

Benoit Chassaing

List of Publications by Year in descending order

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Version: 2024-02-01

124
papers

12,572
citations

36203

51
h-index

26548

107
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142
all docs

142
docs citations

142
times ranked

17311
citing authors

#	ARTICLE	IF	CITATIONS
1	Dietary emulsifiers impact the mouse gut microbiota promoting colitis and metabolic syndrome. <i>Nature</i> , 2015, 519, 92-96.	13.7	1,457
2	Dextran Sulfate Sodium (DSS)-Induced Colitis in Mice. <i>Current Protocols in Immunology</i> , 2014, 104, 15.25.1-15.25.14.	3.6	1,195
3	Transient Inability to Manage Proteobacteria Promotes Chronic Gut Inflammation in TLR5-Deficient Mice. <i>Cell Host and Microbe</i> , 2012, 12, 139-152.	5.1	459
4	TLR5-Mediated Sensing of Gut Microbiota Is Necessary for Antibody Responses to Seasonal Influenza Vaccination. <i>Immunity</i> , 2014, 41, 478-492.	6.6	444
5	Fecal Lipocalin 2, a Sensitive and Broadly Dynamic Non-Invasive Biomarker for Intestinal Inflammation. <i>PLoS ONE</i> , 2012, 7, e44328.	1.1	427
6	Sex steroid deficiency-associated bone loss is microbiota dependent and prevented by probiotics. <i>Journal of Clinical Investigation</i> , 2016, 126, 2049-2063.	3.9	416
7	Fiber-Mediated Nourishment of Gut Microbiota Protects against Diet-Induced Obesity by Restoring IL-22-Mediated Colonic Health. <i>Cell Host and Microbe</i> , 2018, 23, 41-53.e4.	5.1	410
8	The Commensal Microbiota and Enteropathogens in the Pathogenesis of Inflammatory Bowel Diseases. <i>Gastroenterology</i> , 2011, 140, 1720-1728.e3.	0.6	390
9	Dietary emulsifiers directly alter human microbiota composition and gene expression ex vivo potentiating intestinal inflammation. <i>Gut</i> , 2017, 66, 1414-1427.	6.1	380
10	Dysregulated Microbial Fermentation of Soluble Fiber Induces Cholestatic Liver Cancer. <i>Cell</i> , 2018, 175, 679-694.e22.	13.5	344
11	Innate and Adaptive Immunity Interact to Quench Microbiome Flagellar Motility in the Gut. <i>Cell Host and Microbe</i> , 2013, 14, 571-581.	5.1	321
12	Microbiota-liver axis in hepatic disease. <i>Hepatology</i> , 2014, 59, 328-339.	3.6	272
13	Intestinal Epithelial Cell Toll-like Receptor 5 Regulates the Intestinal Microbiota to Prevent Low-Grade Inflammation and Metabolic Syndrome in Mice. <i>Gastroenterology</i> , 2014, 147, 1363-1377.e17.	0.6	231
14	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> , 2011, 121, 966-975.	3.9	227
15	Antigen sampling by intestinal M cells is the principal pathway initiating mucosal IgA production to commensal enteric bacteria. <i>Mucosal Immunology</i> , 2016, 9, 907-916.	2.7	195
16	Prevention and cure of rotavirus infection via TLR5/NLRC4-mediated production of IL-22 and IL-18. <i>Science</i> , 2014, 346, 861-865.	6.0	188
17	Dietary Emulsifier-Induced Low-Grade Inflammation Promotes Colon Carcinogenesis. <i>Cancer Research</i> , 2017, 77, 27-40.	0.4	187
18	AIEC pathobiont instigates chronic colitis in susceptible hosts by altering microbiota composition. <i>Gut</i> , 2014, 63, 1069-1080.	6.1	182

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19	Antibiotic Treatment Suppresses Rotavirus Infection and Enhances Specific Humoral Immunity. <i>Journal of Infectious Diseases</i> , 2014, 210, 171-182.	1.9	182
20	Microbiota fermentation-NLRP3 axis shapes the impact of dietary fibres on intestinal inflammation. <i>Gut</i> , 2019, 68, 1801-1812.	6.1	157
21	Neonatal selection by Toll-like receptor 5 influences long-term gut microbiota composition. <i>Nature</i> , 2018, 560, 489-493.	13.7	153
22	Gut Microbiota, Low-grade Inflammation, and Metabolic Syndrome. <i>Toxicologic Pathology</i> , 2014, 42, 49-53.	0.9	137
23	Microbiota-Dependent Hepatic Lipogenesis Mediated by Stearoyl CoA Desaturase 1 (SCD1) Promotes Metabolic Syndrome in TLR5-Deficient Mice. <i>Cell Metabolism</i> , 2015, 22, 983-996.	7.2	129
24	Lack of soluble fiber drives diet-induced adiposity in mice. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 309, G528-G541.	1.6	128
25	The intestinal microbiota regulates host cholesterol homeostasis. <i>BMC Biology</i> , 2019, 17, 94.	1.7	125
26	Experimental models to study intestinal microbesâ€™mucus interactions in health and disease. <i>FEMS Microbiology Reviews</i> , 2019, 43, 457-489.	3.9	114
27	Lipocalin 2 Deficiency Dysregulates Iron Homeostasis and Exacerbates Endotoxin-Induced Sepsis. <i>Journal of Immunology</i> , 2012, 189, 1911-1919.	0.4	111
28	Randomized Controlled-Feeding Study of Dietary Emulsifier Carboxymethylcellulose Reveals Detrimental Impacts on the Gut Microbiota and Metabolome. <i>Gastroenterology</i> , 2022, 162, 743-756.	0.6	111
29	Multi-omics analyses of the ulcerative colitis gut microbiome link <i>Bacteroides vulgatus</i> proteases with disease severity. <i>Nature Microbiology</i> , 2022, 7, 262-276.	5.9	110
30	Cutting Edge: IL-36 Receptor Promotes Resolution of Intestinal Damage. <i>Journal of Immunology</i> , 2016, 196, 34-38.	0.4	108
31	Direct impact of commonly used dietary emulsifiers on human gut microbiota. <i>Microbiome</i> , 2021, 9, 66.	4.9	108
32	Antibacterial Weapons: Targeted Destruction in the Microbiota. <i>Trends in Microbiology</i> , 2018, 26, 329-338.	3.5	106
33	Segmented Filamentous Bacteria Prevent and Cure Rotavirus Infection. <i>Cell</i> , 2019, 179, 644-658.e13.	13.5	106
34	Mammalian gut immunity. <i>Biomedical Journal</i> , 2014, 37, 246.	1.4	104
35	Intestinal Dysbiosis Contributes to the Delayed Gastrointestinal Transit in High-Fat Diet Fed Mice. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2016, 2, 328-339.	2.3	101
36	When pathogenic bacteria meet the intestinal microbiota. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150504.	1.8	100

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37	Microbiota-Inducible Innate Immune Siderophore Binding Protein Lipocalin 2 Is Critical for Intestinal Homeostasis. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2016, 2, 482-498.e6.	2.3	84
38	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> , 2018, 103, 564-574.	1.8	82
39	Supplementation of Low- and High-fat Diets with Fermentable Fiber Exacerbates Severity of DSS-induced Acute Colitis. <i>Inflammatory Bowel Diseases</i> , 2017, 23, 1133-1143.	0.9	80
40	Colonic Microbiota Encroachment Correlates With Dysglycemia in Humans. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2017, 4, 205-221.	2.3	79
41	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> , 2016, 2, 584-604.	2.3	76
42	Swimming Motility Mediates the Formation of Neutrophil Extracellular Traps Induced by Flagellated <i>Pseudomonas aeruginosa</i> . <i>PLoS Pathogens</i> , 2016, 12, e1005987.	2.1	70
43	A <i>Listeria monocytogenes</i> Bacteriocin Can Target the Commensal <i>Prevotella copri</i> and Modulate Intestinal Infection. <i>Cell Host and Microbe</i> , 2019, 26, 691-701.e5.	5.1	66
44	Dietary Emulsifiers Directly Impact Adherent-Invasive <i>E. Coli</i> Gene Expression to Drive Chronic Intestinal Inflammation. <i>Cell Reports</i> , 2020, 33, 108229.	2.9	66
45	Flagellin-elicited adaptive immunity suppresses flagellated microbiota and vaccinates against chronic inflammatory diseases. <i>Nature Communications</i> , 2019, 10, 5650.	5.8	64
46	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> , 2017, 595, 1831-1846.	1.3	63
47	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> , 2021, 15, 1068-1079.	0.6	63
48	Differential Role of Lipocalin 2 During Immune Complex-Mediated Acute and Chronic Inflammation in Mice. <i>Arthritis and Rheumatism</i> , 2013, 65, 1064-1073.	6.7	60
49	Dietary emulsifiers consumption alters anxiety-like and social-related behaviors in mice in a sex-dependent manner. <i>Scientific Reports</i> , 2019, 9, 172.	1.6	60
50	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> , 2013, 15, 355-371.	1.8	58
51	Acute and repeated exposure to social stress reduces gut microbiota diversity in Syrian hamsters. <i>Behavioural Brain Research</i> , 2018, 345, 39-48.	1.2	57
52	First victim, later aggressor: How the intestinal microbiota drives the pro-inflammatory effects of dietary emulsifiers?. <i>Gut Microbes</i> , 2018, 9, 289-291.	4.3	55
53	The microbiota influences cell death and microglial colonization in the perinatal mouse brain. <i>Brain, Behavior, and Immunity</i> , 2018, 67, 218-229.	2.0	54
54	Tryptophan: A gut microbiota-derived metabolites regulating inflammation. <i>World Journal of Gastrointestinal Pharmacology and Therapeutics</i> , 2017, 8, 7.	0.6	52

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55	Host-derived fecal microRNAs can indicate gut microbiota healthiness and ability to induce inflammation. <i>Theranostics</i> , 2019, 9, 4542-4557.	4.6	52
56	Interactions with M Cells and Macrophages as Key Steps in the Pathogenesis of Enterohemorrhagic <i>Escherichia coli</i> Infections. <i>PLoS ONE</i> , 2011, 6, e23594.	1.1	51
57	Host/microbiota interactions in health and diseases—Time for mucosal microbiology!. <i>Mucosal Immunology</i> , 2021, 14, 1006-1016.	2.7	51
58	Adaptation of adherent-invasive <i>E. coli</i> to gut environment: Impact on flagellum expression and bacterial colonization ability. <i>Gut Microbes</i> , 2020, 11, 364-380.	4.3	49
59	“Western Diet”-Induced Adipose Inflammation Requires a Complex Gut Microbiota. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2020, 9, 313-333.	2.3	45
60	Commensal epitopes drive differentiation of colonic T _{regs} . <i>Science Advances</i> , 2020, 6, eaaz3186.	4.7	44
61	GipA Factor Supports Colonization of Peyer’s Patches by Crohn’s Disease-associated <i>Escherichia Coli</i> . <i>Inflammatory Bowel Diseases</i> , 2016, 22, 68-81.	0.9	41
62	How diet can impact gut microbiota to promote or endanger health. <i>Current Opinion in Gastroenterology</i> , 2017, 33, 417-421.	1.0	41
63	Gut Microbiota Drives Metabolic Disease in Immunologically Altered Mice. <i>Advances in Immunology</i> , 2012, 116, 93-112.	1.1	40
64	Role of vitamin D on gut microbiota in cystic fibrosis. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2018, 175, 82-87.	1.2	38
65	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> , 2019, 317, E1121-E1130.	1.8	38
66	Erythroid differentiation regulator-1 induced by microbiota in early life drives intestinal stem cell proliferation and regeneration. <i>Nature Communications</i> , 2020, 11, 513.	5.8	38
67	Emulsifiers Impact Colonic Length in Mice and Emulsifier Restriction is Feasible in People with Crohn’s Disease. <i>Nutrients</i> , 2020, 12, 2827.	1.7	34
68	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> , 2021, 12, 983-1000.	2.3	33
69	The <i>Ynf</i> ^E Pathway Is Involved in Biofilm Formation by Crohn’s Disease-Associated Adherent-Invasive <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2013, 195, 76-84.	1.0	32
70	Has provoking microbiota aggression driven the obesity epidemic?. <i>BioEssays</i> , 2016, 38, 122-128.	1.2	31
71	Ingestion of probiotic (<i>Lactobacillus helveticus</i> and <i>Bifidobacterium longum</i>) alters intestinal microbial structure and behavioral expression following social defeat stress. <i>Scientific Reports</i> , 2021, 11, 3763.	1.6	31
72	Enterohemorrhagic <i>Escherichia coli</i> pathogenesis: role of Long polar fimbriae in Peyer’s patches interactions. <i>Scientific Reports</i> , 2017, 7, 44655.	1.6	30

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73	Policing of gut microbiota by the adaptive immune system. <i>BMC Medicine</i> , 2016, 14, 27.	2.3	29
74	Fungal lysozyme leverages the gut microbiota to curb DSS-induced colitis. <i>Gut Microbes</i> , 2021, 13, 1988836.	4.3	29
75	Effects of gut-derived endotoxin on anxiety-like and repetitive behaviors in male and female mice. <i>Biology of Sex Differences</i> , 2018, 9, 7.	1.8	27
76	Identification of Inner Mucus-Associated Bacteria by Laser Capture Microdissection. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2019, 7, 157-160.	2.3	27
77	IL-22-induced cell extrusion and IL-18-induced cell death prevent and cure rotavirus infection. <i>Science Immunology</i> , 2020, 5, .	5.6	27
78	Linking genetic variation in human Toll-like receptor 5 genes to the gut microbiome's potential to cause inflammation. <i>Immunology Letters</i> , 2014, 162, 3-9.	1.1	26
79	Vasopressin deletion is associated with sex-specific shifts in the gut microbiome. <i>Gut Microbes</i> , 2018, 9, 13-25.	4.3	26
80	Toxin-positive <i>Clostridium difficile</i> latently infect mouse colonies and protect against highly pathogenic <i>C. difficile</i> . <i>Gut</i> , 2018, 67, 860-871.	6.1	25
81	Mice harboring pathobiont-free microbiota do not develop intestinal inflammation that normally results from an innate immune deficiency. <i>PLoS ONE</i> , 2018, 13, e0195310.	1.1	23
82	MyD88-mediated TLR signaling protects against acute rotavirus infection while inflammasome cytokines direct Ab response. <i>Innate Immunity</i> , 2015, 21, 416-428.	1.1	22
83	Impact of food additives on the gut-brain axis. <i>Physiology and Behavior</i> , 2018, 192, 173-176.	1.0	22
84	Enhanced <i>E. coli</i> 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> , 2020, 14, 216-229.	0.6	21
85	Analysis of the σ^E Regulon in Crohn's Disease-Associated <i>Escherichia coli</i> Revealed Involvement of the <i>waaW</i> Operon in Biofilm Formation. <i>Journal of Bacteriology</i> , 2015, 197, 1451-1465.	1.0	20
86	Microbiota and metabolism: what's new in 2018?. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E1-E6.	1.8	19
87	Associations of the Fecal Microbial Proteome Composition and Proneness to Diet-induced Obesity. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 1864-1879.	2.5	19
88	Impact of a high-fat diet on the fatty acid composition of the retina. <i>Experimental Eye Research</i> , 2020, 196, 108059.	1.2	19
89	Maltodextrin, Modern Stressor of the Intestinal Environment. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2019, 7, 475-476.	2.3	18
90	Chronic Inflammatory Diseases: Are We Ready for Microbiota-based Dietary Intervention?. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2019, 8, 61-71.	2.3	16

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91	Consumption of Select Dietary Emulsifiers Exacerbates the Development of Spontaneous Intestinal Adenoma. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2602.	1.8	16
92	Soluble Fiber Inulin Consumption Limits Alterations of the Gut Microbiota and Hepatic Fatty Acid Metabolism Caused by High-Fat Diet. <i>Nutrients</i> , 2021, 13, 1037.	1.7	16
93	Contribution of Mesenteric Lymph Nodes and GALT to the Intestinal Foxp3+ Regulatory T-Cell Compartment. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2016, 2, 274-280.e3.	2.3	14
94	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> , 2021, 13, 1569.	1.7	13
95	First Encounters: Effects of the Microbiota on Neonatal Brain Development. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 682505.	1.8	13
96	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> , 2021, 320, G1014-G1033.	1.6	12
97	Social overcrowding impacts gut microbiota, promoting stress, inflammation, and dysglycemia. <i>Gut Microbes</i> , 2021, 13, 2000275.	4.3	12
98	Pathobiont hypnotises enterocytes to promote tumour development. <i>Gut</i> , 2014, 63, 1837-1838.	6.1	11
99	Ectopic Expression of Innate Immune Protein, Lipocalin-2, in <i>Lactococcus lactis</i> Protects Against Gut and Environmental Stressors. <i>Inflammatory Bowel Diseases</i> , 2017, 23, 1120-1132.	0.9	11
100	High-Intensity Interval Training and $\hat{\iota}$ -Linolenic Acid Supplementation Improve DHA Conversion and Increase the Abundance of Gut Mucosa-Associated <i>Oscillospira</i> Bacteria. <i>Nutrients</i> , 2021, 13, 788.	1.7	11
101	Critical Role of Innate Immunity to Flagellin in the Absence of Adaptive Immunity. <i>Journal of Infectious Diseases</i> , 2021, 223, 1478-1487.	1.9	10
102	Beneficial Effects of Natural Mineral Waters on Intestinal Inflammation and the Mucosa-Associated Microbiota. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4336.	1.8	10
103	Not so Splendid for the Gut Microbiota. <i>Inflammatory Bowel Diseases</i> , 2018, 24, 1055-1056.	0.9	8
104	Lipocalin 2 deficiency-induced gut microbiota dysbiosis evokes metabolic syndrome in aged mice. <i>Physiological Genomics</i> , 2020, 52, 314-321.	1.0	8
105	Tolerogenic Dendritic Cells Shape a Transmissible Gut Microbiota That Protects From Metabolic Diseases. <i>Diabetes</i> , 2021, 70, 2067-2080.	0.3	7
106	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> , 2022, 23, 5891.	1.8	7
107	Dietary emulsifier consumption alters gene expression in the amygdala and paraventricular nucleus of the hypothalamus in mice. <i>Scientific Reports</i> , 2022, 12, .	1.6	7
108	Insights on the impact of diet-mediated microbiota alterations on immunity and diseases. <i>American Journal of Transplantation</i> , 2018, 18, 550-555.	2.6	6

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109	Impact of PepT1 deletion on microbiota composition and colitis requires multiple generations. <i>Npj Biofilms and Microbiomes</i> , 2020, 6, 27.	2.9	6
110	Organ-level protein networks as a reference for the host effects of the microbiome. <i>Genome Research</i> , 2020, 30, 276-286.	2.4	6
111	The Intestinal Microbiota: Our Best Frenemy in Radiation-Induced Damages?. <i>Cell Host and Microbe</i> , 2021, 29, 7-9.	5.1	6
112	The postnatal window is critical for the development of sex-specific metabolic and gut microbiota outcomes in offspring. <i>Gut Microbes</i> , 2021, 13, 2004070.	4.3	6
113	In Memoriam, Arlette Darfeuille-Michaud, PhD. <i>Gut</i> , 2014, 63, 1681-1682.	6.1	4
114	In Memoriam, Arlette Darfeuille-Michaud, PhD. <i>Gastroenterology</i> , 2014, 147, 943-944.	0.6	4
115	Gut Microbiome and Metabolism. , 2018, , 775-793.		3
116	Microbiota Alterations in Inflammatory Bowel Diseases: From Correlation to Causality. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2016, 2, 403-404.	2.3	2
117	Genome Sequence of a Toxin-Positive <i>Clostridium difficile</i> Strain Isolated from Murine Feces. <i>Genome Announcements</i> , 2017, 5, .	0.8	2
118	Gut barrier dysfunction and type 2 immunity: Implications for compulsive behavior. <i>Medical Hypotheses</i> , 2022, 161, 110799.	0.8	2
119	The Hidden Effect of Nod2 in the Host/Microbiota Relationship. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2020, 10, 424-425.	2.3	1
120	When Pathobiont-Carbohydrate Interaction Turns Bittersweet!. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2021, 12, 1509-1510.	2.3	1
121	Local Delivery of Streptomycin in Microcontainers Facilitates Colonization of Streptomycin-Resistant <i>Escherichia coli</i> in the Rat Colon. <i>Applied and Environmental Microbiology</i> , 0, , .	1.4	1
122	Use of Gnotobiotic Mice in the Study of Metabolic Syndrome. , 2017, , 385-390.		0
123	A Microbiota-Dependent Response to Anticancer Treatment in an In Vitro Human Microbiota Model: A Pilot Study With Hydroxycarbamide and Daunorubicin. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, .	1.8	0
124	Ã%ulsifiants alimentaires etÃmicrobiote intestinal. <i>Medecine/Sciences</i> , 2022, 38, 539-541.	0.0	0