

# Benoit Chassaing

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

118  
papers

8,172  
citations

42  
h-index

89  
g-index

142  
ext. papers

10,666  
ext. citations

10.5  
avg, IF

6.49  
L-index

#	Paper	IF	Citations
118	Dietary emulsifiers impact the mouse gut microbiota promoting colitis and metabolic syndrome. <i>Nature</i> , <b>2015</b> , 519, 92-6	50.4	1016
117	Dextran sulfate sodium (DSS)-induced colitis in mice. <i>Current Protocols in Immunology</i> , <b>2014</b> , 104, 15.25.1-15.25.14	15.25	14
116	TLR5-mediated sensing of gut microbiota is necessary for antibody responses to seasonal influenza vaccination. <i>Immunity</i> , <b>2014</b> , 41, 478-492	32.3	326
115	Transient inability to manage proteobacteria promotes chronic gut inflammation in TLR5-deficient mice. <i>Cell Host and Microbe</i> , <b>2012</b> , 12, 139-52	23.4	325
114	The commensal microbiota and enteropathogens in the pathogenesis of inflammatory bowel diseases. <i>Gastroenterology</i> , <b>2011</b> , 140, 1720-28	13.3	324
113	Fecal lipocalin 2, a sensitive and broadly dynamic non-invasive biomarker for intestinal inflammation. <i>PLoS ONE</i> , <b>2012</b> , 7, e44328	3.7	297
112	Sex steroid deficiency-associated bone loss is microbiota dependent and prevented by probiotics. <i>Journal of Clinical Investigation</i> , <b>2016</b> , 126, 2049-63	15.9	265
111	Fiber-Mediated Nourishment of Gut Microbiota Protects against Diet-Induced Obesity by Restoring IL-22-Mediated Colonic Health. <i>Cell Host and Microbe</i> , <b>2018</b> , 23, 41-53.e4	23.4	249
110	Dietary emulsifiers directly alter human microbiota composition and gene expression ex vivo potentiating intestinal inflammation. <i>Gut</i> , <b>2017</b> , 66, 1414-1427	19.2	248
109	Innate and adaptive immunity interact to quench microbiome flagellar motility in the gut. <i>Cell Host and Microbe</i> , <b>2013</b> , 14, 571-81	23.4	236
108	Microbiota-liver axis in hepatic disease. <i>Hepatology</i> , <b>2014</b> , 59, 328-39	11.2	208
107	Dysregulated Microbial Fermentation of Soluble Fiber Induces Cholestatic Liver Cancer. <i>Cell</i> , <b>2018</b> , 175, 679-694.e22	56.2	205
106	Crohn disease--associated adherent-invasive E. coli bacteria target mouse and human Peyer's patches via long polar fimbriae. <i>Journal of Clinical Investigation</i> , <b>2011</b> , 121, 966-75	15.9	181
105	Intestinal epithelial cell toll-like receptor 5 regulates the intestinal microbiota to prevent low-grade inflammation and metabolic syndrome in mice. <i>Gastroenterology</i> , <b>2014</b> , 147, 1363-77.e17	13.3	161
104	Viral infection. Prevention and cure of rotavirus infection via TLR5/NLRC4-mediated production of IL-22 and IL-18. <i>Science</i> , <b>2014</b> , 346, 861-5	33.3	154
103	AIEC pathobiont instigates chronic colitis in susceptible hosts by altering microbiota composition. <i>Gut</i> , <b>2014</b> , 63, 1069-80	19.2	149
102	Antibiotic treatment suppresses rotavirus infection and enhances specific humoral immunity. <i>Journal of Infectious Diseases</i> , <b>2014</b> , 210, 171-82	7	134

101	Antigen sampling by intestinal M cells is the principal pathway initiating mucosal IgA production to commensal enteric bacteria. <i>Mucosal Immunology</i> , <b>2016</b> , 9, 907-16	9.2	129
100	Dietary Emulsifier-Induced Low-Grade Inflammation Promotes Colon Carcinogenesis. <i>Cancer Research</i> , <b>2017</b> , 77, 27-40	10.1	122
99	Microbiota-Dependent Hepatic Lipogenesis Mediated by Stearoyl CoA Desaturase 1 (SCD1) Promotes Metabolic Syndrome in TLR5-Deficient Mice. <i>Cell Metabolism</i> , <b>2015</b> , 22, 983-96	24.6	102
98	Gut microbiota, low-grade inflammation, and metabolic syndrome. <i>Toxicologic Pathology</i> , <b>2014</b> , 42, 49-53.	5.1	102
97	Lack of soluble fiber drives diet-induced adiposity in mice. <i>American Journal of Physiology - Renal Physiology</i> , <b>2015</b> , 309, G528-41	5.1	96
96	Neonatal selection by Toll-like receptor 5 influences long-term gut microbiota composition. <i>Nature</i> , <b>2018</b> , 560, 489-493	50.4	96
95	Cutting Edge: IL-36 Receptor Promotes Resolution of Intestinal Damage. <i>Journal of Immunology</i> , <b>2016</b> , 196, 34-8	5.3	88
94	Lipocalin 2 deficiency dysregulates iron homeostasis and exacerbates endotoxin-induced sepsis. <i>Journal of Immunology</i> , <b>2012</b> , 189, 1911-9	5.3	87
93	Microbiota fermentation-NLRP3 axis shapes the impact of dietary fibres on intestinal inflammation. <i>Gut</i> , <b>2019</b> , 68, 1801-1812	19.2	79
92	Mammalian gut immunity. <i>Biomedical Journal</i> , <b>2014</b> , 37, 246-58	7.1	66
91	When pathogenic bacteria meet the intestinal microbiota. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 371,	5.8	65
90	Intestinal dysbiosis contributes to the delayed gastrointestinal transit in high-fat diet fed mice. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2016</b> , 2, 328-339	7.9	64
89	Hepatocyte Toll-Like Receptor 5 Promotes Bacterial Clearance and Protects Mice Against High-Fat Diet-Induced Liver Disease. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2016</b> , 2, 584-604	7.9	63
88	Antibacterial Weapons: Targeted Destruction in the Microbiota. <i>Trends in Microbiology</i> , <b>2018</b> , 26, 329-338.	2.4	62
87	The intestinal microbiota regulates host cholesterol homeostasis. <i>BMC Biology</i> , <b>2019</b> , 17, 94	7.3	60
86	Colonic Microbiota Encroachment Correlates With Dysglycemia in Humans. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2017</b> , 4, 205-221	7.9	59
85	Experimental models to study intestinal microbes-mucus interactions in health and disease. <i>FEMS Microbiology Reviews</i> , <b>2019</b> , 43, 457-489	15.1	58
84	Segmented Filamentous Bacteria Prevent and Cure Rotavirus Infection. <i>Cell</i> , <b>2019</b> , 179, 644-658.e13	56.2	57

83	Microbiota-inducible Innate Immune, Siderophore Binding Protein Lipocalin 2 is Critical for Intestinal Homeostasis. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2016</b> , 2, 482-498.e6	7.9	56
82	Bolus Weekly Vitamin D3 Supplementation Impacts Gut and Airway Microbiota in Adults With Cystic Fibrosis: A Double-Blind, Randomized, Placebo-Controlled Clinical Trial. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2018</b> , 103, 564-574	5.6	51
81	Swimming Motility Mediates the Formation of Neutrophil Extracellular Traps Induced by Flagellated <i>Pseudomonas aeruginosa</i> . <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005987	7.6	50
80	Interactions with M cells and macrophages as key steps in the pathogenesis of enterohemorrhagic <i>Escherichia coli</i> infections. <i>PLoS ONE</i> , <b>2011</b> , 6, e23594	3.7	43
79	Supplementation of Low- and High-fat Diets with Fermentable Fiber Exacerbates Severity of DSS-induced Acute Colitis. <i>Inflammatory Bowel Diseases</i> , <b>2017</b> , 23, 1133-1143	4.5	42
78	Bile salts induce long polar fimbriae expression favouring Crohn's disease-associated adherent-invasive <i>Escherichia coli</i> interaction with Peyer's patches. <i>Environmental Microbiology</i> , <b>2013</b> , 15, 355-71	5.2	42
77	Differential role of lipocalin 2 during immune complex-mediated acute and chronic inflammation in mice. <i>Arthritis and Rheumatism</i> , <b>2013</b> , 65, 1064-73		42
76	Western diet induces colonic nitroergic myenteric neuropathy and dysmotility in mice via saturated fatty acid- and lipopolysaccharide-induced TLR4 signalling. <i>Journal of Physiology</i> , <b>2017</b> , 595, 1831-1846	3.9	41
75	Flagellin-elicited adaptive immunity suppresses flagellated microbiota and vaccinates against chronic inflammatory diseases. <i>Nature Communications</i> , <b>2019</b> , 10, 5650	17.4	41
74	The microbiota influences cell death and microglial colonization in the perinatal mouse brain. <i>Brain, Behavior, and Immunity</i> , <b>2018</b> , 67, 218-229	16.6	39
73	Acute and repeated exposure to social stress reduces gut microbiota diversity in Syrian hamsters. <i>Behavioural Brain Research</i> , <b>2018</b> , 345, 39-48	3.4	38
72	A <i>Listeria monocytogenes</i> Bacteriocin Can Target the Commensal <i>Prevotella copri</i> and Modulate Intestinal Infection. <i>Cell Host and Microbe</i> , <b>2019</b> , 26, 691-701.e5	23.4	37
71	Dietary emulsifiers consumption alters anxiety-like and social-related behaviors in mice in a sex-dependent manner. <i>Scientific Reports</i> , <b>2019</b> , 9, 172	4.9	36
70	How diet can impact gut microbiota to promote or endanger health. <i>Current Opinion in Gastroenterology</i> , <b>2017</b> , 33, 417-421	3	35
69	Tryptophan: A gut microbiota-derived metabolites regulating inflammation. <i>World Journal of Gastrointestinal Pharmacology and Therapeutics</i> , <b>2017</b> , 8, 7-9	3	33
68	Gut microbiota drives metabolic disease in immunologically altered mice. <i>Advances in Immunology</i> , <b>2012</b> , 116, 93-112	5.6	32
67	First victim, later aggressor: How the intestinal microbiota drives the pro-inflammatory effects of dietary emulsifiers?. <i>Gut Microbes</i> , <b>2018</b> , 1-4	8.8	31
66	GipA Factor Supports Colonization of Peyer's Patches by Crohn's Disease-associated <i>Escherichia Coli</i> . <i>Inflammatory Bowel Diseases</i> , <b>2016</b> , 22, 68-81	4.5	30

65	Host-derived fecal microRNAs can indicate gut microbiota healthiness and ability to induce inflammation. <i>Theranostics</i> , <b>2019</b> , 9, 4542-4557	12.1	28
64	Role of vitamin D on gut microbiota in cystic fibrosis. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2018</b> , 175, 82-87	5.1	27
63	Has provoking microbiota aggression driven the obesity epidemic?. <i>BioEssays</i> , <b>2016</b> , 38, 122-8	4.1	25
62	Dietary Emulsifiers Directly Impact Adherent-Invasive E. coli Gene Expression to Drive Chronic Intestinal Inflammation. <i>Cell Reports</i> , <b>2020</b> , 33, 108229	10.6	22
61	Adaptation of adherent-invasive to gut environment: Impact on flagellum expression and bacterial colonization ability. <i>Gut Microbes</i> , <b>2020</b> , 11, 364-380	8.8	22
60	Amelioration of metabolic syndrome by metformin associates with reduced indices of low-grade inflammation independently of the gut microbiota. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2019</b> , 317, E1121-E1130	6	21
59	Erythroid differentiation regulator-1 induced by microbiota in early life drives intestinal stem cell proliferation and regeneration. <i>Nature Communications</i> , <b>2020</b> , 11, 513	17.4	21
58	Policing of gut microbiota by the adaptive immune system. <i>BMC Medicine</i> , <b>2016</b> , 14, 27	11.4	21
57	Linking genetic variation in human Toll-like receptor 5 genes to the gut microbiome's potential to cause inflammation. <i>Immunology Letters</i> , <b>2014</b> , 162, 3-9	4.1	21
56	The B pathway is involved in biofilm formation by Crohn's disease-associated adherent-invasive Escherichia coli. <i>Journal of Bacteriology</i> , <b>2013</b> , 195, 76-84	3.5	21
55	"Western Diet"-Induced Adipose Inflammation Requires a Complex Gut Microbiota. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2020</b> , 9, 313-333	7.9	21
54	Identification of Inner Mucus-Associated Bacteria by Laser Capture Microdissection. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2019</b> , 7, 157-160	7.9	20
53	Vasopressin deletion is associated with sex-specific shifts in the gut microbiome. <i>Gut Microbes</i> , <b>2018</b> , 9, 13-25	8.8	20
52	Impact of food additives on the gut-brain axis. <i>Physiology and Behavior</i> , <b>2018</b> , 192, 173-176	3.5	19
51	Direct impact of commonly used dietary emulsifiers on human gut microbiota. <i>Microbiome</i> , <b>2021</b> , 9, 66	16.6	19
50	Enterohemorrhagic Escherichia coli pathogenesis: role of Long polar fimbriae in Peyer's patches interactions. <i>Scientific Reports</i> , <b>2017</b> , 7, 44655	4.9	18
49	Effects of gut-derived endotoxin on anxiety-like and repetitive behaviors in male and female mice. <i>Biology of Sex Differences</i> , <b>2018</b> , 9, 7	9.3	18
48	Commensal epitopes drive differentiation of colonic T. <i>Science Advances</i> , <b>2020</b> , 6, eaaz3186	14.3	18

47	Toxin-positive latently infect mouse colonies and protect against highly pathogenic. <i>Gut</i> , <b>2018</b> , 67, 860-874	17.2	17
46	MyD88-mediated TLR signaling protects against acute rotavirus infection while inflammasome cytokines direct Ab response. <i>Innate Immunity</i> , <b>2015</b> , 21, 416-28	2.7	15
45	Analysis of the $\beta$ regulon in Crohn's disease-associated Escherichia coli revealed involvement of the waaWVL operon in biofilm formation. <i>Journal of Bacteriology</i> , <b>2015</b> , 197, 1451-65	3.5	15
44	Randomized controlled-feeding study of dietary emulsifier carboxymethylcellulose reveals detrimental impacts on the gut microbiota and metabolome. <i>Gastroenterology</i> , <b>2021</b> ,	13.3	15
43	Emulsifiers Impact Colonic Length in Mice and Emulsifier Restriction is Feasible in People with Crohn's Disease. <i>Nutrients</i> , <b>2020</b> , 12,	6.7	14
42	Enhanced E. coli LF82 Translocation through the Follicle-associated Epithelium in Crohn's Disease is Dependent on Long Polar Fimbriae and CEACAM6 expression, and Increases Paracellular Permeability. <i>Journal of Crohn's and Colitis</i> , <b>2020</b> , 14, 216-229	1.5	14
41	Ingestion of probiotic (Lactobacillus helveticus and Bifidobacterium longum) alters intestinal microbial structure and behavioral expression following social defeat stress. <i>Scientific Reports</i> , <b>2021</b> , 11, 3763	4.9	14
40	Mice harboring pathobiont-free microbiota do not develop intestinal inflammation that normally results from an innate immune deficiency. <i>PLoS ONE</i> , <b>2018</b> , 13, e0195310	3.7	14
39	Microbiota and metabolism: what's new in 2018?. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2018</b> , 315, E1-E6	6	13
38	Multi-omics analyses of the ulcerative colitis gut microbiome link Bacteroides vulgatus proteases with disease severity.. <i>Nature Microbiology</i> , <b>2022</b> ,	26.6	13
37	Host/microbiota interactions in health and diseases-Time for mucosal microbiology!. <i>Mucosal Immunology</i> , <b>2021</b> , 14, 1006-1016	9.2	13
36	Food Additive Emulsifiers and Their Impact on Gut Microbiome, Permeability, and Inflammation: Mechanistic Insights in Inflammatory Bowel Disease. <i>Journal of Crohn's and Colitis</i> , <b>2021</b> , 15, 1068-1079	1.5	12
35	Chronic Inflammatory Diseases: Are We Ready for Microbiota-based Dietary Intervention?. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2019</b> , 8, 61-71	7.9	11
34	Contribution of Mesenteric Lymph Nodes and GALT to the Intestinal Foxp3+ Regulatory T-Cell Compartment. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2016</b> , 2, 274-280	7.9	9
33	Pathobiont hypnotises enterocytes to promote tumour development. <i>Gut</i> , <b>2014</b> , 63, 1837-8	19.2	8
32	Impact of a high-fat diet on the fatty acid composition of the retina. <i>Experimental Eye Research</i> , <b>2020</b> , 196, 108059	3.7	8
31	Consumption of Select Dietary Emulsifiers Exacerbates the Development of Spontaneous Intestinal Adenoma. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	8
30	Ectopic Expression of Innate Immune Protein, Lipocalin-2, in Lactococcus lactis Protects Against Gut and Environmental Stressors. <i>Inflammatory Bowel Diseases</i> , <b>2017</b> , 23, 1120-1132	4.5	7

29	Associations of the Fecal Microbial Proteome Composition and Proneness to Diet-induced Obesity. <i>Molecular and Cellular Proteomics</i> , <b>2019</b> , 18, 1864-1879	7.6	7
28	High-Intensity Interval Training and Linolenic Acid Supplementation Improve DHA Conversion and Increase the Abundance of Gut Mucosa-Associated Bacteria. <i>Nutrients</i> , <b>2021</b> , 13,	6.7	7
27	Fungal lysozyme leverages the gut microbiota to curb DSS-induced colitis. <i>Gut Microbes</i> , <b>2021</b> , 13, 1988888	6	
26	IL-22-induced cell extrusion and IL-18-induced cell death prevent and cure rotavirus infection. <i>Science Immunology</i> , <b>2020</b> , 5,	2.8	6
25	Organ-level protein networks as a reference for the host effects of the microbiome. <i>Genome Research</i> , <b>2020</b> , 30, 276-286	9.7	5
24	Insights on the impact of diet-mediated microbiota alterations on immunity and diseases. <i>American Journal of Transplantation</i> , <b>2018</b> , 18, 550-555	8.7	5
23	Inulin Fermentable Fiber Ameliorates Type I Diabetes via IL22 and Short-Chain Fatty Acids in Experimental Models. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2021</b> , 12, 983-1000	7.9	5
22	Lipocalin 2 deficiency-induced gut microbiota dysbiosis evokes metabolic syndrome in aged mice. <i>Physiological Genomics</i> , <b>2020</b> , 52, 314-321	3.6	4
21	In Memoriam, Arlette Darfeuille-Michaud, PhD. <i>Gut</i> , <b>2014</b> , 63, 1681-2	19.2	4
20	Beneficial Effects of Natural Mineral Waters on Intestinal Inflammation and the Mucosa-Associated Microbiota. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	4
19	Dietary fat and low fiber in purified diets differently impact the gut-liver axis to promote obesity-linked metabolic impairments. <i>American Journal of Physiology - Renal Physiology</i> , <b>2021</b> , 320, G1014-G1033	5.1	4
18	Critical Role of Innate Immunity to Flagellin in the Absence of Adaptive Immunity. <i>Journal of Infectious Diseases</i> , <b>2021</b> , 223, 1478-1487	7	4
17	In Memoriam, Arlette Darfeuille-Michaud, PhD. <i>Gastroenterology</i> , <b>2014</b> , 147, 943-4	13.3	3
16	Social overcrowding impacts gut microbiota, promoting stress, inflammation, and dysglycemia. <i>Gut Microbes</i> , <b>2021</b> , 13, 2000275	8.8	3
15	The TOTUM-63 Supplement and High-Intensity Interval Training Combination Limits Weight Gain, Improves Glycemic Control, and Influences the Composition of Gut Mucosa-Associated Bacteria in Rats on a High Fat Diet. <i>Nutrients</i> , <b>2021</b> , 13,	6.7	3
14	First Encounters: Effects of the Microbiota on Neonatal Brain Development. <i>Frontiers in Cellular Neuroscience</i> , <b>2021</b> , 15, 682505	6.1	3
13	Specific targeting of intestinal Prevotella copri by a Listeria monocytogenes bacteriocin		2
12	Soluble Fiber Inulin Consumption Limits Alterations of the Gut Microbiota and Hepatic Fatty Acid Metabolism Caused by High-Fat Diet. <i>Nutrients</i> , <b>2021</b> , 13,	6.7	2

11	Genome Sequence of a Toxin-Positive Strain Isolated from Murine Feces. <i>Genome Announcements</i> , <b>2017</b> , 5,		1
10	IL-22 induced cell extrusion and IL-18-induced pyroptosis prevent and cure rotavirus infection		1
9	Impact of PepT1 deletion on microbiota composition and colitis requires multiple generations. <i>Npj Biofilms and Microbiomes</i> , <b>2020</b> , 6, 27	8.2	1
8	Tolerogenic Dendritic Cells Shape a Transmissible Gut Microbiota That Protects From Metabolic Diseases. <i>Diabetes</i> , <b>2021</b> , 70, 2067-2080	0.9	1
7	Gut Microbiome and Metabolism <b>2018</b> , 775-793		1
6	The Intestinal Microbiota: Our Best Frenemy in Radiation-Induced Damages?. <i>Cell Host and Microbe</i> , <b>2021</b> , 29, 7-9	23.4	1
5	Beneficial Effects of Linseed Supplementation on Gut Mucosa-Associated Microbiota in a Physically Active Mouse Model of Crohn's Disease. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23, 5891	6.3	1
4	Dietary emulsifier consumption alters gene expression in the amygdala and paraventricular nucleus of the hypothalamus in mice. <i>Scientific Reports</i> , <b>2022</b> , 12,	4.9	1
3	The postnatal window is critical for the development of sex-specific metabolic and gut microbiota outcomes in offspring. <i>Gut Microbes</i> , <b>2021</b> , 13, 2004070	8.8	0
2	Gut barrier dysfunction and type 2 immunity: Implications for compulsive behavior. <i>Medical Hypotheses</i> , <b>2022</b> , 161, 110799	3.8	0
1	Use of Gnotobiotic Mice in the Study of Metabolic Syndrome <b>2017</b> , 385-390		