

Sarkis K Mazmanian

List of Publications by Citations

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91
papers

34,282
citations

69
h-index

99
g-index

99
ext. papers

41,911
ext. citations

22.1
avg, IF

7.76
L-index

#	Paper	IF	Citations
91	The gut microbiota shapes intestinal immune responses during health and disease. <i>Nature Reviews Immunology</i> , 2009 , 9, 313-23	36.5	3119
90	An immunomodulatory molecule of symbiotic bacteria directs maturation of the host immune system. <i>Cell</i> , 2005 , 122, 107-18	56.2	1966
89	Microbiota modulate behavioral and physiological abnormalities associated with neurodevelopmental disorders. <i>Cell</i> , 2013 , 155, 1451-63	56.2	1963
88	A microbial symbiosis factor prevents intestinal inflammatory disease. <i>Nature</i> , 2008 , 453, 620-5	50.4	1698
87	Indigenous bacteria from the gut microbiota regulate host serotonin biosynthesis. <i>Cell</i> , 2015 , 161, 264-76	56.2	1602
86	Gut Microbiota Regulate Motor Deficits and Neuroinflammation in a Model of Parkinson's Disease. <i>Cell</i> , 2016 , 167, 1469-1480.e12	56.2	1558
85	Inducible Foxp3+ regulatory T-cell development by a commensal bacterium of the intestinal microbiota. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 12204-9	11.5	1502
84	Animals in a bacterial world, a new imperative for the life sciences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3229-36	11.5	1488
83	Gut biogeography of the bacterial microbiota. <i>Nature Reviews Microbiology</i> , 2016 , 14, 20-32	22.2	1164
82	The Toll-like receptor 2 pathway establishes colonization by a commensal of the human microbiota. <i>Science</i> , 2011 , 332, 974-7	33.3	1106
81	Proinflammatory T-cell responses to gut microbiota promote experimental autoimmune encephalomyelitis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108 Suppl 1, 4615-22	11.5	904
80	Staphylococcus aureus sortase, an enzyme that anchors surface proteins to the cell wall. <i>Science</i> , 1999 , 285, 760-3	33.3	795
79	Has the microbiota played a critical role in the evolution of the adaptive immune system?. <i>Science</i> , 2010 , 330, 1768-73	33.3	784
78	Communicable ulcerative colitis induced by T-bet deficiency in the innate immune system. <i>Cell</i> , 2007 , 131, 33-45	56.2	735
77	The Central Nervous System and the Gut Microbiome. <i>Cell</i> , 2016 , 167, 915-932	56.2	630
76	Control of brain development, function, and behavior by the microbiome. <i>Cell Host and Microbe</i> , 2015 , 17, 565-76	23.4	570
75	Gut microbes and the brain: paradigm shift in neuroscience. <i>Journal of Neuroscience</i> , 2014 , 34, 15490-6	6.6	515

74	Engineered AAVs for efficient noninvasive gene delivery to the central and peripheral nervous systems. <i>Nature Neuroscience</i> , 2017 , 20, 1172-1179	25.5	482
73	Passage of heme-iron across the envelope of <i>Staphylococcus aureus</i> . <i>Science</i> , 2003 , 299, 906-9	33.3	480
72	Commensal bacteria protect against food allergen sensitization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 13145-50	11.5	476
71	Purification and characterization of sortase, the transpeptidase that cleaves surface proteins of <i>Staphylococcus aureus</i> at the LPXTG motif. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 12424-9	11.5	464
70	Gut bacteria from multiple sclerosis patients modulate human T cells and exacerbate symptoms in mouse models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 10713-10718	11.5	453
69	Outer membrane vesicles of a human commensal mediate immune regulation and disease protection. <i>Cell Host and Microbe</i> , 2012 , 12, 509-20	23.4	387
68	Human Gut Microbiota from Autism Spectrum Disorder Promote Behavioral Symptoms in Mice. <i>Cell</i> , 2019 , 177, 1600-1618.e17	56.2	379
67	Bacterial colonization factors control specificity and stability of the gut microbiota. <i>Nature</i> , 2013 , 501, 426-9	50.4	373
66	<i>Staphylococcus aureus</i> sortase mutants defective in the display of surface proteins and in the pathogenesis of animal infections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 5510-5	11.5	371
65	Gut microbiota promote hematopoiesis to control bacterial infection. <i>Cell Host and Microbe</i> , 2014 , 15, 374-81	23.4	370
64	Innate immune recognition of the microbiota promotes host-microbial symbiosis. <i>Nature Immunology</i> , 2013 , 14, 668-75	19.1	366
63	Gene-microbiota interactions contribute to the pathogenesis of inflammatory bowel disease. <i>Science</i> , 2016 , 352, 1116-20	33.3	355
62	Specialized metabolites from the microbiome in health and disease. <i>Cell Metabolism</i> , 2014 , 20, 719-730	24.6	337
61	An iron-regulated sortase anchors a class of surface protein during <i>Staphylococcus aureus</i> pathogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 2293-8	11.5	312
60	Sortase-catalysed anchoring of surface proteins to the cell wall of <i>Staphylococcus aureus</i> . <i>Molecular Microbiology</i> , 2001 , 40, 1049-57	4.1	306
59	Gut microbiota utilize immunoglobulin A for mucosal colonization. <i>Science</i> , 2018 , 360, 795-800	33.3	284
58	Pathobionts of the gastrointestinal microbiota and inflammatory disease. <i>Current Opinion in Immunology</i> , 2011 , 23, 473-80	7.8	277
57	A microbiota signature associated with experimental food allergy promotes allergic sensitization and anaphylaxis. <i>Journal of Allergy and Clinical Immunology</i> , 2013 , 131, 201-12	11.5	273

56	Host-bacterial symbiosis in health and disease. <i>Advances in Immunology</i> , 2010 , 107, 243-74	5.6	271
55	The love-hate relationship between bacterial polysaccharides and the host immune system. <i>Nature Reviews Immunology</i> , 2006 , 6, 849-58	36.5	258
54	Modeling an autism risk factor in mice leads to permanent immune dysregulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 12776-81	11.5	247
53	Anchoring of surface proteins to the cell wall of <i>Staphylococcus aureus</i> . Sortase catalyzed in vitro transpeptidation reaction using LPXTG peptide and NH(2)-Gly(3) substrates. <i>Journal of Biological Chemistry</i> , 2000 , 275, 9876-81	5.4	231
52	Protecting the Newborn and Young Infant from Infectious Diseases: Lessons from Immune Ontogeny. <i>Immunity</i> , 2017 , 46, 350-363	32.3	214
51	A pathobiont of the microbiota balances host colonization and intestinal inflammation. <i>Cell Host and Microbe</i> , 2010 , 7, 265-276	23.4	211
50	The Enteric Network: Interactions between the Immune and Nervous Systems of the Gut. <i>Immunity</i> , 2017 , 46, 910-926	32.3	207
49	The gut microbiota-brain axis in behaviour and brain disorders. <i>Nature Reviews Microbiology</i> , 2021 , 19, 241-255	22.2	207
48	Finding the missing links among metabolites, microbes, and the host. <i>Immunity</i> , 2014 , 40, 824-32	32.3	198
47	Inactivation of the <i>srtA</i> gene in <i>Listeria monocytogenes</i> inhibits anchoring of surface proteins and affects virulence. <i>Molecular Microbiology</i> , 2002 , 43, 869-81	4.1	197
46	Coordination of tolerogenic immune responses by the commensal microbiota. <i>Journal of Autoimmunity</i> , 2010 , 34, J220-5	15.5	187
45	Anchoring of surface proteins to the cell wall of <i>Staphylococcus aureus</i> . III. Lipid II is an in vivo peptidoglycan substrate for sortase-catalyzed surface protein anchoring. <i>Journal of Biological Chemistry</i> , 2002 , 277, 16241-8	5.4	169
44	Intestinal microbes affect phenotypes and functions of invariant natural killer T cells in mice. <i>Gastroenterology</i> , 2012 , 143, 418-28	13.3	153
43	Intestinal Microbes in Inflammatory Bowel Diseases. <i>American Journal of Gastroenterology Supplements (Print)</i> , 2012 , 1, 15-21		145
42	Anchoring of surface proteins to the cell wall of <i>Staphylococcus aureus</i> . Cysteine 184 and histidine 120 of sortase form a thiolate-imidazolium ion pair for catalysis. <i>Journal of Biological Chemistry</i> , 2002 , 277, 7447-52	5.4	134
41	Microbiome-microglia connections via the gut-brain axis. <i>Journal of Experimental Medicine</i> , 2019 , 216, 41-59	16.6	131
40	Global chemical effects of the microbiome include new bile-acid conjugations. <i>Nature</i> , 2020 , 579, 123-129	90.4	129
39	The placental interleukin-6 signaling controls fetal brain development and behavior. <i>Brain, Behavior, and Immunity</i> , 2017 , 62, 11-23	16.6	120

38	Gut-seeded β -synuclein fibrils promote gut dysfunction and brain pathology specifically in aged mice. <i>Nature Neuroscience</i> , 2020 , 23, 327-336	25.5	118
37	A gut bacterial amyloid promotes β -synuclein aggregation and motor impairment in mice. <i>ELife</i> , 2020 , 9,	8.9	117
36	A gut microbial factor modulates locomotor behaviour in <i>Drosophila</i> . <i>Nature</i> , 2018 , 563, 402-406	50.4	116
35	Disruption of the gut microbiome as a risk factor for microbial infections. <i>Current Opinion in Microbiology</i> , 2013 , 16, 221-7	7.9	112
34	<i>Bacteroides fragilis</i> polysaccharide A induces IL-10 secreting B and T cells that prevent viral encephalitis. <i>Nature Communications</i> , 2019 , 10, 2153	17.4	95
33	Distinct mechanisms define murine B cell lineage immunoglobulin heavy chain (IgH) repertoires. <i>ELife</i> , 2015 , 4, e09083	8.9	95
32	Mapping a multiplexed zoo of mRNA expression. <i>Development (Cambridge)</i> , 2016 , 143, 3632-3637	6.6	95
31	The human commensal <i>Bacteroides fragilis</i> binds intestinal mucin. <i>Anaerobe</i> , 2011 , 17, 137-41	2.8	94
30	Regulation of surface architecture by symbiotic bacteria mediates host colonization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 3951-6	11.5	92
29	The role of <i>Staphylococcus aureus</i> sortase A and sortase B in murine arthritis. <i>Microbes and Infection</i> , 2003 , 5, 775-80	9.3	91
28	On the role of <i>Staphylococcus aureus</i> sortase and sortase-catalyzed surface protein anchoring in murine septic arthritis. <i>Journal of Infectious Diseases</i> , 2002 , 185, 1417-24	7	88
27	A program of <i>Yersinia enterocolitica</i> type III secretion reactions is activated by specific signals. <i>Journal of Bacteriology</i> , 2001 , 183, 4970-8	3.5	77
26	Myeloid-Derived Suppressor Cells Are Controlled by Regulatory T Cells via TGF- β During Murine Colitis. <i>Cell Reports</i> , 2016 , 17, 3219-3232	10.6	73
25	Diverse Intestinal Bacteria Contain Putative Zwitterionic Capsular Polysaccharides with Anti-inflammatory Properties. <i>Cell Host and Microbe</i> , 2016 , 20, 535-547	23.4	73
24	The structure of sortase B, a cysteine transpeptidase that tethers surface protein to the <i>Staphylococcus aureus</i> cell wall. <i>Structure</i> , 2004 , 12, 105-12	5.2	72
23	Structures of sortase B from <i>Staphylococcus aureus</i> and <i>Bacillus anthracis</i> reveal catalytic amino acid triad in the active site. <i>Structure</i> , 2004 , 12, 1147-56	5.2	70
22	Gut microbial molecules in behavioural and neurodegenerative conditions. <i>Nature Reviews Neuroscience</i> , 2020 , 21, 717-731	13.5	67
21	The Protective Role of in a Murine Model of Colitis-Associated Colorectal Cancer. <i>MSphere</i> , 2018 , 3,	5	55

20	Identification of secreted bacterial proteins by noncanonical amino acid tagging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 433-8	11.5	50
19	Getting the bugs out of the immune system: do bacterial microbiota "fix" intestinal T cell responses?. <i>Cell Host and Microbe</i> , 2009 , 5, 8-12	23.4	43
18	Interleukin-15 promotes intestinal dysbiosis with butyrate deficiency associated with increased susceptibility to colitis. <i>ISME Journal</i> , 2017 , 11, 15-30	11.9	36
17	Capsular polysaccharides of symbiotic bacteria modulate immune responses during experimental colitis. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2008 , 46 Suppl 1, E11-2	2.8	33
16	Plasma and Fecal Metabolite Profiles in Autism Spectrum Disorder. <i>Biological Psychiatry</i> , 2021 , 89, 451-462	14.2	33
15	Spatially distinct physiology of <i>Bacteroides fragilis</i> within the proximal colon of gnotobiotic mice. <i>Nature Microbiology</i> , 2020 , 5, 746-756	26.6	31
14	The Microbiome Activates CD4 T-cell-mediated Immunity to Compensate for Increased Intestinal Permeability. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2017 , 4, 285-297	7.9	31
13	A gut-derived metabolite alters brain activity and anxiety behaviour in mice.. <i>Nature</i> , 2022 ,	50.4	25
12	Emerging evidence linking the gut microbiome to neurologic disorders. <i>Genome Medicine</i> , 2018 , 10, 98	14.4	22
11	Microbiota regulate social behaviour via stress response neurons in the brain. <i>Nature</i> , 2021 , 595, 409-414	50.4	21
10	Microbial learning lessons: SFB educate the immune system. <i>Immunity</i> , 2014 , 40, 457-9	32.3	14
9	Interplay between Intestinal Microbiota and Host Immune System. <i>Journal of Bacteriology and Virology</i> , 2014 , 44, 1	0.3	9
8	Gut immune balance is as easy as S-F-B. <i>Immunity</i> , 2009 , 31, 536-8	32.3	9
7	An embarrassment of sortases & richness of substrates? Response. <i>Trends in Microbiology</i> , 2001 , 9, 101-102	10.4	9
6	Safety and target engagement of an oral small-molecule sequestrant in adolescents with autism spectrum disorder: an open-label phase 1b/2a trial.. <i>Nature Medicine</i> , 2022 ,	50.5	7
5	Microbiota-brain axis: Context and causality. <i>Science</i> , 2022 , 376, 938-939	33.3	5
4	Plasma and Fecal Metabolite Profiles in Autism Spectrum Disorder		3
3	Winning the Microbial Battle, but Not the War. <i>Cell</i> , 2015 , 163, 271-2	56.2	2

2	Gut microbiome-mediated regulation of neuroinflammation.. <i>Current Opinion in Immunology</i> , 2022 , 76, 102177	7.8	2
1	Impaired gut barrier affects microglia health.. <i>Nature Neuroscience</i> , 2022 , 25, 268-270	25.5	1