

Mathias Chamailard

List of Publications by Year in descending order

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109
papers

25,218
citations

47006

47
h-index

29157

104
g-index

113
all docs

113
docs citations

113
times ranked

25994
citing authors

#	ARTICLE	IF	CITATIONS
1	Association of NOD2 leucine-rich repeat variants with susceptibility to Crohn's disease. <i>Nature</i> , 2001, 411, 599-603.	27.8	5,088
2	Anticancer immunotherapy by CTLA-4 blockade relies on the gut microbiota. <i>Science</i> , 2015, 350, 1079-1084.	12.6	2,539
3	Nod2 Is a General Sensor of Peptidoglycan through Muramyl Dipeptide (MDP) Detection. <i>Journal of Biological Chemistry</i> , 2003, 278, 8869-8872.	3.4	2,026
4	Nod2-Dependent Regulation of Innate and Adaptive Immunity in the Intestinal Tract. <i>Science</i> , 2005, 307, 731-734.	12.6	1,643
5	Meta-analysis identifies 29 additional ulcerative colitis risk loci, increasing the number of confirmed associations to 47. <i>Nature Genetics</i> , 2011, 43, 246-252.	21.4	1,201
6	An essential role for NOD1 in host recognition of bacterial peptidoglycan containing diaminopimelic acid. <i>Nature Immunology</i> , 2003, 4, 702-707.	14.5	1,139
7	CARD15/NOD2 Mutational Analysis and Genotype-Phenotype Correlation in 612 Patients with Inflammatory Bowel Disease. <i>American Journal of Human Genetics</i> , 2002, 70, 845-857.	6.2	943
8	CARD15 mutations in Blau syndrome. <i>Nature Genetics</i> , 2001, 29, 19-20.	21.4	915
9	NOD-LRR PROTEINS: Role in Host-Microbial Interactions and Inflammatory Disease. <i>Annual Review of Biochemistry</i> , 2005, 74, 355-383.	11.1	871
10	Resistance Mechanisms to Immune-Checkpoint Blockade in Cancer: Tumor-Intrinsic and -Extrinsic Factors. <i>Immunity</i> , 2016, 44, 1255-1269.	14.3	797
11	<i>Lactobacillus acidophilus</i> modulates intestinal pain and induces opioid and cannabinoid receptors. <i>Nature Medicine</i> , 2007, 13, 35-37.	30.7	734
12	<i>Enterococcus hirae</i> and <i>Barnesiella intestinihominis</i> Facilitate Cyclophosphamide-Induced Therapeutic Immunomodulatory Effects. <i>Immunity</i> , 2016, 45, 931-943.	14.3	645
13	NOD2-mediated dysbiosis predisposes mice to transmissible colitis and colorectal cancer. <i>Journal of Clinical Investigation</i> , 2013, 123, 700-11.	8.2	444
14	PPAR α as a new therapeutic target in inflammatory bowel diseases. <i>Gut</i> , 2006, 55, 1341-1349.	12.1	363
15	Regulatory regions and critical residues of NOD2 involved in muramyl dipeptide recognition. <i>EMBO Journal</i> , 2004, 23, 1587-1597.	7.8	325
16	Dysbiotic gut microbiota causes transmissible Crohn's disease-like ileitis independent of failure in antimicrobial defence. <i>Gut</i> , 2016, 65, 225-237.	12.1	317
17	Nod-like receptor pyrin domain-containing protein 6 (NLRP6) controls epithelial self-renewal and colorectal carcinogenesis upon injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9601-9606.	7.1	315
18	Nods, Naips and Naip: intracellular regulators of bacterial-induced inflammation. <i>Cellular Microbiology</i> , 2003, 5, 581-592.	2.1	309

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19	Gene-environment interaction modulated by allelic heterogeneity in inflammatory diseases. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3455-3460.	7.1	288
20	Specific Recognition of <i>Candida albicans</i> by Macrophages Requires Galectin-3 to Discriminate <i>Saccharomyces cerevisiae</i> and Needs Association with TLR2 for Signaling. Journal of Immunology, 2006, 177, 4679-4687.	0.8	214
21	Mesenteric fat in Crohn's disease: a pathogenetic hallmark or an innocent bystander?. Gut, 2007, 56, 577-583.	12.1	200
22	The NLRP6 Inflammasome Recognizes Lipoteichoic Acid and Regulates Gram-Positive Pathogen Infection. Cell, 2018, 175, 1651-1664.e14.	28.9	195
23	Neutralisation of the interleukin-33/ST2 pathway ameliorates experimental colitis through enhancement of mucosal healing in mice. Gut, 2013, 62, 1714-1723.	12.1	194
24	Peroxisome proliferator-activated receptor gamma activation is required for maintenance of innate antimicrobial immunity in the colon. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8772-8777.	7.1	183
25	<i>Candida albicans</i> Colonization and ASCA in Familial Crohn's Disease. American Journal of Gastroenterology, 2009, 104, 1745-1753.	0.4	172
26	Intestinal inhibition of Atg7 prevents tumour initiation through a microbiome-influenced immune response and suppresses tumour growth. Nature Cell Biology, 2015, 17, 1062-1073.	10.3	154
27	Card15 gene overexpression in mononuclear and epithelial cells of the inflamed Crohn's disease colon. Gut, 2003, 52, 840-846.	12.1	130
28	Genetic Variants of Wnt Transcription Factor TCF-4 (TCF7L2) Putative Promoter Region Are Associated with Small Intestinal Crohn's Disease. PLoS ONE, 2009, 4, e4496.	2.5	125
29	Prevention and Treatment of Colitis With <i>Lactococcus lactis</i> Secreting the Immunomodulatory Yersinia LcrV Protein. Gastroenterology, 2007, 133, 862-874.	1.3	108
30	Gut microbiome and anticancer immune response: really hot Sh*t!. Cell Death and Differentiation, 2015, 22, 199-214.	11.2	100
31	Caspase-1 activation by NLRP3 inflammasome dampens IL-33-dependent house dust mite-induced allergic lung inflammation. Journal of Molecular Cell Biology, 2015, 7, 351-365.	3.3	94
32	Nod2-mediated recognition of the microbiota is critical for mucosal adjuvant activity of cholera toxin. Nature Medicine, 2016, 22, 524-530.	30.7	94
33	Toll-like receptor 2 is critical for induction of Reg3A expression and intestinal clearance of <i>Yersinia pseudotuberculosis</i> . Gut, 2009, 58, 771-776.	12.1	93
34	Fine-Tuning Cancer Immunotherapy: Optimizing the Gut Microbiome. Cancer Research, 2016, 76, 4602-4607.	0.9	92
35	Intestinally Secreted C-Type Lectin Reg3b Attenuates Salmonellosis but Not Listeriosis in Mice. Infection and Immunity, 2012, 80, 1115-1120.	2.2	91
36	<i>Pseudomonas aeruginosa</i> Type-3 Secretion System Dampens Host Defense by Exploiting the NLRC4-coupled Inflammasome. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 799-811.	5.6	90

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37	Epithelial IL-23R Signaling Licenses Protective IL-22 Responses in Intestinal Inflammation. <i>Cell Reports</i> , 2016, 16, 2208-2218.	6.4	89
38	Hemidesmosome integrity protects the colon against colitis and colorectal cancer. <i>Gut</i> , 2017, 66, 1748-1760.	12.1	84
39	Mu opioid receptor expression is increased in inflammatory bowel diseases: implications for homeostatic intestinal inflammation. <i>Gut</i> , 2006, 55, 815-823.	12.1	80
40	IBD serological panels: Facts and perspectives. <i>Inflammatory Bowel Diseases</i> , 2007, 13, 1561-1566.	1.9	75
41	Genetic Factors Interact With Tobacco Smoke to Modify Risk for Inflammatory Bowel Disease in Humans and Mice. <i>Gastroenterology</i> , 2017, 153, 550-565.	1.3	68
42	Enterocyte loss of polarity and gut wound healing rely upon the F-actin severing function of villin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E1380-9.	7.1	67
43	STAT3 Represses Nitric Oxide Synthesis in Human Macrophages upon Mycobacterium tuberculosis Infection. <i>Scientific Reports</i> , 2016, 6, 29297.	3.3	64
44	CARD4/NOD1 is not involved in inflammatory bowel disease. <i>Gut</i> , 2003, 52, 71-74.	12.1	57
45	A dietary flavone confers communicable protection against colitis through NLRP6 signaling independently of inflammasome activation. <i>Mucosal Immunology</i> , 2018, 11, 811-819.	6.0	55
46	Microbial induction of CARD15 expression in intestinal epithelial cells via toll-like receptor 5 triggers an antibacterial response loop. <i>Journal of Cellular Physiology</i> , 2006, 209, 241-252.	4.1	53
47	Nod-Like Receptors: Cytosolic Watchdogs for Immunity against Pathogens. <i>PLoS Pathogens</i> , 2007, 3, e152.	4.7	53
48	A Novel Caspase-1/Toll-like Receptor 4-independent Pathway of Cell Death Induced by Cytosolic Shigella in Infected Macrophages. <i>Journal of Biological Chemistry</i> , 2005, 280, 14042-14050.	3.4	51
49	Vascular and Cellular Stress in Inflammatory Bowel Disease: Revisiting the Role of Homocysteine. <i>American Journal of Gastroenterology</i> , 2007, 102, 1108-1115.	0.4	49
50	Longest Form of CCTG Microsatellite Repeat in the Promoter of the CD2BP1/PSTPIP1 Gene Is Associated with Aseptic Abscesses and with Crohn Disease in French Patients. <i>Digestive Diseases and Sciences</i> , 2010, 55, 1681-1688.	2.3	47
51	Enhancing the clinical coverage and anticancer efficacy of immune checkpoint blockade through manipulation of the gut microbiota. <i>Oncolmmunology</i> , 2017, 6, e1132137.	4.6	45
52	NODs in defence: from vulnerable antimicrobial peptides to chronic inflammation. <i>Trends in Microbiology</i> , 2006, 14, 432-438.	7.7	44
53	Proteasomal degradation of NOD2 by NLRP12 in monocytes promotes bacterial tolerance and colonization by enteropathogens. <i>Nature Communications</i> , 2018, 9, 5338.	12.8	44
54	The role of the gut microbiome on radiation therapy efficacy and gastrointestinal complications: A systematic review. <i>Radiotherapy and Oncology</i> , 2021, 156, 1-9.	0.6	44

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55	Photodynamic therapy as a new treatment modality for inflammatory and infectious conditions. Expert Review of Clinical Immunology, 2015, 11, 637-657.	3.0	43
56	NOD2: a potential target for regulating liver injury. Laboratory Investigation, 2008, 88, 318-327.	3.7	41
57	The peptide transporter PEPT1 is expressed in distal colon in rodents and humans and contributes to water absorption. American Journal of Physiology - Renal Physiology, 2013, 305, G66-G73.	3.4	40
58	Lactobacillus reuteri 5454 and Bifidobacterium animalis ssp. lactis 5764 improve colitis while differentially impacting dendritic cells maturation and antimicrobial responses. Scientific Reports, 2020, 10, 5345.	3.3	39
59	Card9 mediates susceptibility to intestinal pathogens through microbiota modulation and control of bacterial virulence. Gut, 2018, 67, 1836-1844.	12.1	38
60	How NOD2 mutations predispose to Crohn's disease?. Microbes and Infection, 2007, 9, 658-663.	1.9	34
61	Familial aggregation and antimicrobial response dose-dependently affect the risk for Crohn's disease. Inflammatory Bowel Diseases, 2010, 16, 58-67.	1.9	34
62	Lessons from the inflammasome: a molecular sentry linking Candida and Crohn's disease. Trends in Immunology, 2010, 31, 171-175.	6.8	34
63	Colonic Expression of the Peptide Transporter PEPT1 Is Downregulated During Intestinal Inflammation and Is Not Required for NOD2-dependent Immune Activation. Inflammatory Bowel Diseases, 2014, 20, 671-684.	1.9	31
64	Advances and Perspectives in the Genetics of Inflammatory Bowel Diseases. Clinical Gastroenterology and Hepatology, 2006, 4, 143-151.	4.4	29
65	Clustering of Crohn's disease within affected sibships. European Journal of Human Genetics, 2003, 11, 179-184.	2.8	28
66	CCL17 Production by Dendritic Cells Is Required for NOD1-mediated Exacerbation of Allergic Asthma. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 899-908.	5.6	28
67	Toll-interacting Protein Modulates Colitis Susceptibility in Mice. Inflammatory Bowel Diseases, 2014, 20, 660-670.	1.9	28
68	The human gut microbiome as source of innovation for health: Which physiological and therapeutic outcomes could we expect?. Therapie, 2017, 72, 21-38.	1.0	28
69	Î-Opioid receptor activation prevents acute hepatic inflammation and cell death. Gut, 2007, 56, 974-981.	12.1	27
70	Detection of Antisynthetic Mannoside Antibodies (ASMA) Reveals Heterogeneity in the ASCA Response of Crohn's Disease Patients and Contributes to Differential Diagnosis, Stratification, and Prediction. American Journal of Gastroenterology, 2008, 103, 949-957.	0.4	25
71	Innate Immunity in Crohn's Disease. Journal of Clinical Gastroenterology, 2008, 42, S144-S147.	2.2	23
72	A Method to Exploit the Structure of Genetic Ancestry Space to Enhance Case-Control Studies. American Journal of Human Genetics, 2016, 98, 857-868.	6.2	21

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73	Battling enteroinvasive bacteria: Nod1 comes to the rescue. <i>Trends in Microbiology</i> , 2004, 12, 529-532.	7.7	20
74	Invited review: NOD2 and defensins: translating innate to adaptive immunity in Crohn's disease. <i>Journal of Endotoxin Research</i> , 2007, 13, 135-139.	2.5	19
75	Effects of enteral polymeric diet on gut microbiota in children with Crohn's disease. <i>Gut</i> , 2017, 66, 194-195.	12.1	19
76	NOD2 Influences Trajectories of Intestinal Microbiota Recovery After Antibiotic Perturbation. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2020, 10, 365-389.	4.5	19
77	Role of NLRs in the Regulation of Type I Interferon Signaling, Host Defense and Tolerance to Inflammation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1301.	4.1	19
78	Understanding the Cellular Origin of the Mononuclear Phagocyte System Sheds Light on the Myeloid Postulate of Immune Paralysis in Sepsis. <i>Frontiers in Immunology</i> , 2018, 9, 823.	4.8	18
79	Defensins couple dysbiosis to primary immunodeficiency in Crohn's disease. <i>World Journal of Gastroenterology</i> , 2011, 17, 567.	3.3	16
80	CARD8 gene variant is a risk factor for recurrent surgery in patients with Crohn's disease. <i>Digestive and Liver Disease</i> , 2015, 47, 938-942.	0.9	14
81	MAVS deficiency induces gut dysbiotic microbiota conferring a proallergic phenotype. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10404-10409.	7.1	14
82	The regenerating family member 3 $\beta 2$ instigates IL-17A-mediated neutrophil recruitment downstream of NOD1/2 signalling for controlling colonisation resistance independently of microbiota community structure. <i>Gut</i> , 2019, 68, 1190-1199.	12.1	14
83	Decoding Norovirus Infection in Crohn's Disease. <i>Inflammatory Bowel Diseases</i> , 2014, 20, 767-770.	1.9	13
84	NOD2 gene variant is a risk factor for postoperative complications in patients with Crohn's disease: A genetic association study. <i>Surgery</i> , 2016, 160, 74-80.	1.9	13
85	Type I interferons drive inflammasome-independent emergency monocytopoiesis during endotoxemia. <i>Scientific Reports</i> , 2017, 7, 16935.	3.3	13
86	Remote Control of Intestinal Tumorigenesis by Innate Immunity. <i>Cancer Research</i> , 2010, 70, 1749-1752.	0.9	12
87	Photodynamic Therapy Relieves Colitis and Prevents Colitis-associated Carcinogenesis in Mice. <i>Inflammatory Bowel Diseases</i> , 2015, 21, 985-995.	1.9	12
88	Genetic refinement and physical mapping of a chromosome 16q candidate region for inflammatory bowel disease. <i>European Journal of Human Genetics</i> , 2001, 9, 731-742.	2.8	10
89	Intestinal Microbiota Gives a Nod to the Hygiene Hypothesis in Type 1 Diabetes. <i>Gastroenterology</i> , 2009, 137, 381-383.	1.3	10
90	NOD2 prevents emergence of disease-predisposing microbiota. <i>Gut Microbes</i> , 2013, 4, 353-356.	9.8	10

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91	LppM impact on the colonization of macrophages by <i>Mycobacterium tuberculosis</i> . <i>Cellular Microbiology</i> , 2017, 19, e12619.	2.1	10
92	The Ubiquitin Code of NODs Signaling Pathways in Health and Disease. <i>Frontiers in Immunology</i> , 2019, 10, 2648.	4.8	10
93	NOD1 sensing of house dust mite-derived microbiota promotes allergic experimental asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 148, 394-406.	2.9	10
94	Pancreatitis-Associated Protein Does Not Predict Disease Relapse in Inflammatory Bowel Disease Patients. <i>PLoS ONE</i> , 2014, 9, e84957.	2.5	7
95	Looking beyond histological healing in ulcerative colitis: towards the establishment of a molecular signature for quiescent but progressive disease. <i>Gut</i> , 2013, 62, 959-960.	12.1	6
96	Time for epithelial sensing of vitamin D to step into the limelight. <i>Gut</i> , 2015, 64, 1013-1014.	12.1	5
97	Debugging the intestinal microbiota in IBD. <i>Gastroenterologie Clinique Et Biologique</i> , 2009, 33, S131-S136.	0.9	4
98	Early-onset sarcoidosis gets the nod. <i>Blood</i> , 2005, 105, 912-912.	1.4	3
99	Integrin $\alpha 6$ loss promotes colitis-associated colorectal cancer. Response to: $\alpha 6$ variants and colorectal cancer by Beaulieu JF. <i>Gut</i> , 2018, 67, 2227-2228.	12.1	3
100	Defining dysbiosis threatens Koch's postulates and current dogma on the role of Paneth cells in Crohn's disease. <i>Gut</i> , 2016, 65, 190-191.	12.1	2
101	The battlefield in the war against attaching-and-effacing bacterial pathogens: Monocytes, macrophages and dendritic cells in action. <i>Veterinary Microbiology</i> , 2017, 202, 47-51.	1.9	2
102	Early Involvement of Liver Natural Killer T Cells in Limiting Colonic Inflammation and Application to Disease Treatment. <i>Gastroenterology</i> , 2011, 140, S-1.	1.3	1
103	[30] INVOLVEMENT OF NOD SIGNALLING IN HEPATOCYTE AND IMMUNE CELLS DURING HEPATITIS. <i>Journal of Hepatology</i> , 2007, 46, S15.	3.7	0
104	Usefulness of Serum and Faecal Pancreatitis-Associated Protein Dosage to Predict Disease Relapse in Inflammatory Bowel Disease Patients. <i>Gastroenterology</i> , 2011, 140, S-446.	1.3	0
105	P095 Neutralizing responsiveness to Interleukin-33 abrogates experimental colitis through enhanced mucosal wound healing. <i>Cytokine</i> , 2012, 59, 549.	3.2	0
106	Phagocytes Migration in Response to an Emergency Call From the Microbiota. <i>Gastroenterology</i> , 2013, 145, 1150-1151.	1.3	0
107	Keeping the (S)toolbox Alive Outside of the Body for Drugs Discovery. <i>Gastroenterology</i> , 2017, 153, 1689-1691.	1.3	0
108	NLRs: a Cytosolic Armory of Microbial Sensors Linked to Human Diseases. <i>Nucleic Acids and Molecular Biology</i> , 2008, , 169-185.	0.2	0

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109	Implication of NOD-1 receptor in an experimental house dust mite-induced asthma model. , 2018, , .		0