Fredrik Bckhed

List of Publications by Year in Descending Order

203 papers	56,593 citations	93 h-index	219 g-index
219 ext. papers	70,485 ext. citations	15.5 avg, IF	8.18 L-index

#	Paper	IF	Citations
203	Staying strong during hibernation.. *Science*, **2022**, 375, 376-377	33.3	
202	Impairment of gut microbial biotin metabolism and host biotin status in severe obesity: effect of biotin and prebiotic supplementation on improved metabolism.. *Gut*, **2022**,	19.2	5
201	Microbiome and metabolome features of the cardiometabolic disease spectrum.. *Nature Medicine*, **2022**,	50.5	4
200	Dynamics of the normal gut microbiota: A longitudinal one-year population study in Sweden.. *Cell Host and Microbe*, **2022**,	23.4	7
199	The developing infant gut microbiome: A strain-level view.. *Cell Host and Microbe*, **2022**, 30, 627-638	23.4	3
198	Combinatorial, additive and dose-dependent drug-microbiome associations. *Nature*, **2021**,	50.4	11
197	Microbial regulation of hexokinase 2 links mitochondrial metabolism and cell death in colitis. *Cell Metabolism*, **2021**, 33, 2355-2366.e8	24.6	3
196	Duodenal infusion stimulates GLP-1 production, ameliorates glycaemic control and beneficially shapes the duodenal transcriptome in metabolic syndrome subjects: a randomised double-blind placebo-controlled cross-over study. *Gut*, **2021**,	19.2	5
195	Structural characterization of the microbial enzyme urocanate reductase mediating imidazole propionate production. *Nature Communications*, **2021**, 12, 1347	17.4	1
194	Developmental trajectory of the healthy human gut microbiota during the first 5 years of life. *Cell Host and Microbe*, **2021**, 29, 765-776.e3	23.4	55
193	The gut microbiota regulates hypothalamic inflammation and leptin sensitivity in Western diet-fed mice via a GLP-1R-dependent mechanism. *Cell Reports*, **2021**, 35, 109163	10.6	12
192	Microbial regulation of enteroendocrine cells.. *Med*, **2021**, 2, 553-570	31.7	1
191	Anorexia and Fat Aversion Induced by Vertical Sleeve Gastrectomy Is Attenuated in Neurotensin Receptor 1-Deficient Mice. *Endocrinology*, **2021**, 162,	4.8	2
190	Feeding diversified protein sources exacerbates hepatic insulin resistance via increased gut microbial branched-chain fatty acids and mTORC1 signaling in obese mice. *Nature Communications*, **2021**, 12, 3377	17.4	7
189	A Continuous Battle for Host-Derived Glycans Between a Mucus Specialist and a Glycan Generalist and. *Frontiers in Microbiology*, **2021**, 12, 632454	5.7	8
188	Hypothalamic bile acid-TGR5 signaling protects from obesity. *Cell Metabolism*, **2021**, 33, 1483-1492.e10	24.6	22
187	A systems biology approach to understand gut microbiota and host metabolism in morbid obesity: design of the BARIA Longitudinal Cohort Study. *Journal of Internal Medicine*, **2021**, 289, 340-354	10.8	6

186	Longitudinal plasma protein profiling of newly diagnosed type 2 diabetes. *EBioMedicine*, **2021**, 63, 103148	8.8	6
185	Gut microbial metabolites as multi-kingdom intermediates. *Nature Reviews Microbiology*, **2021**, 19, 77-94	22.2	155
184	Propionate attenuates atherosclerosis by immune-dependent regulation of intestinal cholesterol metabolism. *European Heart Journal*, **2021**,	9.5	13
183	Conversion of dietary inositol into propionate and acetate by commensal Anaerostipes associates with host health. *Nature Communications*, **2021**, 12, 4798	17.4	10
182	Maternal cecal microbiota transfer rescues early-life antibiotic-induced enhancement of type 1 diabetes in mice. *Cell Host and Microbe*, **2021**, 29, 1249-1265.e9	23.4	5
181	Statin therapy is associated with lower prevalence of gut microbiota dysbiosis. *Nature*, **2020**, 581, 310-315	50.4	100
180	Differences in gut microbiota composition in metabolic syndrome and type 2 diabetes subjects in a multi-ethnic population: the HELIUS study. *Proceedings of the Nutrition Society*, **2020**, 79,	2.9	3
179	The Gut Microbiota in Prediabetes and Diabetes: A Population-Based Cross-Sectional Study. *Cell Metabolism*, **2020**, 32, 379-390.e3	24.6	62
178	L-Cell Differentiation Is Induced by Bile Acids Through GPBAR1 and Paracrine GLP-1 and Serotonin Signaling. *Diabetes*, **2020**, 69, 614-623	0.9	24
177	From Association to Causality: the Role of the Gut Microbiota and Its Functional Products on Host Metabolism. *Molecular Cell*, **2020**, 78, 584-596	17.6	71
176	Gut microbiota of obese subjects with Prader-Willi syndrome is linked to metabolic health. *Gut*, **2020**, 69, 1229-1238	19.2	19
175	Hepatic expression of lipopolysaccharide-binding protein (Lbp) is induced by the gut microbiota through Myd88 and impairs glucose tolerance in mice independent of obesity. *Molecular Metabolism*, **2020**, 37, 100997	8.8	7
174	Protein Turnover in Epithelial Cells and Mucus along the Gastrointestinal Tract Is Coordinated by the Spatial Location and Microbiota. *Cell Reports*, **2020**, 30, 1077-1087.e3	10.6	22
173	Distinct alterations of gut morphology and microbiota characterize accelerated diabetes onset in nonobese diabetic mice. *Journal of Biological Chemistry*, **2020**, 295, 969-980	5.4	9
172	Distinct alterations of gut morphology and microbiota characterize accelerated diabetes onset in nonobese diabetic mice. *Journal of Biological Chemistry*, **2020**, 295, 969-980	5.4	14
171	Imidazole propionate is increased in diabetes and associated with dietary patterns and altered microbial ecology. *Nature Communications*, **2020**, 11, 5881	17.4	29
170	Microbial Imidazole Propionate Affects Responses to Metformin through p38-Dependent Inhibitory AMPK Phosphorylation. *Cell Metabolism*, **2020**, 32, 643-653.e4	24.6	36
169	Associations between gut microbiota, faecal short-chain fatty acids, and blood pressure across ethnic groups: the HELIUS study. *European Heart Journal*, **2020**, 41, 4259-4267	9.5	38

168	Effects of a Vegetarian Diet on Cardiometabolic Risk Factors, Gut Microbiota, and Plasma Metabolome in Subjects With Ischemic Heart Disease: A Randomized, Crossover Study. *Journal of the American Heart Association*, **2020**, 9, e016518	6	20
167	Integration of molecular profiles in a longitudinal wellness profiling cohort. *Nature Communications*, **2020**, 11, 4487	17.4	32
166	Obesity-associated microbiota contributes to mucus layer defects in genetically obese mice. *Journal of Biological Chemistry*, **2020**, 295, 15712-15726	5.4	11
165	Donor metabolic characteristics drive effects of faecal microbiota transplantation on recipient insulin sensitivity, energy expenditure and intestinal transit time. *Gut*, **2020**, 69, 502-512	19.2	98
164	The next decade of metabolism. *Nature Metabolism*, **2019**, 1, 2-4	14.6	3
163	Obeticholic acid may increase the risk of gallstone formation in susceptible patients. *Journal of Hepatology*, **2019**, 71, 986-991	13.4	28
162	Intestinal Microbiota in Cardiovascular Health and Disease: JACC State-of-the-Art Review. *Journal of the American College of Cardiology*, **2019**, 73, 2089-2105	15.1	158
161	Simplified Intestinal Microbiota to Study Microbe-Diet-Host Interactions in a Mouse Model. *Cell Reports*, **2019**, 26, 3772-3783.e6	10.6	35
160	Liver-specific ROR deletion does not affect the metabolic susceptibility to western style diet feeding. *Molecular Metabolism*, **2019**, 23, 82-87	8.8	3
159	Insulin-Driven PI3K-AKT Signaling in the Hepatocyte Is Mediated by Redundant PI3K and PI3K Activities and Is Promoted by RAS. *Cell Metabolism*, **2019**, 29, 1400-1409.e5	24.6	23
158	Shining light on microbial signaling to distant organs. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 7617-7619	11.5	2
157	Abundance of gut Prevotella at baseline and metabolic response to barley prebiotics. *European Journal of Nutrition*, **2019**, 58, 2365-2376	5.2	29
156	Microbial fermentation of flaxseed fibers modulates the transcriptome of GPR41-expressing enteroendocrine cells and protects mice against diet-induced obesity. *American Journal of Physiology - Endocrinology and Metabolism*, **2019**, 316, E453-E463	6	12
155	Amendments: Author Correction: A catalog of the mouse gut metagenome. *Nature Biotechnology*, **2019**, 37, 102	44.5	
154	Genes controlling the activation of natural killer lymphocytes are epigenetically remodeled in intestinal cells from germ-free mice. *FASEB Journal*, **2019**, 33, 2719-2731	0.9	6
153	Dietary destabilisation of the balance between the microbiota and the colonic mucus barrier. *Gut Microbes*, **2019**, 10, 246-250	8.8	30
152	Specific synbiotics in early life protect against diet-induced obesity in adult mice. *Diabetes, Obesity and Metabolism*, **2018**, 20, 1408-1418	6.7	29
151	Glucose-lowering effects and mechanisms of the bile acid-sequestering resin sevelamer. *Diabetes, Obesity and Metabolism*, **2018**, 20, 1623-1631	6.7	11

150	An Integrated Understanding of the Rapid Metabolic Benefits of a Carbohydrate-Restricted Diet on Hepatic Steatosis in Humans. *Cell Metabolism*, **2018**, 27, 559-571.e5	24.6	189
149	Aberrant intestinal microbiota in individuals with prediabetes. *Diabetologia*, **2018**, 61, 810-820	10.3	163
148	Microbial regulation of the L cell transcriptome. *Scientific Reports*, **2018**, 8, 1207	4.9	34
147	Enterotypes in the landscape of gut microbial community composition. *Nature Microbiology*, **2018**, 3, 8-16	26.6	387
146	Bifidobacteria or Fiber Protects against Diet-Induced Microbiota-Mediated Colonic Mucus Deterioration. *Cell Host and Microbe*, **2018**, 23, 27-40.e7	23.4	294
145	Exposure to the gut microbiota drives distinct methylome and transcriptome changes in intestinal epithelial cells during postnatal development. *Genome Medicine*, **2018**, 10, 27	14.4	76
144	Reduced obesity, diabetes, and steatosis upon cinnamon and grape pomace are associated with changes in gut microbiota and markers of gut barrier. *American Journal of Physiology - Endocrinology and Metabolism*, **2018**, 314, E334-E352	6	85
143	Gut microbiota dysbiosis is associated with malnutrition and reduced plasma amino acid levels: Lessons from genome-scale metabolic modeling. *Metabolic Engineering*, **2018**, 49, 128-142	9.7	34
142	Depicting the composition of gut microbiota in a population with varied ethnic origins but shared geography. *Nature Medicine*, **2018**, 24, 1526-1531	50.5	247
141	Neonatal selection by Toll-like receptor 5 influences long-term gut microbiota composition. *Nature*, **2018**, 560, 489-493	50.4	96
140	Gut microbiota regulates maturation of the adult enteric nervous system via enteric serotonin networks. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 6458-6463	11.5	182
139	The Impact of Dietary Fiber on Gut Microbiota in Host Health and Disease. *Cell Host and Microbe*, **2018**, 23, 705-715	23.4	786
138	Impact of Gut Microbiota and Diet on the Development of Atherosclerosis in Apoe Mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 2318-2326	9.4	79
137	In vitro co-cultures of human gut bacterial species as predicted from co-occurrence network analysis. *PLoS ONE*, **2018**, 13, e0195161	3.7	27
136	Saccharin Does Not Affect Insulin Resistance in 14 Overweight Adults without Diabetes. *Diabetes*, **2018**, 67, 771-P	0.9	
135	23, 22 Calling the Microbiota to Control Atherosclerosis. *Immunity*, **2018**, 49, 788-790	32.3	1
134	Interactions between Roseburia intestinalis and diet modulate atherogenesis in a murine model. *Nature Microbiology*, **2018**, 3, 1461-1471	26.6	170
133	Microbially Produced Imidazole Propionate Impairs Insulin Signaling through mTORC1. *Cell*, **2018**, 175, 947-961.e17	56.2	267

132	Microbiota-induced obesity requires farnesoid X receptor. *Gut*, **2017**, 66, 429-437	19.2	259
131	Overexpressing the novel autocrine/endocrine adipokine WISP2 induces hyperplasia of the heart, white and brown adipose tissues and prevents insulin resistance. *Scientific Reports*, **2017**, 7, 43515	4.9	17
130	Hepatocyte MyD88 affects bile acids, gut microbiota and metabolome contributing to regulate glucose and lipid metabolism. *Gut*, **2017**, 66, 620-632	19.2	81
129	Crosstalk between Bile Acids and Gut Microbiota and Its Impact on Farnesoid X Receptor Signalling. *Digestive Diseases*, **2017**, 35, 246-250	3.2	53
128	Role of gut microbiota in atherosclerosis. *Nature Reviews Cardiology*, **2017**, 14, 79-87	14.8	264
127	Diabetes-associated microbiota in fa/fa rats is modified by Roux-en-Y gastric bypass. *ISME Journal*, **2017**, 11, 2035-2046	11.9	37
126	Regulation of bone mass by the gut microbiota is dependent on NOD1 and NOD2 signaling. *Cellular Immunology*, **2017**, 317, 55-58	4.4	37
125	Metformin alters the gut microbiome of individuals with treatment-naive type 2 diabetes, contributing to the therapeutic effects of the drug. *Nature Medicine*, **2017**, 23, 850-858	50.5	732
124	Cyp3a11 is not essential for the formation of murine bile acids. *Biochemistry and Biophysics Reports*, **2017**, 10, 70-75	2.2	10
123	Metabolic effects of Lactobacillus reuteri DSM 17938 in people with type 2 diabetes: A randomized controlled trial. *Diabetes, Obesity and Metabolism*, **2017**, 19, 579-589	6.7	129
122	Induction of farnesoid X receptor signaling in germ-free mice colonized with a human microbiota. *Journal of Lipid Research*, **2017**, 58, 412-419	6.3	41
121	Overexpression of protein kinase STK25 in mice exacerbates ectopic lipid accumulation, mitochondrial dysfunction and insulin resistance in skeletal muscle. *Diabetologia*, **2017**, 60, 553-567	10.3	25
120	Host-microbiota interaction induces bi-phasic inflammation and glucose intolerance in mice. *Molecular Metabolism*, **2017**, 6, 1371-1380	8.8	22
119	Network analyses identify liver-specific targets for treating liver diseases. *Molecular Systems Biology*, **2017**, 13, 938	12.2	71
118	Evolution, human-microbe interactions, and life history plasticity. *Lancet, The*, **2017**, 390, 521-530	40	113
117	Bacterial profile in human atherosclerotic plaques. *Atherosclerosis*, **2017**, 263, 177-183	3.1	36
116	The gut microbiota contributes to a mouse model of spontaneous bile duct inflammation. *Journal of Hepatology*, **2017**, 66, 382-389	13.4	44
115	Intestinal Ralstonia pickettii augments glucose intolerance in obesity. *PLoS ONE*, **2017**, 12, e0181693	3.7	28

114	Neurotensin Is Coexpressed, Coreleased, and Acts Together With GLP-1 and PYY in Enteroendocrine Control of Metabolism. *Endocrinology*, **2016**, 157, 176-94	4.8	99
113	Regulation of body fat mass by the gut microbiota: Possible mediation by the brain. *Peptides*, **2016**, 77, 54-9	3.8	13
112	Microbial regulation of GLP-1 and L-cell biology. *Molecular Metabolism*, **2016**, 5, 753-8	8.8	71
111	Antibiotic-mediated gut microbiome perturbation accelerates development of type 1 diabetes in mice. *Nature Microbiology*, **2016**, 1, 16140	26.6	209
110	Microbially produced glucagon-like peptide 1 improves glucose tolerance in mice. *Molecular Metabolism*, **2016**, 5, 725-730	8.8	14
109	From Dietary Fiber to Host Physiology: Short-Chain Fatty Acids as Key Bacterial Metabolites. *Cell*, **2016**, 165, 1332-1345	56.2	2263
108	Altered Microbiota Contributes to Reduced Diet-Induced Obesity upon Cold Exposure. *Cell Metabolism*, **2016**, 23, 1216-1223	24.6	173
107	Intestinal Crosstalk between Bile Acids and Microbiota and Its Impact on Host Metabolism. *Cell Metabolism*, **2016**, 24, 41-50	24.6	1022
106	Know your neighbor: Microbiota and host epithelial cells interact locally to control intestinal function and physiology. *BioEssays*, **2016**, 38, 455-64	4.1	46
105	Interaction between dietary lipids and gut microbiota regulates hepatic cholesterol metabolism. *Journal of Lipid Research*, **2016**, 57, 474-81	6.3	56
104	The Gut Microbiota Modulates Energy Metabolism in the Hibernating Brown Bear Ursus arctos. *Cell Reports*, **2016**, 14, 1655-1661	10.6	169
103	Insulin-like peptide 5 is a microbially regulated peptide that promotes hepatic glucose production. *Molecular Metabolism*, **2016**, 5, 263-270	8.8	36
102	Age-Dependent Susceptibility to Enteropathogenic Escherichia coli (EPEC) Infection in Mice. *PLoS Pathogens*, **2016**, 12, e1005616	7.6	30
101	Microbiota-Produced Succinate Improves Glucose Homeostasis via Intestinal Gluconeogenesis. *Cell Metabolism*, **2016**, 24, 151-7	24.6	321
100	Diet-microbiota interactions as moderators of human metabolism. *Nature*, **2016**, 535, 56-64	50.4	1086
99	Oral treatment with improves insulin sensitivity in mice. *Npj Biofilms and Microbiomes*, **2016**, 2, 16009	8.2	101
98	Signals from the gut microbiota to distant organs in physiology and disease. *Nature Medicine*, **2016**, 22, 1079-1089	50.5	622
97	The gut microbiota and metabolic disease: current understanding and future perspectives. *Journal of Internal Medicine*, **2016**, 280, 339-49	10.8	150

96	Quantifying Diet-Induced Metabolic Changes of the Human Gut Microbiome. *Cell Metabolism*, **2015**, 22, 320-31	24.6	275
95	Roux-en-Y Gastric Bypass and Vertical Banded Gastroplasty Induce Long-Term Changes on the Human Gut Microbiome Contributing to Fat Mass Regulation. *Cell Metabolism*, **2015**, 22, 228-38	24.6	489
94	Farnesoid X receptor inhibits glucagon-like peptide-1 production by enteroendocrine L cells. *Nature Communications*, **2015**, 6, 7629	17.4	202
93	Dynamics and Stabilization of the Human Gut Microbiome during the First Year of Life. *Cell Host and Microbe*, **2015**, 17, 690-703	23.4	1367
92	Genetic Disruption of Protein Kinase STK25 Ameliorates Metabolic Defects in a Diet-Induced Type 2 Diabetes Model. *Diabetes*, **2015**, 64, 2791-804	0.9	37
91	A catalog of the mouse gut metagenome. *Nature Biotechnology*, **2015**, 33, 1103-8	44.5	295
90	Oral microbiota in patients with atherosclerosis. *Atherosclerosis*, **2015**, 243, 573-8	3.1	68
89	Normalization of Host Intestinal Mucus Layers Requires Long-Term Microbial Colonization. *Cell Host and Microbe*, **2015**, 18, 582-92	23.4	226
88	Linking Microbiota to Human Diseases: A Systems Biology Perspective. *Trends in Endocrinology and Metabolism*, **2015**, 26, 758-770	8.8	98
87	Crosstalk between Gut Microbiota and Dietary Lipids Aggravates WAT Inflammation through TLR Signaling. *Cell Metabolism*, **2015**, 22, 658-68	24.6	562
86	The short-chain fatty acid receptor, FFA2, contributes to gestational glucose homeostasis. *American Journal of Physiology - Endocrinology and Metabolism*, **2015**, 309, E840-51	6	42
85	Dietary Fiber-Induced Improvement in Glucose Metabolism Is Associated with Increased Abundance of Prevotella. *Cell Metabolism*, **2015**, 22, 971-82	24.6	748
84	Insights into the role of the microbiome in obesity and type 2 diabetes. *Diabetes Care*, **2015**, 38, 159-65	14.6	384
83	The gut microbiota modulates host amino acid and glutathione metabolism in mice. *Molecular Systems Biology*, **2015**, 11, 834	12.2	199
82	The Gut Microbiota Reduces Colonization of the Mesenteric Lymph Nodes and IL-12-Independent IFN-□Production During Salmonella Infection. *Frontiers in Cellular and Infection Microbiology*, **2015**, 5, 93	5.9	12
81	Site-specific programming of the host epithelial transcriptome by the gut microbiota. *Genome Biology*, **2015**, 16, 62	18.3	98
80	Drug the Bug!. *Cell*, **2015**, 163, 1565-6	56.2	7
79	The composition of the gut microbiota shapes the colon mucus barrier. *EMBO Reports*, **2015**, 16, 164-77	6.5	350

78	Roux-en-Y Gastric Bypass Surgery Induces Early Plasma Metabolomic and Lipidomic Alterations in Humans Associated with Diabetes Remission. *PLoS ONE*, **2015**, 10, e0126401	3.7	43
77	FXR is a molecular target for the effects of vertical sleeve gastrectomy. *Nature*, **2014**, 509, 183-8	50.4	692
76	Microbiota-generated metabolites promote metabolic benefits via gut-brain neural circuits. *Cell*, **2014**, 156, 84-96	56.2	1165
75	Intestinal permeability, gut-bacterial dysbiosis, and behavioral markers of alcohol-dependence severity. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E4485-93	11.5	455
74	Microbial modulation of insulin sensitivity. *Cell Metabolism*, **2014**, 20, 753-760	24.6	165
73	TRIF signaling drives homeostatic intestinal epithelial antimicrobial peptide expression. *Journal of Immunology*, **2014**, 193, 4223-34	5.3	25
72	Altered mucus glycosylation in core 1 O-glycan-deficient mice affects microbiota composition and intestinal architecture. *PLoS ONE*, **2014**, 9, e85254	3.7	89
71	The gut microbiota modulates glycaemic control and serum metabolite profiles in non-obese diabetic mice. *PLoS ONE*, **2014**, 9, e110359	3.7	33
70	Intestinal epithelial MyD88 is a sensor switching host metabolism towards obesity according to nutritional status. *Nature Communications*, **2014**, 5, 5648	17.4	160
69	Microbial-induced meprin β cleavage in MUC2 mucin and a functional CFTR channel are required to release anchored small intestinal mucus. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 12396-401	11.5	130
68	Gut Microbiota in Metabolic Syndrome **2014**, 171-181		1
67	Microbiome of prebiotic-treated mice reveals novel targets involved in host response during obesity. *ISME Journal*, **2014**, 8, 2116-30	11.9	376
66	The gut microbiota reduces leptin sensitivity and the expression of the obesity-suppressing neuropeptides proglucagon (Gcg) and brain-derived neurotrophic factor (Bdnf) in the central nervous system. *Endocrinology*, **2013**, 154, 3643-51	4.8	124
65	Microbial modulation of energy availability in the colon regulates intestinal transit. *Cell Host and Microbe*, **2013**, 14, 582-90	23.4	232
64	Assessing the human gut microbiota in metabolic diseases. *Diabetes*, **2013**, 62, 3341-9	0.9	289
63	The gut microbiota--masters of host development and physiology. *Nature Reviews Microbiology*, **2013**, 11, 227-38	22.2	1907
62	The Gut Microbiota **2013**, 3-24		14
61	Meat-metabolizing bacteria in atherosclerosis. *Nature Medicine*, **2013**, 19, 533-4	50.5	36

60	Gut metagenome in European women with normal, impaired and diabetic glucose control. *Nature*, **2013**, 498, 99-103	50.4	1715
59	Gut microbiota regulates bile acid metabolism by reducing the levels of tauro-beta-muricholic acid, a naturally occurring FXR antagonist. *Cell Metabolism*, **2013**, 17, 225-35	24.6	1204
58	The gut microbiota and mucosal homeostasis: colonized at birth or at adulthood, does it matter?. *Gut Microbes*, **2013**, 4, 118-24	8.8	80
57	Inflammation- and tumor-induced anorexia and weight loss require MyD88 in hematopoietic/myeloid cells but not in brain endothelial or neural cells. *FASEB Journal*, **2013**, 27, 1973-80	5.9	23
56	Defining a healthy human gut microbiome: current concepts, future directions, and clinical applications. *Cell Host and Microbe*, **2012**, 12, 611-22	23.4	448
55	Symptomatic atherosclerosis is associated with an altered gut metagenome. *Nature Communications*, **2012**, 3, 1245	17.4	666
54	Host remodeling of the gut microbiome and metabolic changes during pregnancy. *Cell*, **2012**, 150, 470-80	36.2	1117
53	Host responses to the human microbiome. *Nutrition Reviews*, **2012**, 70 Suppl 1, S14-7	6.4	55
52	Generating and Analyzing Germ-Free Mice. *Current Protocols in Mouse Biology*, **2012**, 2, 307-16	1.1	18
51	Functional interactions between the gut microbiota and host metabolism. *Nature*, **2012**, 489, 242-9	50.4	2716
50	Analysis of gut microbial regulation of host gene expression along the length of the gut and regulation of gut microbial ecology through MyD88. *Gut*, **2012**, 61, 1124-31	19.2	261
49	Tissue factor and PAR1 promote microbiota-induced intestinal vascular remodelling. *Nature*, **2012**, 483, 627-31	50.4	172
48	Infection regulates pro-resolving mediators that lower antibiotic requirements. *Nature*, **2012**, 484, 524-8	50.4	461
47	The gut microbiota regulates bone mass in mice. *Journal of Bone and Mineral Research*, **2012**, 27, 1357-67	6.3	412
46	Age-dependent TLR3 expression of the intestinal epithelium contributes to rotavirus susceptibility. *PLoS Pathogens*, **2012**, 8, e1002670	7.6	112
45	Expression of the blood-group-related glycosyltransferase B4galnt2 influences the intestinal microbiota in mice. *ISME Journal*, **2012**, 6, 1345-55	11.9	48
44	Lactobacillus reuteri prevents diet-induced obesity, but not atherosclerosis, in a strain dependent fashion in Apoe-/- mice. *PLoS ONE*, **2012**, 7, e46837	3.7	113
43	Gut-derived lipopolysaccharide augments adipose macrophage accumulation but is not essential for impaired glucose or insulin tolerance in mice. *Gut*, **2012**, 61, 1701-7	19.2	195

42	Intestinal permeability is associated with visceral adiposity in healthy women. *Obesity*, **2011**, 19, 2280-2	8	95
41	Targeting gut microbiota in obesity: effects of prebiotics and probiotics. *Nature Reviews Endocrinology*, **2011**, 7, 639-46	15.2	540
40	Effects of the gut microbiota on obesity and glucose homeostasis. *Trends in Endocrinology and Metabolism*, **2011**, 22, 117-23	8.8	210
39	Human oral, gut, and plaque microbiota in patients with atherosclerosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108 Suppl 1, 4592-8	11.5	679
38	Programming of host metabolism by the gut microbiota. *Annals of Nutrition and Metabolism*, **2011**, 58 Suppl 2, 44-52	4.5	159
37	Effects of gut microbiota on obesity and atherosclerosis via modulation of inflammation and lipid metabolism. *Journal of Internal Medicine*, **2010**, 268, 320-8	10.8	188
36	99th Dahlem conference on infection, inflammation and chronic inflammatory disorders: the normal gut microbiota in health and disease. *Clinical and Experimental Immunology*, **2010**, 160, 80-4	6.2	25
35	The gut microbiota modulates host energy and lipid metabolism in mice. *Journal of Lipid Research*, **2010**, 51, 1101-12	6.3	401
34	Microbial regulation of SAA3 expression in mouse colon and adipose tissue. *Gut Microbes*, **2010**, 1, 55-57	8.8	13
33	The endocannabinoid system links gut microbiota to adipogenesis. *Molecular Systems Biology*, **2010**, 6, 392	12.2	427
32	A role for the gut microbiota in energy harvesting?. *Gut*, **2010**, 59, 1589-90	19.2	24
31	Addressing the gut microbiome and implications for obesity. *International Dairy Journal*, **2010**, 20, 259-261	3.5	7
30	Coordinated regulation of the metabolome and lipidome at the host-microbial interface. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2010**, 1801, 240-5	5	53
29	Deletion of the gene encoding MyD88 protects from anorexia in a mouse tumor model. *Brain, Behavior, and Immunity*, **2010**, 24, 554-7	16.6	9
28	Angiopoietin-like 4 (ANGPTL4, fasting-induced adipose factor) is a direct glucocorticoid receptor target and participates in glucocorticoid-regulated triglyceride metabolism. *Journal of Biological Chemistry*, **2009**, 284, 25593-601	5.4	117
27	Changes in intestinal microflora in obesity: cause or consequence?. *Journal of Pediatric Gastroenterology and Nutrition*, **2009**, 48 Suppl 2, S56-7	2.8	36
26	Gut microbiota affects lens and retinal lipid composition. *Experimental Eye Research*, **2009**, 89, 604-7	3.7	31
25	Intestinal microbiota during infancy and its implications for obesity. *Journal of Pediatric Gastroenterology and Nutrition*, **2009**, 48, 249-56	2.8	126

24	Oxidation-specific epitopes are dominant targets of innate natural antibodies in mice and humans. *Journal of Clinical Investigation*, **2009**, 119, 1335-49	15.9	332
23	Regulation of serum amyloid A3 (SAA3) in mouse colonic epithelium and adipose tissue by the intestinal microbiota. *PLoS ONE*, **2009**, 4, e5842	3.7	99
22	Comparative analysis of human gut microbiota by barcoded pyrosequencing. *PLoS ONE*, **2008**, 3, e2836	3.7	742
21	Diet-induced obesity is linked to marked but reversible alterations in the mouse distal gut microbiome. *Cell Host and Microbe*, **2008**, 3, 213-23	23.4	2003
20	Effects of the gut microbiota on host adiposity are modulated by the short-chain fatty-acid binding G protein-coupled receptor, Gpr41. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 16767-72	11.5	1070
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