Assocâ€Prof Kate Schroder

List of Publications by Year
in descending order

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	Inflammatory Caspases: Toward a Unified Model for Caspase Activation by Inflammasomes. Annual Review of Immunology, 2022, 40, 249-269.	21.8	58
2	Rapid lamellipodial responses by neighbor cells drive epithelial sealing in response to pyroptotic cell death. Cell Reports, 2022, 38, 110316.	6.4	5
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.	2.3	7
4	NLRP3 and pyroptosis blockers for treating inflammatory diseases. Trends in Pharmacological Sciences, 2022, 43, 653-668.	8.7	193
5	Inflammasomes and the IL-1 Family in Bone Homeostasis and Disease. Current Osteoporosis Reports, 2022, 20, 170-185.	3.6	9
6	The NLRP3 inflammasome triggers sterile neuroinflammation and Alzheimerâ€™s disease. Current Opinion in Immunology, 2021, 68, 116-124.	5.5	91
7	The complex interplay between endoplasmic reticulum stress and the NLRP3 inflammasome: a potential therapeutic target for inflammatory disorders. Clinical and Translational Immunology, 2021, 10, e1247.	3.8	30
8	Vincristine-induced peripheral neuropathy is driven by canonical NLRP3 activation and IL-1Î² release. Journal of Experimental Medicine, 2021, 218, .	8.5	29
9	Inflammasome activation and <scp>IL</scp> â€1Î² signalling in group A Streptococcus disease. Cellular Microbiology, 2021, 23, e13373.	2.1	11
10	SCIMP is a spatiotemporal transmembrane scaffold for Erk1/2 to direct pro-inflammatory signaling in TLR-activated macrophages. Cell Reports, 2021, 36, 109662.	6.4	9
11	Streptolysins are the primary inflammasome activators in macrophages during Streptococcus pyogenes infection. Immunology and Cell Biology, 2021, 99, 1040-1052.	2.3	12
12	Placental inflammasome signaling: Protection for mother and baby. Journal of Experimental Medicine, 2021, 218, .	8.5	4
13	Endothelial cells are not productively infected by SARSâ€CoVâ€2. Clinical and Translational Immunology, 2021, 10, e1350.	3.8	88
14	Caging NLRP3 tames inflammasome activity. Cell, 2021, 184, 6224-6226.	28.9	5
15	Inflammasome signaling and regulation of interleukin-1 family cytokines. Journal of Experimental Medicine, 2020, 217, .	8.5	237
16	The microglial NLRP3 inflammasome is activated by amyotrophic lateral sclerosis proteins. Glia, 2020, 68, 407-421.	4.9	133
17	Neutrophil Extracellular Traps in Host Defense. Cold Spring Harbor Perspectives in Biology, 2020, 12, a037028.	5.5	81
18	Lipopolysaccharide promotes Drp1â€dependent mitochondrial fission and associated inflammatory responses in macrophages. Immunology and Cell Biology, 2020, 98, 528-539.	2.3	47

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19	Design, synthesis and evaluation of an NLRP3 inhibitor diazirine photoaffinity probe. Tetrahedron Letters, 2020, 61, 151849.	1.4	7
20	The rOXâ€stars of inflammation: links between the inflammasome and mitochondrial meltdown. Clinical and Translational Immunology, 2020, 9, e01109.	3.8	35
21	Neutrophil-Derived S100A8/A9 Amplify Granulopoiesis After Myocardial Infarction. Circulation, 2020, 141, 1080-1094.	1.6	155
22	Interleukin-1 Is Overexpressed in Injured Muscles Following Spinal Cord Injury and Promotes Neurogenic Heterotopic Ossification. Journal of Bone and Mineral Research, 2020, 37, 531-546.	2.8	16
23	Tiered DNA sensors for escalating responses. Science, 2019, 365, 1375-1376.	12.6	23
24	Autophagy, Inflammation, and Metabolism (AIM) Center in its second year. Autophagy, 2019, 15, 1829-1833.	9.1	0
25	Inhibitors of class I histone deacetylases attenuate thioacetamideâ€induced liver fibrosis in mice by suppressing hepatic type 2 inflammation. British Journal of Pharmacology, 2019, 176, 3775-3790.	5.4	21
26	MCC950 directly targets the NLRP3 ATP-hydrolysis motif for inflammasome inhibition. Nature Chemical Biology, 2019, 15, 556-559.	8.0	561
27	Lack of protein prenylation promotes NLRP3 inflammasome assembly in human monocytes. Journal of Allergy and Clinical Immunology, 2019, 143, 2315-2317.e3.	2.9	15
28	Variation in hemolysin A expression between uropathogenic Escherichia coli isolates determines NLRP3â€dependent vs . â€independent macrophage cell death and host colonization. FASEB Journal, 2019, 33, 7437-7450.	0.5	16
29	The Salmonella pathogenicity island-2 subverts human NLRP3 and NLRC4 inflammasome responses. Journal of Leukocyte Biology, 2019, 105, 401-410.	3.3	38
30	Cutting Edge: Blockade of Inhibitor of Apoptosis Proteins Sensitizes Neutrophils to TNF- but Not Lipopolysaccharide-Mediated Cell Death and IL-1Î² Secretion. Journal of Immunology, 2018, 200, 3341-3346.	0.8	31
31	Multiple inflammasomes may regulate the interleukin-1-driven inflammation in protracted bacterial bronchitis. ERJ Open Research, 2018, 4, 00130-2017.	2.6	14
32	Caspase-1 self-cleavage is an intrinsic mechanism to terminate inflammasome activity. Journal of Experimental Medicine, 2018, 215, 827-840.	8.5	396
33	Single-Molecule Fluorescence Reveals the Oligomerization and Folding Steps Driving the Prion-like Behavior of ASC. Journal of Molecular Biology, 2018, 430, 491-508.	4.2	38
34	Mechanisms and Consequences of Inflammasome Activation. Journal of Molecular Biology, 2018, 430, 131-132.	4.2	10
35	Quantifying Caspase-1 Activity in Murine Macrophages. Methods in Molecular Biology, 2018, 1725, 163-176.	0.9	9
36	IFN Regulatory Factor 3 Balances Th1 and T Follicular Helper Immunity during Nonlethal Blood-Stage Plasmodium Infection. Journal of Immunology, 2018, 200, 1443-1456.	0.8	31

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37	NLRC3 Restrains Responses to a T. Immunity, 2018, 49, 989-991.	14.3	1
38	Mitochondrial DNA synthesis fuels NLRP3 inflammasome. Cell Research, 2018, 28, 1046-1047.	12.0	20
39	Inflammasome inhibition prevents Î±-synuclein pathology and dopaminergic neurodegeneration in mice. Science Translational Medicine, 2018, 10, .	12.4	493
40	Autophagy, Inflammation, and Metabolism (AIM) Center of Biomedical Research Excellence: supporting the next generation of autophagy researchers and fostering international collaborations. Autophagy, 2018, 14, 925-929.	9.1	3
41	Interleukin-1Î² Maturation Triggers Its Relocation to the Plasma Membrane for Gasdermin-D-Dependent and -Independent Secretion. Cell Reports, 2018, 24, 1425-1433.	6.4	215
42	Noncanonical inflammasome signaling elicits gasdermin Dâ€“dependent neutrophil extracellular traps. Science Immunology, 2018, 3, .	11.9	425
43	MCC950, a specific small molecule inhibitor of NLRP3 inflammasome attenuates colonic inflammation in spontaneous colitis mice. Scientific Reports, 2018, 8, 8618.	3.3	208
44	Hepatic expression profiling identifies steatosis-independent and steatosis-driven advanced fibrosis genes. JCI Insight, 2018, 3, .	5.0	35
45	Dimerization and auto-processing induce caspase-11 protease activation within the non-canonical inflammasome. Life Science Alliance, 2018, 1, e201800237.	2.8	56
46	Sterile signals generate weaker and delayed macrophage NLRP3 inflammasome responses relative to microbial signals. Cellular and Molecular Immunology, 2017, 14, 118-126.	10.5	42
47	Active MLKL triggers the NLRP3 inflammasome in a cell-intrinsic manner. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E961-E969.	7.1	337
48	Role of the NLRP3 inflammasome in a model of acute burn-induced pain. Burns, 2017, 43, 304-309.	1.9	22
49	NLRP3 inflammasome blockade reduces liver inflammation and fibrosis in experimental NASH in mice. Journal of Hepatology, 2017, 66, 1037-1046.	3.7	738
50	Salmonella-induced inflammasome activation in humans. Molecular Immunology, 2017, 86, 38-43.	2.2	33
51	Zebrafish earns its stripes for in vivo ASC speck dynamics. Journal of Cell Biology, 2017, 216, 2615-2618.	5.2	1
52	XIAP Loss Triggers RIPK3- and Caspase-8-Driven IL-1Î² Activation and Cell Death as a Consequence of TLR-MyD88-Induced cIAP1-TRAF2 Degradation. Cell Reports, 2017, 20, 668-682.	6.4	112
53	Sulfonylureas as Concomitant Insulin Secretagogues and NLRP3 Inflammasome Inhibitors. ChemMedChem, 2017, 12, 1449-1457.	3.2	42
54	In life there is death: How epithelial tissue barriers are preserved despite the challenge of apoptosis. Tissue Barriers, 2017, 5, e1345353.	3.2	16

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55	The murine neutrophil NLRP3 inflammasome is activated by soluble but not particulate or crystalline agonists. European Journal of Immunology, 2016, 46, 1004-1010.	2.9	23
56	K + Efflux-Independent NLRP3 Inflammasome Activation by Small Molecules Targeting Mitochondria. Immunity, 2016, 45, 761-773.	14.3	364
57	Assessment of Inflammasome Formation by Flow Cytometry. Current Protocols in Immunology, 2016, 114, 14.40.1-14.40.29.	3.6	27
58	Questions and controversies in innate immune research: what is the physiological role of NLRP3?. Cell Death Discovery, 2016, 2, 16019.	4.7	48
59	Familial autoinflammation with neutrophilic dermatosis reveals a regulatory mechanism of pyrin activation. Science Translational Medicine, 2016, 8, 332ra45.	12.4	241
60	Strain- and host species-specific inflammasome activation, IL-1Î² release, and cell death in macrophages infected with uropathogenic Escherichia coli. Mucosal Immunology, 2016, 9, 124-136.	6.0	74
61	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
62	The E3 ubiquitin ligase RNF144B is LPS-inducible in human, but not mouse, macrophages and promotes inducible IL-1Î² expression. Journal of Leukocyte Biology, 2016, 100, 155-161.	3.3	16
63	Burn the house, save the day: pyroptosis in pathogen restriction. Inflammasome, 2016, 2, 1-6.	0.6	8
64	NLRP12 is a neutrophil-specific, negative regulator of in vitro cell migration but does not modulate LPS- or infection-induced NF-ÎºB or ERK signalling. Immunobiology, 2016, 221, 341-346.	1.9	31
65	IL-1 Contributes to the Anti-Cancer Efficacy of Ingenol Mebutate. PLoS ONE, 2016, 11, e0153975.	2.5	18
66	NLRP3 inflammasome activation downstream of cytoplasmic LPS recognition by both caspaseâ€4 and caspaseâ€5. European Journal of Immunology, 2015, 45, 2918-2926.	2.9	283
67	Metabolic gene expression changes in astrocytes in Multiple Sclerosis cerebral cortex are indicative of immune-mediated signaling. Brain, Behavior, and Immunity, 2015, 48, 313-325.	4.1	39
68	Mechanisms of unconventional secretion of IL-1 family cytokines. Cytokine, 2015, 74, 213-218.	3.2	113
69	The Inflammasome Adaptor ASC Induces Procaspase-8 Death Effector Domain Filaments. Journal of Biological Chemistry, 2015, 290, 29217-29230.	3.4	69
70	A small-molecule inhibitor of the NLRP3 inflammasome for the treatment of inflammatory diseases. Nature Medicine, 2015, 21, 248-255.	30.7	1,967
71	Deficient NLRP3 and AIM2 Inflammasome Function in Autoimmune NZB Mice. Journal of Immunology, 2015, 195, 1233-1241.	0.8	32
72	TRIM-mediated precision autophagy targets cytoplasmic regulators of innate immunity. Journal of Cell Biology, 2015, 210, 973-989.	5.2	248

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73	A Novel Flow Cytometric Method To Assess Inflammasome Formation. Journal of Immunology, 2015, 194, 455-462.	0.8	90
74	TRIM-mediated precision autophagy targets cytoplasmic regulators of innate immunity. Journal of Experimental Medicine, 2015, 212, 21210OIA77.	8.5	0
75	Sphingomyelin Phosphodiesterase Acid-like 3A (SMPDL3A) Is a Novel Nucleotide Phosphodiesterase Regulated by Cholesterol in Human Macrophages. Journal of Biological Chemistry, 2014, 289, 32895-32913.	3.4	32
76	TRAF6 is a nexus for TLRâ€STAT1 crosstalk. Immunology and Cell Biology, 2014, 92, 737-738.	2.3	6
77	The Neutrophil NLRC4 Inflammasome Selectively Promotes IL-1Î² Maturation without Pyroptosis during Acute Salmonella Challenge. Cell Reports, 2014, 8, 570-582.	6.4	341
78	Rab8a interacts directly with PI3KÎ³ to modulate TLR4-driven PI3K and mTOR signalling. Nature Communications, 2014, 5, 4407.	12.8	109
79	Antimicrobial functions of inflammasomes. Current Opinion in Microbiology, 2013, 16, 311-318.	5.1	36
80	Innate immunity, the constant gardener of antimicrobial defense. Current Opinion in Microbiology, 2013, 16, 293-295.	5.1	2
81	Pattern recognition receptor function in neutrophils. Trends in Immunology, 2013, 34, 317-328.	6.8	155
82	AIM2 and NLRP3 inflammasomes activate both apoptotic and pyroptotic death pathways via ASC. Cell Death and Differentiation, 2013, 20, 1149-1160.	11.2	402
83	An antioxidant role for catecholate siderophores in Salmonella. Biochemical Journal, 2013, 454, 543-549.	3.7	49
84	Histone Deacetylase 7 Promotes Toll-like Receptor 4-dependent Proinflammatory Gene Expression in Macrophages. Journal of Biological Chemistry, 2013, 288, 25362-25374.	3.4	81
85	The structure of the caspase recruitment domain of BinCARD reveals that all three cysteines can be oxidized. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 774-784.	2.5	13
86	The death domain-containing protein Unc5CL is a novel MyD88-independent activator of the pro-inflammatory IRAK signaling cascade. Cell Death and Differentiation, 2012, 19, 722-731.	11.2	25
87	Novel insights into the innate immune response to nonâ€tuberculous Mycobacteria. Immunology and Cell Biology, 2012, 90, 568-570.	2.3	5
88	Acute lipopolysaccharide priming boosts inflammasome activation independently of inflammasome sensor induction. Immunobiology, 2012, 217, 1325-1329.	1.9	140
89	NLRC5 Deficiency Selectively Impairs MHC Class I- Dependent Lymphocyte Killing by Cytotoxic T Cells. Journal of Immunology, 2012, 188, 3820-3828.	0.8	116
90	Liver repercussions of defective gut surveillance. Hepatology, 2012, 56, 1174-1177.	7.3	2

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91	The mammalian PYHIN gene family: Phylogeny, evolution and expression. BMC Evolutionary Biology, 2012, 12, 140.	3.2	168
92	Conservation and divergence in Toll-like receptor 4-regulated gene expression in primary human versus mouse macrophages. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E944-53.	7.1	332
93	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
94	Differential Expression of NLRP3 among Hematopoietic Cells. Journal of Immunology, 2011, 186, 2529-2534.	0.8	276
95	Update of the FANTOM web resource: from mammalian transcriptional landscape to its dynamic regulation. Nucleic Acids Research, 2011, 39, D856-D860.	14.5	49
96	The combination of gene perturbation assay and ChIP-chip reveals functional direct target genes for IRF8 in THP-1 cells. Molecular Immunology, 2010, 47, 2295-2302.	2.2	31
97	NLRP3 inflammasome activation: the convergence of multiple signalling pathways on ROS production?. Nature Reviews Immunology, 2010, 10, 210-215.	22.7	1,495
98	Differential effects of selective HDAC inhibitors on macrophage inflammatory responses to the Toll-like receptor 4 agonist LPS. Journal of Leukocyte Biology, 2010, 87, 1103-1114.	3.3	163
99	Phosphoinositide 3-kinase Î´ regulates membrane fission of Golgi carriers for selective cytokine secretion. Journal of Cell Biology, 2010, 190, 1053-1065.	5.2	60
100	The Inflammasomes. Cell, 2010, 140, 821-832.	28.9	4,781
101	The NLRP3 Inflammasome: A Sensor for Metabolic Danger?. Science, 2010, 327, 296-300.	12.6	956
102	Colony-stimulating factor-1 (CSF-1) delivers a proatherogenic signal to human macrophages. Journal of Leukocyte Biology, 2009, 85, 278-288.	3.3	69
103	Data-driven normalization strategies for high-throughput quantitative RT-PCR. BMC Bioinformatics, 2009, 10, 110.	2.6	86
104	Innate Immunity: Cytoplasmic DNA Sensing by the AIM2 Inflammasome. Current Biology, 2009, 19, R262-R265.	3.9	122
105	DAI/ZBP1 recruits RIP1 and RIP3 through RIP homotypic interaction motifs to activate NFâ€ºB. EMBO Reports, 2009, 10, 916-922.	4.5	290
106	Tiny RNAs associated with transcription start sites in animals. Nature Genetics, 2009, 41, 572-578.	21.4	327
107	The regulated retrotransposon transcriptome of mammalian cells. Nature Genetics, 2009, 41, 563-571.	21.4	731
108	The transcriptional network that controls growth arrest and differentiation in a human myeloid leukemia cell line. Nature Genetics, 2009, 41, 553-562.	21.4	408

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109	The Impact of CAGE Data on Understanding Macrophage Transcriptional Biology. , 2009, , 227-243.		0
110	Expression analysis of G Protein-Coupled Receptors in mouse macrophages. Immunome Research, 2008, 4, 5.	0.1	400
111	A rescue strategy for multimapping short sequence tags refines surveys of transcriptional activity by CAGE. Genomics, 2008, 91, 281-288.	2.9	92
112	The Macrophage-Inducible C-Type Lectin, Mincle, Is an Essential Component of the Innate Immune Response to Candida albicans. Journal of Immunology, 2008, 180, 7404-7413.	0.8	393
113	Osteal Tissue Macrophages Are Intercalated throughout Human and Mouse Bone Lining Tissues and Regulate Osteoblast Function In Vitro and In Vivo. Journal of Immunology, 2008, 181, 1232-1244.	0.8	597
114	Development of a DNA barcode tagging method for monitoring dynamic changes in gene expression by using an ultra high-throughput sequencer. BioTechniques, 2008, 45, 95-97.	1.8	29
115	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
116	G-protein-coupled receptor expression, function, and signaling in macrophages. Journal of Leukocyte Biology, 2007, 82, 16-32.	3.3	103
117	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
118	Histone deacetylase inhibitors decrease Tollâ€like receptorâ€mediated activation of proinflammatory gene expression by impairing transcription factor recruitment. Immunology, 2007, 122, 596-606.	4.4	155
119	Alternate transcription of the Toll-like receptor signaling cascade. Genome Biology, 2006, 7, R10.	9.6	66
120	Signal integration between IFNÎ³ and TLR signalling pathways in macrophages. Immunobiology, 2006, 211, 511-524.	1.9	265
121	LPS regulates proinflammatory gene expression in macrophages by altering histone deacetylase expression. FASEB Journal, 2006, 20, 1315-1327.	0.5	210
122	LPS regulates a set of genes in primary murine macrophages by antagonising CSF-1 action. Immunobiology, 2005, 210, 97-107.	1.9	58
123	Interferon-Î³: an overview of signals, mechanisms and functions. Journal of Leukocyte Biology, 2004, 75, 163-189.	3.3	3,315
124	Probing the S100 protein family through genomic and functional analysis. Genomics, 2004, 84, 10-22.	2.9	153
125	Activity of Recombinant Dengue 2 Virus NS3 Protease in the Presence of a Truncated NS2B Co-factor, Small Peptide Substrates, and Inhibitors. Journal of Biological Chemistry, 2001, 276, 45762-45771.	3.4	276