

The transcription factor IRF1 and guanylate-binding protein 1 form a complex that regulates the NLRP3 inflammasome by Francisella infection

Nature Immunology

16, 467-475

DOI: [10.1038/ni.3118](https://doi.org/10.1038/ni.3118)

Citation Report

#	ARTICLE	IF	CITATIONS
3	Interferon- β Inhibits Ebola Virus Infection. <i>PLoS Pathogens</i> , 2015, 11, e1005263.	2.1	71
4	Ubiquitination of pathogen-containing vacuoles promotes host defense to <i>Chlamydia trachomatis</i> and <i>Toxoplasma gondii</i> . <i>Communicative and Integrative Biology</i> , 2015, 8, e1115163.	0.6	17
5	Critical Role for the DNA Sensor AIM2 in Stem Cell Proliferation and Cancer. <i>Cell</i> , 2015, 162, 45-58.	13.5	266
6	Inflammasomes: mechanism of action, role in disease, and therapeutics. <i>Nature Medicine</i> , 2015, 21, 677-687.	15.2	2,476
7	GBPs take AIM at Francisella. <i>Nature Immunology</i> , 2015, 16, 443-444.	7.0	6
8	Ubiquitin systems mark pathogen-containing vacuoles as targets for host defense by guanylate binding proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5628-37.	3.3	147
9	Guanylate Binding Proteins Enable Rapid Activation of Canonical and Noncanonical Inflammasomes in Chlamydia-Infected Macrophages. <i>Infection and Immunity</i> , 2015, 83, 4740-4749.	1.0	126
10	Fish IRF3 up-regulates the transcriptional level of IRF1, IRF2, IRF3 and IRF7 in CIK cells. <i>Fish and Shellfish Immunology</i> , 2015, 47, 978-985.	1.6	13
11	The Duality of AIM2 Inflammasome: A Focus on its Role in Autoimmunity and Skin Diseases. <i>American Journal of Pharmacology and Toxicology</i> , 2016, 11, 8-19.	0.7	0
12	The <i>Listeria monocytogenes</i> PASTA Kinase PrkA and Its Substrate YvcK Are Required for Cell Wall Homeostasis, Metabolism, and Virulence. <i>PLoS Pathogens</i> , 2016, 12, e1006001.	2.1	60
13	Early Interactions of Murine Macrophages with <i>Francisella tularensis</i> Map to Mouse Chromosome 19. <i>MBio</i> , 2016, 7, e02243.	1.8	6
14	NLRC3 is an inhibitory sensor of PI3K-mTOR pathways in cancer. <i>Nature</i> , 2016, 540, 583-587.	13.7	160
15	Evolution of Cell-Autonomous Effector Mechanisms in Macrophages versus Non-Immune Cells. <i>Microbiology Spectrum</i> , 2016, 4, .	1.2	21
16	Interferons and inflammasomes: Cooperation and counterregulation in disease. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 138, 37-46.	1.5	68
17	Interferon-Inducible GTPases in Host Resistance, Inflammation and Disease. <i>Journal of Molecular Biology</i> , 2016, 428, 3495-3513.	2.0	183
18	Inflammasomes as polyvalent cell death platforms. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 2335-2347.	2.4	52
19	DNA-sensing inflammasomes: regulation of bacterial host defense and the gut microbiota. <i>Pathogens and Disease</i> , 2016, 74, ftw028.	0.8	37
20	Interferon-induced guanylate-binding proteins in inflammasome activation and host defense. <i>Nature Immunology</i> , 2016, 17, 481-489.	7.0	125

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21	Inflammasome Complexes: Emerging Mechanisms and Effector Functions. <i>Cell</i> , 2016, 165, 792-800.	13.5	761
22	The role of cGAS in innate immunity and beyond. <i>Journal of Molecular Medicine</i> , 2016, 94, 1085-1093.	1.7	46
23	For Better or Worse: Cytosolic DNA Sensing during Intracellular Bacterial Infection Induces Potent Innate Immune Responses. <i>Journal of Molecular Biology</i> , 2016, 428, 3372-3386.	2.0	18
24	Integrating Inflammasome Signaling in Sexually Transmitted Infections. <i>Trends in Immunology</i> , 2016, 37, 703-714.	2.9	20
25	IRGB10 Liberates Bacterial Ligands for Sensing by the AIM2 and Caspase-11-NLRP3 Inflammasomes. <i>Cell</i> , 2016, 167, 382-396.e17.	13.5	237
26	Sensing the enemy, containing the threat: cell-autonomous immunity to <i>Chlamydia trachomatis</i> . <i>FEMS Microbiology Reviews</i> , 2016, 40, 875-893.	3.9	54
27	AIM2 inflammasome in infection, cancer, and autoimmunity: Role in DNA sensing, inflammation, and innate immunity. <i>European Journal of Immunology</i> , 2016, 46, 269-280.	1.6	253
28	Human GBP1 does not localize to pathogen vacuoles but restricts <i>Toxoplasma gondii</i> . <i>Cellular Microbiology</i> , 2016, 18, 1056-1064.	1.1	95
29	Inflammasome Signaling and Bacterial Infections. <i>Current Topics in Microbiology and Immunology</i> , 2016, , .	0.7	6
30	Interferon-inducible GTPases in cell autonomous and innate immunity. <i>Cellular Microbiology</i> , 2016, 18, 168-180.	1.1	99
31	Francisella Inflammasomes: Integrated Responses to a Cytosolic "Stealth" Bacterium. <i>Current Topics in Microbiology and Immunology</i> , 2016, 397, 229-256.	0.7	16
32	Cathepsin B modulates lysosomal biogenesis and host defense against <i>Francisella novicida</i> infection. <i>Journal of Experimental Medicine</i> , 2016, 213, 2081-2097.	4.2	72
33	Innate recognition of microbial-derived signals in immunity and inflammation. <i>Science China Life Sciences</i> , 2016, 59, 1210-1217.	2.3	50
34	Post-Translational Modification Control of Innate Immunity. <i>Immunity</i> , 2016, 45, 15-30.	6.6	456
35	Cellular and molecular regulation of innate inflammatory responses. <i>Cellular and Molecular Immunology</i> , 2016, 13, 711-721.	4.8	134
36	Advances in innate immune signaling: new activators and regulators. <i>National Science Review</i> , 2016, 3, 160-162.	4.6	4
37	The cell biology of inflammasomes: Mechanisms of inflammasome activation and regulation. <i>Journal of Cell Biology</i> , 2016, 213, 617-629.	2.3	536
38	Inflammasomes: mechanism of assembly, regulation and signalling. <i>Nature Reviews Immunology</i> , 2016, 16, 407-420.	10.6	2,353

#	ARTICLE	IF	CITATIONS
39	Converging roles of caspases in inflammasome activation, cell death and innate immunity. <i>Nature Reviews Immunology</i> , 2016, 16, 7-21.	10.6	521
40	AIM2 contributes to the maintenance of intestinal integrity via Akt and protects against <i>Salmonella</i> mucosal infection. <i>Mucosal Immunology</i> , 2016, 9, 1330-1339.	2.7	46
41	NLR-regulated pathways in cancer: opportunities and obstacles for therapeutic interventions. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 1741-1764.	2.4	27
42	Reciprocal regulation of the <i>Il9</i> locus by counteracting activities of transcription factors IRF1 and IRF4. <i>Nature Communications</i> , 2017, 8, 15366.	5.8	30
43	Molecular mechanisms and functions of pyroptosis, inflammatory caspases and inflammasomes in infectious diseases. <i>Immunological Reviews</i> , 2017, 277, 61-75.	2.8	1,104
44	<i>Francisella</i> requires dynamic type VI secretion system and ClpB to deliver effectors for phagosomal escape. <i>Nature Communications</i> , 2017, 8, 15853.	5.8	75
45	Mechanisms governing inflammasome activation, assembly and pyroptosis induction. <i>International Immunology</i> , 2017, 29, 201-210.	1.8	174
46	Differential roles of caspase-1 and caspase-11 in infection and inflammation. <i>Scientific Reports</i> , 2017, 7, 45126.	1.6	109
47	Bacteria disarm host-defence proteins. <i>Nature</i> , 2017, 551, 303-304.	13.7	5
48	Inflammasome Activation by Bacterial Outer Membrane Vesicles Requires Guanylate Binding Proteins. <i>MBio</i> , 2017, 8, .	1.8	122
49	Mechanisms and functions of guanylate-binding proteins and related interferon-inducible GTPases: Roles in intracellular lysis of pathogens. <i>Cellular Microbiology</i> , 2017, 19, e12791.	1.1	47
50	Ubiquitination and degradation of GBPs by a <i>Shigella</i> effector to suppress host defence. <i>Nature</i> , 2017, 551, 378-383.	13.7	158
51	Hematopoietic MyD88 and IL-18 are essential for IFN- γ -dependent restriction of type A <i>Francisella tularensis</i> infection. <i>Journal of Leukocyte Biology</i> , 2017, 102, 1441-1450.	1.5	7
52	Priming and Activation of Inflammasome by Canarypox Virus Vector ALVAC via the cGAS/IFI16-STING-Type I IFN Pathway and AIM2 Sensor. <i>Journal of Immunology</i> , 2017, 199, 3293-3305.	0.4	33
53	The DNA Inflammasome in Human Myeloid Cells Is Initiated by a STING-Cell Death Program Upstream of NLRP3. <i>Cell</i> , 2017, 171, 1110-1124.e18.	13.5	431
54	Molecular mechanisms of inflammasome signaling. <i>Journal of Leukocyte Biology</i> , 2018, 103, 233-257.	1.5	146
55	Activation of the Innate Immune Receptors: Guardians of the Micro Galaxy. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1024, 1-35.	0.8	15
56	Caspase-11 non-canonical inflammasome: a critical sensor of intracellular lipopolysaccharide in macrophage-mediated inflammatory responses. <i>Immunology</i> , 2017, 152, 207-217.	2.0	183

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57	Innate Immunity to Intracellular Pathogens: Balancing Microbial Elimination and Inflammation. <i>Cell Host and Microbe</i> , 2017, 22, 166-175.	5.1	100
58	Guanylate Binding Proteins Regulate Inflammasome Activation in Response to Hyperinjected Yersinia Translocon Components. <i>Infection and Immunity</i> , 2017, 85, .	1.0	35
59	Detection of Cytosolic <i>Shigella flexneri</i> via a C-Terminal Triple-Arginine Motif of GBP1 Inhibits Actin-Based Motility. <i>MBio</i> , 2017, 8, .	1.8	103
60	Review Article. Absent in melanoma 2 (AIM2) in the intestine: diverging actions with converging consequences. <i>Inflammasome</i> , 2017, 3, 1-9.	0.6	2
61	Inflammasome activation and assembly at a glance. <i>Journal of Cell Science</i> , 2017, 130, 3955-3963.	1.2	331
62	Exposing <i>Toxoplasma gondii</i> hiding inside the vacuole: a role for GBPs, autophagy and host cell death. <i>Current Opinion in Microbiology</i> , 2017, 40, 72-80.	2.3	91
63	Regulation of the gut microbiome by inflammasomes. <i>Free Radical Biology and Medicine</i> , 2017, 105, 35-40.	1.3	25
64	Interferon- β in Salmonella pathogenesis: New tricks for an old dog. <i>Cytokine</i> , 2017, 98, 27-32.	1.4	26
65	Bacterial secretion systems and regulation of inflammasome activation. <i>Journal of Leukocyte Biology</i> , 2017, 101, 165-181.	1.5	22
66	Microbiota as a mediator of cancer progression and therapy. <i>Translational Research</i> , 2017, 179, 139-154.	2.2	57
67	Interferon-inducible guanylate-binding proteins at the interface of cell-autonomous immunity and inflammasome activation. <i>Journal of Leukocyte Biology</i> , 2017, 101, 143-150.	1.5	90
68	The role of NLRP3 and AIM2 in inflammasome activation during <i>Brucella abortus</i> infection. <i>Seminars in Immunopathology</i> , 2017, 39, 215-223.	2.8	54
69	Comprehensive Proteomic Characterization of Ontogenic Changes in Hematopoietic Stem and Progenitor Cells. <i>Cell Reports</i> , 2017, 21, 3285-3297.	2.9	25
70	Evolution of Cell-Autonomous Effector Mechanisms in Macrophages versus Non-Immune Cells. , 2017, , 615-635.		0
71	Innate Immune Recognition: Implications for the Interaction of <i>Francisella tularensis</i> with the Host Immune System. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017, 7, 446.	1.8	13
72	The Role of Interferons in Inflammation and Inflammasome Activation. <i>Frontiers in Immunology</i> , 2017, 8, 873.	2.2	178
73	Getting "Inside" Type I IFNs: Type I IFNs in Intracellular Bacterial Infections. <i>Journal of Immunology Research</i> , 2017, 2017, 1-17.	0.9	27
74	Detection of a microbial metabolite by STING regulates inflammasome activation in response to <i>Chlamydia trachomatis</i> infection. <i>PLoS Pathogens</i> , 2017, 13, e1006383.	2.1	65

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75	IFN- γ extends the immune functions of Guanylate Binding Proteins to inflammasome-independent antibacterial activities during <i>Francisella novicida</i> infection. <i>PLoS Pathogens</i> , 2017, 13, e1006630.	2.1	41
76	<sc>LPS</sc> targets host guanylate-binding proteins to the bacterial outer membrane for non-canonical inflammasome activation. <i>EMBO Journal</i> , 2018, 37, .	3.5	184
77	Deletion of Inflammasome Components Is Not Sufficient To Prevent Fatal Inflammation in Models of Familial Hemophagocytic Lymphohistiocytosis. <i>Journal of Immunology</i> , 2018, 200, 3769-3776.	0.4	5
78	ASK Family Kinases Are Required for Optimal NLRP3 Inflammasome Priming. <i>American Journal of Pathology</i> , 2018, 188, 1021-1030.	1.9	17
79	Human caspase-4 detects tetra-acylated LPS and cytosolic <i>Francisella</i> and functions differently from murine caspase-11. <i>Nature Communications</i> , 2018, 9, 242.	5.8	144
80	Host immune responses to <i>Toxoplasma gondii</i> . <i>International Immunology</i> , 2018, 30, 113-119.	1.8	158
81	Deletion of the Major Facilitator Superfamily Transporter <i>fptB</i> Alters Host Cell Interactions and Attenuates Virulence of Type A <i>Francisella tularensis</i> . <i>Infection and Immunity</i> , 2018, 86, .	1.0	6
82	Type I IFN operates pyroptosis and necroptosis during multidrug-resistant <i>A. baumannii</i> infection. <i>Cell Death and Differentiation</i> , 2018, 25, 1304-1318.	5.0	60
83	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. <i>Cell Death and Differentiation</i> , 2018, 25, 486-541.	5.0	4,036
84	Function and regulation of <sc>IL</sc>-1 β in inflammatory diseases and cancer. <i>Immunological Reviews</i> , 2018, 281, 124-137.	2.8	201
85	The <sc>AIM</sc>2 inflammasome: Sensor of pathogens and cellular perturbations. <i>Immunological Reviews</i> , 2018, 281, 99-114.	2.8	254
86	For when bacterial infections persist: Toll-like receptor-inducible direct antimicrobial pathways in macrophages. <i>Journal of Leukocyte Biology</i> , 2018, 103, 35-51.	1.5	63
87	IRF1 Is a Transcriptional Regulator of ZBP1 Promoting NLRP3 Inflammasome Activation and Cell Death during Influenza Virus Infection. <i>Journal of Immunology</i> , 2018, 200, 1489-1495.	0.4	78
88	IRF8 Regulates Transcription of <i>Naips</i> for NLRC4 Inflammasome Activation. <i>Cell</i> , 2018, 173, 920-933.e13.	13.5	142
89	Detrimental Type I Interferon Signaling Dominates Protective AIM2 Inflammasome Responses during <i>Francisella novicida</i> Infection. <i>Cell Reports</i> , 2018, 22, 3168-3174.	2.9	32
90	Interferon regulatory factor 1 "Rab27a regulated extracellular vesicles promote liver ischemia/reperfusion injury. <i>Hepatology</i> , 2018, 67, 1056-1070.	3.6	46
91	Protection of macrophages from intracellular pathogens by miR-182a-5p mimic "a gene expression meta-analysis approach. <i>FEBS Journal</i> , 2018, 285, 244-260.	2.2	8
92	New concepts in <i>Chlamydia</i> induced inflammasome responses. <i>Microbes and Infection</i> , 2018, 20, 424-431.	1.0	5

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93	<i>Brucella abortus</i> Triggers a cGAS-Independent STING Pathway To Induce Host Protection That Involves Guanylate-Binding Proteins and Inflammasome Activation. <i>Journal of Immunology</i> , 2018, 200, 607-622.	0.4	84
94	Recent advances in inflammasome biology. <i>Current Opinion in Immunology</i> , 2018, 50, 32-38.	2.4	270
95	Sensing Self and Non-Self DNA by Innate Immune Receptors and Their Signaling Pathways. <i>Critical Reviews in Immunology</i> , 2018, 38, 279-301.	1.0	11
96	Gasdermin D Promotes AIM2 Inflammasome Activation and Is Required for Host Protection against <i>Francisella novicida</i> . <i>Journal of Immunology</i> , 2018, 201, 3662-3668.	0.4	48
97	Mitochondrial DNA synthesis fuels NLRP3 inflammasome. <i>Cell Research</i> , 2018, 28, 1046-1047.	5.7	20
98	Cytosolic Recognition of Microbes and Pathogens: Inflammasomes in Action. <i>Microbiology and Molecular Biology Reviews</i> , 2018, 82, .	2.9	124
99	Detection of Microbial Infections Through Innate Immune Sensing of Nucleic Acids. <i>Annual Review of Microbiology</i> , 2018, 72, 447-478.	2.9	336
100	Constitutive Interferon Maintains GBP Expression Required for Release of Bacterial Components Upstream of Pyroptosis and Anti-DNA Responses. <i>Cell Reports</i> , 2018, 24, 155-168.e5.	2.9	77
101	Guanylate binding proteins facilitate caspase-11-dependent pyroptosis in response to type 3 secretion system-negative <i>Pseudomonas aeruginosa</i> . <i>Cell Death Discovery</i> , 2018, 4, 3.	2.0	51
102	Vaccine-Mediated Mechanisms Controlling Replication of <i>Francisella tularensis</i> in Human Peripheral Blood Mononuclear Cells Using a Co-culture System. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 27.	1.8	16
103	The <i>Francisella</i> Type VI Secretion System. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 121.	1.8	45
104	Analysis of Mouse Brain Transcriptome After Experimental Duvnophage Virus Infection Shows Activation of Innate Immune Response and Pyroptotic Cell Death Pathway. <i>Frontiers in Microbiology</i> , 2018, 9, 397.	1.5	10
105	Partners in anti-crime: how interferon-inducible GTPases and autophagy proteins team up in cell-intrinsic host defense. <i>Current Opinion in Immunology</i> , 2018, 54, 93-101.	2.4	29
106	Host-Intrinsic Interferon Status in Infection and Immunity. <i>Trends in Molecular Medicine</i> , 2018, 24, 658-668.	3.5	16
107	Sensing of invading pathogens by GBPs: At the crossroads between cell-autonomous and innate immunity. <i>Journal of Leukocyte Biology</i> , 2018, 104, 729-735.	1.5	62
108	Role of Inflammasome in Chronic Kidney Disease. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1165, 407-421.	0.8	33
109	Role of AIM2 inflammasome in inflammatory diseases, cancer and infection. <i>European Journal of Immunology</i> , 2019, 49, 1998-2011.	1.6	162
110	The NLRP3 Inflammasome: An Overview of Mechanisms of Activation and Regulation. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3328.	1.8	1,900

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111	Innate Immune Recognition: An Issue More Complex Than Expected. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 241.	1.8	46
112	Caspases in Cell Death, Inflammation, and Disease. <i>Immunity</i> , 2019, 50, 1352-1364.	6.6	718
113	Emerging Activators and Regulators of Inflammation and Pyroptosis. <i>Trends in Immunology</i> , 2019, 40, 1035-1052.	2.9	340
114	Emerging Role of Mitochondrial DNA as a Major Driver of Inflammation and Disease Progression. <i>Trends in Immunology</i> , 2019, 40, 1120-1133.	2.9	76
115	Assessment of inflammasome and type I IFN responses to DNA viruses and DNA PAMPS. <i>Methods in Enzymology</i> , 2019, 625, 269-285.	0.4	0
116	Guardians of the Cell: Effector-Triggered Immunity Steers Mammalian Immune Defense. <i>Trends in Immunology</i> , 2019, 40, 939-951.	2.9	13
117	Stressing out the mitochondria: Mechanistic insights into NLRP3 inflammasome activation. <i>Journal of Leukocyte Biology</i> , 2019, 105, 377-399.	1.5	75
118	Interferon regulatory factor 1 eliminates mycobacteria by suppressing p70 S6 kinase via mechanistic target of rapamycin signaling. <i>Journal of Infection</i> , 2019, 79, 262-276.	1.7	8
119	Inflammasome as a promising therapeutic target for cancer. <i>Life Sciences</i> , 2019, 231, 116593.	2.0	55
120	Cell-autonomous immunity by IFN-induced GBPs in animals and plants. <i>Current Opinion in Immunology</i> , 2019, 60, 71-80.	2.4	31
121	Human GBP 1 is a microbe-specific gatekeeper of macrophage apoptosis and pyroptosis. <i>EMBO Journal</i> , 2019, 38, e100926.	3.5	170
122	Host inflammasome defense mechanisms and bacterial pathogen evasion strategies. <i>Current Opinion in Immunology</i> , 2019, 60, 63-70.	2.4	36
123	Cell death-mediated cytokine release and its therapeutic implications. <i>Journal of Experimental Medicine</i> , 2019, 216, 1474-1486.	4.2	63
124	The NLRP3 inflammasome: molecular activation and regulation to therapeutics. <i>Nature Reviews Immunology</i> , 2019, 19, 477-489.	10.6	2,601
125	Ubiquitination-Mediated Inflammasome Activation during Bacterial Infection. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2110.	1.8	8
126	Guanylate-binding proteins at the crossroad of noncanonical inflammasome activation during bacterial infections. <i>Journal of Leukocyte Biology</i> , 2019, 106, 553-562.	1.5	31
127	Nonreceptor Tyrosine Kinase c-Abl and Arg-Mediated IRF3 Phosphorylation Regulates Innate Immune Responses by Promoting Type I IFN Production. <i>Journal of Immunology</i> , 2019, 202, 2254-2265.	0.4	9
128	Metabolic regulation of inflammasomes in inflammation. <i>Immunity</i> , 2019, 157, 95-109.	2.0	41

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129	Recognition of Intracellular Bacteria by Inflammasomes. <i>Microbiology Spectrum</i> , 2019, 7, .	1.2	29
130	The emerging role of STING-dependent signaling on cell death. <i>Immunologic Research</i> , 2019, 67, 290-296.	1.3	17
131	Global Transcriptomic Profiling of Pulmonary Gene Expression in an Experimental Murine Model of <i>Rickettsia conorii</i> Infection. <i>Genes</i> , 2019, 10, 204.	1.0	4
132	Innate immunity to intracellular LPS. <i>Nature Immunology</i> , 2019, 20, 527-533.	7.0	342
133	The absent in melanoma 2 (AIM2) inflammasome in microbial infection. <i>Clinica Chimica Acta</i> , 2019, 495, 100-108.	0.5	11
134	Cytosolic Nucleic Acid Sensors in Inflammatory and Autoimmune Disorders. <i>International Review of Cell and Molecular Biology</i> , 2019, 344, 215-253.	1.6	23
135	Interferon-induced guanylate-binding proteins: Guardians of host defense in health and disease. <i>Journal of Experimental Medicine</i> , 2019, 216, 482-500.	4.2	184
136	A genome-wide screen identifies IRF2 as a key regulator of caspase-4 in human cells. <i>EMBO Reports</i> , 2019, 20, e48235.	2.0	58
137	Innate, adaptive, and cell-autonomous immunity against <i>Toxoplasma gondii</i> infection. <i>Experimental and Molecular Medicine</i> , 2019, 51, 1-10.	3.2	72
138	Common Differences: The Ability of Inflammasomes to Distinguish Between Self and Pathogen Nucleic Acids During Infection. <i>International Review of Cell and Molecular Biology</i> , 2019, 344, 139-172.	1.6	8
139	A multicomponent toxin from <i>Bacillus cereus</i> incites inflammation and shapes host outcome via the NLRP3 inflammasome. <i>Nature Microbiology</i> , 2019, 4, 362-374.	5.9	78
140	Fungal ligands released by innate immune effectors promote inflammasome activation during <i>Aspergillus fumigatus</i> infection. <i>Nature Microbiology</i> , 2019, 4, 316-327.	5.9	53
141	AIM2 senses <i>Brucella abortus</i> DNA in dendritic cells to induce IL-1 β secretion, pyroptosis and resistance to bacterial infection in mice. <i>Microbes and Infection</i> , 2019, 21, 85-93.	1.0	31
142	The Role of Nucleic Acid Sensing in Controlling Microbial and Autoimmune Disorders. <i>International Review of Cell and Molecular Biology</i> , 2019, 345, 35-136.	1.6	26
143	The emerging role of stimulator of interferons genes signaling in sepsis: Inflammation, autophagy, and cell death. <i>Acta Physiologica</i> , 2019, 225, e13194.	1.8	34
144	Programmed Cell Death in the Evolutionary Race against Bacterial Virulence Factors. <i>Cold Spring Harbor Perspectives in Biology</i> , 2020, 12, a036459.	2.3	30
145	Inflammasomes and the fine line between defense and disease. <i>Current Opinion in Immunology</i> , 2020, 62, 39-44.	2.4	84
146	Nucleic Acid Sensors and Programmed Cell Death. <i>Journal of Molecular Biology</i> , 2020, 432, 552-568.	2.0	57

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147	Captain GBP1: inflammasomes assemble, pyroptotic endgame. <i>Nature Immunology</i> , 2020, 21, 829-830.	7.0	8
148	The microbiome and cytosolic innate immune receptors. <i>Immunological Reviews</i> , 2020, 297, 207-224.	2.8	32
149	Direct binding of polymeric GBP1 to LPS disrupts bacterial cell envelope functions. <i>EMBO Journal</i> , 2020, 39, e104926.	3.5	103
150	Immunobiology and structural biology of AIM2 inflammasome. <i>Molecular Aspects of Medicine</i> , 2020, 76, 100869.	2.7	48
151	Lipopolysaccharide Recognition in the Crossroads of TLR4 and Caspase-4/11 Mediated Inflammatory Pathways. <i>Frontiers in Immunology</i> , 2020, 11, 585146.	2.2	94
152	Irgm2 and Gatec16 cooperatively dampen Gram-negative bacteria-induced caspase-11 response. <i>EMBO Reports</i> , 2020, 21, e50829.	2.0	45
153	Therapeutic modulation of inflammasome pathways. <i>Immunological Reviews</i> , 2020, 297, 123-138.	2.8	135
154	Guanylate Binding Proteins Restrict <i>Leishmania donovani</i> Growth in Nonphagocytic Cells Independent of Parasitophorous Vacuolar Targeting. <i>MBio</i> , 2020, 11, .	1.8	12
155	The regulation of the ZBP1-NLRP3 inflammasome and its implications in pyroptosis, apoptosis, and necroptosis (PANoptosis). <i>Immunological Reviews</i> , 2020, 297, 26-38.	2.8	208
156	AIM2 in health and disease: Inflammasome and beyond. <i>Immunological Reviews</i> , 2020, 297, 83-95.	2.8	107
157	AIM2 Inflammasome's First Decade of Discovery: Focus on Oral Diseases. <i>Frontiers in Immunology</i> , 2020, 11, 1487.	2.2	18
158	Human GBP1 Differentially Targets <i>Salmonella</i> and <i>Toxoplasma</i> to License Recognition of Microbial Ligands and Caspase-Mediated Death. <i>Cell Reports</i> , 2020, 32, 108008.	2.9	58
159	Canonical and Non-canonical Inflammasome Activation by Outer Membrane Vesicles Derived From <i>Bordetella pertussis</i> . <i>Frontiers in Immunology</i> , 2020, 11, 1879.	2.2	31
160	Intracellular innate immune receptors: Life inside the cell. <i>Immunological Reviews</i> , 2020, 297, 5-12.	2.8	54
161	A comprehensive guide to studying inflammasome activation and cell death. <i>Nature Protocols</i> , 2020, 15, 3284-3333.	5.5	32
162	Guanylate-Binding Proteins Are Critical for Effective Control of <i>Francisella tularensis</i> Strains in a Mouse Co-Culture System of Adaptive Immunity. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 594063.	1.8	5
163	Transcriptional Regulation of Inflammasomes. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8087.	1.8	43
164	The involvement of regulated cell death forms in modulating the bacterial and viral pathogenesis. <i>International Review of Cell and Molecular Biology</i> , 2020, 353, 211-253.	1.6	17

#	ARTICLE	IF	CITATIONS
165	SON DNA-binding protein mediates macrophage autophagy and responses to intracellular infection. <i>FEBS Letters</i> , 2020, 594, 2782-2799.	1.3	1
166	Recognition of Intracellular Bacteria by Inflammasomes. , 0, , 287-297.		20
167	A Rapidly Evolving Polybasic Motif Modulates Bacterial Detection by Guanylate Binding Proteins. <i>MBio</i> , 2020, 11, .	1.8	18
168	Vaccine-Mediated Mechanisms Controlling <i>Francisella tularensis</i> SCHU S4 Growth in a Rat Co-Culture System. <i>Pathogens</i> , 2020, 9, 338.	1.2	9
169	Inflammasomes. <i>Current Biology</i> , 2020, 30, R689-R694.	1.8	18
170	Essential Role of mGBP7 for Survival of <i>Toxoplasma gondii</i> Infection. <i>MBio</i> , 2020, 11, .	1.8	18
171	Inflammasome activation and regulation: toward a better understanding of complex mechanisms. <i>Cell Discovery</i> , 2020, 6, 36.	3.1	475
172	Interferon inducible GBPs restrict <i>Burkholderia thailandensis</i> motility induced cell-cell fusion. <i>PLoS Pathogens</i> , 2020, 16, e1008364.	2.1	15
173	Toward targeting inflammasomes: insights into their regulation and activation. <i>Cell Research</i> , 2020, 30, 315-327.	5.7	171
174	IRF8 Regulates Gram-Negative Bacteria-Mediated NLRP3 Inflammasome Activation and Cell Death. <i>Journal of Immunology</i> , 2020, 204, 2514-2522.	0.4	19
175	DNA Sensing in the Innate Immune Response. <i>Physiology</i> , 2020, 35, 112-124.	1.6	91
176	Effect and Regulation of the NLRP3 Inflammasome During Renal Fibrosis. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 379.	1.8	51
177	Inflammasome-mediated antagonism of type I interferon enhances <i>Rickettsia</i> pathogenesis. <i>Nature Microbiology</i> , 2020, 5, 688-696.	5.9	59
178	Caspase-6 Is a Key Regulator of Innate Immunity, Inflammasome Activation, and Host Defense. <i>Cell</i> , 2020, 181, 674-687.e13.	13.5	252
179	Synergism of TNF- α and IFN- β Triggers Inflammatory Cell Death, Tissue Damage, and Mortality in SARS-CoV-2 Infection and Cytokine Shock Syndromes. <i>Cell</i> , 2021, 184, 149-168.e17.	13.5	923
180	Inflammasome activation in acute lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 320, L165-L178.	1.3	44
181	Human guanylate binding proteins: nanomachines orchestrating host defense. <i>FEBS Journal</i> , 2021, 288, 5826-5849.	2.2	42
182	STING, a promising target for small molecular immune modulator: A review. <i>European Journal of Medicinal Chemistry</i> , 2021, 211, 113113.	2.6	37

#	ARTICLE	IF	CITATIONS
183	The Third Man: DNA sensing as espionage in pulmonary vascular health and disease. <i>Pulmonary Circulation</i> , 2021, 11, 1-16.	0.8	3
184	Interferon regulatory factor 1 (IRF1) and anti-pathogen innate immune responses. <i>PLoS Pathogens</i> , 2021, 17, e1009220.	2.1	131
185	Osteoclast fusion and bone loss are restricted by interferon inducible guanylate binding proteins. <i>Nature Communications</i> , 2021, 12, 496.	5.8	51
186	Genetic disruption of zebrafish <i>mab211l</i> reveals a conserved role in eye development and affected pathways. <i>Developmental Dynamics</i> , 2021, 250, 1056-1073.	0.8	8
187	A study of innate immune kinetics reveals a role for a chloride transporter in a virulent <i>Francisella tularensis</i> type B strain. <i>MicrobiologyOpen</i> , 2021, 10, e1170.	1.2	1
188	Interferons: Tug of War Between Bacteria and Their Host. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 624094.	1.8	23
189	Tolerogenic and immunogenic states of Langerhans cells are orchestrated by epidermal signals acting on a core maturation gene module. <i>BioEssays</i> , 2021, 43, e2000182.	1.2	9
190	Role of inflammasomes/pyroptosis and PANoptosis during fungal infection. <i>PLoS Pathogens</i> , 2021, 17, e1009358.	2.1	34
191	Interferon-induced GTPases orchestrate host cell-autonomous defence against bacterial pathogens. <i>Biochemical Society Transactions</i> , 2021, 49, 1287-1297.	1.6	15
192	The complex role of AIM2 in autoimmune diseases and cancers. <i>Immunity, Inflammation and Disease</i> , 2021, 9, 649-665.	1.3	31
194	Human Metapneumovirus Induces IRF1 via TANK-Binding Kinase 1 and Type I IFN. <i>Frontiers in Immunology</i> , 2021, 12, 563336.	2.2	4
195	Cell biology of inflammasome activation. <i>Trends in Cell Biology</i> , 2021, 31, 924-939.	3.6	92
197	AIM2 forms a complex with pyrin and ZBP1 to drive PANoptosis and host defence. <i>Nature</i> , 2021, 597, 415-419.	13.7	221
199	Signaling Through Nucleic Acid Sensors and Their Roles in Inflammatory Diseases. <i>Frontiers in Immunology</i> , 2020, 11, 625833.	2.2	58
200	hGBP1 Coordinates Chlamydia Restriction and Inflammasome Activation through Sequential GTP Hydrolysis. <i>Cell Reports</i> , 2020, 31, 107667.	2.9	27
206	Interferon regulatory factor 1 regulates PANoptosis to prevent colorectal cancer. <i>JCI Insight</i> , 2020, 5, .	2.3	125
207	HECTD3 mediates TRAF3 polyubiquitination and type I interferon induction during bacterial infection. <i>Journal of Clinical Investigation</i> , 2018, 128, 4148-4162.	3.9	44
208	TNF/TNFR axis promotes pyrin inflammasome activation and distinctly modulates pyrin inflammasomopathy. <i>Journal of Clinical Investigation</i> , 2018, 129, 150-162.	3.9	34

#	ARTICLE	IF	CITATIONS
209	HUWE1 mediates inflammasome activation and promotes host defense against bacterial infection. <i>Journal of Clinical Investigation</i> , 2020, 130, 6301-6316.	3.9	38
210	C57BL/6 and 129 inbred mouse strains differ in Gbp2 and Gbp2b expression in response to inflammatory stimuli in vivo. <i>Wellcome Open Research</i> , 2019, 4, 124.	0.9	6
211	Persistent mycobacteria evade an antibacterial program mediated by phagolysosomal TLR7/8/MyD88 in human primary macrophages. <i>PLoS Pathogens</i> , 2017, 13, e1006551.	2.1	26
212	Dynamin-related Irgm proteins modulate LPS-induced caspase-11 activation and septic shock. <i>EMBO Reports</i> , 2020, 21, e50830.	2.0	41
213	AIM2 inhibits autophagy and IFN- β production during <i>M. bovis</i> infection. <i>Oncotarget</i> , 2016, 7, 46972-46987.	0.8	21
214	Entinostat augments NK cell functions via epigenetic upregulation of IFIT1-STING-STAT4 pathway. <i>Oncotarget</i> , 2020, 11, 1799-1815.	0.8	22
215	Inflammasome Signaling and Other Factors Implicated in Atherosclerosis Development and Progression. <i>Current Pharmaceutical Design</i> , 2020, 26, 2583-2590.	0.9	6
216	Type I Interferon Increases Inflammasomes Associated Pyroptosis in the Salivary Glands of Patients with Primary Sjögren's Syndrome. <i>Immune Network</i> , 2020, 20, e39.	1.6	22
217	Guanylate binding proteins directly attack <i>Toxoplasma gondii</i> via supramolecular complexes. <i>ELife</i> , 2016, 5, .	2.8	114
218	The IFN α -inducible GTPase IRGB10 regulates viral replication and inflammasome activation during influenza A virus infection in mice. <i>European Journal of Immunology</i> , 2022, 52, 285-296.	1.6	1
219	The Tumor Necrosis Factor Alpha and Interleukin 6 Auto-paracrine Signaling Loop Controls <i>Mycobacterium avium</i> Infection via Induction of IRF1/IRG1 in Human Primary Macrophages. <i>MBio</i> , 2021, 12, e0212121.	1.8	20
220	Pattern Recognition Molecules. , 2020, , 13-65.		0
223	Cytosolic detection of phagosomal bacteria—Mechanisms underlying PAMP exodus from the phagosome into the cytosol. <i>Molecular Microbiology</i> , 2021, 116, 1420-1432.	1.2	14
224	A Newly Defined Pyroptosis-Related Gene Signature for the Prognosis of Bladder Cancer. <i>International Journal of General Medicine</i> , 2021, Volume 14, 8109-8120.	0.8	10
225	<i>Francisella novicida</i> Mutant XWK4 Triggers Robust Inflammasome Activation Favoring Infection. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 743335.	1.8	0
226	Activation and Immune Regulation Mechanisms of PYHIN Family During Microbial Infection. <i>Frontiers in Microbiology</i> , 2021, 12, 809412.	1.5	6
227	Regulation and function of the cGAS-MITA/STING axis in health and disease. , 2022, 1, 100001.		15
228	Innate Sensors Trigger Regulated Cell Death to Combat Intracellular Infection. <i>Annual Review of Immunology</i> , 2022, 40, 469-498.	9.5	51

#	ARTICLE	IF	CITATIONS
229	Cell-Autonomous Defenses Against Intracellular Bacteria and Protozoa. , 2022, , .		0
231	Inhibition of the NLRP3 Inflammasome Activation by Manoalide Ameliorates Experimental Autoimmune Encephalomyelitis Pathogenesis. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 822236.	1.8	8
232	Programmed cell death: the pathways to severe COVID-19?. <i>Biochemical Journal</i> , 2022, 479, 609-628.	1.7	30
233	Dual roles of the caspase-11 non-canonical inflammasome in inflammatory bowel disease. <i>International Immunopharmacology</i> , 2022, 108, 108739.	1.7	9
234	<i>Toxoplasma</i> -proximal and distal control by GBPs in human macrophages. <i>Pathogens and Disease</i> , 2022, 79, .	0.8	11
235	Macrophages Demonstrate Guanylate-Binding Protein-Dependent and Bacterial Strain-Dependent Responses to <i>Francisella tularensis</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 784101.	1.8	3
236	Functional cross-species conservation of guanylate-binding proteins in innate immunity. <i>Medical Microbiology and Immunology</i> , 2023, 212, 141-152.	2.6	13
244	It's All in the PAN: Crosstalk, Plasticity, Redundancies, Switches, and Interconnectedness Encompassed by PANoptosis Underlying the Totality of Cell Death-Associated Biological Effects. <i>Cells</i> , 2022, 11, 1495.	1.8	37
245	Detecting DNA: An Overview of DNA Recognition by Inflammasomes and Protection against Bacterial Respiratory Infections. <i>Cells</i> , 2022, 11, 1681.	1.8	3
246	Pyroptosis and Its Role in Autoimmune Disease: A Potential Therapeutic Target. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	33
247	A Bibliometric Analysis of the Innate Immune DNA Sensing cGAS-STING Pathway from 2013 to 2021. <i>Frontiers in Immunology</i> , 2022, 13, .	2.2	12
249	Pathogen-selective killing by guanylate-binding proteins as a molecular mechanism leading to inflammasome signaling. <i>Nature Communications</i> , 2022, 13, .	5.8	18
250	Role of NLRP3 Inflammasome and Its Inhibitors as Emerging Therapeutic Drug Candidate for Alzheimer's Disease: a Review of Mechanism of Activation, Regulation, and Inhibition. <i>Inflammation</i> , 2023, 46, 56-87.	1.7	15
251	<i>Klebsiella pneumoniae</i> hijacks the Toll-IL-1R protein SARM1 in a type I IFN-dependent manner to antagonize host immunity. <i>Cell Reports</i> , 2022, 40, 111167.	2.9	8
252	Lipopolysaccharide-induced interferon response networks at birth are predictive of severe viral lower respiratory infections in the first year of life. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	4
253	Interferon regulatory factor 1-triggered free ubiquitin protects the intestines against radiation-induced injury via CXCR4/FGF2 signaling. <i>MedComm</i> , 2022, 3, .	3.1	3
254	Identification of pyrC gene as an immunosuppressive factor in <i>Francisella novicida</i> infection. <i>Frontiers in Cellular and Infection Microbiology</i> , 0, 12, .	1.8	0
255	PANoptosis: A Unique Innate Immune Inflammatory Cell Death Modality. <i>Journal of Immunology</i> , 2022, 209, 1625-1633.	0.4	51

#	ARTICLE	IF	CITATIONS
256	Inflammasome Activation Dampens Type I IFN Signaling to Strengthen Anti- <i>Toxoplasma</i> Immunity. <i>MBio</i> , 2022, 13, .	1.8	7
257	Non-canonical NF- κ B contributes to endothelial pyroptosis and atherogenesis dependent on IRF-1. <i>Translational Research</i> , 2023, 255, 1-13.	2.2	4
258	Cellular signaling, molecular activation, and regulation of the AIM2 inflammasome. , 2023, , 93-108.		2
259	Inflammasome formation and triggers. , 2023, , 17-32.		0
260	Peptidoglycan enzymes of <i>Francisella</i> : Roles in cell morphology and pathogenesis, and potential as therapeutic targets. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	0
261	Integrating Transcriptomic and ChIP-Seq Reveals Important Regulatory Regions Modulating Gene Expression in Myometrium during Implantation in Pigs. <i>Biomolecules</i> , 2023, 13, 45.	1.8	1
262	Intravesical BCG in patients with non-muscle invasive bladder cancer induces trained immunity and decreases respiratory infections. , 2023, 11, e005518.		14
263	Human IRF1 governs macrophagic IFN- γ immunity to mycobacteria. <i>Cell</i> , 2023, 186, 621-645.e33.	13.5	25
264	Advances in mechanism and regulation of PANoptosis: Prospects in disease treatment. <i>Frontiers in Immunology</i> , 0, 14, .	2.2	18
265	Immunity against <i>Moraxella catarrhalis</i> requires guanylate-binding proteins and caspase-11-NLRP3 inflammasomes. <i>EMBO Journal</i> , 2023, 42, .	3.5	11
266	Innate immune inflammatory cell death: PANoptosis and PANoptosomes in host defense and disease. <i>European Journal of Immunology</i> , 2023, 53, .	1.6	19
267	Comparative study of GBP recruitment on two cytosol-dwelling pathogens, <i>Francisella novicida</i> and <i>Shigella flexneri</i> highlights differences in GBP repertoire and in GBP1 motif requirements. <i>Pathogens and Disease</i> , 2023, 81, .	0.8	2
268	A lncRNA from an inflammatory bowel disease risk locus maintains intestinal host-commensal homeostasis. <i>Cell Research</i> , 2023, 33, 372-388.	5.7	4
269	<i>Clostridium perfringens</i> virulence factors are nonredundant activators of the NLRP3 inflammasome. <i>EMBO Reports</i> , 0, , .	2.0	1
277	Novel Therapeutic Avenues for Hypertrophic Cardiomyopathy. <i>American Journal of Cardiovascular Drugs</i> , 0, , .	1.0	0
285	Mechanisms of PANoptosis and relevant small-molecule compounds for fighting diseases. <i>Cell Death and Disease</i> , 2023, 14, .	2.7	1