HervÃ© Blottiere

List of Publications by Year
in descending order

117	39,420	34076 52	16636 123
papers	citations	h-index	g-index

131	131	131	39104
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A human gut microbial gene catalogue established by metagenomic sequencing. Nature, 2010, 464, 59-65.	13.7	9,342
2	Enterotypes of the human gut microbiome. Nature, 2011, 473, 174-180.	13.7	5,800
3	Richness of human gut microbiome correlates with metabolic markers. Nature, 2013, 500, 541-546.	13.7	3,641
4	Faecalibacterium prausnitzii is an anti-inflammatory commensal bacterium identified by gut microbiota analysis of Crohn disease patients. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16731-16736.	3.3	3,581
5	An integrated catalog of reference genes in the human gut microbiome. Nature Biotechnology, 2014, 32, 834-841.	9.4	1,664
6	Disentangling type 2 diabetes and metformin treatment signatures in the human gut microbiota. Nature, 2015, 528, 262-266.	13.7	1,627
7	Human gut microbes impact host serum metabolome and insulin sensitivity. Nature, 2016, 535, 376-381.	13.7	1,506
8	Dietary intervention impact on gut microbial gene richness. Nature, 2013, 500, 585-588.	13.7	1,485
9	Akkermansia muciniphila and improved metabolic health during a dietary intervention in obesity: relationship with gut microbiome richness and ecology. Gut, 2016, 65, 426-436.	6.1	1,379
10	Butyrate inhibits inflammatory responses through NFkappa B inhibition: implications for Crohn's disease. Gut, 2000, 47, 397-403.	6.1	1,060
11	Identification and assembly of genomes and genetic elements in complex metagenomic samples without using reference genomes. Nature Biotechnology, 2014, 32, 822-828.	9.4	909
12	SCFA: mechanisms and functional importance in the gut. Proceedings of the Nutrition Society, 2021, 80, 37-49.	0.4	498
13	Energy balance and obesity: what are the main drivers?. Cancer Causes and Control, 2017, 28, 247-258.	0.8	455
14	Quantifying Diet-Induced Metabolic Changes of the Human Gut Microbiome. Cell Metabolism, 2015, 22, 320-331.	7.2	345
15	A metagenomic insight into our gut's microbiome. Gut, 2013, 62, 146-158.	6.1	302
16	Statin therapy is associated with lower prevalence of gut microbiota dysbiosis. Nature, 2020, 581, 310-315.	13.7	283
17	SCFAs strongly stimulate PYY production in human enteroendocrine cells. Scientific Reports, 2018, 8, 74.	1.6	262
18	Butyrate specifically modulatesMUCgene expression in intestinal epithelial goblet cells deprived of glucose. American Journal of Physiology - Renal Physiology, 2004, 287, G1168-G1174.	1.6	253

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19	Butyrate and trichostatin A effects on the proliferation/differentiation of human intestinal epithelial cells: induction of cyclin D3 and p21 expression. Gut, 2000, 46, 507-514.	6.1	243
20	Molecular analysis of the effect of short-chain fatty acids on intestinal cell proliferation. Proceedings of the Nutrition Society, 2003, 62, 101-106.	0.4	190
21	Prolonged Intake of Fructo-Oligosaccharides Induces a Short-Term Elevation of Lactic Acid-Producing Bacteria and a Persistent Increase in Cecal Butyrate in Rats. Journal of Nutrition, 1999, 129, 2231-2235.	1.3	180
22	Short-chain fatty acids modify colonic motility through nerves and polypeptide YY release in the rat. American Journal of Physiology - Renal Physiology, 1998, 275, G1415-G1422.	1.6	159
23	Adaptative metabolic response of human colonic epithelial cells to the adverse effects of the luminal compound sulfide. Biochimica Et Biophysica Acta - General Subjects, 2005, 1725, 201-212.	1.1	157
24	Anti-Inflammatory Properties of Streptococcus salivarius, a Commensal Bacterium of the Oral Cavity and Digestive Tract. Applied and Environmental Microbiology, 2014, 80, 928-934.	1.4	151
25	The influence of diet on the gut microbiota and its consequences for health. Current Opinion in Biotechnology, 2015, 32, 195-199.	3.3	148
26	Butyrate produced by gut commensal bacteria activates TGF-beta1 expression through the transcription factor SP1 in human intestinal epithelial cells. Scientific Reports, 2018, 8, 9742.	1.6	142
27	Effects of Short-Chain Fatty Acids on Gastrointestinal Motility. Scandinavian Journal of Gastroenterology, 1997, 32, 58-61.	0.6	135
28	Elevated plasma leptin concentrations in early stages of experimental intestinal inflammation in rats. Gut, 1998, 43, 783-790.	6.1	132
29	Prediction of the intestinal resistome by a three-dimensional structure-based method. Nature Microbiology, 2019, 4, 112-123.	5.9	129
30	Biological Properties of Ulvan, a New Source of Green Seaweed Sulfated Polysaccharides, on Cultured Normal and Cancerous Colonic Epithelial Cells. Planta Medica, 1999, 65, 527-531.	0.7	126
31	Microbiota-gut brain axis involvement in neuropsychiatric disorders. Expert Review of Neurotherapeutics, 2019, 19, 1037-1050.	1.4	116
32	Humans as holobionts: implications for prevention and therapy. Microbiome, 2018, 6, 81.	4.9	114
33	Identification of the novel role of butyrate as AhR ligand in human intestinal epithelial cells. Scientific Reports, 2019, 9, 643.	1.6	111
34	Combinatorial, additive and dose-dependent drugâ€“microbiome associations. Nature, 2021, 600, 500-505.	13.7	102
35	Butyrate Stimulates Cyclin D and p21 and Inhibits Cyclin-Dependent Kinase 2 Expression in HT-29 Colonic Epithelial Cells. Biochemical and Biophysical Research Communications, 1997, 232, 169-172.	1.0	89
36	Inhibition of the NF-ÎºB Pathway in Human Intestinal Epithelial Cells by Commensal Streptococcus salivarius. Applied and Environmental Microbiology, 2011, 77, 4681-4684.	1.4	88

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37	ANGPTL4 expression induced by butyrate and rosiglitazone in human intestinal epithelial cells utilizes independent pathways. American Journal of Physiology - Renal Physiology, 2013, 304, G1025-G1037.	1.6	76
38	Butyrate Produced by Commensal Bacteria Down-Regulates Indolamine 2,3-Dioxygenase 1 (IDO-1) Expression via a Dual Mechanism in Human Intestinal Epithelial Cells. Frontiers in Immunology, 2018, 9, 2838.	2.2	74
39	Enhancement of butyrate production in the rat caecocolonic tract by long-term ingestion of resistant potato starch. British Journal of Nutrition, 1999, 82, 419-426.	1.2	73
40	Functional Metagenomics: A High Throughput Screening Method to Decipher Microbiota-Driven NF-ÎºB Modulation in the Human Gut. PLoS ONE, 2010, 5, e13092.	1.1	72
41	TLR ligands and butyrate increasePyyexpression through two distinct but inter-regulated pathways. Cellular Microbiology, 2017, 19, e12648.	1.1	71
42	Butyrate Produced by Commensal Bacteria Potentiates Phorbol Esters Induced AP-1 Response in Human Intestinal Epithelial Cells. PLoS ONE, 2012, 7, e52869.	1.1	70
43	Anti-inflammatory properties of dairy lactobacilli. Inflammatory Bowel Diseases, 2012, 18, 657-666.	0.9	68
44	Butyrate metabolism upstream and downstream acetyl-CoA synthesis and growth control of human colon carcinoma cells. FEBS Journal, 2000, 267, 6435-6442.	0.2	66
45	Identification of NF-ÎºB Modulation Capabilities within Human Intestinal Commensal Bacteria. Journal of Biomedicine and Biotechnology, 2011, 2011, 1-9.	3.0	66
46	Commensal gut bacteria modulate phosphorylation-dependent PPARÎ³ transcriptional activity in human intestinal epithelial cells. Scientific Reports, 2017, 7, 43199.	1.6	66
47	Human intestinal metagenomics: state of the art and future. Current Opinion in Microbiology, 2013, 16, 232-239.	2.3	62
48	Raw potato starch and short-chain fructo-oligosaccharides affect the composition and metabolic activity of rat intestinal microbiota differently depending on the caecocolonic segment involved. Journal of Applied Microbiology, 2003, 94, 312-320.	1.4	60
49	Commensal Streptococcus salivarius Modulates PPARÎ³ Transcriptional Activity in Human Intestinal Epithelial Cells. PLoS ONE, 2015, 10, e0125371.	1.1	60
50	Identification of secreted CD155 isoforms. Biochemical and Biophysical Research Communications, 2003, 309, 175-182.	1.0	59
51	COMPARISON OF THE EFFECT OF DIFFERENT SHORT CHAIN FATTY ACIDS ON THE GROWTH AND DIFFERENTIATION OF HUMAN COLONIC CARCINOMA CELL LINESIN VITRO. Cell Biology International, 1997, 21, 281-287.	1.4	56
52	Development of High-Throughput Phenotyping of Metagenomic Clones from the Human Gut Microbiome for Modulation of Eukaryotic Cell Growth. Applied and Environmental Microbiology, 2007, 73, 3734-3737.	1.4	56
53	The gut bacterium and pathobiont Bacteroides vulgatus activates NF-ÎºB in a human gut epithelial cell line in a strain and growth phase dependent manner. Anaerobe, 2017, 47, 209-217.	1.0	55
54	Inhibition of acetylcholine induced intestinal motility by interleukin 1 beta in the rat.. Gut, 1996, 39, 470-474.	6.1	52

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55	Degraded Carrageenan Causing Colitis in Rats Induces TNF Secretion and ICAM-1 Upregulation in Monocytes through NF-ÎºB Activation. PLoS ONE, 2010, 5, e8666.	1.1	52
56	The <scp>NF</scp>â€Îº<scp>B</scp> binding site located in the proximal region of the <scp>TSLP</scp> promoter is critical for <scp>TSLP</scp> modulation in human intestinal epithelial cells. European Journal of Immunology, 2013, 43, 1053-1062.	1.6	46
57	The Laminin Response in Inflammatory Bowel Disease: Protection or Malignancy?. PLoS ONE, 2014, 9, e111336.	1.1	46
58	The clinical Pseudomonas fluorescens MFN1032 strain exerts a cytotoxic effect on epithelial intestinal cells and induces Interleukin-8 via the AP-1 signaling pathway. BMC Microbiology, 2010, 10, 215.	1.3	45
59	Extracellular Vesicles Produced by the Probiotic Propionibacterium freudenreichii CIRM-BIA 129 Mitigate Inflammation by Modulating the NF-ÎºB Pathway. Frontiers in Microbiology, 2020, 11, 1544.	1.5	45
60	Comparative capacities of the pig colon and duodenum for luminal iron absorption. Canadian Journal of Physiology and Pharmacology, 2007, 85, 185-192.	0.7	43
61	A Guide for Ex Vivo Handling and Storage of Stool Samples Intended for Fecal Microbiota Transplantation. Scientific Reports, 2019, 9, 8897.	1.6	40
62	In vitro contractile effects of short chain fatty acids in the rat terminal ileum.. Gut, 1996, 38, 53-58.	6.1	39
63	A Data Integration Multi-Omics Approach to Study Calorie Restriction-Induced Changes in Insulin Sensitivity. Frontiers in Physiology, 2018, 9, 1958.	1.3	39
64	Effects of agmatine accumulation in human colon carcinoma cells on polyamine metabolism, DNA synthesis and the cell cycle. Biochimica Et Biophysica Acta - Molecular Cell Research, 2005, 1745, 111-123.	1.9	38
65	A fibrolytic potential in the human ileum mucosal microbiota revealed by functional metagenomic. Scientific Reports, 2017, 7, 40248.	1.6	38
66	Fructose malabsorption induces cholecystokinin expression in the ileum and cecum by changing microbiota composition and metabolism. FASEB Journal, 2019, 33, 7126-7142.	0.2	36
67	Genome Sequence of â€œ Candidatus Arthromitusâ€•sp. Strain SFB-Mouse-NL, a Commensal Bacterium with a Key Role in Postnatal Maturation of Gut Immune Functions. Genome Announcements, 2014, 2, .	0.8	35
68	Effects of glutamine deprivation on protein synthesis in a model of human enterocytes in culture. American Journal of Physiology - Renal Physiology, 2001, 281, G1340-G1347.	1.6	33
69	Fecal Microbiota Transplant from Human to Mice Gives Insights into the Role of the Gut Microbiota in Non-Alcoholic Fatty Liver Disease (NAFLD). Microorganisms, 2021, 9, 199.	1.6	33
70	Functional mapping of NPY/PYY receptors in rat and human gastro-intestinal tract. Peptides, 2002, 23, 1765-1771.	1.2	31
71	Involvement of histo-blood-group antigens in the susceptibility of colon carcinoma cells to natural killer-mediated cytotoxicity. International Journal of Cancer, 1992, 52, 609-618.	2.3	29
72	Utilization of activated U937 monocytic cells as a model to evaluate biocompatibility and biodegradation of synthetic calcium phosphate. Biomaterials, 1995, 16, 497-503.	5.7	29

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73	Milk Fermented with a 15-Lipoxygenase-1-Producing Lactococcus Lactis Alleviates Symptoms of colitis in a Murine Model. Current Pharmaceutical Biotechnology, 2015, 16, 424-429.	0.9	28
74	Impact of high-fat feeding on basic helixâ€“loopâ€“helix transcription factors controlling enteroendocrine cell differentiation. International Journal of Obesity, 2014, 38, 1440-1448.	1.6	26
75	Elevated serum ceramides are linked with obesity-associated gut dysbiosis and impaired glucose metabolism. Metabolomics, 2019, 15, 140.	1.4	26
76	Short-chain fatty acids induce cytoskeletal and extracellular protein modifications associated with modulation of proliferation on primary culture of rat intestinal smooth muscle cells. Digestive Diseases and Sciences, 2000, 45, 1623-1630.	1.1	23
77	Lactobacillus rhamnosus CNCMI-4317 Modulates Fiaf/Angptl4 in Intestinal Epithelial Cells and Circulating Level in Mice. PLoS ONE, 2015, 10, e0138880.	1.1	22
78	Butyrate enhances major histocompatibility complex class I, HLA-DR and ICAM-1 antigen expression on differentiated human intestinal epithelial cells. European Journal of Clinical Investigation, 1996, 26, 803-810.	1.7	21
79	Pathways and receptors involved in peptide YY induced contraction of rat proximal colonic muscle in vitro. Gut, 2000, 46, 370-375.	6.1	21
80	Alternative stable states in the intestinal ecosystem: proof of concept in a rat model and a perspective of therapeutic implications. Microbiome, 2020, 8, 153.	4.9	21
81	Human anti-murine immunoglobulin responses and immune functions in cancer patients receiving murine monoclonal antibody therapy. Human Antibodies, 1991, 2, 16-25.	0.6	19
82	Lack of interleukin 10 regulation of antigen presentation-associated molecules expressed on colonic epithelial cells. European Journal of Clinical Investigation, 1999, 29, 48-55.	1.7	19
83	Characterization, isolation and amino terminal sequencing of a rat colon carcinoma-associated antigen. International Journal of Cancer, 1991, 47, 903-908.	2.3	18
84	Analysis of the relationship between stage of differentiation and nk/lak susceptibility of colon carcinoma cells. International Journal of Cancer, 1993, 53, 409-417.	2.3	18
85	Molecular mechanisms involved in the antiproliferative effect of two COX-2 inhibitors, nimesulide and NS-398, on colorectal cancer cell lines. Digestive and Liver Disease, 2003, 35, 557-565.	0.4	18
86	Monocyte activity in the presence of calcium phosphate activated by 1,25 (OH)2 VD3 and interferon-Î³. Biomaterials, 1994, 15, 25-30.	5.7	17
87	Humoral and cellular responses of colorectal cancer patients treated with monoclonal antibodies and interferon Î³. Cancer Immunology, Immunotherapy, 1990, 32, 29-37.	2.0	16
88	Monoclonal antibodies to a rat colon carcinoma: model for monoclonal antibody therapy of solid tumors. Cancer Research, 1989, 49, 687-92.	0.4	16
89	Rise in cytosolic Ca²⁺ concentration induced by P₂â€purinoceptor activation in isolated myocytes from the rat gastrointestinal tract. British Journal of Pharmacology, 1996, 117, 775-780.	2.7	15
90	Functional metagenomics to decipher foodâ€“microbeâ€“host crosstalk. Proceedings of the Nutrition Society, 2015, 74, 1-4.	0.4	15

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91	High-Throughput System for the Presentation of Secreted and Surface-Exposed Proteins from Gram-Positive Bacteria in Functional Metagenomics Studies. PLoS ONE, 2013, 8, e65956.	1.1	14
92	Immune function of patients with gastrointestinal carcinoma after treatment with multiple infusions of monoclonal antibody 17.1A. Cancer Research, 1987, 47, 5238-41.	0.4	13
93	TREATMENT OF RAT PROXIMAL AND DISTAL COLONIC CELLS WITH SODIUM ORTHOVANADATE ENHANCES THEIR ADHESION AND SURVIVAL IN PRIMARY CULTURE. Cell Biology International, 1997, 21, 303-314.	1.4	12
94	Metagenomics of the human intestinal tract: from who is there to what is done there. Current Opinion in Food Science, 2015, 4, 64-68.	4.1	12
95	Possible involvement of TGF beta 1 in the distinct tumorigenic properties of two rat colon carcinoma clones. Invasion & Metastasis, 1992, 12, 185-96.	0.5	12
96	Growth inhibitory effect of celecoxib and rofecoxib on human colorectal carcinoma cell lines. Anticancer Research, 2005, 25, 225-33.	0.5	12
97	A Robust and Adaptable High Throughput Screening Method to Study Host-Microbiota Interactions in the Human Intestine. PLoS ONE, 2014, 9, e105598.	1.1	11
98	Impact of pemetrexed chemotherapy on the gut microbiota and intestinal inflammation of patient-lung-derived tumor xenograft (PDX) mouse models. Scientific Reports, 2020, 10, 9094.	1.6	11
99	Characterization of a human monocyte antigen, B148.4, regulated during cell differentiation and activation. Journal of Leukocyte Biology, 1993, 53, 390-398.	1.5	10
100	Fructooligosaccharide associated with celecoxib reduces the number of aberrant crypt foci in the colon of rats. Reproduction, Nutrition, Development, 2003, 43, 347-356.	1.9	10
101	The Impact of ATRA on Shaping Human Myeloid Cell Responses to Epithelial Cell-Derived Stimuli and on T-Lymphocyte Polarization. Mediators of Inflammation, 2015, 2015, 1-14.	1.4	10
102	The Enterococcus faecalis virulence factor ElrA interacts with the human Four-and-a-Half LIM Domains Protein 2. Scientific Reports, 2017, 7, 4581.	1.6	9
103	Cyclo-oxygenase-2 over-expression in sporadic colorectal carcinoma without lymph node involvement. Alimentary Pharmacology and Therapeutics, 2003, 18, 731-740.	1.9	8
104	Human anti-murine immunoglobulin responses and immune functions in cancer patients receiving murine monoclonal antibody therapy. Human Antibodies and Hybridomas, 1991, 2, 16-25.	0.1	8
105	Karyotypic and phenotypic variations between cell lines established from a primary colorectal tumour and two corresponding metastases from one patient. Invasion & Metastasis, 1993, 13, 253-66.	0.5	8
106	Relationship between sensitivity to natural killer cells and MHC class-I antigen expression in colon carcinoma cell lines. International Journal of Cancer, 1992, 50, 659-664.	2.3	7
107	Immunoglobulin class and immunoglobulin G subclass analysis of human anti-mouse antibody response during monoclonal antibody treatment of cancer patients. Cancer Research, 1990, 50, 1051s-1054s.	0.4	7
108	Roseburia, a decreased bacterial taxon in the gut microbiota of patients suffering from anorexia nervosa. European Journal of Clinical Nutrition, 2022, , .	1.3	6

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109	A new tumor-associated antigen expressed on breast carcinomas, defined by monoclonal antibody BCA 227. Cancer Research, 1991, 51, 1537-43.	0.4	4
110	Analysis of the state of differentiation of two rat colon carcinoma clones with distinct tumorigenic properties. Biology of the Cell, 1991, 72, 239-47.	0.7	3
111	Neonatal Programming of Microbiota Composition: A Plausible Idea That Is Not Supported by the Evidence. Frontiers in Microbiology, 0, 13, .	1.5	3
112	Development of a Monoclonal Antibody Against Dentin Phosphophoryn: A Tool to Study Odontoblastic Activity. Hybridoma, 1994, 13, 143-146.	0.9	2
113	Identification and characterization of a rat protein (P 105) auto-antigenic in rats bearing a progressive syngeneic colon carcinoma. International Journal of Cancer, 1992, 50, 315-320.	2.3	1
114	Expression of blood group-related glycosidic tissue antigens on regressive and progressive variants of a rat colon carcinoma. Transplantation Proceedings, 1990, 22, 2551-2.	0.3	1
115	Human Gut Metagenomics: Success and Limits of the Activity-Based Approaches. , 2017, , 161-178.		0
116	Functional Metagenomics of Bacterial-Cell Crosstalk. , 2013, , 1-6.		0
117	Molecular mechanisms of butyrate action on HT-29 intestinal epithelial cell proliferation. Reproduction, Nutrition, Development, 1998, 38, 211-211.	1.9	0