 | The bifidogenic nature of chicory inulin and its hydrolysis products. *Journal of Nutrition*, **1998**, 128, 11-9 | 4.1 | 504 |
| 82 | Probiotics and prebiotics in intestinal health and disease: from biology to the clinic. *Nature Reviews Gastroenterology and Hepatology*, **2019**, 16, 605-616 | 24.2 | 438 |
| 81 | Colonic metabolism of dietary polyphenols: influence of structure on microbial fermentation products. *Free Radical Biology and Medicine*, **2004**, 36, 212-25 | 7.8 | 371 |
| 80 | Dietary prebiotics: current status and new definition. *Food Science and Technology Bulletin*, **2010**, 7, 1-19 | | 305 |

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| 79 | Metabolism of anthocyanins by human gut microflora and their influence on gut bacterial growth. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 3882-90 | 5.7 | 286 |
| 78 | Cholesterol assimilation by lactic acid bacteria and bifidobacteria isolated from the human gut. *Applied and Environmental Microbiology*, **2002**, 68, 4689-93 | 4.8 | 286 |
| 77 | Prebiotics, probiotics and human gut microbiology. *International Dairy Journal*, **1999**, 9, 53-61 | 3.5 | 270 |
| 76 | Modulation of the fecal microflora profile and immune function by a novel trans-galactooligosaccharide mixture (B-GOS) in healthy elderly volunteers. *American Journal of Clinical Nutrition*, **2008**, 88, 1438-46 | 7 | 262 |
| 75 | The International Scientific Association for Probiotics and Prebiotics (ISAPP) consensus statement on the definition and scope of synbiotics. *Nature Reviews Gastroenterology and Hepatology*, **2020**, 17, 687-701 | 24.2 | 249 |
| 74 | Dietary modulation of the human gut microflora using the prebiotics oligofructose and inulin. *Journal of Nutrition*, **1999**, 129, 1438S-41S | 4.1 | 244 |
| 73 | An Overview of Probiotics, Prebiotics and Synbiotics in the Functional Food Concept: Perspectives and Future Strategies. *International Dairy Journal*, **1998**, 8, 473-479 | 3.5 | 232 |
| 72 | A mixture of trans-galactooligosaccharides reduces markers of metabolic syndrome and modulates the fecal microbiota and immune function of overweight adults. *Journal of Nutrition*, **2013**, 143, 324-31 | 4.1 | 224 |
| 71 | Production, metabolism, and excretion of hydrogen in the large intestine. *Gastroenterology*, **1992**, 102, 1269-1277 | 13.3 | 213 |
| 70 | Dietary modulation of the human gut microflora using prebiotics. *British Journal of Nutrition*, **1998**, 80, S209-S212 | 3.6 | 212 |
| 69 | Aspects of in vitro and in vivo research approaches directed toward identifying probiotics and prebiotics for human use. *Journal of Nutrition*, **2000**, 130, 391S-395S | 4.1 | 203 |
| 68 | Enrichment of bifidobacteria from human gut contents by oligofructose using continuous culture. *FEMS Microbiology Letters*, **1994**, 118, 121-7 | 2.9 | 188 |
| 67 | Influence of galacto-oligosaccharide mixture (B-GOS) on gut microbiota, immune parameters and metabonomics in elderly persons. *British Journal of Nutrition*, **2015**, 114, 586-95 | 3.6 | 171 |
| 66 | Synbiotics in health and disease. *Annual Review of Food Science and Technology*, **2011**, 2, 373-93 | 14.7 | 169 |
| 65 | The influence of pomegranate by-product and punicalagins on selected groups of human intestinal microbiota. *International Journal of Food Microbiology*, **2010**, 140, 175-82 | 5.8 | 166 |
| 64 | In vitro fermentability of dextran, oligodextran and maltodextrin by human gut bacteria. *British Journal of Nutrition*, **2000**, 83, 247-55 | 3.6 | 166 |
| 63 | Prebiotic capacity of inulin-type fructans. *Journal of Nutrition*, **2007**, 137, 2503S-2506S | 4.1 | 157 |
| 62 | Synthesis and fermentation properties of novel galacto-oligosaccharides by beta-galactosidases from Bifidobacterium species. *Applied and Environmental Microbiology*, **2001**, 67, 2526-30 | 4.8 | 150 |

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|---|---|---|---|
| 61 | Fibre and effects on probiotics (the prebiotic concept). *Clinical Nutrition Supplements*, **2004**, 1, 25-31 | | 147 |
| 60 | In vitro investigations of the effect of probiotics and prebiotics on selected human intestinal pathogens. *FEMS Microbiology Ecology*, **2002**, 39, 67-75 | 4.3 | 143 |
| 59 | A double-blind, placebo-controlled, cross-over study to establish the bifidogenic effect of a very-long-chain inulin extracted from globe artichoke (Cynara scolymus) in healthy human subjects. *British Journal of Nutrition*, **2010**, 104, 1007-17 | 3.6 | 141 |
| 58 | Perspectives on the role of the human gut microbiota and its modulation by pro- and prebiotics. *Nutrition Research Reviews*, **2000**, 13, 229-54 | 7 | 134 |
| 57 | A randomised crossover study investigating the effects of galacto-oligosaccharides on the faecal microbiota in men and women over 50 years of age. *British Journal of Nutrition*, **2012**, 107, 1466-75 | 3.6 | 114 |
| 56 | A Human Volunteer Study to Determine the Prebiotic Effects of Lactulose Powder on Human Colonic Microbiota. *Microbial Ecology in Health and Disease*, **2002**, 14, 165-173 | | 109 |
| 55 | The effect of a model melanoidin mixture on faecal bacterial populations in vitro. *British Journal of Nutrition*, **1999**, 82, 489-495 | 3.6 | 106 |
| 54 | Characterization of virus-like particles associated with the human faecal and caecal microbiota. *Research in Microbiology*, **2014**, 165, 803-12 | 4 | 105 |
| 53 | Polydextrose, lactitol, and fructo-oligosaccharide fermentation by colonic bacteria in a three-stage continuous culture system. *Applied and Environmental Microbiology*, **2004**, 70, 4505-11 | 4.8 | 103 |
| 52 | Variation in antibiotic-induced microbial recolonization impacts on the host metabolic phenotypes of rats. *Journal of Proteome Research*, **2011**, 10, 3590-603 | 5.6 | 101 |
| 51 | In vitro colonic metabolism of coffee and chlorogenic acid results in selective changes in human faecal microbiota growth. *British Journal of Nutrition*, **2015**, 113, 1220-7 | 3.6 | 98 |
| 50 | In vitro bioaccessibility and gut biotransformation of polyphenols present in the water-insoluble cocoa fraction. *Molecular Nutrition and Food Research*, **2011**, 55 Suppl 1, S44-55 | 5.9 | 96 |
| 49 | A Human Volunteer Study on the Prebiotic Effects of HP-Inulin—Faecal Bacteria Enumerated Using Fluorescent In Situ Hybridisation (FISH). *Anaerobe*, **2001**, 7, 113-118 | 2.8 | 94 |
| 48 | Shaping the Future of Probiotics and Prebiotics. *Trends in Microbiology*, **2021**, 29, 667-685 | 12.4 | 90 |
| 47 | Xylo-oligosaccharides alone or in synbiotic combination with Bifidobacterium animalis subsp. lactis induce bifidogenesis and modulate markers of immune function in healthy adults: a double-blind, placebo-controlled, randomised, factorial cross-over study. *British Journal of Nutrition*, **2014**, 111, 1945-56 | 3.6 | 88 |
| 46 | In vitro effects of selected synbiotics on the human faecal microbiota composition. *FEMS Microbiology Ecology*, **2008**, 66, 516-27 | 4.3 | 79 |
| 45 | The effects of the novel bifidogenic trisaccharide, neokestose, on the human colonic microbiota. *World Journal of Microbiology and Biotechnology*, **2002**, 18, 637-644 | 4.4 | 75 |
| 44 | The impact of date palm fruits and their component polyphenols, on gut microbial ecology, bacterial metabolites and colon cancer cell proliferation. *Journal of Nutritional Science*, **2014**, 3, e46 | 2.7 | 74 |

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| 43 | In vitro fermentation of linear and alpha-1,2-branched dextrans by the human fecal microbiota. *Applied and Environmental Microbiology*, **2011**, 77, 5307-15 | 4.8 | 73 |
| 42 | Bacterial, SCFA and gas profiles of a range of food ingredients following in vitro fermentation by human colonic microbiota. *Anaerobe*, **2010**, 16, 420-5 | 2.8 | 72 |
| 41 | Microbiology of the human intestinal tract and approaches for its dietary modulation. *Current Pharmaceutical Design*, **2009**, 15, 1403-14 | 3.3 | 70 |
| 40 | Prebiotics as gut microflora management tools. *Journal of Clinical Gastroenterology*, **2008**, 42 Suppl 2, S75-9 | 3 | 68 |
| 39 | Clostridium hathewayi sp. nov., from human faeces. *Systematic and Applied Microbiology*, **2001**, 24, 353-74 | 4.2 | 65 |
| 38 | An in vivo assessment of the cholesterol-lowering efficacy of Lactobacillus plantarum ECGC 13110402 in normal to mildly hypercholesterolaemic adults. *PLoS ONE*, **2017**, 12, e0187964 | 3.7 | 65 |
| 37 | Impaired hydrogen metabolism in pneumatosis cystoides intestinalis. *Gastroenterology*, **1993**, 104, 392-7 | 13.3 | 61 |
| 36 | Functional foods **2000**, | | 61 |
| 35 | rRNA probes used to quantify the effects of glycomacropeptide and alpha-lactalbumin supplementation on the predominant groups of intestinal bacteria of infant rhesus monkeys challenged with enteropathogenic Escherichia coli. *Journal of Pediatric Gastroenterology and Nutrition*, **2003**, 37, 273-80 | 2.8 | 59 |
| 34 | Impact of palm date consumption on microbiota growth and large intestinal health: a randomised, controlled, cross-over, human intervention study. *British Journal of Nutrition*, **2015**, 114, 1226-36 | 3.6 | 56 |
| 33 | In vitro fermentation of anthocyanins encapsulated with cyclodextrins: Release, metabolism and influence on gut microbiota growth. *Journal of Functional Foods*, **2015**, 16, 50-57 | 5.1 | 54 |
| 32 | Probiotics and prebiotics: microflora management for improved gut health. *Clinical Microbiology and Infection*, **1998**, 4, 477-480 | 9.5 | 54 |
| 31 | Effect of prebiotics on the human gut microbiota of elderly persons. *Gut Microbes*, **2012**, 3, 57-60 | 8.8 | 52 |
| 30 | Fermentation of non-digestible oligosaccharides by human colonic bacteria. *Proceedings of the Nutrition Society*, **1996**, 55, 899-912 | 2.9 | 48 |
| 29 | A human volunteer study to assess the impact of confectionery sweeteners on the gut microbiota composition. *British Journal of Nutrition*, **2010**, 104, 701-8 | 3.6 | 46 |
| 28 | An in vitro study of the effect of probiotics, prebiotics and synbiotics on the elderly faecal microbiota. *Anaerobe*, **2014**, 27, 50-5 | 2.8 | 45 |
| 27 | Mechanisms linking the human gut microbiome to prophylactic and treatment strategies for COVID-19. *British Journal of Nutrition*, **2021**, 126, 219-227 | 3.6 | 37 |
| 26 | Prebiotics Modulate the Effects of Antibiotics on Gut Microbial Diversity and Functioning in Vitro. *Nutrients*, **2015**, 7, 4480-97 | 6.7 | 35 |

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|---|---|---|---|
| 25 | In vitro fermentation of commercial Ɛgluco-oligosaccharide by faecal microbiota from lean and obese human subjects. *British Journal of Nutrition*, **2013**, 109, 1980-9 | 3.6 | 35 |
| 24 | Mediation of coffee-induced improvements in human vascular function by chlorogenic acids and its metabolites: Two randomized, controlled, crossover intervention trials. *Clinical Nutrition*, **2017**, 36, 1520-1529 | 5.9 | 31 |
| 23 | Wood-Derived Dietary Fibers Promote Beneficial Human Gut Microbiota. *MSphere*, **2019**, 4, | 5 | 30 |
| 22 | Prebiotic Potential of a Maize-Based Soluble Fibre and Impact of Dose on the Human Gut Microbiota. *PLoS ONE*, **2016**, 11, e0144457 | 3.7 | 30 |
| 21 | Gut fermentation and health advantages: myth or reality?. *British Journal of Nutrition*, **1999**, 81, 83-84 | 3.6 | 28 |
| 20 | Development of antimicrobial synbiotics using potentially-probiotic faecal isolates of Lactobacillus fermentum and Bifidobacterium longum. *Anaerobe*, **2013**, 20, 5-13 | 2.8 | 26 |
| 19 | Klebsiella pneumoniae subsp. pneumoniae-bacteriophage combination from the caecal effluent of a healthy woman. *PeerJ*, **2015**, 3, e1061 | 3.1 | 25 |
| 18 | Carbohydrates: a limit on bacterial diversity within the colon. *Biological Reviews*, **2002**, 77, 443-53 | 13.5 | 22 |
| 17 | The microbiology of phytic acid metabolism by gut bacteria and relevance for bowel cancer. *International Journal of Food Science and Technology*, **2002**, 37, 783-790 | 3.8 | 22 |
| 16 | Prebiotics **1999**, 101-124 | | 22 |
| 15 | Impacts of plant-based foods in ancestral hominin diets on the metabolism and function of gut microbiota in vitro. *MBio*, **2014**, 5, e00853-14 | 7.8 | 21 |
| 14 | Kiwifruit fermentation drives positive gut microbial and metabolic changes irrespective of initial microbiota composition. *Bioactive Carbohydrates and Dietary Fibre*, **2015**, 6, 37-45 | 3.4 | 14 |
| 13 | Molecular identification and anti-pathogenic activities of putative probiotic bacteria isolated from faeces of healthy elderly individuals. *Microbial Ecology in Health and Disease*, **2004**, 16, 105-112 | | 13 |
| 12 | Amino Acid Formula Containing Synbiotics in Infants with Cow\s Milk Protein Allergy: A Systematic Review and Meta-Analysis. *Nutrients*, **2021**, 13, | 6.7 | 10 |
| 11 | The effect of proteolysis on the induction of cell death by monomeric alpha-lactalbumin. *Biochimie*, **2014**, 97, 138-43 | 4.6 | 9 |
| 10 | In vitro evaluation of prebiotic properties derived from rice bran obtained by debranning technology. *International Journal of Food Sciences and Nutrition*, **2017**, 68, 421-428 | 3.7 | 9 |
| 9 | In vitro effects of Bifidobacterium lactis-based synbiotics on human faecal bacteria. *Food Research International*, **2020**, 128, 108776 | 7 | 6 |
| 8 | Impact of 2\Fucosyllactose on Gut Microbiota Composition in Adults with Chronic Gastrointestinal Conditions: Batch Culture Fermentation Model and Pilot Clinical Trial Findings. *Nutrients*, **2021**, 13, | 6.7 | 6 |

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| 7 | The Normal Microbiota of the Human Gastrointestinal Tract **2006**, 51-73 | | 4 |
| 6 | Targeted Approaches for In Situ Gut Microbiome Manipulation. *Journal of Parenteral and Enteral Nutrition*, **2020**, 44, 581-588 | 4.2 | 3 |
| 5 | Commentary on : Prebiotic effects: metabolic and health benefits. *British Journal of Nutrition*, **2021**, 1-7 | 3.6 | 2 |
| 4 | Microbes involved in dissimilatory nitrate reduction in the human large intestine | | 1 |
| 3 | Differences in the gut bacterial flora of healthy and milk-hypersensitive adults, as measured by fluorescence in situ hybridization | | 1 |
| 2 | Exploring the potential of prebiotic and polyphenol-based dietary interventions for the alleviation of cognitive and gastrointestinal perturbations associated with military specific stressors. *Journal of Functional Foods*, **2021**, 87, 104753 | 5.1 | 0 |
| 1 | An in vitro assessment of the effects of broad-spectrum antibiotics on the human gut microflora and concomitant isolation of a Lactobacillus plantarum with anti-Candida activities. *Anaerobe*, **2004**, 10, 165-165 | 2.8 | |