

Frédéric Barreau

List of Publications by Year in descending order

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45
papers

2,973
citations

172207

29
h-index

233125

45
g-index

47
all docs

47
docs citations

47
times ranked

6718
citing authors

#	ARTICLE	IF	CITATIONS
1	Peyer's Patches: The Immune Sensors of the Intestine. <i>International Journal of Inflammation</i> , 2010, 2010, 1-12.	0.9	326
2	Titanium dioxide nanoparticle impact and translocation through ex vivo, in vivo and in vitro gut epithelia. <i>Particle and Fibre Toxicology</i> , 2014, 11, 13.	2.8	225
3	Nerve growth factor mediates alterations of colonic sensitivity and mucosal barrier induced by neonatal stress in rats. <i>Gastroenterology</i> , 2004, 127, 524-534.	0.6	162
4	New Insights in the Etiology and Pathophysiology of Irritable Bowel Syndrome: Contribution of Neonatal Stress Models. <i>Pediatric Research</i> , 2007, 62, 240-245.	1.1	142
5	Hepatocyte Nuclear Factor 4 α , a Key Factor for Homeostasis, Cell Architecture, and Barrier Function of the Adult Intestinal Epithelium. <i>Molecular and Cellular Biology</i> , 2009, 29, 6294-6308.	1.1	129
6	CARD15/NOD2 Is Required for Peyer's Patches Homeostasis in Mice. <i>PLoS ONE</i> , 2007, 2, e523.	1.1	125
7	Pathways involved in gut mucosal barrier dysfunction induced in adult rats by maternal deprivation: corticotrophin-releasing factor and nerve growth factor interplay. <i>Journal of Physiology</i> , 2007, 580, 347-356.	1.3	122
8	Nod2: The intestinal gate keeper. <i>PLoS Pathogens</i> , 2017, 13, e1006177.	2.1	119
9	Bacteria-derived long chain fatty acid exhibits anti-inflammatory properties in colitis. <i>Gut</i> , 2021, 70, 1088-1097.	6.1	105
10	<i>Yersinia pseudotuberculosis</i> Effector YopJ Subverts the Nod2/RICK/TAK1 Pathway and Activates Caspase-1 to Induce Intestinal Barrier Dysfunction. <i>Cell Host and Microbe</i> , 2012, 11, 337-351.	5.1	103
11	Oral Administration of the Probiotic Strain <i>Escherichia coli</i> Nissle 1917 Reduces Susceptibility to Neuroinflammation and Repairs Experimental Autoimmune Encephalomyelitis-Induced Intestinal Barrier Dysfunction. <i>Frontiers in Immunology</i> , 2017, 8, 1096.	2.2	100
12	Nod2 regulates the host response towards microflora by modulating T cell function and epithelial permeability in mouse Peyer's patches. <i>Gut</i> , 2010, 59, 207-217.	6.1	93
13	Continuous <i>in vitro</i> exposure of intestinal epithelial cells to E171 food additive causes oxidative stress, inducing oxidation of DNA bases but no endoplasmic reticulum stress. <i>Nanotoxicology</i> , 2017, 11, 1-11.	1.6	93
14	Intestinal barrier dysfunction triggered by invasive bacteria. <i>Current Opinion in Microbiology</i> , 2014, 17, 91-98.	2.3	92
15	Identification of an analgesic lipopeptide produced by the probiotic <i>Escherichia coli</i> strain Nissle 1917. <i>Nature Communications</i> , 2017, 8, 1314.	5.8	86
16	Abnormal Activation of Autophagy-Induced Crinophagy in Paneth Cells From Patients With Crohn's Disease. <i>Gastroenterology</i> , 2012, 142, 1097-1099.e4.	0.6	83
17	Altered gut microbiota composition in immune-impaired Nod2 ^{-/-} mice. <i>Gut</i> , 2012, 61, 634-635.	6.1	80
18	Adherent-Invasive <i>Escherichia coli</i> Induce Claudin-2 Expression and Barrier Defect in CEABAC10 Mice and Crohn's Disease Patients. <i>Inflammatory Bowel Diseases</i> , 2012, 18, 294-304.	0.9	77

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19	Expression of TLR-2, TLR-4, NOD2 and pNF- κ B in a Neonatal Rat Model of Necrotizing Enterocolitis. PLoS ONE, 2007, 2, e1102.	1.1	70
20	Requirement of Cellular Prion Protein for Intestinal Barrier Function and Mislocalization in Patients With Inflammatory Bowel Disease. Gastroenterology, 2012, 143, 122-132.e15.	0.6	55
21	Combined NADPH Oxidase 1 and Interleukin 10 Deficiency Induces Chronic Endoplasmic Reticulum Stress and Causes Ulcerative Colitis-Like Disease in Mice. PLoS ONE, 2014, 9, e101669.	1.1	49
22	The Laminin Response in Inflammatory Bowel Disease: Protection or Malignancy?. PLoS ONE, 2014, 9, e111336.	1.1	46
23	<i>Nod2</i> Deficiency Leads to a Specific and Transmissible Mucosa-associated Microbial Dysbiosis Which Is Independent of the Mucosal Barrier Defect. Journal of Crohn's and Colitis, 2016, 10, 1428-1436.	0.6	45
24	Toxicological impact of acute exposure to E171 food additive and TiO ₂ nanoparticles on a co-culture of Caco-2 and HT29-MTX intestinal cells. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2019, 845, 402980.	0.9	45
25	Nod2 Mediates Susceptibility to <i>Yersinia pseudotuberculosis</i> in Mice. PLoS ONE, 2008, 3, e2769.	1.1	42
26	<i>Yersinia pseudotuberculosis</i> disrupts intestinal barrier integrity through hematopoietic TLR-2 signaling. Journal of Clinical Investigation, 2012, 122, 2239-2251.	3.9	42
27	The food additive E171 and titanium dioxide nanoparticles indirectly alter the homeostasis of human intestinal epithelial cells <i>in vitro</i> . Environmental Science: Nano, 2019, 6, 1549-1561.	2.2	40
28	NOD2 Expression in Intestinal Epithelial Cells Protects Toward the Development of Inflammation and Associated Carcinogenesis. Cellular and Molecular Gastroenterology and Hepatology, 2019, 7, 357-369.	2.3	38
29	Protease-Activated Receptors in the Intestine: Focus on Inflammation and Cancer. Frontiers in Endocrinology, 2019, 10, 717.	1.5	33
30	Neonatal maternal deprivation promotes <i>Nippostrongylus brasiliensis</i> infection in adult rats. Brain, Behavior, and Immunity, 2006, 20, 254-260.	2.0	29
31	<i>Pseudomonas fluorescens</i> Alters the Intestinal Barrier Function by Modulating IL-1 β Expression Through Hematopoietic NOD2 Signaling. Inflammatory Bowel Diseases, 2015, 21, 543-555.	0.9	26
32	Respective Roles of Hematopoietic and Nonhematopoietic Nod2 on the Gut Microbiota and Mucosal Homeostasis. Inflammatory Bowel Diseases, 2016, 22, 763-773.	0.9	24
33	Titanium dioxide particles from the diet: involvement in the genesis of inflammatory bowel diseases and colorectal cancer. Particle and Fibre Toxicology, 2021, 18, 26.	2.8	24
34	Complementary Roles of Nod2 in Hematopoietic and Nonhematopoietic Cells in Preventing Gut Barrier Dysfunction Dependent on MLCK Activity. Inflammatory Bowel Diseases, 2017, 23, 1109-1119.	0.9	22
35	The Interplay Between Genetic Risk Factors and Proteolytic Dysregulation in the Pathophysiology of Inflammatory Bowel Disease. Journal of Crohn's and Colitis, 2020, 14, 1149-1161.	0.6	18
36	Multi-Omics Analysis of Gut Microbiota in Inflammatory Bowel Diseases: What Benefits for Diagnostic, Prognostic and Therapeutic Tools?. International Journal of Molecular Sciences, 2021, 22, 11255.	1.8	12

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37	Increased Proliferation of the Ileal Epithelium as a Remote Effect of Ulcerative Colitis. <i>Inflammatory Bowel Diseases</i> , 2016, 22, 2369-2381.	0.9	11
38	Optimization of biologics to reduce treatment failure in inflammatory bowel diseases. <i>Current Opinion in Pharmacology</i> , 2020, 54, 51-58.	1.7	6
39	Crohn's Disease: Is the Cold Chain Hypothesis Still Hot?. <i>Journal of Crohn's and Colitis</i> , 2021, 15, 678-686.	0.6	6
40	How Can a Polymeric Formula Induce Remission in Crohn's Disease Patients?. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4025.	1.8	6
41	Peripheral Opioid Receptor Blockade Enhances Epithelial Damage in Piroxicam-Accelerated Colitis in IL-10-Deficient Mice. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7387.	1.8	6
42	Sustainable Positive Response to Sirolimus in Juvenile Polyposis of Infancy. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2019, 68, e38-e40.	0.9	5
43	Colitis Linked to Endoplasmic Reticulum Stress Induces Trypsin Activity Affecting Epithelial Functions. <i>Journal of Crohn's and Colitis</i> , 2021, 15, 1528-1541.	0.6	5
44	Nod2 Protects the Gut From Experimental Colitis Spreading to Small Intestine. <i>Journal of Crohn's and Colitis</i> , 2020, 14, 669-679.	0.6	3
45	Multi-Omics Analysis of Gut Microbiota in Inflammatory Bowel Diseases: What Benefits for Diagnostic, Prognostic and Therapeutic Tools?. <i>International Journal of Molecular Sciences</i> , 2021, 22, .	1.8	3