Avril A B Robertson

List of Publications by Year in descending order

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87 papers 11,493 citations

87723 38 h-index 85 g-index

92 all docs 92 docs citations 92 times ranked 16443 citing authors

#	Article	lF	Citations
1	Interleukin- $\hat{\Pi}^2$ suppression dampens inflammatory leucocyte production and uptake in atherosclerosis. Cardiovascular Research, 2022, 118, 2778-2791.	1.8	47
2	Relationship between type 2 cytokine and inflammasome responses in obesity-associated asthma. Journal of Allergy and Clinical Immunology, 2022, 149, 1270-1280.	1.5	21
3	Aim2 suppresses cigarette smokeâ€induced neutrophil recruitment, neutrophil caspaseâ€1 activation and antiâ€Ly6Gâ€mediated neutrophil depletion. Immunology and Cell Biology, 2022, 100, 235-249.	1.0	7
4	Prevention of the foreign body response to implantable medical devices by inflammasome inhibition. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2115857119.	3.3	27
5	<i>Clostridium septicum</i> \hat{l} ±-toxin activates the NLRP3 inflammasome by engaging GPl-anchored proteins. Science Immunology, 2022, 7, .	5.6	12
6	Modulating Neuroplasticity: Lessons Learned from Antidepressants and Emerging Novel Therapeutics. Current Treatment Options in Psychiatry, 2021, 8, 229-257.	0.7	1
7	NLRP3 Inflammasome Inhibition by MCC950 in Aged Mice Improves Health via Enhanced Autophagy and PPARα Activity. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 1457-1464.	1.7	33
8	The microglial NLRP3 inflammasome is activated by amyotrophic lateral sclerosis proteins. Glia, 2020, 68, 407-421.	2.5	133
9	NLRP3 inflammasome inhibition with MCC950 improves insulin sensitivity and inflammation in a mouse model of frontotemporal dementia. Neuropharmacology, 2020, 180, 108305.	2.0	19
10	Pharmacological characterisation of small molecule C5aR1 inhibitors in human cells reveals biased activities for signalling and function. Biochemical Pharmacology, 2020, 180, 114156.	2.0	47
11	Metabolic competition between host and pathogen dictates inflammasome responses to fungal infection. PLoS Pathogens, 2020, 16, e1008695.	2.1	28
12	Tissueâ€resident macrophages actively suppress ILâ€1 beta release via a reactive prostanoid/ILâ€10 pathway. EMBO Journal, 2020, 39, e103454.	3.5	33
13	Targeting NLRP3 and Staphylococcal pore-forming toxin receptors in human-induced pluripotent stem cell-derived macrophages. Journal of Leukocyte Biology, 2020, 108, 967-981.	1.5	19
14	Design, synthesis and evaluation of an NLRP3 inhibitor diazirine photoaffinity probe. Tetrahedron Letters, 2020, 61, 151849.	0.7	7
15	Bacillus cereus non-haemolytic enterotoxin activates the NLRP3 inflammasome. Nature Communications, 2020, 11, 760.	5.8	51
16	Non-canonical Caspase-1 Signaling Drives RIP2-Dependent and TNF-α-Mediated Inflammation InÂVivo. Cell Reports, 2020, 30, 2501-2511.e5.	2.9	24
17	Caspase-1-dependent inflammasomes mediate photoreceptor cell death in photo-oxidative damage-induced retinal degeneration. Scientific Reports, 2020, 10, 2263.	1.6	28
18	Synthesis and evaluation of NLRP3-inhibitory sulfonylurea [11C]MCC950 in healthy animals. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127186.	1.0	14

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19	NLRP3 inflammasome as prognostic factor and therapeutic target in primary progressive multiple sclerosis patients. Brain, 2020, 143, 1414-1430.	3.7	92
20	Targeting the NLRP3 Inflammasome With Inhibitor MCC950 Prevents Aortic Aneurysms and Dissections in Mice. Journal of the American Heart Association, 2020, 9, e014044.	1.6	64
21	Compromised <scp>NLRP</scp> 3 and <scp>AlM</scp> 2 inflammasome function in autoimmune <scp>NZB</scp> /W F1 mouse macrophages. Immunology and Cell Biology, 2019, 97, 17-28.	1.0	8
22	Double-Stranded RNA Is a Novel Molecular Target in Osteomyelitis Pathogenesis. American Journal of Pathology, 2019, 189, 2077-2089.	1.9	23
23	Inflammasome-Independent Role for NLRP3 in Controlling Innate Antihelminth Immunity and Tissue Repair in the Lung. Journal of Immunology, 2019, 203, 2724-2734.	0.4	20
24	MCC950 directly targets the NLRP3 ATP-hydrolysis motif for inflammasome inhibition. Nature Chemical Biology, 2019, 15, 556-559.	3.9	561
25	Lack of protein prenylation promotes NLRP3 inflammasome assembly in human monocytes. Journal of Allergy and Clinical Immunology, 2019, 143, 2315-2317.e3.	1.5	15
26	Pharmacological inhibition of the NLRP3 inflammasome reduces blood pressure, renal damage, and dysfunction in salt-sensitive hypertension. Cardiovascular Research, 2019, 115, 776-787.	1.8	165
27	A multicomponent toxin from Bacillus cereus incites inflammation and shapes host outcome via the NLRP3 inflammasome. Nature Microbiology, 2019, 4, 362-374.	5.9	78
28	Quantitation of Purines from Pigeon Guano and Implications for Cryptococcus neoformans Survival During Infection. Mycopathologia, 2019, 184, 273-281.	1.3	6
29	Evidence against a role for NLRP3-driven islet inflammation in db/db mice. Molecular Metabolism, 2018, 10, 66-73.	3.0	32
30	Fishing for Drug Targets: A Focus on Diazirine Photoaffinity Probe Synthesis. Journal of Medicinal Chemistry, 2018, 61, 6945-6963.	2.9	113
31	The NLRP3 Inflammasome Suppresses Protective Immunity to Gastrointestinal Helminth Infection. Cell Reports, 2018, 23, 1085-1098.	2.9	48
32	Multiple inflammasomes may regulate the interleukin-1-driven inflammation in protracted bacterial bronchitis. ERJ Open Research, 2018, 4, 00130-2017.	1,1	14
33	Synthesis of deuterium-labelled analogues of NLRP3 inflammasome inhibitor MCC950. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 793-795.	1.0	7
34	An optimized whole blood assay measuring expression and activity of NLRP3, NLRC4 and AIM2 inflammasomes. Clinical Immunology, 2018, 191, 100-109.	1.4	13
35	Antimicrobial Octapeptin C4 Analogues Active against Cryptococcus Species. Antimicrobial Agents and Chemotherapy, 2018, 62, .	1.4	5
36	Characterisation of small molecule ligands 4CMTB and 2CTAP as modulators of human FFA2 receptor signalling. Scientific Reports, 2018, 8, 17819.	1.6	6

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37	Chick Embryo: A Preclinical Model for Understanding Ischemia-Reperfusion Mechanism. Frontiers in Pharmacology, 2018, 9, 1034.	1.6	11
38	The Small Molecule NLRP3 Inflammasome Inhibitor MCC950 Does Not Alter Wound Healing in Obese Mice. International Journal of Molecular Sciences, 2018, 19, 3289.	1.8	8
39	Inflammasome inhibition prevents $\hat{I}\pm$ -synuclein pathology and dopaminergic neurodegeneration in mice. Science Translational Medicine, 2018, 10, .	5.8	493
40	Antifungal benzo[b]thiophene 1,1-dioxide IMPDH inhibitors exhibit pan-assay interference (PAINS) profiles. Bioorganic and Medicinal Chemistry, 2018, 26, 5408-5419.	1.4	15
41	Inhibiting Inflammasomes with Small Molecules. Experientia Supplementum (2012), 2018, 108, 343-400.	0.5	2
42	MCC950, a specific small molecule inhibitor of NLRP3 inflammasome attenuates colonic inflammation in spontaneous colitis mice. Scientific Reports, 2018, 8, 8618.	1.6	208
43	The selective NLRP3-inflammasome inhibitor MCC950 reduces infarct size and preserves cardiac function in a pig model of myocardial infarction. European Heart Journal, 2017, 38, ehw247.	1.0	222
44	Clonal hematopoiesis associated with TET2 deficiency accelerates atherosclerosis development in mice. Science, 2017, 355, 842-847.	6.0	999
45	Small-Molecule Inhibitors of the SOX18 Transcription Factor. Cell Chemical Biology, 2017, 24, 346-359.	2.5	42
46	GMP Synthase Is Required for Virulence Factor Production and Infection by Cryptococcus neoformans. Journal of Biological Chemistry, 2017, 292, 3049-3059.	1.6	19
47	Inflammasomes in the lung. Molecular Immunology, 2017, 86, 44-55.	1.0	126
48	NLRP3 inflammasome blockade reduces liver inflammation and fibrosis in experimental NASH in mice. Journal of Hepatology, 2017, 66, 1037-1046.	1.8	738
49	Role for NLRP3 Inflammasome–mediated, IL-1β–Dependent Responses in Severe, Steroid-Resistant Asthma. American Journal of Respiratory and Critical Care Medicine, 2017, 196, 283-297.	2.5	304
50	Myeloid-derived miR-223 regulates intestinal inflammation via repression of the NLRP3 inflammasome. Journal of Experimental Medicine, 2017, 214, 1737-1752.	4.2	289
51	Cryptococcus neoformans ADS lyase is an enzyme essential for virulence whose crystal structure reveals features exploitable in antifungal drug design. Journal of Biological Chemistry, 2017, 292, 11829-11839.	1.6	15
52	Inhibiting the NLRP3 inflammasome with MCC950 promotes non-phlogistic clearance of amyloid- \hat{l}^2 and cognitive function in APP/PS1 mice. Brain, Behavior, and Immunity, 2017, 61, 306-316.	2.0	371
53	PB1-F2 Peptide Derived from Avian Influenza A Virus H7N9 Induces Inflammation via Activation of the NLRP3 Inflammasome. Journal of Biological Chemistry, 2017, 292, 826-836.	1.6	70
54	Specific inhibition of NLRP3 in chikungunya disease reveals a role for inflammasomes in alphavirus-induced inflammation. Nature Microbiology, 2017, 2, 1435-1445.	5.9	77

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55	Sulfonylureas as Concomitant Insulin Secretagogues and NLRP3 Inflammasome Inhibitors. ChemMedChem, 2017, 12, 1449-1457.	1.6	42
56	NLRP3-inflammasome inhibition prevents high fat and high sugar diets-induced heart damage through autophagy induction. Oncotarget, 2017, 8, 99740-99756.	0.8	53
57	Pressor response to angiotensin II is enhanced in aged mice and associated with inflammation, vasoconstriction and oxidative stress. Aging, 2017, 9, 1595-1606.	1.4	49
58	Pharmacological targeting of the transcription factor SOX18 delays breast cancer in mice. ELife, 2017, 6, .	2.8	50
59	Lipocalin-2 induces NLRP3 inflammasome activation via HMGB1 induced TLR4 signaling in heart tissue of mice under pressure overload challenge. American Journal of Translational Research (discontinued), 2017, 9, 2723-2735.	0.0	21
60	The Endoplasmic Reticulum-Mitochondrion Tether ERMES Orchestrates Fungal Immune Evasion, Illuminating Inflammasome Responses to Hyphal Signals. MSphere, 2016, 1, .	1.3	39
61	The NLRP3 inflammasome functions as a driver of the myelodysplastic syndrome phenotype. Blood, 2016, 128, 2960-2975.	0.6	271
62	Human Monocytes Engage an Alternative Inflammasome Pathway. Immunity, 2016, 44, 833-846.	6.6	619
63	K + Efflux-Independent NLRP3 Inflammasome Activation by Small Molecules Targeting Mitochondria. Immunity, 2016, 45, 761-773.	6.6	364
64	Identification, Synthesis, and Biological Evaluation of the Major Human Metabolite of NLRP3 Inflammasome Inhibitor MCC950. ACS Medicinal Chemistry Letters, 2016, 7, 1034-1038.	1.3	32
65	Inflammasome activity is essential for one kidney/deoxycorticosterone acetate/saltâ€induced hypertension in mice. British Journal of Pharmacology, 2016, 173, 752-765.	2.7	143
66	Disruption of de Novo Adenosine Triphosphate (ATP) Biosynthesis Abolishes Virulence in <i>Cryptococcus neoformans </i> ACS Infectious Diseases, 2016, 2, 651-663.	1.8	16
67	Reassessing the role of the NLRP3 inflammasome during pathogenic influenza A virus infection via temporal inhibition. Scientific Reports, 2016, 6, 27912.	1.6	150
68	IL- $1\hat{l}^2$ is an innate immune sensor of microbial proteolysis. Science Immunology, 2016, 1, .	5.6	115
69	T helper 1 immunity requires complement-driven NLRP3 inflammasome activity in CD4 ⁺ T cells. Science, 2016, 352, aad1210.	6.0	395
70	Strain- and host species-specific inflammasome activation, IL- $1\hat{l}^2$ release, and cell death in macrophages infected with uropathogenic Escherichia coli. Mucosal Immunology, 2016, 9, 124-136.	2.7	74
71	NLRP3 inflammasome activation downstream of cytoplasmic LPS recognition by both caspaseâ€4 and caspaseâ€5. European Journal of Immunology, 2015, 45, 2918-2926.	1.6	283
72	THU0027â€The Effect of Novel Compound Mcc950 on the Nlrp3 Inflammasome in the RA Joint. Annals of the Rheumatic Diseases, 2015, 74, 202.2-202.	0.5	2

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73	An optimized whole blood assay measuring expression and activity of NLRP3-, NLRC4 and AIM2-inflammasomes. Pediatric Rheumatology, 2015, 13, .	0.9	О
74	A small-molecule inhibitor of the NLRP3 inflammasome for the treatment of inflammatory diseases. Nature Medicine, 2015, 21, 248-255.	15.2	1,967
75	A6.18â€Novel compound cytokine release inhibitory drug 3 (CRID3) inhibits the NLRP3 inflammasome in rheumatoid arthritis. Annals of the Rheumatic Diseases, 2015, 74, A62.2-A63.	0.5	O
76	Cytokine release inhibitor drug, CRID3, inhibits the NLRP3 inflammasome in glia. Journal of Neuroimmunology, 2014, 275, 147.	1.1	0
77	Natural product and natural product derived drugs in clinical trials. Natural Product Reports, 2014, 31, 1612-1661.	5.2	471
78	Interleukin-10 regulates the inflammasome-driven augmentation of inflammatory arthritis and joint destruction. Arthritis Research and Therapy, 2014, 16, 419.	1.6	86
79	Efficient synthesis of anacardic acid analogues and their antibacterial activities. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 1667-1670.	1.0	23
80	Paclitaxel and CYC3, an aurora kinase A inhibitor, synergise in pancreatic cancer cells but not bone marrow precursor cells. British Journal of Cancer, 2012, 107, 1692-1701.	2.9	32
81	The Cytokine Release Inhibitory Drug CRID3 Targets ASC Oligomerisation in the NLRP3 and AIM2 Inflammasomes. PLoS ONE, 2011, 6, e29539.	1.1	117
82	The synthesis of isotopically labelled glucosinolates for analysis and metabolic studies. Journal of Labelled Compounds and Radiopharmaceuticals, 2007, 50, 260-263.	0.5	6
83	The synthesis of glucosinolates deuterium labelled in the glucose fragment. Journal of Labelled Compounds and Radiopharmaceuticals, 2006, 49, 1201-1211.	0.5	9
84	The Bohlmann–Rahtz route to functionalised pyridine scaffolds and their use in library synthesis. Tetrahedron Letters, 2003, 44, 1627-1629.	0.7	35
85	High-performance liquid chromatographic separation of natural and synthetic desulphoglucosinolates and their chemical validation by UV, NMR and chemical ionisation-MS methods. Phytochemical Analysis, 2001, 12, 226-242.	1.2	142
86	Evaluation of liquid chromatography-atmospheric pressure chemical ionisation-mass spectrometry for the identification and quantification of desulphoglucosinolates. Phytochemical Analysis, 2000, 11, 216-225.	1.2	32
87	Synthesis of deuterium labelled desulfoglucosinolates as internal standards for LC-MS analysis. Tetrahedron, 1999, 55, 13269-13284.	1.0	21