Sarkis K Mazmanian

List of Publications by Year in Descending Order

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	A gut-derived metabolite alters brain activity and anxiety behaviour in mice.. *Nature*, **2022**,	50.4	25
90	Safety and target engagement of an oral small-molecule sequestrant in adolescents with autism spectrum disorder: an open-label phase 1b/2a trial.. *Nature Medicine*, **2022**,	50.5	7
89	Impaired gut barrier affects microglia health.. *Nature Neuroscience*, **2022**, 25, 268-270	25.5	1
88	Gut microbiome-mediated regulation of neuroinflammation.. *Current Opinion in Immunology*, **2022**, 76, 102177	7.8	2
87	Microbiota□brain axis: Context and causality. *Science*, **2022**, 376, 938-939	33.3	5
86	Microbiota regulate social behaviour via stress response neurons in the brain. *Nature*, **2021**, 595, 409-414	50.4	21
85	Plasma and Fecal Metabolite Profiles in Autism Spectrum Disorder. *Biological Psychiatry*, **2021**, 89, 451-462	7.9	33
84	The gut microbiota-brain axis in behaviour and brain disorders. *Nature Reviews Microbiology*, **2021**, 19, 241-255	22.2	207
83	Spatially distinct physiology of Bacteroides fragilis within the proximal colon of gnotobiotic mice. *Nature Microbiology*, **2020**, 5, 746-756	26.6	31
82	Global chemical effects of the microbiome include new bile-acid conjugations. *Nature*, **2020**, 579, 123-129	50.4	129
81	Gut-seeded □synuclein fibrils promote gut dysfunction and brain pathology specifically in aged mice. *Nature Neuroscience*, **2020**, 23, 327-336	25.5	118
80	A gut bacterial amyloid promotes □synuclein aggregation and motor impairment in mice. *ELife*, **2020**, 9,	8.9	117
79	Gut microbial molecules in behavioural and neurodegenerative conditions. *Nature Reviews Neuroscience*, **2020**, 21, 717-731	13.5	67
78	Human Gut Microbiota from Autism Spectrum Disorder Promote Behavioral Symptoms in Mice. *Cell* , **2019**, 177, 1600-1618.e17	56.2	379
77	Bacteroides fragilis polysaccharide A induces IL-10 secreting B and T cells that prevent viral encephalitis. *Nature Communications*, **2019**, 10, 2153	17.4	95
76	Microbiome-microglia connections via the gut-brain axis. *Journal of Experimental Medicine*, **2019**, 216, 41-59	16.6	131
75	Gut microbiota utilize immunoglobulin A for mucosal colonization. *Science*, **2018**, 360, 795-800	33.3	284

74	The Protective Role of in a Murine Model of Colitis-Associated Colorectal Cancer. *MSphere*, **2018**, 3,	5	55
73	Emerging evidence linking the gut microbiome to neurologic disorders. *Genome Medicine*, **2018**, 10, 98	14.4	22
72	A gut microbial factor modulates locomotor behaviour in Drosophila. *Nature*, **2018**, 563, 402-406	50.4	116
71	The Enteric Network: Interactions between the Immune and Nervous Systems of the Gut. *Immunity*, **2017**, 46, 910-926	32.3	207
70	Protecting the Newborn and Young Infant from Infectious Diseases: Lessons from Immune Ontogeny. *Immunity*, **2017**, 46, 350-363	32.3	214
69	Gut bacteria from multiple sclerosis patients modulate human T cells and exacerbate symptoms in mouse models. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 10713-10718	11.5	453
68	The Microbiome Activates CD4 T-cell-mediated Immunity to Compensate for Increased Intestinal Permeability. *Cellular and Molecular Gastroenterology and Hepatology*, **2017**, 4, 285-297	7.9	31
67	Engineered AAVs for efficient noninvasive gene delivery to the central and peripheral nervous systems. *Nature Neuroscience*, **2017**, 20, 1172-1179	25.5	482
66	The placental interleukin-6 signaling controls fetal brain development and behavior. *Brain, Behavior, and Immunity*, **2017**, 62, 11-23	16.6	120
65	Interleukin-15 promotes intestinal dysbiosis with butyrate deficiency associated with increased susceptibility to colitis. *ISME Journal*, **2017**, 11, 15-30	11.9	36
64	The Central Nervous System and the Gut Microbiome. *Cell*, **2016**, 167, 915-932	56.2	630
63	Gut biogeography of the bacterial microbiota. *Nature Reviews Microbiology*, **2016**, 14, 20-32	22.2	1164
62	Gut Microbiota Regulate Motor Deficits and Neuroinflammation in a Model of Parkinson's Disease. *Cell*, **2016**, 167, 1469-1480.e12	56.2	1558
61	Myeloid-Derived Suppressor Cells Are Controlled by Regulatory T Cells via TGF- during Murine Colitis. *Cell Reports*, **2016**, 17, 3219-3232	10.6	73
60	Gene-microbiota interactions contribute to the pathogenesis of inflammatory bowel disease. *Science*, **2016**, 352, 1116-20	33.3	355
59	Diverse Intestinal Bacteria Contain Putative Zwitterionic Capsular Polysaccharides with Anti-inflammatory Properties. *Cell Host and Microbe*, **2016**, 20, 535-547	23.4	73
58	Mapping a multiplexed zoo of mRNA expression. *Development (Cambridge)*, **2016**, 143, 3632-3637	6.6	95
57	Control of brain development, function, and behavior by the microbiome. *Cell Host and Microbe*, **2015**, 17, 565-76	23.4	570

56	Indigenous bacteria from the gut microbiota regulate host serotonin biosynthesis. *Cell*, **2015**, 161, 264-76	56.2	1602
55	Winning the Microbial Battle, but Not the War. *Cell*, **2015**, 163, 271-2	56.2	2
54	Distinct mechanisms define murine B cell lineage immunoglobulin heavy chain (IgH) repertoires. *ELife*, **2015**, 4, e09083	8.9	95
53	Gut microbiota promote hematopoiesis to control bacterial infection. *Cell Host and Microbe*, **2014**, 15, 374-81	23.4	370
52	Specialized metabolites from the microbiome in health and disease. *Cell Metabolism*, **2014**, 20, 719-730	24.6	337
51	Gut microbes and the brain: paradigm shift in neuroscience. *Journal of Neuroscience*, **2014**, 34, 15490-6	6.6	515
50	Finding the missing links among metabolites, microbes, and the host. *Immunity*, **2014**, 40, 824-32	32.3	198
49	Commensal bacteria protect against food allergen sensitization. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 13145-50	11.5	476
48	Microbial learning lessons: SFB educate the immune system. *Immunity*, **2014**, 40, 457-9	32.3	14
47	Interplay between Intestinal Microbiota and Host Immune System. *Journal of Bacteriology and Virology*, **2014**, 44, 1	0.3	9
46	Identification of secreted bacterial proteins by noncanonical amino acid tagging. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 433-8	11.5	50
45	Disruption of the gut microbiome as a risk factor for microbial infections. *Current Opinion in Microbiology*, **2013**, 16, 221-7	7.9	112
44	Bacterial colonization factors control specificity and stability of the gut microbiota. *Nature*, **2013**, 501, 426-9	50.4	373
43	Microbiota modulate behavioral and physiological abnormalities associated with neurodevelopmental disorders. *Cell*, **2013**, 155, 1451-63	56.2	1963
42	Animals in a bacterial world, a new imperative for the life sciences. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 3229-36	11.5	1488
41	Innate immune recognition of the microbiota promotes host-microbial symbiosis. *Nature Immunology*, **2013**, 14, 668-75	19.1	366
40	A microbiota signature associated with experimental food allergy promotes allergic sensitization and anaphylaxis. *Journal of Allergy and Clinical Immunology*, **2013**, 131, 201-12	11.5	273
39	Outer membrane vesicles of a human commensal mediate immune regulation and disease protection. *Cell Host and Microbe*, **2012**, 12, 509-20	23.4	387

38	Intestinal Microbes in Inflammatory Bowel Diseases. *American Journal of Gastroenterology Supplements (Print)*, **2012**, 1, 15-21		145
37	Modeling an autism risk factor in mice leads to permanent immune dysregulation. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 12776-81	11.5	247
36	Intestinal microbes affect phenotypes and functions of invariant natural killer T cells in mice. *Gastroenterology*, **2012**, 143, 418-28	13.3	153
35	Pathobionts of the gastrointestinal microbiota and inflammatory disease. *Current Opinion in Immunology*, **2011**, 23, 473-80	7.8	277
34	The Toll-like receptor 2 pathway establishes colonization by a commensal of the human microbiota. *Science*, **2011**, 332, 974-7	33.3	1106
33	The human commensal Bacteroides fragilis binds intestinal mucin. *Anaerobe*, **2011**, 17, 137-41	2.8	94
32	Proinflammatory T-cell responses to gut microbiota promote experimental autoimmune encephalomyelitis. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108 Suppl 1, 4615-22	11.5	904
31	Inducible Foxp3+ regulatory T-cell development by a commensal bacterium of the intestinal microbiota. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 12204-9	11.5	1502
30	Coordination of tolerogenic immune responses by the commensal microbiota. *Journal of Autoimmunity*, **2010**, 34, J220-5	15.5	187
29	A pathobiont of the microbiota balances host colonization and intestinal inflammation. *Cell Host and Microbe*, **2010**, 7, 265-276	23.4	211
28	Has the microbiota played a critical role in the evolution of the adaptive immune system?. *Science*, **2010**, 330, 1768-73	33.3	784
27	Host-bacterial symbiosis in health and disease. *Advances in Immunology*, **2010**, 107, 243-74	5.6	271
26	The gut microbiota shapes intestinal immune responses during health and disease. *Nature Reviews Immunology*, **2009**, 9, 313-23	36.5	3119
25	Gut immune balance is as easy as S-F-B. *Immunity*, **2009**, 31, 536-8	32.3	9
24	Getting the bugs out of the immune system: do bacterial microbiota "fix" intestinal T cell responses?. *Cell Host and Microbe*, **2009**, 5, 8-12	23.4	43
23	A microbial symbiosis factor prevents intestinal inflammatory disease. *Nature*, **2008**, 453, 620-5	50.4	1698
22	Regulation of surface architecture by symbiotic bacteria mediates host colonization. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 3951-6	11.5	92
21	Capsular polysaccharides of symbiotic bacteria modulate immune responses during experimental colitis. *Journal of Pediatric Gastroenterology and Nutrition*, **2008**, 46 Suppl 1, E11-2	2.8	33

20	Communicable ulcerative colitis induced by T-bet deficiency in the innate immune system. *Cell*, **2007**, 131, 33-45	56.2	735
19	The love-hate relationship between bacterial polysaccharides and the host immune system. *Nature Reviews Immunology*, **2006**, 6, 849-58	36.5	258
18	An immunomodulatory molecule of symbiotic bacteria directs maturation of the host immune system. *Cell*, **2005**, 122, 107-18	56.2	1966
17	The structure of sortase B, a cysteine transpeptidase that tethers surface protein to the Staphylococcus aureus cell wall. *Structure*, **2004**, 12, 105-12	5.2	72
16	Structures of sortase B from Staphylococcus aureus and Bacillus anthracis reveal catalytic amino acid triad in the active site. *Structure*, **2004**, 12, 1147-56	5.2	70
15	The role of Staphylococcus aureus sortase A and sortase B in murine arthritis. *Microbes and Infection*, **2003**, 5, 775-80	9.3	91
14	Passage of heme-iron across the envelope of Staphylococcus aureus. *Science*, **2003**, 299, 906-9	33.3	480
13	Inactivation of the srtA gene in Listeria monocytogenes inhibits anchoring of surface proteins and affects virulence. *Molecular Microbiology*, **2002**, 43, 869-81	4.1	197
12	An iron-regulated sortase anchors a class of surface protein during Staphylococcus aureus pathogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 2293-8	11.5	312
11	Anchoring of surface proteins to the cell wall of Staphylococcus aureus. III. Lipid II is an in vivo peptidoglycan substrate for sortase-catalyzed surface protein anchoring. *Journal of Biological Chemistry*, **2002**, 277, 16241-8	5.4	169
10	On the role of Staphylococcus aureus sortase and sortase-catalyzed surface protein anchoring in murine septic arthritis. *Journal of Infectious Diseases*, **2002**, 185, 1417-24	7	88
9	Anchoring of surface proteins to the cell wall of Staphylococcus aureus. Cysteine 184 and histidine 120 of sortase form a thiolate-imidazolium ion pair for catalysis. *Journal of Biological Chemistry*, **2002**, 277, 7447-52	5.4	134
8	Sortase-catalysed anchoring of surface proteins to the cell wall of Staphylococcus aureus. *Molecular Microbiology*, **2001**, 40, 1049-57	4.1	306
7	A program of Yersinia enterocolitica type III secretion reactions is activated by specific signals. *Journal of Bacteriology*, **2001**, 183, 4970-8	3.5	77
6	An embarrassment of sortases □ a richness of substrates? Response. *Trends in Microbiology*, **2001**, 9, 101-102	10.4	9
5	Staphylococcus aureus sortase mutants defective in the display of surface proteins and in the pathogenesis of animal infections. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 5510-5	11.5	371
4	Anchoring of surface proteins to the cell wall of Staphylococcus aureus. Sortase catalyzed in vitro transpeptidation reaction using LPXTG peptide and NH(2)-Gly(3) substrates. *Journal of Biological Chemistry*, **2000**, 275, 9876-81	5.4	231
3	Purification and characterization of sortase, the transpeptidase that cleaves surface proteins of Staphylococcus aureus at the LPXTG motif. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 12424-9	11.5	464

2	Staphylococcus aureus sortase, an enzyme that anchors surface proteins to the cell wall. *Science*, **1999**, 285, 760-3	33.3	795
1	Plasma and Fecal Metabolite Profiles in Autism Spectrum Disorder		3