## List of Publications by Year in descending order

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DETD RDOZ

#	Article	IF	CITATIONS
1	Inflammasomes: mechanism of assembly, regulation and signalling. Nature Reviews Immunology, 2016, 16, 407-420.	22.7	2,353
2	The gasdermins, a protein family executing cell death and inflammation. Nature Reviews Immunology, 2020, 20, 143-157.	22.7	881
3	<scp>GSDMD</scp> membrane pore formation constitutes the mechanism of pyroptotic cell death. EMBO Journal, 2016, 35, 1766-1778.	7.8	842
4	Differential Requirement for Caspase-1 Autoproteolysis in Pathogen-Induced Cell Death and Cytokine Processing. Cell Host and Microbe, 2010, 8, 471-483.	11.0	514
5	Redundant roles for inflammasome receptors NLRP3 and NLRC4 in host defense against <i>Salmonella</i> . Journal of Experimental Medicine, 2010, 207, 1745-1755.	8.5	491
6	Caspase-11 increases susceptibility to Salmonella infection in the absence of caspase-1. Nature, 2012, 490, 288-291.	27.8	466
7	ESCRT-dependent membrane repair negatively regulates pyroptosis downstream of GSDMD activation. Science, 2018, 362, 956-960.	12.6	466
8	Absent in melanoma 2 is required for innate immune recognition of <i>Francisella tularensis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9771-9776.	7.1	454
9	Noncanonical inflammasome signaling elicits gasdermin D–dependent neutrophil extracellular traps. Science Immunology, 2018, 3, .	11.9	425
10	Caspase-11 activation requires lysis of pathogen-containing vacuoles by IFN-induced GTPases. Nature, 2014, 509, 366-370.	27.8	416
11	Newly described pattern recognition receptors team up against intracellular pathogens. Nature Reviews Immunology, 2013, 13, 551-565.	22.7	395
12	Caspaseâ€1 1 activates a canonical NLRP3 inflammasome by promoting K <sup>+</sup> efflux. European Journal of Immunology, 2015, 45, 2927-2936.	2.9	395
13	K + Efflux-Independent NLRP3 Inflammasome Activation by Small Molecules Targeting Mitochondria. Immunity, 2016, 45, 761-773.	14.3	364
14	The V-Antigen of Yersinia Forms a Distinct Structure at the Tip of Injectisome Needles. Science, 2005, 310, 674-676.	12.6	319
15	ASC filament formation serves as a signal amplification mechanism for inflammasomes. Nature Communications, 2016, 7, 11929.	12.8	299
16	Guanylate-binding proteins promote activation of the AIM2 inflammasome during infection with Francisella novicida. Nature Immunology, 2015, 16, 476-484.	14.5	291
17	The Gasderminâ€D pore acts as a conduit for ILâ€1β secretion in mice. European Journal of Immunology, 2018, 48, 584-592.	2.9	273
18	The Needle Length of Bacterial Injectisomes Is Determined by a Molecular Ruler. Science, 2003, 302, 1757-1760.	12.6	272

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19	Extrinsic and intrinsic apoptosis activate pannexinâ€1 to drive <scp>NLRP</scp> 3 inflammasome assembly. EMBO Journal, 2019, 38, .	7.8	264
20	Molecular mechanisms of inflammasome activation during microbial infections. Immunological Reviews, 2011, 243, 174-190.	6.0	222
21	The type III secretion system tip complex and translocon. Molecular Microbiology, 2008, 68, 1085-1095.	2.5	207
22	The Inflammasome Drives GSDMD-Independent Secondary Pyroptosis and IL-1 Release in the Absence of Caspase-1 Protease Activity. Cell Reports, 2017, 21, 3846-3859.	6.4	202
23	Innate immune response to <i>Salmonella typhimurium</i> , a model enteric pathogen. Gut Microbes, 2012, 3, 62-70.	9.8	194
24	<scp>LPS</scp> targets host guanylateâ€binding proteins to the bacterial outer membrane for nonâ€canonical inflammasome activation. EMBO Journal, 2018, 37, .	7.8	184
25	Human GBP1 binds LPS to initiate assembly of a caspase-4 activating platform on cytosolic bacteria. Nature Communications, 2020, 11, 3276.	12.8	178
26	Function and mechanism of the pyrin inflammasome. European Journal of Immunology, 2018, 48, 230-238.	2.9	143
27	Caspase target drives pyroptosis. Nature, 2015, 526, 642-643.	27.8	137
28	Structure and assembly of the mouse ASC inflammasome by combined NMR spectroscopy and cryo-electron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13237-13242.	7.1	133
29	Function and molecular architecture of the <i>Yersinia</i> injectisome tip complex. Molecular Microbiology, 2007, 65, 1311-1320.	2.5	129
30	A Surface-Induced Asymmetric Program Promotes Tissue Colonization by Pseudomonas aeruginosa. Cell Host and Microbe, 2019, 25, 140-152.e6.	11.0	127
31	Evolutionary Convergence and Divergence in NLR Function and Structure. Trends in Immunology, 2017, 38, 744-757.	6.8	123
32	Caspase-8–dependent gasdermin D cleavage promotes antimicrobial defense but confers susceptibility to TNF-induced lethality. Science Advances, 2020, 6, .	10.3	123
33	Protective Antiâ€V Antibodies InhibitPseudomonasandYersiniaTranslocon Assembly within Host Membranes. Journal of Infectious Diseases, 2005, 192, 218-225.	4.0	111
34	AIM2 inflammasome is activated by pharmacological disruption of nuclear envelope integrity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4671-80.	7.1	106
35	Interferon-inducible CTPases in cell autonomous and innate immunity. Cellular Microbiology, 2016, 18, 168-180.	2.1	99
36	YscU recognizes translocators as export substrates of the Yersinia injectisome. EMBO Journal, 2007, 26, 3015-3024.	7.8	97

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37	Elevated AIM2-mediated pyroptosis triggered by hypercytotoxic Francisella mutant strains is attributed to increased intracellular bacteriolysis. Cellular Microbiology, 2011, 13, 1586-1600.	2.1	95
38	Toll-like Receptor and Inflammasome Signals Converge to Amplify the Innate Bactericidal Capacity of T Helper 1 Cells. Immunity, 2014, 40, 213-224.	14.3	90
39	Francisella requires dynamic type VI secretion system and ClpB to deliver effectors for phagosomal escape. Nature Communications, 2017, 8, 15853.	12.8	75
40	BAX/BAK-Induced Apoptosis Results in Caspase-8-Dependent IL-1β Maturation in Macrophages. Cell Reports, 2018, 25, 2354-2368.e5.	6.4	74
41	Noncanonical Inflammasomes: Caspase-11 Activation and Effector Mechanisms. PLoS Pathogens, 2013, 9, e1003144.	4.7	67
42	Guanylate-binding protein 5 licenses caspase-11 for Gasdermin-D mediated host resistance to Brucella abortus infection. PLoS Pathogens, 2018, 14, e1007519.	4.7	67
43	Caspase-1 cleaves Bid to release mitochondrial SMAC and drive secondary necrosis in the absence of GSDMD. Life Science Alliance, 2020, 3, e202000735.	2.8	64
44	Sensing of invading pathogens by GBPs: At the crossroads between cell-autonomous and innate immunity. Journal of Leukocyte Biology, 2018, 104, 729-735.	3.3	62
45	Beyond inflammasomes: emerging function of gasdermins during apoptosis and NETosis. EMBO Journal, 2020, 39, e103397.	7.8	62
46	RIPK1 activates distinct gasdermins in macrophages and neutrophils upon pathogen blockade of innate immune signaling. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	55
47	Caspase-1 activity is required to bypass macrophage apoptosis upon Salmonella infection. Nature Chemical Biology, 2012, 8, 745-747.	8.0	53
48	Characteristics of Quinolone Resistance in Escherichia coli Isolates from Humans, Animals, and the Environment in the Czech Republic. Frontiers in Microbiology, 2016, 7, 2147.	3.5	53
49	Pannexinâ€1 promotes NLRP3 activation during apoptosis but is dispensable for canonical or noncanonical inflammasome activation. European Journal of Immunology, 2020, 50, 170-177.	2.9	53
50	Cross talk between intracellular pathogens and cell death. Immunological Reviews, 2020, 297, 174-193.	6.0	44
51	IFN-γ extends the immune functions of Guanylate Binding Proteins to inflammasome-independent antibacterial activities during Francisella novicida infection. PLoS Pathogens, 2017, 13, e1006630.	4.7	41
52	Regulation of Lytic and Non-Lytic Functions of Gasdermin Pores. Journal of Molecular Biology, 2022, 434, 167246.	4.2	39
53	Electrophilic Nrf2 activators and itaconate inhibit inflammation at low dose and promote IL-1Î <sup>2</sup> production and inflammatory apoptosis at high dose. Redox Biology, 2020, 36, 101647.	9.0	37
54	Innate Immune Recognition of Francisella Tularensis: Activation of Type-I Interferons and the Inflammasome. Frontiers in Microbiology, 2011, 2, 16.	3.5	34

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55	A Coupled Protein and Probe Engineering Approach for Selective Inhibition and Activity-Based Probe Labeling of the Caspases. Journal of the American Chemical Society, 2013, 135, 9130-9138.	13.7	31
56	Optogenetic activators of apoptosis, necroptosis, and pyroptosis. Journal of Cell Biology, 2022, 221, .	5.2	31
57	Recognition of Intracellular Bacteria by Inflammasomes. Microbiology Spectrum, 2019, 7, .	3.0	29
58	Interferon-Induced Guanylate-Binding Proteins Promote Cytosolic Lipopolysaccharide Detection by Caspase-11. DNA and Cell Biology, 2015, 34, 1-5.	1.9	25
59	Genetic targeting of Card19 is linked to disrupted NINJ1 expression, impaired cell lysis, and increased susceptibility to Yersinia infection. PLoS Pathogens, 2021, 17, e1009967.	4.7	25
60	Measuring Inflammasome Activation in Response to Bacterial Infection. Methods in Molecular Biology, 2013, 1040, 65-84.	0.9	20
61	Recognition of Intracellular Bacteria by Inflammasomes. , 0, , 287-297.		20
62	Cyclopentenone Prostaglandins and Structurally Related Oxidized Lipid Species Instigate and Share Distinct Pro- and Anti-inflammatory Pathways. Cell Reports, 2020, 30, 4399-4417.e7.	6.4	19
63	Performance of Targeted Library Preparation Solutions for SARS-CoV-2 Whole Genome Analysis. Diagnostics, 2020, 10, 769.	2.6	17
64	The gasdermin-D pore: Executor of pyroptotic cell death. Oncotarget, 2016, 7, 57481-57482.	1.8	15
65	Inflammasomes: Intracellular detection of extracellular bacteria. Cell Research, 2016, 26, 859-860.	12.0	15
66	Quantification of Cytosolic vs. Vacuolar <em>Salmonella</em> in Primary Macrophages by Differential Permeabilization. Journal of Visualized Experiments, 2015, , e52960.	0.3	14
67	Genome-wide Expression Profiling (with Focus on the Galectin Network) in Tumor, Transition Zone and Normal Tissue of Head and Neck Cancer: Marked Differences Between Individual Patients and the Site of Specimen Origin. Anticancer Research, 2017, 37, 2275-2288.	1.1	14
68	Caspase-1 activity affects AIM2 speck formation/stability through a negative feedback loop. Frontiers in Cellular and Infection Microbiology, 2013, 3, 14.	3.9	13
69	Sequence-specific solid-state NMR assignments of the mouse ASC PYRIN domain in its filament form. Biomolecular NMR Assignments, 2016, 10, 107-115.	0.8	12
70	Global Ion Suppression Limits the Potential of Mass Spectrometry Based Phosphoproteomics. Journal of Proteome Research, 2019, 18, 493-507.	3.7	12
71	NLRP6 Deficiency in CD4 T Cells Decreases T Cell Survival Associated with Increased Cell Death. Journal of Immunology, 2019, 203, 544-556.	0.8	11
72	Active membrane rupture spurs a range of cell deaths. Nature, 2021, 591, 36-37.	27.8	11

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73	Mechanisms and Consequences of Inflammasome Activation. Journal of Molecular Biology, 2018, 430, 131-132.	4.2	10
74	Aneuploidy Detection and mtDNA Quantification in Bovine Embryos with Different Cleavage Onset Using a Next-Generation Sequencing-Based Protocol. Cytogenetic and Genome Research, 2016, 150, 60-67.	1.1	9
75	Novel <i>ZEB2â€PLAG1</i> fusion gene identified by RNA sequencing in a case of lipoblastoma. Pediatric Blood and Cancer, 2021, 68, e28691.	1.5	9
76	Getting Rid of the Bad Apple: Inflammasome-Induced Extrusion of Salmonella -Infected Enterocytes. Cell Host and Microbe, 2014, 16, 153-155.	11.0	8
77	Inflammasome assembly: The wheels are turning. Cell Research, 2015, 25, 1277-1278.	12.0	8
78	Guanylate-Binding Protein-Dependent Noncanonical Inflammasome Activation Prevents Burkholderia thailandensis-Induced Multinucleated Giant Cell Formation. MBio, 2021, 12, e0205421.	4.1	7
79	Inflammasomes in Host Defense and Autoimmunity. Chimia, 2016, 70, 853.	0.6	6
80	Divide to conquer: NLRP3 is activated on dispersed trans-Golgi network. Cell Research, 2019, 29, 181-182.	12.0	5
81	Detection of Gasdermin Activation and Lytic Cell Death During Pyroptosis and Apoptosis. Methods in Molecular Biology, 2022, , 209-237.	0.9	5
82	Mobilizable Plasmids for Tunable Gene Expression in Francisella novicida. Frontiers in Cellular and Infection Microbiology, 2018, 8, 284.	3.9	4
83	Pannexin-1 channels bridge apoptosis to NLRP3 inflammasome activation. Molecular and Cellular Oncology, 2019, 6, 1610324.	0.7	4
84	Assay for high-throughput screening of inhibitors of the ASC-PYD inflammasome core filament. Cell Stress, 2018, 2, 82-90.	3.2	4
85	Case Report: Contiguous Xq22.3 Deletion Associated with ATS-ID Syndrome: From Genotype to Further Delineation of the Phenotype. Frontiers in Genetics, 2021, 12, 750110.	2.3	4
86	Activation and manipulation of inflammasomes and pyroptosis during bacterial infections. Biochemical Journal, 2022, 479, 867-882.	3.7	4
87	Detecting Release of Bacterial dsDNA into the Host Cytosol Using Fluorescence Microscopy. Methods in Molecular Biology, 2018, 1714, 199-213.	0.9	2
88	Novel de novo pathogenic variant in the GNAI1 gene as a cause of severe disorders of intellectual development. Journal of Human Genetics, 2022, 67, 209-214.	2.3	2
89	An integrative protocol for the structure determination of the mouse ASC-PYD filament. Methods in Enzymology, 2019, 625, 205-222.	1.0	0
90	Intracellular pathogens under attack. ELife, 2016, 5, .	6.0	0

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91	Cell-Autonomous Defenses Against Intracellular Bacteria and Protozoa. , 2022, , .		0
92	Viral protein activates the NLRP1 inflammasome. Nature Immunology, 0, , .	14.5	0