

Laure B Bindels

List of Publications by Year in descending order

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Version: 2024-02-01

106
papers

11,659
citations

53660

45
h-index

29081

104
g-index

107
all docs

107
docs citations

107
times ranked

15830
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Dysosmobacter welbionis</i> is a newly isolated human commensal bacterium preventing diet-induced obesity and metabolic disorders in mice. <i>Gut</i> , 2022, 71, 534-543.	6.1	95
2	Bile acids contribute to the development of non-alcoholic steatohepatitis in mice. <i>JHEP Reports</i> , 2022, 4, 100387.	2.6	28
3	Crosstalk between bile acid-activated receptors and microbiome in entero-hepatic inflammation. <i>Trends in Molecular Medicine</i> , 2022, 28, 223-236.	3.5	58
4	Interactions entre les traitements du diabète et le microbiote intestinal: État des connaissances et perspectives. <i>Medicine Des Maladies Metaboliques</i> , 2022, 16, 148-159.	0.1	1
5	Iron supplementation is sufficient to rescue skeletal muscle mass and function in cancer cachexia. <i>EMBO Reports</i> , 2022, 23, e53746.	2.0	26
6	Physical activity enhances the improvement of body mass index and metabolism by inulin: a multicenter randomized placebo-controlled trial performed in obese individuals. <i>BMC Medicine</i> , 2022, 20, 110.	2.3	21
7	Activin A Causes Muscle Atrophy through MEF2C-Dependent Impaired Myogenesis. <i>Cells</i> , 2022, 11, 1119.	1.8	6
8	Restoring an adequate dietary fiber intake by inulin supplementation: a pilot study showing an impact on gut microbiota and sociability in alcohol use disorder patients. <i>Gut Microbes</i> , 2022, 14, 2007042.	4.3	15
9	Microbiota and Metabolite Profiling as Markers of Mood Disorders: A Cross-Sectional Study in Obese Patients. <i>Nutrients</i> , 2022, 14, 147.	1.7	6
10	Breath volatile metabolome reveals the impact of dietary fibres on the gut microbiota: Proof of concept in healthy volunteers. <i>EBioMedicine</i> , 2022, 80, 104051.	2.7	7
11	The RNA-binding protein tristetraprolin regulates RALDH2 expression by intestinal dendritic cells and controls local Treg homeostasis. <i>Mucosal Immunology</i> , 2021, 14, 80-91.	2.7	4
12	Noninvasive monitoring of fibre fermentation in healthy volunteers by analyzing breath volatile metabolites: lessons from the FiberTAG intervention study. <i>Gut Microbes</i> , 2021, 13, 1-16.	4.3	8
13	Gut microbiota alteration in a mouse model of Anorexia Nervosa. <i>Clinical Nutrition</i> , 2021, 40, 181-189.	2.3	40
14	Improvement of gastrointestinal discomfort and inflammatory status by a synbiotic in middle-aged adults: a double-blind randomized placebo-controlled trial. <i>Scientific Reports</i> , 2021, 11, 2627.	1.6	18
15	Multi-compartment metabolomics and metagenomics reveal major hepatic and intestinal disturbances in cancer cachectic mice. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2021, 12, 456-475.	2.9	30
16	Prebiotic dietary fibre intervention improves fecal markers related to inflammation in obese patients: results from the Food4Gut randomized placebo-controlled trial. <i>European Journal of Nutrition</i> , 2021, 60, 3159-3170.	1.8	46
17	Hepatoprotective Effects of Indole, a Gut Microbial Metabolite, in Leptin-Deficient Obese Mice. <i>Journal of Nutrition</i> , 2021, 151, 1507-1516.	1.3	27
18	Prebiotic Effect of Berberine and Curcumin Is Associated with the Improvement of Obesity in Mice. <i>Nutrients</i> , 2021, 13, 1436.	1.7	22

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19	Specific gut microbial, biological, and psychiatric profiling related to binge eating disorders: A cross-sectional study in obese patients. <i>Clinical Nutrition</i> , 2021, 40, 2035-2044.	2.3	30
20	Prebiotic effect on mood in obese patients is determined by the initial gut microbiota composition: A randomized, controlled trial. <i>Brain, Behavior, and Immunity</i> , 2021, 94, 289-298.	2.0	35
21	Effects of probiotics and synbiotics on diarrhea in undernourished children: Systematic review with meta-analysis. <i>Clinical Nutrition</i> , 2021, 40, 3158-3169.	2.3	19
22	Dietary fiber deficiency as a component of malnutrition associated with psychological alterations in alcohol use disorder. <i>Clinical Nutrition</i> , 2021, 40, 2673-2682.	2.3	11
23	A dynamic association between myosteatosis and liver stiffness: Results from a prospective interventional study in obese patients. <i>JHEP Reports</i> , 2021, 3, 100323.	2.6	24
24	Microbiota analysis and transient elastography reveal new extra-hepatic components of liver steatosis and fibrosis in obese patients. <i>Scientific Reports</i> , 2021, 11, 659.	1.6	29
25	Inflammation-induced cholestasis in cancer cachexia. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2021, 12, 70-90.	2.9	24
26	Growth differentiation factor-15 and the association between type 2 diabetes and liver fibrosis in NAFLD. <i>Nutrition and Diabetes</i> , 2021, 11, 32.	1.5	13
27	Bile Acid Dysregulation Is Intrinsically Related to Cachexia in Tumor-Bearing Mice. <i>Cancers</i> , 2021, 13, 6389.	1.7	4
28	Food for thought about manipulating gut bacteria. <i>Nature</i> , 2020, 577, 32-34.	13.7	16
29	Gut Microbiota-Induced Changes in β -Hydroxybutyrate Metabolism Are Linked to Altered Sociability and Depression in Alcohol Use Disorder. <i>Cell Reports</i> , 2020, 33, 108238.	2.9	87
30	Stearidonic acid-enriched Soybean Oil Modulates Obesity, Glucose Metabolism, and Fatty Acid Profiles Independently of <i>Akkermansia muciniphila</i> . <i>Molecular Nutrition and Food Research</i> , 2020, 64, e2000162.	1.5	8
31	Cachexia, a Systemic Disease beyond Muscle Atrophy. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8592.	1.8	22
32	Predictors of tacrolimus pharmacokinetic variability: current evidences and future perspectives. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2020, 16, 769-782.	1.5	19
33	Metabolite profiling reveals the interaction of chitin-glucan with the gut microbiota. <i>Gut Microbes</i> , 2020, 12, 1810530.	4.3	31
34	Marked Increased Production of Acute Phase Reactants by Skeletal Muscle during Cancer Cachexia. <i>Cancers</i> , 2020, 12, 3221.	1.7	7
35	The nuclear receptor FXR inhibits Glucagon-Like Peptide-1 secretion in response to microbiota-derived Short-Chain Fatty Acids. <i>Scientific Reports</i> , 2020, 10, 174.	1.6	45
36	Synbiotics Alter Fecal Microbiomes, But Not Liver Fat or Fibrosis, in a Randomized Trial of Patients With Nonalcoholic Fatty Liver Disease. <i>Gastroenterology</i> , 2020, 158, 1597-1610.e7.	0.6	123

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37	Discovery of the gut microbial signature driving the efficacy of prebiotic intervention in obese patients. <i>Gut</i> , 2020, 69, 1975-1987.	6.1	141
38	Link between gut microbiota and health outcomes in inulin -treated obese patients: Lessons from the Food4Gut multicenter randomized placebo-controlled trial. <i>Clinical Nutrition</i> , 2020, 39, 3618-3628.	2.3	87
39	Gut microbiota and osteoarthritis management: An expert consensus of the European society for clinical and economic aspects of osteoporosis, osteoarthritis and musculoskeletal diseases (ESCEO). <i>Ageing Research Reviews</i> , 2019, 55, 100946.	5.0	103
40	Milk Polar Lipids in a High-Fat Diet Can Prevent Body Weight Gain: Modulated Abundance of Gut Bacteria in Relation with Fecal Loss of Specific Fatty Acids. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1801078.	1.5	35
41	The Janus Face of Cereals: Wheat-Derived Prebiotics Counteract the Detrimental Effect of Gluten on Metabolic Homeostasis in Mice Fed a High-Fat/High-Sucrose Diet. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1900632.	1.5	15
42	Functional Effects of EPS-Producing Bifidobacterium Administration on Energy Metabolic Alterations of Diet-Induced Obese Mice. <i>Frontiers in Microbiology</i> , 2019, 10, 1809.	1.5	35
43	Chitin-glucan and pomegranate polyphenols improve endothelial dysfunction. <i>Scientific Reports</i> , 2019, 9, 14150.	1.6	25
44	Targeting the Gut Microbiota to Treat Cachexia. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 305.	1.8	28
45	Effects of a diet based on inulin-rich vegetables on gut health and nutritional behavior in healthy humans. <i>American Journal of Clinical Nutrition</i> , 2019, 109, 1683-1695.	2.2	121
46	Contribution of the gut microbiota to the regulation of host metabolism and energy balance: a focus on the gut-liver axis. <i>Proceedings of the Nutrition Society</i> , 2019, 78, 319-328.	0.4	84
47	A Preventive Prebiotic Supplementation Improves the Sweet Taste Perception in Diet-Induced Obese Mice. <i>Nutrients</i> , 2019, 11, 549.	1.7	17
48	Wheat-derived arabinoxylan oligosaccharides with bifidogenic properties abolishes metabolic disorders induced by western diet in mice. <i>Nutrition and Diabetes</i> , 2018, 8, 15.	1.5	28
49	Contribution of gut microbiota-host cooperation to drug efficacy. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2018, 15, 69-70.	8.2	10
50	Particle size determines the anti-inflammatory effect of wheat bran in a model of fructose over-consumption: Implication of the gut microbiota. <i>Journal of Functional Foods</i> , 2018, 41, 155-162.	1.6	24
51	Targeting the gut microbiota with inulin-type fructans: preclinical demonstration of a novel approach in the management of endothelial dysfunction. <i>Gut</i> , 2018, 67, 271-283.	6.1	150
52	Polyunsaturated fatty acids, polyphenols, amino acids, prebiotics. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2018, 21, 458-464.	1.3	6
53	Commensal <i>Escherichia coli</i> Strains Can Promote Intestinal Inflammation via Differential Interleukin-6 Production. <i>Frontiers in Immunology</i> , 2018, 9, 2318.	2.2	80
54	The DPP-4 inhibitor vildagliptin impacts the gut microbiota and prevents disruption of intestinal homeostasis induced by a Western diet in mice. <i>Diabetologia</i> , 2018, 61, 1838-1848.	2.9	76

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55	Design and rationale of the INSYTE study: A randomised, placebo controlled study to test the efficacy of a synbiotic on liver fat, disease biomarkers and intestinal microbiota in non-alcoholic fatty liver disease. <i>Contemporary Clinical Trials</i> , 2018, 71, 113-123.	0.8	31
56	The gut microbiota metabolite indole alleviates liver inflammation in mice. <i>FASEB Journal</i> , 2018, 32, 6681-6693.	0.2	137
57	Microbiome metabolomics reveals new drivers of human liver steatosis. <i>Nature Medicine</i> , 2018, 24, 906-907.	15.2	25
58	Inulin Improves Postprandial Hypertriglyceridemia by Modulating Gene Expression in the Small Intestine. <i>Nutrients</i> , 2018, 10, 532.	1.7	24
59	Increased Serpina3n release into circulation during glucocorticoid-mediated muscle atrophy. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2018, 9, 929-946.	2.9	53
60	<i>Klebsiella oxytoca</i> expands in cancer cachexia and acts as a gut pathobiont contributing to intestinal dysfunction. <i>Scientific Reports</i> , 2018, 8, 12321.	1.6	71
61	Increased gut permeability in cancer cachexia: mechanisms and clinical relevance. <i>Oncotarget</i> , 2018, 9, 18224-18238.	0.8	90
62	The Potential Role of the Dipeptidyl Peptidase-4-Like Activity From the Gut Microbiota on the Host Health. <i>Frontiers in Microbiology</i> , 2018, 9, 1900.	1.5	47
63	Galactooligosaccharide supplementation provides protection against <i>Citrobacter rodentium</i> -induced colitis without limiting pathogen burden. <i>Microbiology (United Kingdom)</i> , 2018, 164, 154-162.	0.7	20
64	Implication of trans-11,trans-13 conjugated linoleic acid in the development of hepatic steatosis. <i>PLoS ONE</i> , 2018, 13, e0192447.	1.1	8
65	Rhubarb extract prevents hepatic inflammation induced by acute alcohol intake, an effect related to the modulation of the gut microbiota. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1500899.	1.5	138
66	Resistant starch can improve insulin sensitivity independently of the gut microbiota. <i>Microbiome</i> , 2017, 5, 12.	4.9	113
67	Low-dose penicillin in early life induces long-term changes in murine gut microbiota, brain cytokines and behavior. <i>Nature Communications</i> , 2017, 8, 15062.	5.8	329
68	How do probiotics and prebiotics function at distant sites?. <i>Beneficial Microbes</i> , 2017, 8, 521-533.	1.0	61
69	Ffar2 expression regulates leukaemic cell growth in vivo. <i>British Journal of Cancer</i> , 2017, 117, 1336-1340.	2.9	12
70	Fat binding capacity and modulation of the gut microbiota both determine the effect of wheat bran fractions on adiposity. <i>Scientific Reports</i> , 2017, 7, 5621.	1.6	51
71	A polyphenolic extract from green tea leaves activates fat browning in high-fat-diet-induced obese mice. <i>Journal of Nutritional Biochemistry</i> , 2017, 49, 15-21.	1.9	64
72	A gut pathobiont synergizes with the microbiota to instigate inflammatory disease marked by immunoreactivity against other symbionts but not itself. <i>Scientific Reports</i> , 2017, 7, 17707.	1.6	41

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73	Spirulina Protects against Hepatic Inflammation in Aging: An Effect Related to the Modulation of the Gut Microbiota?. <i>Nutrients</i> , 2017, 9, 633.	1.7	49
74	Intestinal Sucrase as a Novel Target Contributing to the Regulation of Glycemia by Prebiotics. <i>PLoS ONE</i> , 2016, 11, e0160488.	1.1	27
75	Disparate Metabolic Responses in Mice Fed a High-Fat Diet Supplemented with Maize-Derived Non-Digestible Feruloylated Oligo- and Polysaccharides Are Linked to Changes in the Gut Microbiota. <i>PLoS ONE</i> , 2016, 11, e0146144.	1.1	43
76	Colonic acetate in obesity: location matters!. <i>Clinical Science</i> , 2016, 130, 2083-2086.	1.8	7
77	Nutrition in cancer patients with cachexia: A role for the gut microbiota?. <i>Clinical Nutrition Experimental</i> , 2016, 6, 74-82.	2.0	16
78	Synbiotic approach restores intestinal homeostasis and prolongs survival in leukaemic mice with cachexia. <i>ISME Journal</i> , 2016, 10, 1456-1470.	4.4	149
79	Prebiotics: why definitions matter. <i>Current Opinion in Biotechnology</i> , 2016, 37, 1-7.	3.3	326
80	Lack of anti-inflammatory effect of coenzyme Q10 supplementation in the liver of rodents after lipopolysaccharide challenge. <i>Clinical Nutrition Experimental</i> , 2015, 1, 10-18.	2.0	4
81	Resistant starches for the management of metabolic diseases. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2015, 18, 559-565.	1.3	84
82	Intake of <i>Lactobacillus reuteri</i> Improves Incretin and Insulin Secretion in Glucose-Tolerant Humans: A Proof of Concept. <i>Diabetes Care</i> , 2015, 38, 1827-1834.	4.3	194
83	Gut microorganisms as promising targets for the management of type 2 diabetes. <i>Diabetologia</i> , 2015, 58, 2206-2217.	2.9	220
84	Towards a more comprehensive concept for prebiotics. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2015, 12, 303-310.	8.2	679
85	Ability of the gut microbiota to produce PUFA-derived bacterial metabolites: Proof of concept in germ-free versus conventionalized mice. <i>Molecular Nutrition and Food Research</i> , 2015, 59, 1603-1613.	1.5	48
86	<i>Ganoderma lucidum</i> , a new prebiotic agent to treat obesity?. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2015, 12, 553-554.	8.2	39
87	Inulin-type fructans modulate intestinal <i>Bifidobacterium</i> species populations and decrease fecal short-chain fatty acids in obese women. <i>Clinical Nutrition</i> , 2015, 34, 501-507.	2.3	220
88	Non Digestible Oligosaccharides Modulate the Gut Microbiota to Control the Development of Leukemia and Associated Cachexia in Mice. <i>PLoS ONE</i> , 2015, 10, e0131009.	1.1	109
89	Can prebiotics and probiotics improve therapeutic outcomes for undernourished individuals?. <i>Gut Microbes</i> , 2014, 5, 74-82.	4.3	47
90	Intestinal epithelial MyD88 is a sensor switching host metabolism towards obesity according to nutritional status. <i>Nature Communications</i> , 2014, 5, 5648.	5.8	197

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91	Polyphenol-rich extract of pomegranate peel alleviates tissue inflammation and hypercholesterolaemia in high-fat diet-induced obese mice: potential implication of the gut microbiota. <i>British Journal of Nutrition</i> , 2013, 109, 802-809.	1.2	197
92	Evaluation of the relationship between GPR43 and adiposity in human. <i>Nutrition and Metabolism</i> , 2013, 10, 11.	1.3	40
93	Muscle wasting: The gut microbiota as a new therapeutic target?. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 2186-2190.	1.2	143
94	GPR43/FFA2: physiopathological relevance and therapeutic prospects. <i>Trends in Pharmacological Sciences</i> , 2013, 34, 226-232.	4.0	172
95	Insight into the prebiotic concept: lessons from an exploratory, double blind intervention study with inulin-type fructans in obese women. <i>Gut</i> , 2013, 62, 1112-1121.	6.1	632
96	Cross-talk between <i>Akkermansia muciniphila</i> and intestinal epithelium controls diet-induced obesity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9066-9071.	3.3	3,474
97	Restoring Specific Lactobacilli Levels Decreases Inflammation and Muscle Atrophy Markers in an Acute Leukemia Mouse Model. <i>PLoS ONE</i> , 2012, 7, e37971.	1.1	186
98	Gut microbiota-derived propionate reduces cancer cell proliferation in the liver. <i>British Journal of Cancer</i> , 2012, 107, 1337-1344.	2.9	238
99	Inulin-type fructans with prebiotic properties counteract GPR43 overexpression and PPAR β -related adipogenesis in the white adipose tissue of high-fat diet-fed mice. <i>Journal of Nutritional Biochemistry</i> , 2011, 22, 712-722.	1.9	237
100	Changes in Intestinal Bifidobacteria Levels Are Associated with the Inflammatory Response in Magnesium-Deficient Mice. <i>Journal of Nutrition</i> , 2010, 140, 509-514.	1.3	83
101	Lipid peroxidation is not a prerequisite for the development of obesity and diabetes in high-fat-fed mice. <i>British Journal of Nutrition</i> , 2009, 102, 462-469.	1.2	27
102	Coenzyme Q10 supplementation lowers hepatic oxidative stress and inflammation associated with diet-induced obesity in mice. <i>Biochemical Pharmacology</i> , 2009, 78, 1391-1400.	2.0	145
103	Critical role of Kupffer cells in the management of diet-induced diabetes and obesity. <i>Biochemical and Biophysical Research Communications</i> , 2009, 385, 351-356.	1.0	91
104	Dietary supplementation with chitosan derived from mushrooms changes adipocytokine profile in diet-induced obese mice, a phenomenon linked to its lipid-lowering action. <i>International Immunopharmacology</i> , 2009, 9, 767-773.	1.7	78
105	Hepatic steatosis in n-3 fatty acid depleted mice: focus on metabolic alterations related to tissue fatty acid composition. <i>BMC Physiology</i> , 2008, 8, 21.	3.6	42
106	Immunomodulatory properties of two wheat bran fractions "aleurone-enriched and crude fractions" in obese mice fed a high fat diet. <i>International Immunopharmacology</i> , 2008, 8, 1423-1432.	1.7	27