Edward A Miao

List of Publications by Citations

63 papers	11,956 citations	40 h-index	73 g-index
73 ext. papers	14,685 ext. citations	14.7 avg, IF	6.55 L-index

#	Paper	IF	Citations
63	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. *Cell Death and Differentiation*, **2018**, 25, 486-541	12.7	2160
62	Cytoplasmic flagellin activates caspase-1 and secretion of interleukin 1beta via Ipaf. *Nature Immunology*, **2006**, 7, 569-75	19.1	891
61	Caspase-1-induced pyroptosis is an innate immune effector mechanism against intracellular bacteria. *Nature Immunology*, **2010**, 11, 1136-42	19.1	852
60	Cytoplasmic LPS activates caspase-11: implications in TLR4-independent endotoxic shock. *Science*, **2013**, 341, 1250-3	33.3	763
59	Caspase-1-induced pyroptotic cell death. *Immunological Reviews*, **2011**, 243, 206-14	11.3	690
58	Innate immune detection of the type III secretion apparatus through the NLRC4 inflammasome. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 3076-80	11.5	575
57	Pyroptotic cell death defends against intracellular pathogens. *Immunological Reviews*, **2015**, 265, 130-42	11.3	482
56	Programmed cell death as a defence against infection. *Nature Reviews Immunology*, **2017**, 17, 151-164	36.5	451
55	Gasdermins: Effectors of Pyroptosis. *Trends in Cell Biology*, **2017**, 27, 673-684	18.3	390
54	Caspase-11 protects against bacteria that escape the vacuole. *Science*, **2013**, 339, 975-8	33.3	374
53	Mechanisms of NOD-like receptor-associated inflammasome activation. *Immunity*, **2013**, 39, 432-41	32.3	299
52	Pseudomonas aeruginosa activates caspase 1 through Ipaf. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 2562-7	11.5	242
51	Salmonella typhimurium leucine-rich repeat proteins are targeted to the SPI1 and SPI2 type III secretion systems. *Molecular Microbiology*, **1999**, 34, 850-64	4.1	229
50	Guanylate binding proteins promote caspase-11-dependent pyroptosis in response to cytoplasmic LPS. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 6046-51	11.5	219
49	TLR5 and Ipaf: dual sensors of bacterial flagellin in the innate immune system. *Seminars in Immunopathology*, **2007**, 29, 275-88	12	216
48	Staphylococcus aureus evades lysozyme-based peptidoglycan digestion that links phagocytosis, inflammasome activation, and IL-1beta secretion. *Cell Host and Microbe*, **2010**, 7, 38-49	23.4	200
47	Pyroptosis triggers pore-induced intracellular traps (PITs) that capture bacteria and lead to their clearance by efferocytosis. *Journal of Experimental Medicine*, **2016**, 213, 2113-28	16.6	196

46	Caspase-11-mediated endothelial pyroptosis underlies endotoxemia-induced lung injury. *Journal of Clinical Investigation*, **2017**, 127, 4124-4135	15.9	185
45	Inflammasome-mediated pyroptotic and apoptotic cell death, and defense against infection. *Current Opinion in Microbiology*, **2013**, 16, 319-26	7.9	183
44	Multiple Nod-like receptors activate caspase 1 during Listeria monocytogenes infection. *Journal of Immunology*, **2008**, 180, 7558-64	5.3	151
43	Identification of a putative Salmonella enterica serotype typhimurium host range factor with homology to IpaH and YopM by signature-tagged mutagenesis. *Infection and Immunity*, **1999**, 67, 6385-93	3.7	151
42	Virus binding to a plasma membrane receptor triggers interleukin-1 alpha-mediated proinflammatory macrophage response in vivo. *Immunity*, **2009**, 31, 110-21	32.3	149
41	Cutting edge: Mouse NAIP1 detects the type III secretion system needle protein. *Journal of Immunology*, **2013**, 191, 3986-9	5.3	135
40	Interferon-□therapy against EAE is effective only when development of the disease depends on the NLRP3 inflammasome. *Science Signaling*, **2012**, 5, ra38	8.8	126
39	Cutting edge: Cytosolic bacterial DNA activates the inflammasome via Aim2. *Journal of Immunology* , **2010**, 185, 818-21	5.3	122
38	Salmonella effectors translocated across the vacuolar membrane interact with the actin cytoskeleton. *Molecular Microbiology*, **2003**, 48, 401-15	4.1	120
37	The NLRP3 inflammasome detects encephalomyocarditis virus and vesicular stomatitis virus infection. *Journal of Virology*, **2011**, 85, 4167-72	6.6	107
36	Differential requirements for NAIP5 in activation of the NLRC4 inflammasome. *Infection and Immunity*, **2011**, 79, 1606-14	3.7	105
35	Guanylate binding proteins enable rapid activation of canonical and noncanonical inflammasomes in Chlamydia-infected macrophages. *Infection and Immunity*, **2015**, 83, 4740-9	3.7	102
34	Detection of pyroptosis by measuring released lactate dehydrogenase activity. *Methods in Molecular Biology*, **2013**, 1040, 85-90	1.4	98
33	IL-1□IL-18, and eicosanoids promote neutrophil recruitment to pore-induced intracellular traps following pyroptosis. *European Journal of Immunology*, **2016**, 46, 2761-2766	6.1	96
32	Canonical Inflammasomes Drive IFN-□to Prime Caspase-11 in Defense against a Cytosol-Invasive Bacterium. *Cell Host and Microbe*, **2015**, 18, 320-32	23.4	88
31	Inflammasomes Coordinate Pyroptosis and Natural Killer Cell Cytotoxicity to Clear Infection by a Ubiquitous Environmental Bacterium. *Immunity*, **2015**, 43, 987-97	32.3	85
30	Reactive oxygen species induce antibiotic tolerance during systemic Staphylococcus aureus infection. *Nature Microbiology*, **2020**, 5, 282-290	26.6	74
29	InvB is a type III secretion chaperone specific for SspA. *Journal of Bacteriology*, **2000**, 182, 6638-44	3.5	64

28	Innate immune detection of bacterial virulence factors via the NLRC4 inflammasome. *Journal of Clinical Immunology*, **2010**, 30, 502-6	5.7	54
27	Activation of the NLRP3 inflammasome by intracellular poly I:C. *FEBS Letters*, **2010**, 584, 4627-32	3.8	48
26	Loss of Bladder Epithelium Induced by Cytolytic Mast Cell Granules. *Immunity*, **2016**, 45, 1258-1269	32.3	47
25	Transcription of the SsrAB regulon is repressed by alkaline pH and is independent of PhoPQ and magnesium concentration. *Journal of Bacteriology*, **2002**, 184, 1493-7	3.5	44
24	Salmonella and Caspase-1: A complex Interplay of Detection and Evasion. *Frontiers in Microbiology*, **2011**, 2, 85	5.7	41
23	Salmonella typhimurium impedes innate immunity with a mast-cell-suppressing protein tyrosine phosphatase, SptP. *Immunity*, **2013**, 39, 1108-20	32.3	40
22	Dietary Salt Exacerbates Experimental Colitis. *Journal of Immunology*, **2017**, 199, 1051-1059	5.3	37
21	Reassessing the Evolutionary Importance of Inflammasomes. *Journal of Immunology*, **2016**, 196, 956-62	5.3	34
20	Generation of a Listeria vaccine strain by enhanced caspase-1 activation. *European Journal of Immunology*, **2011**, 41, 1934-40	6.1	32
19	Neutrophil Caspase-11 Is Essential to Defend against a Cytosol-Invasive Bacterium. *Cell Reports*, **2020**, 32, 107967	10.6	28
18	Yersinia pestis activates both IL-1 and IL-1 receptor antagonist to modulate lung inflammation during pneumonic plague. *PLoS Pathogens*, **2015**, 11, e1004688	7.6	21
17	The Prostaglandin E2-EP3 Receptor Axis Regulates Anaplasma phagocytophilum-Mediated NLRC4 Inflammasome Activation. *PLoS Pathogens*, **2016**, 12, e1005803	7.6	21
16	NLRC4 and TLR5 each contribute to host defense in respiratory melioidosis. *PLoS Neglected Tropical Diseases*, **2014**, 8, e3178	4.8	20
15	Detection of cytosolic bacteria by inflammatory caspases. *Current Opinion in Microbiology*, **2014**, 17, 61-6	7.9	18
14	Lipopolysaccharide Potentiates Insulin-Driven Hypoglycemic Shock. *Journal of Immunology*, **2017**, 199, 3634-3643	5.3	15
13	Programmed Cell Death in the Evolutionary Race against Bacterial Virulence Factors. *Cold Spring Harbor Perspectives in Biology*, **2020**, 12,	10.2	11
12	WildCARDs: inflammatory caspases directly detect LPS. *Cell Research*, **2015**, 25, 149-50	24.7	9
11	NLRP1 - One NLR to guard them all. *EMBO Journal*, **2019**, 38, e102494	13	7

List of Publications

10	Environmental Factors Modify the Severity of Acute DSS Colitis in Caspase-11-Deficient Mice. *Inflammatory Bowel Diseases*, **2018**, 24, 2394-2403	4.5	7
9	NAIP inflammasomes give the NOD to bacterial ligands. *Trends in Immunology*, **2014**, 35, 503-4	14.4	4
8	miniMAVS, You Complete Me!. *Cell*, **2014**, 156, 629-30	56.2	3
7	Innate Sensors Trigger Regulated Cell Death to Combat Intracellular Infection.. *Annual Review of Immunology*, **2022**,	34.7	3
6	Caspase-7 activates ASM to repair gasdermin and perforin pores. *Nature*,	50.4	3
5	Down with doublespeak: NAIP/NLRC4 inflammasomes get specific. *Journal of Experimental Medicine*, **2016**, 213, 646	16.6	2
4	YopM puts caspase-1 on ice. *Cell Host and Microbe*, **2012**, 12, 737-8	23.4	1
3	Non-Cell-Autonomous Activity of the Hemidesmosomal Protein BP180/Collagen XVII in Granulopoiesis in Humanized NC16A Mice. *Journal of Immunology*, **2020**, 205, 2786-2794	5.3	1
2	Autophagy May Allow a Cell to Forbear Pyroptosis When Confronted With Cytosol-Invasive Bacteria.. *Frontiers in Immunology*, **2022**, 13, 871190	8.4	0
1	Evaluating cytokine production by flow cytometry using brefeldin A in mice. *STAR Protocols*, **2021**, 2, 100244	1.4	