Katryn J Stacey

List of Publications by Year
in descending order

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71 papers	6,553 citations	66343 42 h-index	85541 71 g-index
71 all docs	71 docs citations	71 times ranked	9526 citing authors

#	Article	IF	Citations
1	HIN-200 Proteins Regulate Caspase Activation in Response to Foreign Cytoplasmic DNA. Science, 2009, 323, 1057-1060.	12.6	737
2	Caspase-1 self-cleavage is an intrinsic mechanism to terminate inflammasome activity. Journal of Experimental Medicine, 2018, 215, 827-840.	8.5	396
3	Dengue virus NS1 protein activates cells via Toll-like receptor 4 and disrupts endothelial cell monolayer integrity. Science Translational Medicine, 2015, 7, 304ra142.	12.4	394
4	The Neutrophil NLRC4 Inflammasome Selectively Promotes IL-1Î² Maturation without Pyroptosis during Acute Salmonella Challenge. Cell Reports, 2014, 8, 570-582.	6.4	341
5	Bacterial membrane vesicles transport their DNA cargo into host cells. Scientific Reports, 2017, 7, 7072.	3.3	267
6	Interaction between conventional dendritic cells and natural killer cells is integral to the activation of effective antiviral immunity. Nature Immunology, 2005, 6, 1011-1019.	14.5	241
7	Inflammasome-mediated pyroptotic and apoptotic cell death, and defense against infection. Current Opinion in Microbiology, 2013, 16, 319-326.	5.1	235
8	The phasevarion: A genetic system controlling coordinated, random switching of expression of multiple genes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5547-5551.	7.1	191
9	Mitochondrial apoptosis is dispensable for <scp>NLRP</scp>3 inflammasome activation but nonâ€apoptotic caspaseâ€8 is required for inflammasome priming. EMBO Reports, 2014, 15, 982-990.	4.5	189
10	The mammalian PYHIN gene family: Phylogeny, evolution and expression. BMC Evolutionary Biology, 2012, 12, 140.	3.2	168
11	The Molecular Basis for the Lack of Immunostimulatory Activity of Vertebrate DNA. Journal of Immunology, 2003, 170, 3614-3620.	0.8	164
12	DEC-205 is a cell surface receptor for CpG oligonucleotides. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16270-16275.	7.1	155
13	Acute lipopolysaccharide priming boosts inflammasome activation independently of inflammasome sensor induction. Immunobiology, 2012, 217, 1325-1329.	1.9	140
14	Structural basis of TIR-domain-assembly formation in MAL- and MyD88-dependent TLR4 signaling. Nature Structural and Molecular Biology, 2017, 24, 743-751.	8.2	140
15	Immunostimulatory DNA as an Adjuvant in Vaccination againstLeishmania major. Infection and Immunity, 1999, 67, 3719-3726.	2.2	134
16	Cutting Edge: Species-Specific TLR9-Mediated Recognition of CpG and Non-CpG Phosphorothioate-Modified Oligonucleotides. Journal of Immunology, 2005, 174, 605-608.	0.8	129
17	Cryo-EM Structure of Caspase-8 Tandem DED Filament Reveals Assembly and Regulation Mechanisms of the Death-Inducing Signaling Complex. Molecular Cell, 2016, 64, 236-250.	9.7	128
18	Phosphorothioate Backbone Modification Modulates Macrophage Activation by CpG DNA. Journal of Immunology, 2000, 165, 4165-4173.	0.8	116

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19	Electroporation and DNAâ€dependent cell death in murine macrophages. Immunology and Cell Biology, 1993, 71, 75-85.	2.3	113
20	Persistent Activation of Mitogen-Activated Protein Kinases p42 and p44 and ets-2 Phosphorylation in Response to Colony-Stimulating Factor 1/c-fms Signaling. Molecular and Cellular Biology, 1998, 18, 5148-5156.	2.3	98
21	The molecular mechanisms of signaling by cooperative assembly formation in innate immunity pathways. Molecular Immunology, 2017, 86, 23-37.	2.2	95
22	Colony-Stimulating Factor-1 Suppresses Responses to CpG DNA and Expression of Toll-Like Receptor 9 but Enhances Responses to Lipopolysaccharide in Murine Macrophages. Journal of Immunology, 2002, 168, 392-399.	0.8	93
23	Programmed Death-1 Ligand 2-Mediated Regulation of the PD-L1 to PD-1 Axis Is Essential for Establishing CD4 + T Cell Immunity. Immunity, 2016, 45, 333-345.	14.3	92
24	Salmonella employs multiple mechanisms to subvert the TLRâ€inducible zincâ€mediated antimicrobial response of human macrophages. FASEB Journal, 2016, 30, 1901-1912.	0.5	91
25	A Novel Flow Cytometric Method To Assess Inflammasome Formation. Journal of Immunology, 2015, 194, 455-462.	0.8	90
26	Dengue virus NS1 protein activates immune cells via TLR4 but not TLR2 or TLR6. Immunology and Cell Biology, 2017, 95, 491-495.	2.3	89
27	IFN-Î³ Primes Macrophage Responses to Bacterial DNA. Journal of Interferon and Cytokine Research, 1998, 18, 263-271.	1.2	82
28	Molecular Mechanism for p202-Mediated Specific Inhibition of AIM2 Inflammasome Activation. Cell Reports, 2013, 4, 327-339.	6.4	81
29	Plasmodium Strain Determines Dendritic Cell Function Essential for Survival from Malaria. PLoS Pathogens, 2007, 3, e96.	4.7	72
30	Differences in Macrophage Activation by Bacterial DNA and CpG-Containing Oligonucleotides. Journal of Immunology, 2005, 175, 3569-3576.	0.8	71
31	Caspase-1 Is an Apical Caspase Leading to Caspase-3 Cleavage in the AIM2 Inflammasome Response, Independent of Caspase-8. Journal of Molecular Biology, 2018, 430, 238-247.	4.2	71
32	The Inflammasome Adaptor ASC Induces Procaspase-8 Death Effector Domain Filaments. Journal of Biological Chemistry, 2015, 290, 29217-29230.	3.4	69
33	Macrophage Activation and Differentiation Signals Regulate Schlafen-4 Gene Expression: Evidence for Schlafen-4 as a Modulator of Myelopoiesis. PLoS ONE, 2011, 6, e15723.	2.5	67
34	A broadly protective antibody that targets the flavivirus NS1 protein. Science, 2021, 371, 190-194.	12.6	66
35	Membrane vesicles from Pseudomonas aeruginosa activate the noncanonical inflammasome through caspaseâ€5 in human monocytes. Immunology and Cell Biology, 2018, 96, 1120-1130.	2.3	65
36	CpG DNA Activates Survival in Murine Macrophages through TLR9 and the Phosphatidylinositol 3-Kinase-Akt Pathway. Journal of Immunology, 2006, 177, 4473-4480.	0.8	62

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37	Intramacrophage survival of uropathogenic Escherichia coli: Differences between diverse clinical isolates and between mouse and human macrophages. Immunobiology, 2011, 216, 1164-1171.	1.9	61
38	LPS regulates a set of genes in primary murine macrophages by antagonising CSF-1 action. Immunobiology, 2005, 210, 97-107.	1.9	58
39	MyD88 TIR domain higher-order assembly interactions revealed by microcrystal electron diffraction and serial femtosecond crystallography. Nature Communications, 2021, 12, 2578.	12.8	55
40	Constitutive expression of the urokinase plasminogen activator gene in murine RAW264 macrophages involves distal and 5â€² non-coding sequences that are conserved between mouse and pig. Nucleic Acids Research, 1991, 19, 6839-6847.	14.5	53
41	Regulation of the plasminogen activator inhibitor-2 (PAI-2) gene in murine macrophages. Demonstration of a novel pattern of responsiveness to bacterial endotoxin. Journal of Leukocyte Biology, 1999, 66, 172-182.	3.3	53
42	Differential Effects of CpG DNA on IFN-Î² Induction and STAT1 Activation in Murine Macrophages versus Dendritic Cells: Alternatively Activated STAT1 Negatively Regulates TLR Signaling in Macrophages. Journal of Immunology, 2007, 179, 3495-3503.	0.8	44
43	PU.1 and ICSBP control constitutive and IFN-Î³-regulated Tlr9 gene expression in mouse macrophages. Journal of Leukocyte Biology, 2007, 81, 1577-1590.	3.3	41
44	Malaria infection alters the expression of <scp>B</scp>â€cell activating factor resulting in diminished memory antibody responses and survival. European Journal of Immunology, 2012, 42, 3291-3301.	2.9	38
45	Identification of Multifaceted Binding Modes for Pyrin and ASC Pyrin Domains Gives Insights into Pyrin Inflammasome Assembly. Journal of Biological Chemistry, 2014, 289, 23504-23519.	3.4	37
46	The actions of bacterial DNA on murine macrophages. Journal of Leukocyte Biology, 1999, 66, 542-548.	3.3	33
47	DNA Motifs Suppressing TLR9 Responses. Critical Reviews in Immunology, 2006, 26, 527-544.	0.5	33
48	Deficient NLRP3 and AIM2 Inflammasome Function in Autoimmune NZB Mice. Journal of Immunology, 2015, 195, 1233-1241.	0.8	32
49	Assessment of Inflammasome Formation by Flow Cytometry. Current Protocols in Immunology, 2016, 114, 14.40.1-14.40.29.	3.6	27
50	Dual targeting of dengue virus virions and NS1 protein with the heparan sulfate mimic PG545. Antiviral Research, 2019, 168, 121-127.	4.1	27
51	Mechanisms of regulation of the MacMARCKS gene in macrophages by bacterial lipopolysaccharide. Journal of Leukocyte Biology, 1999, 66, 528-534.	3.3	21
52	RNA synthesis inhibition stabilises urokinase mRNA in macrophages. FEBS Letters, 1994, 356, 311-313.	2.8	20
53	Higher-order CpG-DNA stimulation reveals distinct activation requirements for marginal zone and follicular B cells in lupus mice. European Journal of Immunology, 2006, 36, 1951-1962.	2.9	20
54	Regulation of urokinase plasminogen activator gene transcription in the RAW264 murine macrophage cell line by macrophage colony-stimulating factor (CSF-1) is dependent upon the level of cell-surface receptor. Biochemical Journal, 2000, 347, 313-320.	3.7	18

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55	The resistance of macrophage-like tumour cell lines to growth inhibition by lipopolysaccharide and pertussis toxin. British Journal of Haematology, 1993, 84, 392-401.	2.5	16
56	The immunostimulatory activity of phosphorothioate CpG oligonucleotides is affected by distal sequence changes. Molecular Immunology, 2011, 48, 1027-1034.	2.2	15
57	Induction of interferon and cell death in response to cytosolic DNA in chicken macrophages. Developmental and Comparative Immunology, 2016, 59, 145-152.	2.3	15
58	A visual framework for sequence analysis using n-grams and spectral rearrangement. Bioinformatics, 2010, 26, 737-744.	4.1	14
59	B cells do not take up bacterial DNA: an essential role for antigen in exposure of DNA to tollâ€like receptorâ€9. Immunology and Cell Biology, 2011, 89, 517-525.	2.3	14
60	<scp>IRF</scp> 1 and <scp>IRF</scp> 2 regulate the nonâ€canonical inflammasome. EMBO Reports, 2019, 20, e48891.	4.5	13
61	TLR9â€independent effects of inhibitory oligonucleotides on macrophage responses to S. typhimurium. Immunology and Cell Biology, 2009, 87, 218-225.	2.3	11
62	A clear link between endogenous retroviral LTR activity and Hodgkin's lymphoma. Cell Research, 2010, 20, 869-871.	12.0	11
63	Compromised <scp>NLRP</scp>3 and <scp>AIM</scp>2 inflammasome function in autoimmune <scp>NZB</scp>/W F1 mouse macrophages. Immunology and Cell Biology, 2019, 97, 17-28.	2.3	8
64	Correcting the NLRP3 inflammasome deficiency in macrophages from autoimmune NZB mice with exon skipping antisense oligonucleotides. Immunology and Cell Biology, 2016, 94, 520-524.	2.3	7
65	A Novel Pathway of Cell Death in Response to Cytosolic DNA in <i>Drosophila</i> Cells. Journal of Innate Immunity, 2015, 7, 212-222.	3.8	6
66	Methods for Delivering DNA to Intracellular Receptors. Methods in Molecular Biology, 2016, 1390, 93-106.	0.9	6
67	Plugging the Leak in Dengue Shock. Advances in Experimental Medicine and Biology, 2018, 1062, 89-106.	1.6	4
68	Regulation of urokinase plasminogen activator gene transcription in the RAW264 murine macrophage cell line by macrophage colony-stimulating factor (CSF-1) is dependent upon the level of cell-surface receptor. Biochemical Journal, 2000, 347, 313.	3.7	3
69	Response to comment on â€œDengue virus NS1 protein activates cells via Toll-like receptor 4 and disrupts endothelial cell monolayer integrityâ€•and â€œDengue virus NS1 triggers endothelial permeability and vascular leak that is prevented by NS1 vaccinationâ€• Science Translational Medicine, 2015, 7, 318lr4.	12.4	3
70	Response to Comment on â€œDeficient NLRP3 and AIM2 Inflammasome Function in Autoimmune NZB Miceâ€• Journal of Immunology, 2015, 195, 4552-4553.	0.8	3
71	Manipulation of epithelial cell death pathways by Shigella. EMBO Journal, 2020, 39, e106202.	7.8	1