

Rebecca C Coll

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

6,278
citations

331670

21
h-index

477307

29
g-index

38
all docs

38
docs citations

38
times ranked

10048
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Activation of the NLRP3 inflammasome by islet amyloid polypeptide provides a mechanism for enhanced IL-1 β in type 2 diabetes. <i>Nature Immunology</i> , 2010, 11, 897-904.	14.5	1,149
3	MCC950 directly targets the NLRP3 ATP-hydrolysis motif for inflammasome inhibition. <i>Nature Chemical Biology</i> , 2019, 15, 556-559.	8.0	561
4	Caspase-1 self-cleavage is an intrinsic mechanism to terminate inflammasome activity. <i>Journal of Experimental Medicine</i> , 2018, 215, 827-840.	8.5	396
5	T helper 1 immunity requires complement-driven NLRP3 inflammasome activity in CD4 ⁺ T cells. <i>Science</i> , 2016, 352, aad1210.	12.6	395
6	The NLRP3 inflammasome functions as a driver of the myelodysplastic syndrome phenotype. <i>Blood</i> , 2016, 128, 2960-2975.	1.4	271
7	Monounsaturated Fatty Acid-Enriched High-Fat Diets Impede Adipose NLRP3 Inflammasome-Mediated IL-1 β Secretion and Insulin Resistance Despite Obesity. <i>Diabetes</i> , 2015, 64, 2116-2128.	0.6	229
8	NLRP3 and pyroptosis blockers for treating inflammatory diseases. <i>Trends in Pharmacological Sciences</i> , 2022, 43, 653-668.	8.7	193
9	Modulatory mechanisms controlling the NLRP3 inflammasome in inflammation: recent developments. <i>Current Opinion in Immunology</i> , 2013, 25, 40-45.	5.5	187
10	The intracellular chloride channel proteins CLIC1 and CLIC4 induce IL-1 β transcription and activate the NLRP3 inflammasome. <i>Journal of Biological Chemistry</i> , 2017, 292, 12077-12087.	3.4	122
11	New Insights into the Regulation of Signalling by Toll-Like Receptors and Nod-Like Receptors. <i>Journal of Innate Immunity</i> , 2010, 2, 406-421.	3.8	121
12	NLRP3 inflammasome priming: A riddle wrapped in a mystery inside an enigma. <i>Journal of Leukocyte Biology</i> , 2020, 108, 937-952.	3.3	118
13	The Cytokine Release Inhibitory Drug CRID3 Targets ASC Oligomerisation in the NLRP3 and AIM2 Inflammasomes. <i>PLoS ONE</i> , 2011, 6, e29539.	2.5	117
14	Interleukin-10 regulates the inflammasome-driven augmentation of inflammatory arthritis and joint destruction. <i>Arthritis Research and Therapy</i> , 2014, 16, 419.	3.5	86
15	Glutathione transferase Omega 1 is required for the lipopolysaccharide-stimulated induction of NADPH oxidase 1 and the production of reactive oxygen species in macrophages. <i>Free Radical Biology and Medicine</i> , 2014, 73, 318-327.	2.9	62
16	GSTO1-1 modulates metabolism in macrophages activated through the LPS and TLR4 pathway. <i>Journal of Cell Science</i> , 2015, 128, 1982-1990.	2.0	55
17	Questions and controversies in innate immune research: what is the physiological role of NLRP3?. <i>Cell Death Discovery</i> , 2016, 2, 16019.	4.7	48
18	Sterile signals generate weaker and delayed macrophage NLRP3 inflammasome responses relative to microbial signals. <i>Cellular and Molecular Immunology</i> , 2017, 14, 118-126.	10.5	42

#	ARTICLE	IF	CITATIONS
19	Sulfonylureas as Concomitant Insulin Secretagogues and NLRP3 Inflammasome Inhibitors. <i>ChemMedChem</i> , 2017, 12, 1449-1457.	3.2	42
20	Solution structure of the TLR adaptor MAL/TIRAP reveals an intact BB loop and supports MAL Cys91 glutathionylation for signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6480-E6489.	7.1	33
21	Evidence against a role for NLRP3-driven islet inflammation in db/db mice. <i>Molecular Metabolism</i> , 2018, 10, 66-73.	6.5	32
22	Mitochondrial DNA synthesis fuels NLRP3 inflammasome. <i>Cell Research</i> , 2018, 28, 1046-1047.	12.0	20
23	PHOrming the inflammasome: phosphorylation is a critical switch in inflammasome signalling. <i>Biochemical Society Transactions</i> , 2021, 49, 2495-2507.	3.4	8
24	Design, synthesis and evaluation of an NLRP3 inhibitor diazirine photoaffinity probe. <i>Tetrahedron Letters</i> , 2020, 61, 151849.	1.4	7
25	Role reversal: adaptive immunity instructs inflammasome activation for anti-viral defence. <i>EMBO Journal</i> , 2019, 38, e103533.	7.8	5
26	Caging NLRP3 tames inflammasome activity. <i>Cell</i> , 2021, 184, 6224-6226.	28.9	5
27	Activation of the Non-canonical Inflammasome in Mouse and Human Cells. <i>Methods in Molecular Biology</i> , 2022, 2459, 51-63.	0.9	3
28	NLR3 Restrains Responses to a T. Immunity, 2018, 49, 989-991.	14.3	1
29	102. <i>Cytokine</i> , 2013, 63, 267.	3.2	0
30	Cytokine release inhibitor drug, CRID3, inhibits the NLRP3 inflammasome in glia. <i>Journal of Neuroimmunology</i> , 2014, 275, 147.	2.3	0
31	A6.18...Novel compound cytokine release inhibitory drug 3 (CRID3) inhibits the NLRP3 inflammasome in rheumatoid arthritis. <i>Annals of the Rheumatic Diseases</i> , 2015, 74, A62.2-A63.	0.9	0
32	1020 - NEW INSIGHTS INTO INFLAMMASOME SIGNALLING AND FUNCTION DURING INFLAMMATION. <i>Experimental Hematology</i> , 2019, 76, S32.	0.4	0