

# Andrew G Bowie

## List of Publications by Citations

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110  
papers

15,899  
citations

53  
h-index

117  
g-index

117  
ext. papers

17,973  
ext. citations

11.6  
avg, IF

6.95  
L-index

#	Paper	IF	Citations
110	The family of five: TIR-domain-containing adaptors in Toll-like receptor signalling. <i>Nature Reviews Immunology</i> , <b>2007</b> , 7, 353-64	36.5	1947
109	IFI16 is an innate immune sensor for intracellular DNA. <i>Nature Immunology</i> , <b>2010</b> , 11, 997-1004	19.1	1127
108	The history of Toll-like receptors - redefining innate immunity. <i>Nature Reviews Immunology</i> , <b>2013</b> , 13, 453-60	36.5	1077
107	Mal (MyD88-adaptor-like) is required for Toll-like receptor-4 signal transduction. <i>Nature</i> , <b>2001</b> , 413, 78-83	30.4	980
106	Oxidative stress and nuclear factor-kappaB activation: a reassessment of the evidence in the light of recent discoveries. <i>Biochemical Pharmacology</i> , <b>2000</b> , 59, 13-23	6	799
105	Immune sensing of DNA. <i>Immunity</i> , <b>2013</b> , 38, 870-80	32.3	553
104	Viral evasion and subversion of pattern-recognition receptor signalling. <i>Nature Reviews Immunology</i> , <b>2008</b> , 8, 911-22	36.5	503
103	The Toll-IL-1 receptor adaptor family grows to five members. <i>Trends in Immunology</i> , <b>2003</b> , 24, 286-90	14.4	405
102	A46R and A52R from vaccinia virus are antagonists of host IL-1 and toll-like receptor signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 10162-7	11.5	385
101	The human adaptor SARM negatively regulates adaptor protein TRIF-dependent Toll-like receptor signaling. <i>Nature Immunology</i> , <b>2006</b> , 7, 1074-81	19.1	384
100	Structures of the HIN domain:DNA complexes reveal ligand binding and activation mechanisms of the AIM2 inflammasome and IFI16 receptor. <i>Immunity</i> , <b>2012</b> , 36, 561-71	32.3	352
99	The interleukin-1 receptor/Toll-like receptor superfamily: signal generators for pro-inflammatory interleukins and microbial products. <i>Journal of Leukocyte Biology</i> , <b>2000</b> , 67, 508-14	6.5	342
98	The Vaccine Adjuvant Chitosan Promotes Cellular Immunity via DNA Sensor cGAS-STING-Dependent Induction of Type I Interferons. <i>Immunity</i> , <b>2016</b> , 44, 597-608	32.3	307
97	The poxvirus protein A52R targets Toll-like receptor signaling complexes to suppress host defense. <i>Journal of Experimental Medicine</i> , <b>2003</b> , 197, 343-51	16.6	307
96	Vaccinia virus protein A46R targets multiple Toll-like-interleukin-1 receptor adaptors and contributes to virulence. <i>Journal of Experimental Medicine</i> , <b>2005</b> , 201, 1007-18	16.6	300
95	Viral targeting of DEAD box protein 3 reveals its role in TBK1/IKKepsilon-mediated IRF activation. <i>EMBO Journal</i> , <b>2008</b> , 27, 2147-57	13	271
94	Recognition of herpesviruses by the innate immune system. <i>Nature Reviews Immunology</i> , <b>2011</b> , 11, 143-54	36.5	242

93	Vitamin C inhibits NF-kappa B activation by TNF via the activation of p38 mitogen-activated protein kinase. <i>Journal of Immunology</i> , <b>2000</b> , 165, 7180-8	5.3	238
92	Non-canonical Activation of the DNA Sensing Adaptor STING by ATM and IFI16 Mediates NF- $\kappa$ B Signaling after Nuclear DNA Damage. <i>Molecular Cell</i> , <b>2018</b> , 71, 745-760.e5	17.6	214
91	The interleukin-1 receptor-associated kinases: critical regulators of innate immune signalling. <i>Biochemical Pharmacology</i> , <b>2010</b> , 80, 1981-91	6	197
90	The role of Toll-like receptors in the host response to viruses. <i>Molecular Immunology</i> , <b>2005</b> , 42, 859-67	4.3	197
89	Viral immune modulators perturb the human molecular network by common and unique strategies. <i>Nature</i> , <b>2012</b> , 487, 486-90	50.4	193
88	Poxvirus protein N1L targets the I-kappaB kinase complex, inhibits signaling to NF-kappaB by the tumor necrosis factor superfamily of receptors, and inhibits NF-kappaB and IRF3 signaling by toll-like receptors. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 36570-8	5.4	191
87	Innate immune detection of microbial nucleic acids. <i>Trends in Microbiology</i> , <b>2013</b> , 21, 413-20	12.4	184
86	IFI16 and cGAS cooperate in the activation of STING during DNA sensing in human keratinocytes. <i>Nature Communications</i> , <b>2017</b> , 8, 14392	17.4	180
85	TLR3 in antiviral immunity: key player or bystander?. <i>Trends in Immunology</i> , <b>2005</b> , 26, 462-8	14.4	179
84	Lipid peroxidation is involved in the activation of NF-kappaB by tumor necrosis factor but not interleukin-1 in the human endothelial cell line ECV304. Lack of involvement of H2O2 in NF-kappaB activation by either cytokine in both primary and transformed endothelial cells. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 25941-50	5.4	161
83	Innate immune recognition of DNA: A recent history. <i>Virology</i> , <b>2015</b> , 479-480, 146-52	3.6	157
82	IRAK-2 participates in multiple toll-like receptor signaling pathways to NFkappaB via activation of TRAF6 ubiquitination. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 33435-33443	5.4	154
81	Glycosylated low density lipoprotein is more sensitive to oxidation: implications for the diabetic patient?. <i>Atherosclerosis</i> , <b>1993</b> , 102, 63-7	3.1	153
80	Cytosolic DNA sensors regulating type I interferon induction. <i>Trends in Immunology</i> , <b>2011</b> , 32, 574-81	14.4	149
79	Sensing and signaling in antiviral innate immunity. <i>Current Biology</i> , <b>2010</b> , 20, R328-33	6.3	149
78	Proteasomal degradation of herpes simplex virus capsids in macrophages releases DNA to the cytosol for recognition by DNA sensors. <i>Journal of Immunology</i> , <b>2013</b> , 190, 2311-9	5.3	147
77	Activation of innate defense against a paramyxovirus is mediated by RIG-I and TLR7 and TLR8 in a cell-type-specific manner. <i>Journal of Virology</i> , <b>2005</b> , 79, 12944-51	6.6	146
76	Nucleotide-binding oligomerization domain-1 and epidermal growth factor receptor: critical regulators of beta-defensins during <i>Helicobacter pylori</i> infection. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 11637-48	5.4	134

75	Activation of host pattern recognition receptors by viruses. <i>Current Opinion in Microbiology</i> , <b>2010</b> , 13, 503-7	7.9	123
74	Ras, protein kinase C zeta, and I kappa B kinases 1 and 2 are downstream effectors of CD44 during the activation of NF-kappa B by hyaluronic acid fragments in T-24 carcinoma cells. <i>Journal of Immunology</i> , <b>2000</b> , 164, 2053-63	5.3	123
73	Evaluating the role of Toll-like receptors in diseases of the central nervous system. <i>Biochemical Pharmacology</i> , <b>2011</b> , 81, 825-37	6	115
72	Vaccinia virus protein C6 is a virulence factor that binds TBK-1 adaptor proteins and inhibits activation of IRF3 and IRF7. <i>PLoS Pathogens</i> , <b>2011</b> , 7, e1002247	7.6	108
71	Viral activation of macrophages through TLR-dependent and -independent pathways. <i>Journal of Immunology</i> , <b>2004</b> , 173, 6890-8	5.3	103
70	Viral inhibitory peptide of TLR4, a peptide derived from vaccinia protein A46, specifically inhibits TLR4 by directly targeting MyD88 adaptor-like and TRIF-related adaptor molecule. <i>Journal of Immunology</i> , <b>2010</b> , 185, 4261-71	5.3	100
69	The interplay between viruses and innate immune signaling: recent insights and therapeutic opportunities. <i>Biochemical Pharmacology</i> , <b>2008</b> , 75, 589-602	6	100
68	Neuronal Toll-like receptor 4 signaling induces brain endothelial activation and neutrophil transmigration in vitro. <i>Journal of Neuroinflammation</i> , <b>2012</b> , 9, 230	10.1	95
67	Malaria parasite DNA-harboring vesicles activate cytosolic immune sensors. <i>Nature Communications</i> , <b>2017</b> , 8, 1985	17.4	91
66	Polyinosinic acid is a ligand for toll-like receptor 3. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 24759-66	5.4	84
65	Poxvirus targeting of E3 ligase E3RCP by molecular mimicry: a mechanism to inhibit NF- $\kappa$ B activation and promote immune evasion and virulence. <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003183	7.6	77
64	Detection of Viral Infections by Innate Immunity. <i>Biochemical Pharmacology</i> , <b>2021</b> , 183, 114316	6	77
63	Poxvirus K7 protein adopts a Bcl-2 fold: biochemical mapping of its interactions with human DEAD box RNA helicase DDX3. <i>Journal of Molecular Biology</i> , <b>2009</b> , 385, 843-53	6.5	74
62	Transactivation by the p65 subunit of NF-kappaB in response to interleukin-1 (IL-1) involves MyD88, IL-1 receptor-associated kinase 1, TRAF-6, and Rac1. <i>Molecular and Cellular Biology</i> , <b>2001</b> , 21, 4544-52	4.8	74
61	TRAM is required for TLR2 endosomal signaling to type I IFN induction. <i>Journal of Immunology</i> , <b>2014</b> , 193, 6090-102	5.3	67
60	Cell Survival and Cytokine Release after Inflammasome Activation Is Regulated by the Toll-IL-1R Protein SARM. <i>Immunity</i> , <b>2019</b> , 50, 1412-1424.e6	32.3	60
59	Vaccinia virus protein A52R activates p38 mitogen-activated protein kinase and potentiates lipopolysaccharide-induced interleukin-10. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 30838-44	5.4	60
58	Schlafen-1 causes a cell cycle arrest by inhibiting induction of cyclin D1. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 30723-34	5.4	59

57	Innate antiviral signalling in the central nervous system. <i>Trends in Immunology</i> , <b>2014</b> , 35, 79-87	14.4	51
56	RIG-I: trying to discriminate between self and non-self RNA. <i>Trends in Immunology</i> , <b>2007</b> , 28, 147-50	14.4	49
55	The emerging role of human PYHIN proteins in innate immunity: implications for health and disease. <i>Biochemical Pharmacology</i> , <b>2014</b> , 92, 405-14	6	48
54	DNA sensors are expressed in astrocytes and microglia in vitro and are upregulated during gliosis in neurodegenerative disease. <i>Glia</i> , <b>2015</b> , 63, 812-25	9	38
53	Viral appropriation of apoptotic and NF-kappaB signaling pathways. <i>Journal of Cellular Biochemistry</i> , <b>2004</b> , 91, 1099-108	4.7	38
52	The endocannabinoid, anandamide, augments Notch-1 signaling in cultured cortical neurons exposed to amyloid- $\beta$ in the cortex of aged rats. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 34709-21	5.4	37
51	Poxviral protein A46 antagonizes Toll-like receptor 4 signaling by targeting BB loop motifs in Toll-IL-1 receptor adaptor proteins to disrupt receptor:adaptor interactions. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 22672-82	5.4	31
50	Translational mini-review series on Toll-like receptors: recent advances in understanding the role of Toll-like receptors in anti-viral immunity. <i>Clinical and Experimental Immunology</i> , <b>2007</b> , 147, 217-26	6.2	31
49	Innate immune activation of NFB and its antagonism by poxviruses. <i>Cytokine and Growth Factor Reviews</i> , <b>2014</b> , 25, 611-20	17.9	29
48	The STING in the tail for cytosolic DNA-dependent activation of IRF3. <i>Science Signaling</i> , <b>2012</b> , 5, pe9	8.8	29
47	A novel anti-viral role for STAT3 in IFN- $\beta$ signalling responses. <i>Cellular and Molecular Life Sciences</i> , <b>2017</b> , 74, 1755-1764	10.3	28
46	Poxvirus Protein MC132 from Molluscum Contagiosum Virus Inhibits NF-B Activation by Targeting p65 for Degradation. <i>Journal of Virology</i> , <b>2015</b> , 89, 8406-15	6.6	26
45	Human interleukin-1 receptor-associated kinase-2 is essential for Toll-like receptor-mediated transcriptional and post-transcriptional regulation of tumor necrosis factor alpha. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 23688-97	5.4	26
44	SARM1 deficiency promotes rod and cone photoreceptor cell survival in a model of retinal degeneration. <i>Life Science Alliance</i> , <b>2020</b> , 3,	5.8	26
43	The TLR signaling adaptor TRAM interacts with TRAF6 to mediate activation of the inflammatory response by TLR4. <i>Journal of Leukocyte Biology</i> , <b>2014</b> , 96, 427-36	6.5	25
42	Viral inhibition of IL-1- and neutrophil elastase-induced inflammatory responses in bronchial epithelial cells. <i>Journal of Immunology</i> , <b>2005</b> , 175, 7594-601	5.3	25
41	Molluscum Contagiosum Virus Protein MC005 Inhibits NF-B Activation by Targeting NEMO-Regulated IB Kinase Activation. <i>Journal of Virology</i> , <b>2017</b> , 91,	6.6	21
40	SARM: From immune regulator to cell executioner. <i>Biochemical Pharmacology</i> , <b>2019</b> , 161, 52-62	6	21

39	Innate DNA sensing moves to the nucleus. <i>Cell Host and Microbe</i> , <b>2011</b> , 9, 351-3	23.4	20
38	Toll-like receptor 2-dependent endosomal signaling by in monocytes induces type I interferon and promotes intracellular survival. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 17031-17042	5.4	19
37	A frequent hypofunctional IRAK2 variant is associated with reduced spontaneous hepatitis C virus clearance. <i>Hepatology</i> , <b>2015</b> , 62, 1375-87	11.2	19
36	The powerstroke and camshaft of the RIG-I antiviral RNA detection machine. <i>Cell</i> , <b>2011</b> , 147, 259-61	56.2	19
35	A coding IRAK2 protein variant compromises Toll-like receptor (TLR) signaling and is associated with colorectal cancer survival. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 23123-23131	5.4	18
34	SARM regulates CCL5 production in macrophages by promoting the recruitment of transcription factors and RNA polymerase II to the Ccl5 promoter. <i>Journal of Immunology</i> , <b>2014</b> , 192, 4821-32	5.3	16
33	Low pH and Helicobacter pylori increase nuclear factor kappa B binding in gastric epithelial cells: a common pathway for epithelial cell injury?. <i>Journal of Cellular Biochemistry</i> , <b>2005</b> , 96, 589-98	4.7	15
32	Poxviral protein A52 stimulates p38 mitogen-activated protein kinase (MAPK) activation by causing tumor necrosis factor receptor-associated factor 6 (TRAF6) self-association leading to transforming growth factor $\beta$ -activated kinase 1 (TAK1) recruitment. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 33642-33653	5.4	14
31	Role of non-degradative ubiquitination in interleukin-1 and toll-like receptor signaling. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 8211-5	5.4	14
30	Modulation of innate immune signalling pathways by viral proteins. <i>Advances in Experimental Medicine and Biology</i> , <b>2009</b> , 666, 49-63	3.6	14
29	Alum Activates the Bovine NLRP3 Inflammasome. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 1494	8.4	13
28	Poxviral protein E3-altered cytokine production reveals that DEXD/H-box helicase 9 controls Toll-like receptor-stimulated immune responses. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 14989-15001	5.4	12
27	Unexpected roles for DEAD-box protein 3 in viral RNA sensing pathways. <i>European Journal of Immunology</i> , <b>2010</b> , 40, 933-5	6.1	12
26	Vitamin C inhibits NF kappa B activation in endothelial cells. <i>Biochemical Society Transactions</i> , <b>1997</b> , 25, 131S	5.1	10
25	Dual NADPH oxidases DUOX1 and DUOX2 synthesize NAADP and are necessary for Ca signaling during T cell activation. <i>Science Signaling</i> , <b>2021</b> , 14, eabe3800	8.8	10
24	PYHIN1 regulates pro-inflammatory cytokine induction rather than innate immune DNA sensing in airway epithelial cells. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 4438-4450	5.4	8
23	Rad50 and CARD9, missing links in cytosolic DNA-stimulated inflammation. <i>Nature Immunology</i> , <b>2014</b> , 15, 534-6	19.1	8
22	Insights from vaccinia virus into Toll-like receptor signalling proteins and their regulation by ubiquitin: role of IRAK-2. <i>Biochemical Society Transactions</i> , <b>2008</b> , 36, 449-52	5.1	8

21	Mechanism of NF kappa B activation by interleukin-1 and tumour necrosis factor in endothelial cells. <i>Biochemical Society Transactions</i> , <b>1996</b> , 24, 2S	5.1	8
20	TRAF3: uncovering the real but restricted role in human. <i>Immunity</i> , <b>2010</b> , 33, 293-5	32.3	5
19	Studies into the mechanism of NF kappa B activation by IL1, TNF and H2O2 in primary and transformed endothelial cells. <i>Biochemical Society Transactions</i> , <b>1997</b> , 25, 125S	5.1	3
18	The effects of thiol modifiers on the activation of NF kappa B by interleukin-1. <i>Biochemical Society Transactions</i> , <b>1993</b> , 21, 390S	5.1	3
17	Myeloid cell nuclear differentiation antigen controls the pathogen-stimulated type I interferon cascade in human monocytes by transcriptional regulation of IRF7.. <i>Nature Communications</i> , <b>2022</b> , 13, 14	17.4	3
16	CRISPR/Cas9-mediated SARM1 knockout and epitope-tagged mice reveal that SARM1 does not regulate nuclear transcription, but is expressed in macrophages. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 297, 101417	5.4	3
15	Self-RNA sentinels signal viral invasion. <i>Nature Immunology</i> , <b>2018</b> , 19, 4-5	19.1	2
14	The human endothelial cell line ECY304 as a model of endothelial cell activation by interleukin-1. <i>Biochemical Society Transactions</i> , <b>1995</b> , 23, 109S	5.1	2
13	SARM1 Ablation Is Protective and Preserves Spatial Vision in an In Vivo Mouse Model of Retinal Ganglion Cell Degeneration.. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23,	6.3	2
12	Malaria parasites both repress host CXCL10 and use it as a cue for growth acceleration. <i>Nature Communications</i> , <b>2021</b> , 12, 4851	17.4	2
11	Removing the TREX1 safety net: oxidized DNA overcomes immune silencing by exonuclease TREX1. <i>Immunity</i> , <b>2013</b> , 39, 423-5	32.3	1
10	Innate immune signaling pathways: lessons from vaccinia virus. <i>Future Virology</i> , <b>2008</b> , 3, 147-156	2.4	1
9	Toll-like receptors as key sensors of viral infection <b>2006</b> , 143-171		1
8	Characterisation of viral proteins that inhibit Toll-like receptor signal transduction. <i>Methods in Molecular Biology</i> , <b>2009</b> , 517, 217-35	1.4	1
7	Immunometabolism pathways as the basis for innovative anti-viral strategies (INITIATE): A Marie Skłodowska-Curie innovative training network. <i>Virus Research</i> , <b>2020</b> , 287, 198094	6.4	0
6	SARM1 Promotes Photoreceptor Degeneration in an Oxidative Stress Model of Retinal Degeneration.. <i>Frontiers in Neuroscience</i> , <b>2022</b> , 16, 852114	5.1	0
5	Harnessing poxviral know-how for anti-cytokine therapies. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 5228-5229	5.4	
4	Viral Infections and the DNA Sensing Pathway: Lessons from Herpesviruses and Beyond <b>2014</b> , 171-203		

3 Toll-like receptor 3. *Progress in Respiratory Research*, **2010**, 73-79

2 Role of Toll-Like Receptors in the Innate Immune Response to RNA Viruses7-27

1 Uncovering novel gene function in Toll-like receptor signalling using siRNA. *Methods in Molecular Biology*, **2009**, 517, 277-95

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