

Associa€Prof Kate Schroder

List of Publications by Year in descending order

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Version: 2024-02-01

125
papers

27,178
citations

20817

60
h-index

16650

123
g-index

131
all docs

131
docs citations

131
times ranked

39254
citing authors

#	ARTICLE	IF	CITATIONS
1	The Inflammasomes. <i>Cell</i> , 2010, 140, 821-832.	28.9	4,781
2	Interferon- β : an overview of signals, mechanisms and functions. <i>Journal of Leukocyte Biology</i> , 2004, 75, 163-189.	3.3	3,315
3	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
4	NLRP3 inflammasome activation: the convergence of multiple signalling pathways on ROS production?. <i>Nature Reviews Immunology</i> , 2010, 10, 210-215.	22.7	1,495
5	The NLRP3 Inflammasome: A Sensor for Metabolic Danger?. <i>Science</i> , 2010, 327, 296-300.	12.6	956
6	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
7	The regulated retrotransposon transcriptome of mammalian cells. <i>Nature Genetics</i> , 2009, 41, 563-571.	21.4	731
8	Osteal Tissue Macrophages Are Intercalated throughout Human and Mouse Bone Lining Tissues and Regulate Osteoblast Function In Vitro and In Vivo. <i>Journal of Immunology</i> , 2008, 181, 1232-1244.	0.8	597
9	MCC950 directly targets the NLRP3 ATP-hydrolysis motif for inflammasome inhibition. <i>Nature Chemical Biology</i> , 2019, 15, 556-559.	8.0	561
10	Inflammasome inhibition prevents α -synuclein pathology and dopaminergic neurodegeneration in mice. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	493
11	Noncanonical inflammasome signaling elicits gasdermin D α -dependent neutrophil extracellular traps. <i>Science Immunology</i> , 2018, 3, .	11.9	425
12	The transcriptional network that controls growth arrest and differentiation in a human myeloid leukemia cell line. <i>Nature Genetics</i> , 2009, 41, 553-562.	21.4	408
13	AIM2 and NLRP3 inflammasomes activate both apoptotic and pyroptotic death pathways via ASC. <i>Cell Death and Differentiation</i> , 2013, 20, 1149-1160.	11.2	402
14	Expression analysis of G Protein-Coupled Receptors in mouse macrophages. <i>Immunome Research</i> , 2008, 4, 5.	0.1	400
15	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
16	The Macrophage-Inducible C-Type Lectin, Mincle, Is an Essential Component of the Innate Immune Response to <i>Candida albicans</i> . <i>Journal of Immunology</i> , 2008, 180, 7404-7413.	0.8	393
17	K ⁺ Efflux-Independent NLRP3 Inflammasome Activation by Small Molecules Targeting Mitochondria. <i>Immunity</i> , 2016, 45, 761-773.	14.3	364
18	The Neutrophil NLRC4 Inflammasome Selectively Promotes IL-1 β Maturation without Pyroptosis during Acute Salmonella Challenge. <i>Cell Reports</i> , 2014, 8, 570-582.	6.4	341

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19	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
20	Conservation and divergence in Toll-like receptor 4-regulated gene expression in primary human versus mouse macrophages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E944-53.	7.1	332
21	Tiny RNAs associated with transcription start sites in animals. <i>Nature Genetics</i> , 2009, 41, 572-578.	21.4	327
22	DAI/ZBP1 recruits RIP1 and RIP3 through RIP homotypic interaction motifs to activate NF- κ B. <i>EMBO Reports</i> , 2009, 10, 916-922.	4.5	290
23	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
24	Activity of Recombinant Dengue 2 Virus NS3 Protease in the Presence of a Truncated NS2B Co-factor, Small Peptide Substrates, and Inhibitors. <i>Journal of Biological Chemistry</i> , 2001, 276, 45762-45771.	3.4	276
25	Differential Expression of NLRP3 among Hematopoietic Cells. <i>Journal of Immunology</i> , 2011, 186, 2529-2534.	0.8	276
26	Signal integration between IFN- β and TLR signalling pathways in macrophages. <i>Immunobiology</i> , 2006, 211, 511-524.	1.9	265
27	TRIM-mediated precision autophagy targets cytoplasmic regulators of innate immunity. <i>Journal of Cell Biology</i> , 2015, 210, 973-989.	5.2	248
28	Familial autoinflammation with neutrophilic dermatosis reveals a regulatory mechanism of pyrin activation. <i>Science Translational Medicine</i> , 2016, 8, 332ra45.	12.4	241
29	Inflammasome signaling and regulation of interleukin-1 family cytokines. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	237
30	Interleukin-1 β Maturation Triggers Its Relocation to the Plasma Membrane for Gasdermin-D-Dependent and -Independent Secretion. <i>Cell Reports</i> , 2018, 24, 1425-1433.	6.4	215
31	LPS regulates proinflammatory gene expression in macrophages by altering histone deacetylase expression. <i>FASEB Journal</i> , 2006, 20, 1315-1327.	0.5	210
32	MCC950, a specific small molecule inhibitor of NLRP3 inflammasome attenuates colonic inflammation in spontaneous colitis mice. <i>Scientific Reports</i> , 2018, 8, 8618.	3.3	208
33	NLRP3 and pyroptosis blockers for treating inflammatory diseases. <i>Trends in Pharmacological Sciences</i> , 2022, 43, 653-668.	8.7	193
34	The mammalian PYHIN gene family: Phylogeny, evolution and expression. <i>BMC Evolutionary Biology</i> , 2012, 12, 140.	3.2	168
35	Differential effects of selective HDAC inhibitors on macrophage inflammatory responses to the Toll-like receptor 4 agonist LPS. <i>Journal of Leukocyte Biology</i> , 2010, 87, 1103-1114.	3.3	163
36	Histone deacetylase inhibitors decrease Toll-like receptor-mediated activation of proinflammatory gene expression by impairing transcription factor recruitment. <i>Immunology</i> , 2007, 122, 596-606.	4.4	155

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37	Pattern recognition receptor function in neutrophils. <i>Trends in Immunology</i> , 2013, 34, 317-328.	6.8	155
38	Neutrophil-Derived S100A8/A9 Amplify Granulopoiesis After Myocardial Infarction. <i>Circulation</i> , 2020, 141, 1080-1094.	1.6	155
39	Probing the S100 protein family through genomic and functional analysis. <i>Genomics</i> , 2004, 84, 10-22.	2.9	153
40	Acute lipopolysaccharide priming boosts inflammasome activation independently of inflammasome sensor induction. <i>Immunobiology</i> , 2012, 217, 1325-1329.	1.9	140
41	The microglial NLRP3 inflammasome is activated by amyotrophic lateral sclerosis proteins. <i>Glia</i> , 2020, 68, 407-421.	4.9	133
42	Innate Immunity: Cytoplasmic DNA Sensing by the AIM2 Inflammasome. <i>Current Biology</i> , 2009, 19, R262-R265.	3.9	122
43	NLRC5 Deficiency Selectively Impairs MHC Class I-Dependent Lymphocyte Killing by Cytotoxic T Cells. <i>Journal of Immunology</i> , 2012, 188, 3820-3828.	0.8	116
44	Mechanisms of unconventional secretion of IL-1 family cytokines. <i>Cytokine</i> , 2015, 74, 213-218.	3.2	113
45	XIAP Loss Triggers RIPK3- and Caspase-8-Driven IL-1 β Activation and Cell Death as a Consequence of TLR-MyD88-Induced cIAP1-TRAF2 Degradation. <i>Cell Reports</i> , 2017, 20, 668-682.	6.4	112
46	Rab8a interacts directly with PI3K β to modulate TLR4-driven PI3K and mTOR signalling. <i>Nature Communications</i> , 2014, 5, 4407.	12.8	109
47	G-protein-coupled receptor expression, function, and signaling in macrophages. <i>Journal of Leukocyte Biology</i> , 2007, 82, 16-32.	3.3	103
48	A rescue strategy for multimapping short sequence tags refines surveys of transcriptional activity by CAGE. <i>Genomics</i> , 2008, 91, 281-288.	2.9	92
49	<i>Salmonella</i> employs multiple mechanisms to subvert the TLR α -inducible zinc α -mediated antimicrobial response of human macrophages. <i>FASEB Journal</i> , 2016, 30, 1901-1912.	0.5	91
50	The NLRP3 inflammasome triggers sterile neuroinflammation and Alzheimer's disease. <i>Current Opinion in Immunology</i> , 2021, 68, 116-124.	5.5	91
51	A Novel Flow Cytometric Method To Assess Inflammasome Formation. <i>Journal of Immunology</i> , 2015, 194, 455-462.	0.8	90
52	Endothelial cells are not productively infected by SARS-CoV-2. <i>Clinical and Translational Immunology</i> , 2021, 10, e1350.	3.8	88
53	Data-driven normalization strategies for high-throughput quantitative RT-PCR. <i>BMC Bioinformatics</i> , 2009, 10, 110.	2.6	86
54	Histone Deacetylase 7 Promotes Toll-like Receptor 4-dependent Proinflammatory Gene Expression in Macrophages. <i>Journal of Biological Chemistry</i> , 2013, 288, 25362-25374.	3.4	81

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55	Neutrophil Extracellular Traps in Host Defense. <i>Cold Spring Harbor Perspectives in Biology</i> , 2020, 12, a037028.	5.5	81
56	Strain- and host species-specific inflammasome activation, IL-1 β release, and cell death in macrophages infected with uropathogenic <i>Escherichia coli</i> . <i>Mucosal Immunology</i> , 2016, 9, 124-136.	6.0	74
57	Colony-stimulating factor-1 (CSF-1) delivers a proatherogenic signal to human macrophages. <i>Journal of Leukocyte Biology</i> , 2009, 85, 278-288.	3.3	69
58	The Inflammasome Adaptor ASC Induces Procaspase-8 Death Effector Domain Filaments. <i>Journal of Biological Chemistry</i> , 2015, 290, 29217-29230.	3.4	69
59	Macrophage Activation and Differentiation Signals Regulate Schlafen-4 Gene Expression: Evidence for Schlafen-4 as a Modulator of Myelopoiesis. <i>PLoS ONE</i> , 2011, 6, e15723.	2.5	67
60	Alternate transcription of the Toll-like receptor signaling cascade. <i>Genome Biology</i> , 2006, 7, R10.	9.6	66
61	Phosphoinositide 3-kinase β regulates membrane fission of Golgi carriers for selective cytokine secretion. <i>Journal of Cell Biology</i> , 2010, 190, 1053-1065.	5.2	60
62	LPS regulates a set of genes in primary murine macrophages by antagonising CSF-1 action. <i>Immunobiology</i> , 2005, 210, 97-107.	1.9	58
63	Inflammatory Caspases: Toward a Unified Model for Caspase Activation by Inflammasomes. <i>Annual Review of Immunology</i> , 2022, 40, 249-269.	21.8	58
64	Dimerization and auto-processing induce caspase-11 protease activation within the non-canonical inflammasome. <i>Life Science Alliance</i> , 2018, 1, e201800237.	2.8	56
65	Update of the FANTOM web resource: from mammalian transcriptional landscape to its dynamic regulation. <i>Nucleic Acids Research</i> , 2011, 39, D856-D860.	14.5	49
66	An antioxidant role for catecholate siderophores in <i>Salmonella</i> . <i>Biochemical Journal</i> , 2013, 454, 543-549.	3.7	49
67	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
68	Lipopolysaccharide promotes Drp1-dependent mitochondrial fission and associated inflammatory responses in macrophages. <i>Immunology and Cell Biology</i> , 2020, 98, 528-539.	2.3	47
69	Differential Effects of CpG DNA on IFN- β Induction and STAT1 Activation in Murine Macrophages versus Dendritic Cells: Alternatively Activated STAT1 Negatively Regulates TLR Signaling in Macrophages. <i>Journal of Immunology</i> , 2007, 179, 3495-3503.	0.8	44
70	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
71	Sulfonylureas as Concomitant Insulin Secretagogues and NLRP3 Inflammasome Inhibitors. <i>ChemMedChem</i> , 2017, 12, 1449-1457.	3.2	42
72	PU.1 and ICSBP control constitutive and IFN- β -regulated Tlr9 gene expression in mouse macrophages. <i>Journal of Leukocyte Biology</i> , 2007, 81, 1577-1590.	3.3	41

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73	Metabolic gene expression changes in astrocytes in Multiple Sclerosis cerebral cortex are indicative of immune-mediated signaling. <i>Brain, Behavior, and Immunity</i> , 2015, 48, 313-325.	4.1	39
74	Single-Molecule Fluorescence Reveals the Oligomerization and Folding Steps Driving the Prion-like Behavior of ASC. <i>Journal of Molecular Biology</i> , 2018, 430, 491-508.	4.2	38
75	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
76	Antimicrobial functions of inflammasomes. <i>Current Opinion in Microbiology</i> , 2013, 16, 311-318.	5.1	36
77	The rOxâ€stars of inflammation: links between the inflammasome and mitochondrial meltdown. <i>Clinical and Translational Immunology</i> , 2020, 9, e01109.	3.8	35
78	Hepatic expression profiling identifies steatosis-independent and steatosis-driven advanced fibrosis genes. <i>JCI Insight</i> , 2018, 3, .	5.0	35
79	Salmonella-induced inflammasome activation in humans. <i>Molecular Immunology</i> , 2017, 86, 38-43.	2.2	33
80	Sphingomyelin Phosphodiesterase Acid-like 3A (SMPDL3A) Is a Novel Nucleotide Phosphodiesterase Regulated by Cholesterol in Human Macrophages. <i>Journal of Biological Chemistry</i> , 2014, 289, 32895-32913.	3.4	32
81	Deficient NLRP3 and AIM2 Inflammasome Function in Autoimmune NZB Mice. <i>Journal of Immunology</i> , 2015, 195, 1233-1241.	0.8	32
82	The combination of gene perturbation assay and ChIP-chip reveals functional direct target genes for IRF8 in THP-1 cells. <i>Molecular Immunology</i> , 2010, 47, 2295-2302.	2.2	31
83	NLRP12 is a neutrophil-specific, negative regulator of in vitro cell migration but does not modulate LPS- or infection-induced NF- κ B or ERK signalling. <i>Immunobiology</i> , 2016, 221, 341-346.	1.9	31
84	Cutting Edge: Blockade of Inhibitor of Apoptosis Proteins Sensitizes Neutrophils to TNF- but Not Lipopolysaccharide-Mediated Cell Death and IL-1 β Secretion. <i>Journal of Immunology</i> , 2018, 200, 3341-3346.	0.8	31
85	IFN Regulatory Factor 3 Balances Th1 and T Follicular Helper Immunity during Nonlethal Blood-Stage <i>Plasmodium</i> Infection. <i>Journal of Immunology</i> , 2018, 200, 1443-1456.	0.8	31
86	The complex interplay between endoplasmic reticulum stress and the NLRP3 inflammasome: a potential therapeutic target for inflammatory disorders. <i>Clinical and Translational Immunology</i> , 2021, 10, e1247.	3.8	30
87	Development of a DNA barcode tagging method for monitoring dynamic changes in gene expression by using an ultra high-throughput sequencer. <i>BioTechniques</i> , 2008, 45, 95-97.	1.8	29
88	Vincristine-induced peripheral neuropathy is driven by canonical NLRP3 activation and IL-1 β release. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	29
89	Assessment of Inflammasome Formation by Flow Cytometry. <i>Current Protocols in Immunology</i> , 2016, 114, 14.40.1-14.40.29.	3.6	27
90	The death domain-containing protein Unc5CL is a novel MyD88-independent activator of the pro-inflammatory IRAK signaling cascade. <i>Cell Death and Differentiation</i> , 2012, 19, 722-731.	11.2	25

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91	The murine neutrophil NLRP3 inflammasome is activated by soluble but not particulate or crystalline agonists. <i>European Journal of Immunology</i> , 2016, 46, 1004-1010.	2.9	23
92	Tiered DNA sensors for escalating responses. <i>Science</i> , 2019, 365, 1375-1376.	12.6	23
93	Role of the NLRP3 inflammasome in a model of acute burn-induced pain. <i>Burns</i> , 2017, 43, 304-309.	1.9	22
94	Inhibitors of class I histone deacetylases attenuate thioacetamide-induced liver fibrosis in mice by suppressing hepatic type 2 inflammation. <i>British Journal of Pharmacology</i> , 2019, 176, 3775-3790.	5.4	21
95	Mitochondrial DNA synthesis fuels NLRP3 inflammasome. <i>Cell Research</i> , 2018, 28, 1046-1047.	12.0	20
96	IL-1 Contributes to the Anti-Cancer Efficacy of Ingenol Mebutate. <i>PLoS ONE</i> , 2016, 11, e0153975.	2.5	18
97	The E3 ubiquitin ligase RNF144B is LPS-inducible in human, but not mouse, macrophages and promotes inducible IL-1 β expression. <i>Journal of Leukocyte Biology</i> , 2016, 100, 155-161.	3.3	16
98	In life there is death: How epithelial tissue barriers are preserved despite the challenge of apoptosis. <i>Tissue Barriers</i> , 2017, 5, e1345353.	3.2	16
99	Variation in hemolysin A expression between uropathogenic <i>Escherichia coli</i> isolates determines NLRP3-dependent vs. -independent macrophage cell death and host colonization. <i>FASEB Journal</i> , 2019, 33, 7437-7450.	0.5	16
100	Interleukin-1 Is Overexpressed in Injured Muscles Following Spinal Cord Injury and Promotes Neurogenic Heterotopic Ossification. <i>Journal of Bone and Mineral Research</i> , 2020, 37, 531-546.	2.8	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	Multiple inflammasomes may regulate the interleukin-1-driven inflammation in protracted bacterial bronchitis. <i>ERJ Open Research</i> , 2018, 4, 00130-2017.	2.6	14
103	The structure of the caspase recruitment domain of BinCARD reveals that all three cysteines can be oxidized. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 774-784.	2.5	13
104	Streptolysins are the primary inflammasome activators in macrophages during <i>Streptococcus pyogenes</i> infection. <i>Immunology and Cell Biology</i> , 2021, 99, 1040-1052.	2.3	12
105	Inflammasome activation and IL-1 β signalling in group A <i>Streptococcus</i> disease. <i>Cellular Microbiology</i> , 2021, 23, e13373.	2.1	11
106	Mechanisms and Consequences of Inflammasome Activation. <i>Journal of Molecular Biology</i> , 2018, 430, 131-132.	4.2	10
107	Quantifying Caspase-1 Activity in Murine Macrophages. <i>Methods in Molecular Biology</i> , 2018, 1725, 163-176.	0.9	9
108	SCIMP is a spatiotemporal transmembrane scaffold for Erk1/2 to direct pro-inflammatory signaling in TLR-activated macrophages. <i>Cell Reports</i> , 2021, 36, 109662.	6.4	9

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109	Inflammasomes and the IL-1 Family in Bone Homeostasis and Disease. <i>Current Osteoporosis Reports</i> , 2022, 20, 170-185.	3.6	9
110	Burn the house, save the day: pyroptosis in pathogen restriction. <i>Inflammasome</i> , 2016, 2, 1-6.	0.6	8
111	Design, synthesis and evaluation of an NLRP3 inhibitor diazirine photoaffinity probe. <i>Tetrahedron Letters</i> , 2020, 61, 151849.	1.4	7
112	Aim2 suppresses cigarette smoke-induced neutrophil recruitment, neutrophil caspase-1 activation and anti-Ly6G-mediated neutrophil depletion. <i>Immunology and Cell Biology</i> , 2022, 100, 235-249.	2.3	7
113	TRAF6 is a nexus for TLR-STAT1 crosstalk. <i>Immunology and Cell Biology</i> , 2014, 92, 737-738.	2.3	6
114	Novel insights into the innate immune response to non-tuberculous <i>Mycobacteria</i> . <i>Immunology and Cell Biology</i> , 2012, 90, 568-570.	2.3	5
115	Rapid lamellipodial responses by neighbor cells drive epithelial sealing in response to pyroptotic cell death. <i>Cell Reports</i> , 2022, 38, 110316.	6.4	5
116	Caging NLRP3 tames inflammasome activity. <i>Cell</i> , 2021, 184, 6224-6226.	28.9	5
117	Placental inflammasome signaling: Protection for mother and baby. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	4
118	Autophagy, Inflammation, and Metabolism (AIM) Center of Biomedical Research Excellence: supporting the next generation of autophagy researchers and fostering international collaborations. <i>Autophagy</i> , 2018, 14, 925-929.	9.1	3
119	Liver repercussions of defective gut surveillance. <i>Hepatology</i> , 2012, 56, 1174-1177.	7.3	2
120	Innate immunity, the constant gardener of antimicrobial defense. <i>Current Opinion in Microbiology</i> , 2013, 16, 293-295.	5.1	2
121	Zebrafish earns its stripes for in vivo ASC speck dynamics. <i>Journal of Cell Biology</i> , 2017, 216, 2615-2618.	5.2	1
122	NLRC3 Restrains Responses to a T. Immunity, 2018, 49, 989-991.	14.3	1
123	The Impact of CAGE Data on Understanding Macrophage Transcriptional Biology. , 2009, , 227-243.		0
124	Autophagy, Inflammation, and Metabolism (AIM) Center in its second year. <i>Autophagy</i> , 2019, 15, 1829-1833.	9.1	0
125	TRIM-mediated precision autophagy targets cytoplasmic regulators of innate immunity. <i>Journal of Experimental Medicine</i> , 2015, 212, 212100IA77.	8.5	0