Grietje Holtrop

List of Publications by Year in descending order

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48 papers	7,703 citations	172207 29 h-index	205818 48 g-index
48 all docs	48 docs citations	48 times ranked	9924 citing authors

#	Article	IF	Citations
1	Dominant and diet-responsive groups of bacteria within the human colonic microbiota. ISME Journal, 2011, 5, 220-230.	4.4	1,352
2	Reduced Dietary Intake of Carbohydrates by Obese Subjects Results in Decreased Concentrations of Butyrate and Butyrate-Producing Bacteria in Feces. Applied and Environmental Microbiology, 2007, 73, 1073-1078.	1.4	795
3	Two Routes of Metabolic Cross-Feeding between Bifidobacterium adolescentis and Butyrate-Producing Anaerobes from the Human Gut. Applied and Environmental Microbiology, 2006, 72, 3593-3599.	1.4	687
4	Effect of inulin on the human gut microbiota: stimulation ofBifidobacterium adolescentisandFaecalibacterium prausnitzii. British Journal of Nutrition, 2009, 101, 541-550.	1.2	675
5	Diversity of human colonic butyrateâ€producing bacteria revealed by analysis of the butyrylâ€CoA:acetate CoAâ€transferase gene. Environmental Microbiology, 2010, 12, 304-314.	1.8	599
6	High-protein, reduced-carbohydrate weight-loss diets promote metabolite profiles likely to be detrimental to colonic health. American Journal of Clinical Nutrition, 2011, 93, 1062-1072.	2.2	589
7	Impact of diet and individual variation on intestinal microbiota composition and fermentation products in obese men. ISME Journal, 2014, 8, 2218-2230.	4.4	489
8	Contribution of acetate to butyrate formation by human faecal bacteria. British Journal of Nutrition, 2004, 91, 915-923.	1.2	371
9	Selective colonization of insoluble substrates by human faecal bacteria. Environmental Microbiology, 2007, 9, 667-679.	1.8	238
10	Impact of pH on Lactate Formation and Utilization by Human Fecal Microbial Communities. Applied and Environmental Microbiology, 2007, 73, 6526-6533.	1.4	182
11	Specific substrate-driven changes in human faecal microbiota composition contrast with functional redundancy in short-chain fatty acid production. ISME Journal, 2018, 12, 610-622.	4.4	173
12	Iron deficiency during pregnancy affects postnatal blood pressure in the rat. Journal of Physiology, 2003, 552, 603-610.	1.3	153
13	The species composition of the human intestinal microbiota differs between particleâ€associated and liquid phase communities. Environmental Microbiology, 2008, 10, 3275-3283.	1.8	135
14	Modelling the emergent dynamics and major metabolites of the human colonic microbiota. Environmental Microbiology, 2015, 17, 1615-1630.	1.8	118
15	Phylogenetic distribution of genes encoding Î²â€glucuronidase activity in human colonic bacteria and the impact of diet on faecal glycosidase activities. Environmental Microbiology, 2012, 14, 1876-1887.	1.8	97
16	Masked trichothecene and zearalenone mycotoxins withstand digestion and absorption in the upper GI tract but are efficiently hydrolyzed by human gut microbiota in vitro. Molecular Nutrition and Food Research, 2017, 61, 1600680.	1.5	82
17	Fetal iron status regulates maternal iron metabolism during pregnancy in the rat. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R1063-R1070.	0.9	79
18	Rates of production and utilization of lactate by microbial communities from the human colon. FEMS Microbiology Ecology, 2011, 77, 107-119.	1.3	76

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19	Resource partitioning in relation to cohabitation of Lactobacillus species in the mouse forestomach. ISME Journal, 2012, 6, 927-938.	4.4	69
20	Pivotal Roles for pH, Lactate, and Lactate-Utilizing Bacteria in the Stability of a Human Colonic Microbial Ecosystem. MSystems, 2020, 5, .	1.7	67
21	Platelet-derived microparticle count and surface molecule expression differ between subjects with and without type 2 diabetes, independently of obesity status. Journal of Thrombosis and Thrombolysis, 2014, 37, 455-463.	1.0	63
22	Maternal Iron Deficiency Identifies Critical Windows for Growth and Cardiovascular Development in the Rat Postimplantation Embryo 1. Journal of Nutrition, 2006, 136, 1171-1177.	1.3	62
23	Effect of Dietary Fiber on Endogenous Nitrogen Flows in Lactating Dairy Cows. Journal of Dairy Science, 2002, 85, 3013-3025.	1.4	55
24	Modelling the size selectivities of a trawl codend and an associated square mesh panel. ICES Journal of Marine Science, 2001, 58, 657-671.	1.2	45
25	Effect of dietary copper deficiency on iron metabolism in the pregnant rat. British Journal of Nutrition, 2007, 97, 239-246.	1.2	40
26	Impact of Short Term Consumption of Diets High in Either Non-Starch Polysaccharides or Resistant Starch in Comparison with Moderate Weight Loss on Indices of Insulin Sensitivity in Subjects with Metabolic Syndrome. Nutrients, 2013, 5, 2144-2172.	1.7	36
27	Oatâ€enriched diet reduces inflammatory status assessed by circulating cellâ€derived microparticle concentrations in type 2 diabetes. Molecular Nutrition and Food Research, 2014, 58, 1322-1332.	1.5	33
28	Annual variation of dietary deoxynivalenol exposure during years of differentFusariumprevalence: a pilot biomonitoring study. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2014, 31, 1579-1585.	1.1	32
29	Tissue methionine cycle activity and homocysteine metabolism in female rats: impact of dietary methionine and folate plus choline. American Journal of Physiology - Endocrinology and Metabolism, 2009, 296, E702-E713.	1.8	31
30	Porcine Small and Large Intestinal Microbiota Rapidly Hydrolyze the Masked Mycotoxin Deoxynivalenol-3-Glucoside and Release Deoxynivalenol in Spiked Batch Cultures In Vitro. Applied and Environmental Microbiology, 2018, 84, .	1.4	30
31	Anthocyanin-enriched bilberry extract attenuates glycaemic response in overweight volunteers without changes in insulin. Journal of Functional Foods, 2020, 64, 103597.	1.6	29
32	microPop: Modelling microbial populations and communities in R. Methods in Ecology and Evolution, 2018, 9, 399-409.	2.2	23
33	Impact of high-protein diets with either moderate or low carbohydrate on weight loss, body composition, blood pressure and glucose tolerance in rats. British Journal of Nutrition, 2007, 97, 1099-1108.	1.2	22
34	Fish oil supplemented for 9 months does not improve glycaemic control or insulin sensitivity in subjects with impaired glucose regulation: a parallel randomised controlled trial. British Journal of Nutrition, 2016, 115, 75-86.	1.2	21
35	Responses in gut hormones and hunger to diets with either high protein or a mixture of protein plus free amino acids supplied under weight-loss conditions. British Journal of Nutrition, 2015, 113, 1254-1270.	1.2	20
36	Practical Use of MCMC Methods: Lessons from a Case Study. Biometrical Journal, 2002, 44, 433.	0.6	16

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37	Diet Composition Is Associated with Endogenous Formation of N-Nitroso Compounds in Obese Men. Journal of Nutrition, 2012, 142, 1652-1658.	1.3	15
38	mRNA Levels of Placental Iron and Zinc Transporter Genes Are Upregulated in Gambian Women with Low Iron and Zinc Status. Journal of Nutrition, 2017, 147, 1401-1409.	1.3	15
39	Effect of feed intake on ovine hindlimb protein metabolism based on thirteen amino acids and arterioâ€“venous techniques. British Journal of Nutrition, 2001, 86, 577-585.	1.2	14
40	Quantitative Analysis of Microbial Metabolism in the Human Large Intestine. Current Nutrition and Food Science, 2008, 4, 109-126.	0.3	12
41	Effect of feed intake on amino acid transfers across the ovine hindquarters. British Journal of Nutrition, 2003, 89, 167-179.	1.2	11
42	Glucose uptake by the brain on chronic high-protein weight-loss diets with either moderate or low amounts of carbohydrate. British Journal of Nutrition, 2014, 111, 586-597.	1.2	10
43	Modelling transport of amino acids into the red blood cells of sheep. Journal of Agricultural Science, 2004, 142, 577-588.	0.6	9
44	Food Intake and Dietary Glycaemic Index in Free-Living Adults with and without Type 2 Diabetes Mellitus. Nutrients, 2011, 3, 683-693.	1.7	9
45	Effects of methyl-deficient diets on methionine and homocysteine metabolism in the pregnant rat. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E1531-E1540.	1.8	9
46	Higher total faecal short-chain fatty acid concentrations correlate with increasing proportions of butyrate and decreasing proportions of branched-chain fatty acids across multiple human studies. Gut Microbiome, 2022, 3, .	0.8	8
47	Contribution of gut microbial lysine to liver and milk amino acids in lactating does. British Journal of Nutrition, 2008, 100, 977-983.	1.2	4
48	Bayesian analysis of non-linear differential equation models with application to a gut microbial ecosystem. Biometrical Journal, 2011, 53, 543-556.	0.6	3