

# Mariana X Byndloss; Mariana N Xavier

## List of Publications by Year in descending order

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72  
papers

8,597  
citations

76196

40  
h-index

85405

71  
g-index

73  
all docs

73  
docs citations

73  
times ranked

10329  
citing authors

#	ARTICLE	IF	CITATIONS
1	Host-Derived Nitrate Boosts Growth of <i>E. coli</i> in the Inflamed Gut. <i>Science</i> , 2013, 339, 708-711.	6.0	798
2	Microbiota-activated PPAR $\beta$ signaling inhibits dysbiotic Enterobacteriaceae expansion. <i>Science</i> , 2017, 357, 570-575.	6.0	796
3	Depletion of Butyrate-Producing Clostridia from the Gut Microbiota Drives an Aerobic Luminal Expansion of Salmonella. <i>Cell Host and Microbe</i> , 2016, 19, 443-454.	5.1	600
4	Intestinal inflammation allows <i>Salmonella</i> to use ethanolamine to compete with the microbiota. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17480-17485.	3.3	551
5	Dysbiotic Proteobacteria expansion: a microbial signature of epithelial dysfunction. <i>Current Opinion in Microbiology</i> , 2017, 39, 1-6.	2.3	420
6	Colonocyte metabolism shapes the gut microbiota. <i>Science</i> , 2018, 362, .	6.0	411
7	NOD1 and NOD2 signalling links ER stress with inflammation. <i>Nature</i> , 2016, 532, 394-397.	13.7	396
8	Precision editing of the gut microbiota ameliorates colitis. <i>Nature</i> , 2018, 553, 208-211.	13.7	377
9	Interactions of the Human Pathogenic <i>Brucella</i> Species with Their Hosts. <i>Annual Review of Microbiology</i> , 2011, 65, 523-541.	2.9	235
10	Manipulation of small Rho GTPases is a pathogen-induced process detected by NOD1. <i>Nature</i> , 2013, 496, 233-237.	13.7	210
11	Phage-Mediated Acquisition of a Type III Secreted Effector Protein Boosts Growth of <i>Salmonella</i> by Nitrate Respiration. <i>MBio</i> , 2012, 3, .	1.8	194
12	Streptomycin-Induced Inflammation Enhances <i>Escherichia coli</i> Gut Colonization Through Nitrate Respiration. <i>MBio</i> , 2013, 4, .	1.8	176
13	Pathogenesis of bovine brucellosis. <i>Veterinary Journal</i> , 2010, 184, 146-155.	0.6	174
14	Commensal Enterobacteriaceae Protect against Salmonella Colonization through Oxygen Competition. <i>Cell Host and Microbe</i> , 2019, 25, 128-139.e5.	5.1	159
15	Virulence factors enhance <i>Citrobacter rodentium</i> expansion through aerobic respiration. <i>Science</i> , 2016, 353, 1249-1253.	6.0	150
16	PPAR $\beta$ -Mediated Increase in Glucose Availability Sustains Chronic <i>Brucella abortus</i> Infection in Alternatively Activated Macrophages. <i>Cell Host and Microbe</i> , 2013, 14, 159-170.	5.1	145
17	Endogenous Enterobacteriaceae underlie variation in susceptibility to Salmonella infection. <i>Nature Microbiology</i> , 2019, 4, 1057-1064.	5.9	141
18	Salmonella Uses Energy Taxis to Benefit from Intestinal Inflammation. <i>PLoS Pathogens</i> , 2013, 9, e1003267.	2.1	139

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19	Respiration of Microbiota-Derived 1,2-propanediol Drives Salmonella Expansion during Colitis. PLoS Pathogens, 2017, 13, e1006129.	2.1	139
20	Pathological, Immunohistochemical and Bacteriological Study of Tissues and Milk of Cows and Fetuses Experimentally Infected with Brucella abortus. Journal of Comparative Pathology, 2009, 140, 149-157.	0.1	134
21	Host-mediated sugar oxidation promotes post-antibiotic pathogen expansion. Nature, 2016, 534, 697-699.	13.7	132
22	High-fat diet-induced colonocyte dysfunction escalates microbiota-derived trimethylamine N-oxide. Science, 2021, 373, 813-818.	6.0	132
23	How To Become a Top Model: Impact of Animal Experimentation on Human Salmonella Disease Research. Infection and Immunity, 2011, 79, 1806-1814.	1.0	121
24	Brucella spp. Virulence Factors and Immunity. Annual Review of Animal Biosciences, 2016, 4, 111-127.	3.6	120
25	The germ-organ theory of non-communicable diseases. Nature Reviews Microbiology, 2018, 16, 103-110.	13.6	117
26	The Periplasmic Nitrate Reductase NapABC Supports Luminal Growth of Salmonella enterica Serovar Typhimurium during Colitis. Infection and Immunity, 2015, 83, 3470-3478.	1.0	105
27	Venereal transmission of canine visceral leishmaniasis. Veterinary Parasitology, 2009, 160, 55-59.	0.7	102
28	CD4+ T Cell-derived IL-10 Promotes Brucella abortus Persistence via Modulation of Macrophage Function. PLoS Pathogens, 2013, 9, e1003454.	2.1	91
29	Malaria Parasite Infection Compromises Control of Concurrent Systemic Non-typhoidal Salmonella Infection via IL-10-Mediated Alteration of Myeloid Cell Function. PLoS Pathogens, 2014, 10, e1004049.	2.1	75
30	Healthy hosts rule within: ecological forces shaping the gut microbiota. Mucosal Immunology, 2018, 11, 1299-1305.	2.7	75
31	Loss of Multicellular Behavior in Epidemic African Nontyphoidal Salmonella enterica Serovar Typhimurium ST313 Strain D23580. MBio, 2016, 7, e02265.	1.8	67
32	Inflammation-associated alterations to the intestinal microbiota reduce colonization resistance against non-typhoidal Salmonella during concurrent malaria parasite infection. Scientific Reports, 2015, 5, 14603.	1.6	65
33	A Salmonella Virulence Factor Activates the NOD1/NOD2 Signaling Pathway. MBio, 2011, 2, .	1.8	59
34	Very Long O-antigen Chains Enhance Fitness during Salmonella-induced Colitis by Increasing Bile Resistance. PLoS Pathogens, 2012, 8, e1002918.	2.1	57
35	5-Aminosalicylic Acid Ameliorates Colitis and Checks Dysbiotic Escherichia coli Expansion by Activating PPAR- $\beta$ Signaling in the Intestinal Epithelium. MBio, 2021, 12, .	1.8	56
36	The mucosal inflammatory response to non-typhoidal Salmonella in the intestine is blunted by IL-10 during concurrent malaria parasite infection. Mucosal Immunology, 2014, 7, 1302-1311.	2.7	51

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37	Loss of Very-Long O-Antigen Chains Optimizes Capsule-Mediated Immune Evasion by <i>Salmonella enterica</i> Serovar Typhi. <i>MBio</i> , 2013, 4, .	1.8	48
38	Genetic Ablation of Butyrate Utilization Attenuates Gastrointestinal <i>Salmonella</i> Disease. <i>Cell Host and Microbe</i> , 2018, 23, 266-273.e4.	5.1	48
39	Naturally acquired visceral leishmaniasis in non-human primates in Brazil. <i>Veterinary Parasitology</i> , 2010, 169, 193-197.	0.7	43
40	Putative ATP-Binding Cassette Transporter Is Essential for <i>Brucella ovis</i> Pathogenesis in Mice. <i>Infection and Immunity</i> , 2011, 79, 1706-1717.	1.0	43
41	Colonization resistance: The deconvolution of a complex trait. <i>Journal of Biological Chemistry</i> , 2017, 292, 8577-8581.	1.6	42
42	Early MyD88-Dependent Induction of Interleukin-17A Expression during <i>Salmonella</i> Colitis. <i>Infection and Immunity</i> , 2011, 79, 3131-3140.	1.0	40
43	Innate immune recognition of flagellin limits systemic persistence of <i>Brucella</i> . <i>Cellular Microbiology</i> , 2013, 15, 942-960.	1.1	38
44	The genus <i>Brucella</i> and clinical manifestations of brucellosis. <i>Ciencia Rural</i> , 2009, 39, 2252-2260.	0.3	36
45	Development and evaluation of a species-specific PCR assay for the detection of <i>Brucella ovis</i> infection in rams. <i>Veterinary Microbiology</i> , 2010, 145, 158-164.	0.8	36
46	Andrological, pathologic, morphometric, and ultrasonographic findings in rams experimentally infected with <i>Brucella ovis</i> . <i>Small Ruminant Research</i> , 2012, 102, 213-222.	0.6	35
47	Neutrophils Are a Source of Gamma Interferon during Acute <i>Salmonella enterica</i> Serovar Typhimurium Colitis. <i>Infection and Immunity</i> , 2014, 82, 1692-1697.	1.0	35
48	Genital lesions and distribution of amastigotes in bitches naturally infected with <i>Leishmania chagasi</i> . <i>Veterinary Parasitology</i> , 2008, 151, 86-90.	0.7	34
49	Natural Antibody Contributes to Host Defense against an Attenuated <i>Brucella abortus</i> virB Mutant. <i>Infection and Immunity</i> , 2009, 77, 3004-3013.	1.0	32
50	Chronic Bacterial Pathogens: Mechanisms of Persistence. <i>Microbiology Spectrum</i> , 2016, 4, .	1.2	28
51	How bacterial pathogens use type III and type IV secretion systems to facilitate their transmission. <i>Current Opinion in Microbiology</i> , 2017, 35, 1-7.	2.3	27
52	<i>Brucella abortus</i> Infection of Placental Trophoblasts Triggers Endoplasmic Reticulum Stress-Mediated Cell Death and Fetal Loss via Type IV Secretion System-Dependent Activation of CHOP. <i>MBio</i> , 2019, 10, .	1.8	27
53	Iron acquisition pathways and colonization of the inflamed intestine by <i>Salmonella enterica</i> serovar Typhimurium. <i>International Journal of Medical Microbiology</i> , 2016, 306, 604-610.	1.5	26
54	Gut Epithelial Metabolism as a Key Driver of Intestinal Dysbiosis Associated with Noncommunicable Diseases. <i>Infection and Immunity</i> , 2020, 88, .	1.0	24

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55	Species-specific multiplex PCR for the diagnosis of <i>Brucella ovis</i> , <i>Actinobacillus seminis</i> , and <i>Histophilus somni</i> infection in rams. <i>BMC Veterinary Research</i> , 2013, 9, 51.	0.7	20
56	Critical role of bacterial dissemination in an infant rabbit model of bacillary dysentery. <i>Nature Communications</i> , 2019, 10, 1826.	5.8	20
57	NOD1 and NOD2: New Functions Linking Endoplasmic Reticulum Stress and Inflammation. <i>DNA and Cell Biology</i> , 2016, 35, 311-313.	0.9	18
58	The Predicted ABC Transporter AbcEDCBA Is Required for Type IV Secretion System Expression and Lysosomal Evasion by <i>Brucella ovis</i> . <i>PLoS ONE</i> , 2014, 9, e114532.	1.1	18
59	Colonization resistance: metabolic warfare as a strategy against pathogenic Enterobacteriaceae. <i>Current Opinion in Microbiology</i> , 2021, 64, 82-90.	2.3	17
60	A comparison of two agar gel immunodiffusion methods and a complement fixation test for serologic diagnosis of <i>Brucella ovis</i> infection in experimentally infected rams. <i>Arquivo Brasileiro De Medicina Veterinaria E Zootecnia</i> , 2011, 63, 1016-1021.	0.1	13
61	Enteric Pathology and <i>Salmonella</i> -Induced Cell Death in Healthy and SIV-Infected Rhesus Macaques. <i>Veterinary Pathology</i> , 2011, 48, 933-941.	0.8	11
62	cDNA sequencing and expression of <i>Nramp1</i> ( <i>Slc11a1</i> ) in dogs phenotypically resistant or susceptible to visceral leishmaniasis. <i>Veterinary Immunology and Immunopathology</i> , 2009, 127, 332-339.	0.5	10
63	Effect of extender supplementation with various antimicrobial agents on viability of <i>Brucella ovis</i> and <i>Actinobacillus seminis</i> in cryopreserved ovine semen. <i>Theriogenology</i> , 2010, 74, 1476-1481.	0.9	10
64	NOD1/NOD2 and RIP2 Regulate Endoplasmic Reticulum Stress-Induced Inflammation during <i>Chlamydia</i> Infection. <i>MBio</i> , 2020, 11, .	1.8	9
65	Indirect ELISA for diagnosis of <i>Brucella ovis</i> infection in rams. <i>Arquivo Brasileiro De Medicina Veterinaria E Zootecnia</i> , 2014, 66, 1695-1702.	0.1	7
66	How to thrive in the inflamed gut. <i>Nature Microbiology</i> , 2020, 5, 10-11.	5.9	7
67	Tumor Necrosis Factor Alpha Contributes to Inflammatory Pathology in the Placenta during <i>Brucella abortus</i> Infection. <i>Infection and Immunity</i> , 2022, 90, iai0001322.	1.0	7
68	Species-specific nested PCR as a diagnostic tool for <i>Brucella ovis</i> infection in rams. <i>Arquivo Brasileiro De Medicina Veterinaria E Zootecnia</i> , 2013, 65, 55-60.	0.1	5
69	Microbial management. <i>Science</i> , 2020, 369, 153-153.	6.0	4
70	TAKING on cancer. <i>Cell Host and Microbe</i> , 2021, 29, 851-853.	5.1	4
71	Toward Cell Type-Specific In Vivo Dual RNA-Seq. <i>Methods in Enzymology</i> , 2018, 612, 505-522.	0.4	3
72	Trick and no treat: Carbohydrate preemption by commensal Enterobacteriaceae. <i>Cell Host and Microbe</i> , 2021, 29, 1606-1608.	5.1	0