

# Seth L Masters

## List of Publications by Year in descending order

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131  
papers

21,518  
citations

25034

57  
h-index

17105

122  
g-index

151  
all docs

151  
docs citations

151  
times ranked

29705  
citing authors

#	ARTICLE	IF	CITATIONS
1	Succinate is an inflammatory signal that induces IL-1 $\beta$ through HIF-1 $\alpha$ . <i>Nature</i> , 2013, 496, 238-242.	27.8	2,845
2	A small-molecule inhibitor of the NLRP3 inflammasome for the treatment of inflammatory diseases. <i>Nature Medicine</i> , 2015, 21, 248-255.	30.7	1,967
3	Activation of the NLRP3 inflammasome by islet amyloid polypeptide provides a mechanism for enhanced IL-1 $\beta$ in type 2 diabetes. <i>Nature Immunology</i> , 2010, 11, 897-904.	14.5	1,149
4	<i>Horror Autoinflammaticus</i>: The Molecular Pathophysiology of Autoinflammatory Disease. <i>Annual Review of Immunology</i> , 2009, 27, 621-668.	21.8	970
5	<i>STAT4</i> and the Risk of Rheumatoid Arthritis and Systemic Lupus Erythematosus. <i>New England Journal of Medicine</i> , 2007, 357, 977-986.	27.0	914
6	An Autoinflammatory Disease with Deficiency of the Interleukin-1 $\alpha$ Receptor Antagonist. <i>New England Journal of Medicine</i> , 2009, 360, 2426-2437.	27.0	892
7	NLRP3 inflammasome blockade reduces liver inflammation and fibrosis in experimental NASH in mice. <i>Journal of Hepatology</i> , 2017, 66, 1037-1046.	3.7	738
8	RIPK3 promotes cell death and NLRP3 inflammasome activation in the absence of MLKL. <i>Nature Communications</i> , 2015, 6, 6282.	12.8	514
9	The B30.2 domain of pyrin, the familial Mediterranean fever protein, interacts directly with caspase-1 to modulate IL-1 $\beta$ production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9982-9987.	7.1	502
10	RIPK1 Regulates RIPK3-MLKL-Driven Systemic Inflammation and Emergency Hematopoiesis. <i>Cell</i> , 2014, 157, 1175-1188.	28.9	492
11	TDP-43 Triggers Mitochondrial DNA Release via mPTP to Activate cGAS/STING in ALS. <i>Cell</i> , 2020, 183, 636-649.e18.	28.9	453
12	The transcriptional regulators IRF4, BATF and IL-33 orchestrate development and maintenance of adipose tissue-resident regulatory T cells. <i>Nature Immunology</i> , 2015, 16, 276-285.	14.5	442
13	Adipose Tissue Macrophages Promote Myelopoiesis and Monocytosis in Obesity. <i>Cell Metabolism</i> , 2014, 19, 821-835.	16.2	395
14	Cutting Edge: miR-223 and EBV miR-BART15 Regulate the NLRP3 Inflammasome and IL-1 $\beta$ Production. <i>Journal of Immunology</i> , 2012, 189, 3795-3799.	0.8	387
15	miR-223: infection, inflammation and cancer. <i>Journal of Internal Medicine</i> , 2013, 274, 215-226.	6.0	360
16	Active MLKL triggers the NLRP3 inflammasome in a cell-intrinsic manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E961-E969.	7.1	337
17	Homeostasis-altering molecular processes as mechanisms of inflammasome activation. <i>Nature Reviews Immunology</i> , 2017, 17, 208-214.	22.7	332
18	Germline NLRP1 Mutations Cause Skin Inflammatory and Cancer Susceptibility Syndromes via Inflammasome Activation. <i>Cell</i> , 2016, 167, 187-202.e17.	28.9	317

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19	Evidence that TLR4 Is Not a Receptor for Saturated Fatty Acids but Mediates Lipid-Induced Inflammation by Reprogramming Macrophage Metabolism. <i>Cell Metabolism</i> , 2018, 27, 1096-1110.e5.	16.2	309
20	Myeloid-derived miR-223 regulates intestinal inflammation via repression of the NLRP3 inflammasome. <i>Journal of Experimental Medicine</i> , 2017, 214, 1737-1752.	8.5	289
21	NLRP3 inflammasome activation downstream of cytoplasmic LPS recognition by both caspase-4 and caspase-5. <i>European Journal of Immunology</i> , 2015, 45, 2918-2926.	2.9	283
22	NLRP1 Inflammasome Activation Induces Pyroptosis of Hematopoietic Progenitor Cells. <i>Immunity</i> , 2012, 37, 1009-1023.	14.3	257
23	Dual Role for Inflammasome Sensors NLRP1 and NLRP3 in Murine Resistance to <i>Toxoplasma gondii</i> . <i>MBio</i> , 2014, 5, .	4.1	244
24	Familial autoinflammation with neutrophilic dermatosis reveals a regulatory mechanism of pyrin activation. <i>Science Translational Medicine</i> , 2016, 8, 332ra45.	12.4	241
25	Familial mediterranean fever with a single <i>MEFV</i> mutation: Where is the second hit?. <i>Arthritis and Rheumatism</i> , 2009, 60, 1851-1861.	6.7	229
26	TBK1 and IKK $\mu$ Act Redundantly to Mediate STING-Induced NF- $\kappa$ B Responses in Myeloid Cells. <i>Cell Reports</i> , 2020, 31, 107492.	6.4	223
27	Mutations that prevent caspase cleavage of RIPK1 cause autoinflammatory disease. <i>Nature</i> , 2020, 577, 103-108.	27.8	198
28	Inflammasome Priming in Sterile Inflammatory Disease. <i>Trends in Molecular Medicine</i> , 2017, 23, 165-180.	6.7	193
29	The Pathogen <i>Candida albicans</i> Hijacks Pyroptosis for Escape from Macrophages. <i>MBio</i> , 2014, 5, e00003-14.	4.1	181
30	Human DPP9 represses NLRP1 inflammasome and protects against autoinflammatory diseases via both peptidase activity and FIIND domain binding. <i>Journal of Biological Chemistry</i> , 2018, 293, 18864-18878.	3.4	172
31	The Mitochondrial Apoptotic Effectors BAX/BAK Activate Caspase-3 and -7 to Trigger NLRP3 Inflammasome and Caspase-8 Driven IL-1 $\beta$ Activation. <i>Cell Reports</i> , 2018, 25, 2339-2353.e4.	6.4	164
32	Dysregulated IL-18 Is a Key Driver of Immunosuppression and a Possible Therapeutic Target in the Multiple Myeloma Microenvironment. <i>Cancer Cell</i> , 2018, 33, 634-648.e5.	16.8	163
33	Constitutive immune mechanisms: mediators of host defence and immune regulation. <i>Nature Reviews Immunology</i> , 2021, 21, 137-150.	22.7	152
34	EspL is a bacterial cysteine protease effector that cleaves RHIM proteins to block necroptosis and inflammation. <i>Nature Microbiology</i> , 2017, 2, 16258.	13.3	141
35	The familial Mediterranean fever protein, pyrin, is cleaved by caspase-1 and activates NF- $\kappa$ B through its N-terminal fragment. <i>Blood</i> , 2008, 112, 1794-1803.	1.4	139
36	The Inflammasome in Atherosclerosis and Type 2 Diabetes. <i>Science Translational Medicine</i> , 2011, 3, 81ps17.	12.4	134

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37	IL-18 Production from the NLRP1 Inflammasome Prevents Obesity and Metabolic Syndrome. <i>Cell Metabolism</i> , 2016, 23, 155-164.	16.2	133
38	Disease-associated amyloid and misfolded protein aggregates activate the inflammasome. <i>Trends in Molecular Medicine</i> , 2011, 17, 276-282.	6.7	124
39	ATF3 Is a Key Regulator of Macrophage IFN Responses. <i>Journal of Immunology</i> , 2015, 195, 4446-4455.	0.8	121
40	Aberrant actin depolymerization triggers the pyrin inflammasome and autoinflammatory disease that is dependent on IL-18, not IL-1 $\beta$ . <i>Journal of Experimental Medicine</i> , 2015, 212, 927-938.	8.5	120
41	A novel Pyrin-Associated Autoinflammation with Neutrophilic Dermatitis mutation further defines 14-3-3 binding of pyrin and distinction to Familial Mediterranean Fever. <i>Annals of the Rheumatic Diseases</i> , 2017, 76, 2085-2094.	0.9	118
42	SIDT2 Transports Extracellular dsRNA into the Cytoplasm for Innate Immune Recognition. <i>Immunity</i> , 2017, 47, 498-509.e6.	14.3	109
43	An aspartyl protease defines a novel pathway for export of <i>Toxoplasma</i> proteins into the host cell. <i>ELife</i> , 2015, 4, .	6.0	99
44	A <i>Toxoplasma gondii</i> Gluconeogenic Enzyme Contributes to Robust Central Carbon Metabolism and Is Essential for Replication and Virulence. <i>Cell Host and Microbe</i> , 2015, 18, 210-220.	11.0	95
45	A Mutation Outside the Dimerization Domain Causing Atypical STING-Associated Vasculopathy With Onset in Infancy. <i>Frontiers in Immunology</i> , 2018, 9, 1535.	4.8	90
46	The SPRY domain-containing SOCS box protein SPSB2 targets iNOS for proteasomal degradation. <i>Journal of Cell Biology</i> , 2010, 190, 129-141.	5.2	88
47	Clinical features and functional significance of the P369S/R408Q variant in pyrin, the familial Mediterranean fever protein. <i>Annals of the Rheumatic Diseases</i> , 2010, 69, 1360-1363.	0.9	86
48	Interleukin-1 receptor-associated kinase 4 (IRAK4) plays a dual role in myddosome formation and Toll-like receptor signaling. <i>Journal of Biological Chemistry</i> , 2018, 293, 15195-15207.	3.4	86
49	NLRP1 restricts butyrate producing commensals to exacerbate inflammatory bowel disease. <i>Nature Communications</i> , 2018, 9, 3728.	12.8	81
50	Specific inflammasomes in complex diseases. <i>Clinical Immunology</i> , 2013, 147, 223-228.	3.2	79
51	A missense mutation in the MLKL brace region promotes lethal neonatal inflammation and hematopoietic dysfunction. <i>Nature Communications</i> , 2020, 11, 3150.	12.8	75
52	The SPRY domain of SSB-2 adopts a novel fold that presents conserved Par-4-binding residues. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 77-84.	8.2	72
53	Regulation of interleukin-1 $\beta$ by interferon- $\beta$ is species specific, limited by suppressor of cytokine signalling 1 and influences interleukin-17 production. <i>EMBO Reports</i> , 2010, 11, 640-646.	4.5	72
54	Regulation of Starch Stores by a Ca <sup>2+</sup> -Dependent Protein Kinase Is Essential for Viable Cyst Development in <i>Toxoplasma gondii</i> . <i>Cell Host and Microbe</i> , 2015, 18, 670-681.	11.0	71

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55	RIPLET, and not TRIM25, is required for endogenous RIG-I-dependent antiviral responses. <i>Immunology and Cell Biology</i> , 2019, 97, 840-852.	2.3	70
56	An Update on Autoinflammatory Diseases: Inflammasomopathies. <i>Current Rheumatology Reports</i> , 2018, 20, 40.	4.7	68
57	Microparticulate Caspase 1 Regulates Gasdermin D and Pulmonary Vascular Endothelial Cell Injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 59, 56-64.	2.9	66
58	Membrane vesicles from <i>Pseudomonas aeruginosa</i> activate the noncanonical inflammasome through caspase-5 in human monocytes. <i>Immunology and Cell Biology</i> , 2018, 96, 1120-1130.	2.3	65
59	Posttranslational Modification as a Critical Determinant of Cytoplasmic Innate Immune Recognition. <i>Physiological Reviews</i> , 2017, 97, 1165-1209.	28.8	63
60	Mechanisms of NLRP1-Mediated Autoinflammatory Disease in Humans and Mice. <i>Journal of Molecular Biology</i> , 2018, 430, 142-152.	4.2	63
61	TLR Regulation of SPSB1 Controls Inducible Nitric Oxide Synthase Induction. <i>Journal of Immunology</i> , 2011, 187, 3798-3805.	0.8	62
62	Transcriptional analysis of the three Nlrp1 paralogs in mice. <i>BMC Genomics</i> , 2013, 14, 188.	2.8	62
63	NK cell-derived GM-CSF potentiates inflammatory arthritis and is negatively regulated by CIS. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	60
64	Pyrin Modulates the Intracellular Distribution of PSTPIP1. <i>PLoS ONE</i> , 2009, 4, e6147.	2.5	59
65	The RNA-binding protein Tristetraprolin (TTP) is a critical negative regulator of the NLRP3 inflammasome. <i>Journal of Biological Chemistry</i> , 2017, 292, 6869-6881.	3.4	53
66	ZAK1-driven ribotoxic stress response activates the human NLRP1 inflammasome. <i>Science</i> , 2022, 377, 328-335.	12.6	53
67	Autoinflammatory mutation in NLRC4 reveals a leucine-rich repeat (LRR)-LRR oligomerization interface. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 142, 1956-1967.e6.	2.9	52
68	An Update on Autoinflammatory Diseases: Interferonopathies. <i>Current Rheumatology Reports</i> , 2018, 20, 38.	4.7	50
69	Organelle homeostasis and innate immune sensing. <i>Nature Reviews Immunology</i> , 2022, 22, 535-549.	22.7	49
70	The NLRP3 Inflammasome Suppresses Protective Immunity to Gastrointestinal Helminth Infection. <i>Cell Reports</i> , 2018, 23, 1085-1098.	6.4	48
71	Recent advances in the molecular pathogenesis of hereditary recurrent fevers. <i>Current Opinion in Allergy and Clinical Immunology</i> , 2006, 6, 428-433.	2.3	45
72	Linking Metabolic Abnormalities to Apoptotic Pathways in Beta Cells in Type 2 Diabetes. <i>Cells</i> , 2013, 2, 266-283.	4.1	44

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73	Connexin-Dependent Transfer of cGAMP to Phagocytes Modulates Antiviral Responses. <i>MBio</i> , 2020, 11, .	4.1	44
74	Deficiency in coatamer complex I causes aberrant activation of STING signalling. <i>Nature Communications</i> , 2022, 13, 2321.	12.8	43
75	An Update on Autoinflammatory Diseases: Relopathies. <i>Current Rheumatology Reports</i> , 2018, 20, 39.	4.7	41
76	SPRY Domain-Containing SOCS Box Protein 2: Crystal Structure and Residues Critical for Protein Binding. <i>Journal of Molecular Biology</i> , 2009, 386, 662-674.	4.2	40
77	Plasmacytoid dendritic cells are short-lived: reappraising the influence of migration, genetic factors and activation on estimation of lifespan. <i>Scientific Reports</i> , 2016, 6, 25060.	3.3	40
78	A <i>Helicobacter pylori</i> Homolog of Eukaryotic Flotillin Is Involved in Cholesterol Accumulation, Epithelial Cell Responses and Host Colonization. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017, 7, 219.	3.9	40
79	The role of PLC $\beta$ 2 in immunological disorders, cancer, and neurodegeneration. <i>Journal of Biological Chemistry</i> , 2021, 297, 100905.	3.4	39
80	The <i>Salmonella</i> pathogenicity island-2 subverts human NLRP3 and NLRC4 inflammasome responses. <i>Journal of Leukocyte Biology</i> , 2019, 105, 401-410.	3.3	38
81	Excessive deubiquitination of NLRP3-R779C variant contributes to very-early-onset inflammatory bowel disease development. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 267-279.	2.9	38
82	Deficiency of 5-hydroxyisourate hydrolase causes hepatomegaly and hepatocellular carcinoma in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16625-16630.	7.1	37
83	TRAIL-Expressing Monocyte/Macrophages Are Critical for Reducing Inflammation and Atherosclerosis. <i>IScience</i> , 2019, 12, 41-52.	4.1	33
84	SIDT1 Localizes to Endolysosomes and Mediates Double-Stranded RNA Transport into the Cytoplasm. <i>Journal of Immunology</i> , 2019, 202, 3483-3492.	0.8	33
85	Deficient NLRP3 and AIM2 Inflammasome Function in Autoimmune NZB Mice. <i>Journal of Immunology</i> , 2015, 195, 1233-1241.	0.8	32
86	Monogenic autoinflammatory diseases: Cytokinopathies. <i>Cytokine</i> , 2015, 74, 237-246.	3.2	32
87	Intercellular communication for innate immunity. <i>Molecular Immunology</i> , 2017, 86, 16-22.	2.2	32
88	Ximmer: a system for improving accuracy and consistency of CNV calling from exome data. <i>GigaScience</i> , 2018, 7, .	6.4	32
89	Fas regulates neutrophil lifespan during viral and bacterial infection. <i>Journal of Leukocyte Biology</i> , 2015, 97, 321-326.	3.3	28
90	Activation of the NLRP3 Inflammasome Complex is Not Required for Stress-Induced Death of Pancreatic Islets. <i>PLoS ONE</i> , 2014, 9, e113128.	2.5	26

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91	The modern interleukin-1 superfamily: Divergent roles in obesity. <i>Seminars in Immunology</i> , 2016, 28, 441-449.	5.6	26
92	Pharmacological validation of targets regulating CD14 during macrophage differentiation. <i>EBioMedicine</i> , 2020, 61, 103039.	6.1	24
93	The classification, genetic diagnosis and modelling of monogenic autoinflammatory disorders. <i>Clinical Science</i> , 2018, 132, 1901-1924.	4.3	22
94	Protein kinase R is an innate immune sensor of proteotoxic stress via accumulation of cytoplasmic IL-24. <i>Science Immunology</i> , 2022, 7, eabi6763.	11.9	22
95	Generation of Genetic Knockouts in Myeloid Cell Lines Using a Lentiviral CRISPR/Cas9 System. <i>Methods in Molecular Biology</i> , 2018, 1714, 41-55.	0.9	19
96	Activating the NLRP3 Inflammasome Using the Amyloidogenic Peptide IAPP. <i>Methods in Molecular Biology</i> , 2013, 1040, 9-18.	0.9	18
97	Legionella pneumophila Strain 130b Evades Macrophage Cell Death Independent of the Effector SidF in the Absence of Flagellin. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017, 7, 35.	3.9	18
98	Differential recognition of HIV-stimulated IL-1 $\beta$ and IL-18 secretion through NLR and NAIP signalling in monocyte-derived macrophages. <i>PLoS Pathogens</i> , 2021, 17, e1009417.	4.7	18
99	Recessive NLRC4-Autoinflammatory Disease Reveals an Ulcerative Colitis Locus. <i>Journal of Clinical Immunology</i> , 2022, 42, 325-335.	3.8	17
100	Whole-genome sequencing reveals that variants in the Interleukin 18 Receptor Accessory Protein 3 $\beta$ UTR protect against ALS. <i>Nature Neuroscience</i> , 2022, 25, 433-445.	14.8	16
101	Lack of protein prenylation promotes NLRP3 inflammasome assembly in human monocytes. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 143, 2315-2317.e3.	2.9	15
102	Letter to the Editor: Backbone 1H, 13C and 15N assignments of the 25 kDa SPRY domain-containing SOCS box protein 2 (SSB-2). <i>Journal of Biomolecular NMR</i> , 2005, 31, 69-70.	2.8	14
103	Dynamics of the SPRY domain-containing SOCS box protein 2: Flexibility of key functional loops. <i>Protein Science</i> , 2006, 15, 2761-2772.	7.6	14
104	Granzyme M has a critical role in providing innate immune protection in ulcerative colitis. <i>Cell Death and Disease</i> , 2016, 7, e2302-e2302.	6.3	14
105	Genetic Deletion of Murine SPRY Domain-Containing SOCS Box Protein 2 (SSB-2) Results in Very Mild Thrombocytopenia. <i>Molecular and Cellular Biology</i> , 2005, 25, 5639-5647.	2.3	13
106	Innate immunity. <i>Current Opinion in Immunology</i> , 2014, 26, v-vi.	5.5	11
107	Broadening the definition of autoinflammation. <i>Seminars in Immunopathology</i> , 2015, 37, 311-312.	6.1	11
108	Identification of a second binding site on the TRIM25 B30.2 domain. <i>Biochemical Journal</i> , 2018, 475, 429-440.	3.7	11

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109	Inhibition of interleukin-1 <sup>2</sup> signalling promotes atherosclerotic lesion remodelling in mice with inflammatory arthritis. <i>Clinical and Translational Immunology</i> , 2020, 9, e1206.	3.8	11
110	NLRP1 variant M1184V decreases inflammasome activation in the context of DPP9 inhibition and asthma severity. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 2134-2145.e20.	2.9	11
111	The molybdate binding protein Mop from <i>Haemophilus influenzae</i> Biochemical and thermodynamic characterisation. <i>Archives of Biochemistry and Biophysics</i> , 2005, 439, 105-112.	3.0	10
112	Protective Effect of Inflammasome Activation by Hydrogen Peroxide in a Mouse Model of Septic Shock. <i>Critical Care Medicine</i> , 2017, 45, e184-e194.	0.9	9
113	NLRP1a Expression in Srebp-1a-Deficient Mice. <i>Cell Metabolism</i> , 2014, 19, 345-346.	16.2	6
114	Avenues to autoimmune arthritis triggered by diverse remote inflammatory challenges. <i>Journal of Autoimmunity</i> , 2016, 73, 120-129.	6.5	3
115	Caspase substrates won't be defined by a four-letter code. <i>Journal of Biological Chemistry</i> , 2018, 293, 7068-7069.	3.4	3
116	Release of the mitochondrial endosymbiont helps explain sterile inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, E32.	7.1	2
117	Pattern Recognition Receptors in Autoinflammation. , 2019, , 61-87.		2
118	Small Extracellular Vesicle Enrichment of a Retrotransposon-Derived Double-Stranded RNA: A Means to Avoid Autoinflammation?. <i>Biomedicines</i> , 2021, 9, 1136.	3.2	2
119	Compound Heterozygous Mutations of IL12RB1 in a Patient with Selective Defects in Th17 Differentiation. <i>Journal of Clinical Immunology</i> , 2020, 40, 647-652.	3.8	1
120	Protein kinase antagonists as therapeutic agents for immunological and inflammatory disorders. , 2008, , 1341-1351.		0
121	111. <i>Cytokine</i> , 2013, 63, 269.	3.2	0
122	A healthy appetite for <i>Toxoplasma</i> at the cellular level. <i>Immunology and Cell Biology</i> , 2014, 92, 813-814.	2.3	0
123	126. <i>Cytokine</i> , 2014, 70, 58.	3.2	0
124	Whole exome sequencing in systemic juvenile idiopathic arthritis. <i>Pediatric Rheumatology</i> , 2015, 13, .	2.1	0
125	Whole exome sequencing in systemic juvenile idiopathic arthritis. <i>Pathology</i> , 2016, 48, S43.	0.6	0
126	<i>JEM</i> career launchpad. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	0



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127	The SPRY domain-containing SOCS box protein SPSB2 targets iNOS for proteasomal degradation. <i>Journal of Experimental Medicine</i> , 2010, 207, i22-i22.	8.5	0
128	Activation of the NLRP1 Inflammasome Induces the Pyroptotic Death of Hematopoietic Progenitor Cells. <i>Blood</i> , 2012, 120, 1213-1213.	1.4	0
129	Necroptotic Death Of RIPK1-Deficient HSC Compromises Hematopoiesis. <i>Blood</i> , 2013, 122, 218-218.	1.4	0
130	Fas Controls Neutrophil Lifespan during Bacterial and Viral Infection. <i>Blood</i> , 2014, 124, 1579-1579.	1.4	0
131	Aberrant actin depolymerization triggers the pyrin inflammasome and autoinflammatory disease that is dependent on IL-18, not IL-1 $\beta$ . <i>Journal of Cell Biology</i> , 2015, 209, 2095-2104.	5.2	0