

Melanie J Scott

List of Publications by Year in descending order

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64
papers

2,799
citations

172457

29
h-index

182427

51
g-index

71
all docs

71
docs citations

71
times ranked

4244
citing authors

#	ARTICLE	IF	CITATIONS
1	The Endotoxin Delivery Protein HMGB1 Mediates Caspase-11-Dependent Lethality in Sepsis. <i>Immunity</i> , 2018, 49, 740-753.e7.	14.3	377
2	Lipopolysaccharide Clearance, Bacterial Clearance, and Systemic Inflammatory Responses Are Regulated by Cell Type-Specific Functions of TLR4 during Sepsis. <i>Journal of Immunology</i> , 2013, 190, 5152-5160.	0.8	165
3	Inflammasome and Autophagy Regulation: A Two-way Street. <i>Molecular Medicine</i> , 2017, 23, 188-195.	4.4	155
4	Hemorrhagic Shock Activation of NLRP3 Inflammasome in Lung Endothelial Cells. <i>Journal of Immunology</i> , 2011, 187, 4809-4817.	0.8	136
5	Immune-Responsive Gene 1/Itaconate Activates Nuclear Factor Erythroid 2-Related Factor 2 in Hepatocytes to Protect Against Liver Ischemia-Reperfusion Injury. <i>Hepatology</i> , 2020, 72, 1394-1411.	7.3	124
6	Location is the key to function: HMGB1 in sepsis and trauma-induced inflammation. <i>Journal of Leukocyte Biology</i> , 2019, 106, 161-169.	3.3	115
7	β 2-Integrin-induced p38 MAPK Activation Is a Key Mediator in the CD14/TLR4/MD2-dependent Uptake of Lipopolysaccharide by Hepatocytes. <i>Journal of Biological Chemistry</i> , 2008, 283, 29433-29446.	3.4	92
8	Caspase-1 as a multifunctional inflammatory mediator: noncytokine maturation roles. <i>Journal of Leukocyte Biology</i> , 2016, 100, 961-967.	3.3	86
9	LPS Induces Active HMGB1 Release From Hepatocytes Into Exosomes Through the Coordinated Activities of TLR4 and Caspase-11/GSDMD Signaling. <i>Frontiers in Immunology</i> , 2020, 11, 229.	4.8	81
10	Hepatocytes express functional NOD1 and NOD2 receptors: A role for NOD1 in hepatocyte CC and CXC chemokine production. <i>Journal of Hepatology</i> , 2010, 53, 693-701.	3.7	78
11	cGAS-mediated autophagy protects the liver from ischemia-reperfusion injury independently of STING. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 314, G655-G667.	3.4	74
12	Caspase 1 Activation Is Protective against Hepatocyte Cell Death by Up-regulating Beclin 1 Protein and Mitochondrial Autophagy in the Setting of Redox Stress. <i>Journal of Biological Chemistry</i> , 2013, 288, 15947-15958.	3.4	70
13	Systemic inflammation and end organ damage following trauma involves functional TLR4 signaling in both bone marrow-derived cells and parenchymal cells. <i>Journal of Leukocyte Biology</i> , 2008, 83, 80-88.	3.3	69
14	Endotoxin uptake in mouse liver is blocked by endotoxin pretreatment through a suppressor of cytokine signaling-1-dependent mechanism. <i>Hepatology</i> , 2009, 49, 1695-1708.	7.3	67
15	Group 2 innate lymphoid cells protect lung endothelial cells from pyroptosis in sepsis. <i>Cell Death and Disease</i> , 2018, 9, 369.	6.3	62
16	Shedding of the tumor necrosis factor (TNF) receptor from the surface of hepatocytes during sepsis limits inflammation through cGMP signaling. <i>Science Signaling</i> , 2015, 8, ra11.	3.6	56
17	Neutrophils Counteract Autophagy-Mediated Anti-Inflammatory Mechanisms in Alveolar Macrophage: Role in Posthemorrhagic Shock Acute Lung Inflammation. <i>Journal of Immunology</i> , 2014, 193, 4623-4633.	0.8	52
18	Caspase-1 Is Hepatoprotective during Trauma and Hemorrhagic Shock by Reducing Liver Injury and Inflammation. <i>Molecular Medicine</i> , 2011, 17, 1031-1038.	4.4	51

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19	Hemorrhagic Shock Augments Nlrp3 Inflammasome Activation in the Lung through Impaired Pyrin Induction. <i>Journal of Immunology</i> , 2013, 190, 5247-5255.	0.8	42
20	Platelet HMGB1 is required for efficient bacterial clearance in intra-abdominal bacterial sepsis in mice. <i>Blood Advances</i> , 2018, 2, 638-648.	5.2	41
21	Lung epithelial cell-derived IL-25 negatively regulates LPS-induced exosome release from macrophages. <i>Military Medical Research</i> , 2018, 5, 24.	3.4	41
22	Aging-Impaired Filamentous Actin Polymerization Signaling Reduces Alveolar Macrophage Phagocytosis of Bacteria. <i>Journal of Immunology</i> , 2017, 199, 3176-3186.	0.8	40
23	Cold-inducible RNA-binding protein through TLR4 signaling induces mitochondrial DNA fragmentation and regulates macrophage cell death after trauma. <i>Cell Death and Disease</i> , 2017, 8, e2775-e2775.	6.3	39
24	MyD88-dependent inflammasome activation and autophagy inhibition contributes to Ehrlichia-induced liver injury and toxic shock. <i>PLoS Pathogens</i> , 2017, 13, e1006644.	4.7	38
25	Anti-HMGB1 Monoclonal Antibody Ameliorates Immunosuppression after Peripheral Tissue Trauma: Attenuated T-Lymphocyte Response and Increased Splenic CD11b ⁺ Gr-1 ⁺ Myeloid-Derived Suppressor Cells Require HMGB1. <i>Mediators of Inflammation</i> , 2015, 2015, 1-10.	3.0	36
26	HEPATOCYTES ENHANCE EFFECTS OF LIPOPOLYSACCHARIDE ON LIVER NONPARENCHYMAL CELLS THROUGH CLOSE CELL INTERACTIONS. <i>Shock</i> , 2005, 23, 453-458.	2.1	34
27	Type I Interferon Contributes to Noncanonical Inflammasome Activation, Mediates Immunopathology, and Impairs Protective Immunity during Fatal Infection with Lipopolysaccharide-Negative Ehrlichiae. <i>American Journal of Pathology</i> , 2015, 185, 446-461.	3.8	34
28	Lipopolysaccharide Stimulates p62-Dependent Autophagy-Like Aggregate Clearance in Hepatocytes. <i>BioMed Research International</i> , 2014, 2014, 1-13.	1.9	32
29	Gasdermin D protects against noninfectious liver injury by regulating apoptosis and necroptosis. <i>Cell Death and Disease</i> , 2019, 10, 481.	6.3	31
30	Frontline Science: Macrophage-derived exosomes promote neutrophil necroptosis following hemorrhagic shock. <i>Journal of Leukocyte Biology</i> , 2018, 103, 175-183.	3.3	30
31	Notch signaling protects CD4 T cells from STING-mediated apoptosis during acute systemic inflammation. <i>Science Advances</i> , 2020, 6, .	10.3	29
32	TSLP protects against liver I/R injury via activation of the PI3K/Akt pathway. <i>JCI Insight</i> , 2019, 4, .	5.0	27
33	Role of autophagy in intervertebral disc degeneration. <i>Journal of Cellular Physiology</i> , 2022, 237, 1266-1284.	4.1	27
34	Leukotriene B4 Receptor (BLT-1) Modulates Neutrophil Influx into the Peritoneum but Not the Lung and Liver during Surgically Induced Bacterial Peritonitis in Mice. <i>Vaccine Journal</i> , 2004, 11, 936-941.	2.6	24
35	Mammalian DNA Is an Endogenous Danger Signal That Stimulates Local Synthesis and Release of Complement Factor B. <i>Molecular Medicine</i> , 2012, 18, 851-860.	4.4	24
36	Toll-like Receptor 4 Signaling on Dendritic Cells Suppresses Polymorphonuclear Leukocyte CXCR2 Expression and Trafficking via Interleukin 10 During Intra-abdominal Sepsis. <i>Journal of Infectious Diseases</i> , 2016, 213, 1280-1288.	4.0	24

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37	Metformin improves nonalcoholic fatty liver disease in obese mice via down-regulation of apolipoprotein A5 as part of the AMPK/LXR β signaling pathway. <i>Oncotarget</i> , 2017, 8, 108802-108809.	1.8	24
38	RAGE-induced ILC2 expansion in acute lung injury due to haemorrhagic shock. <i>Thorax</i> , 2020, 75, 209-219.	5.6	23
39	N-tert-butylmethanimine N-oxide is an efficient spin-trapping probe for EPR analysis of glutathione thyl radical. <i>Scientific Reports</i> , 2016, 6, 38773.	3.3	22
40	Cutting Edge: The Heat Shock Protein gp96 Activates Inflammasome-Signaling Platforms in APCs. <i>Journal of Immunology</i> , 2018, 201, 2209-2214.	0.8	20
41	Maresin 1 protects the liver against ischemia/reperfusion injury via the ALXR/Akt signaling pathway. <i>Molecular Medicine</i> , 2021, 27, 18.	4.4	19
42	Platelet-Monocyte Aggregates: Understanding Mechanisms and Functions in Sepsis. <i>Shock</i> , 2021, 55, 156-166.	2.1	17
43	Hepatocytes Are Resistant to Cell Death From Canonical and Non-Canonical Inflammasome-Activated Pyroptosis. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2022, 13, 739-757.	4.5	16
44	Toll-Like Receptor 4 on both Myeloid Cells and Dendritic Cells Is Required for Systemic Inflammation and Organ Damage after Hemorrhagic Shock with Tissue Trauma in Mice. <i>Frontiers in Immunology</i> , 2017, 8, 1672.	4.8	15
45	EGFR signaling augments TLR4 cell surface expression and function in macrophages via regulation of Rab5a activation. <i>Protein and Cell</i> , 2020, 11, 144-149.	11.0	14
46	Interferon Type I Regulates Inflammasome Activation and High Mobility Group Box 1 Translocation in Hepatocytes During Ehrlichia-Induced Acute Liver Injury. <i>Hepatology Communications</i> , 2021, 5, 33-51.	4.3	13
47	Return of Individual Research Results. <i>American Journal of Pathology</i> , 2020, 190, 918-933.	3.8	11
48	NK1.1+ cells promote sustained tissue injury and inflammation after trauma with hemorrhagic shock. <i>Journal of Leukocyte Biology</i> , 2017, 102, 127-134.	3.3	9
49	Hepatocyte high-mobility group box 1 protects against steatosis and cellular stress during high fat diet feeding. <i>Molecular Medicine</i> , 2020, 26, 115.	4.4	9
50	Genetic background influences natural killer cell activation during bacterial peritonitis in mice, and is interleukin 12 and interleukin 18 independent. <i>Cytokine</i> , 2004, 28, 124-136.	3.2	8
51	Caspase1/11 signaling affects muscle regeneration and recovery following ischemia, and can be modulated by chloroquine. <i>Molecular Medicine</i> , 2020, 26, 69.	4.4	6
52	TBK1/IKK μ Negatively Regulate LPS-Induced Neutrophil Necroptosis and Lung Inflammation. <i>Shock</i> , 2021, 55, 338-348.	2.1	6
53	Immune Activation in the Liver by Nucleic Acids. <i>Journal of Clinical and Translational Hepatology</i> , 2016, 4, 151-7.	1.4	6
54	The emerging therapeutic potential of extracellular vesicles in trauma. <i>Journal of Leukocyte Biology</i> , 2021, 111, 93-111.	3.3	5

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55	Inflammatory Caspase Activity Mediates HMGB1 Release and Differentiation in Myoblasts Affected by Peripheral Arterial Disease. <i>Cells</i> , 2022, 11, 1163.	4.1	3
56	Purposeful Repurposing. <i>Critical Care Medicine</i> , 2015, 43, 2043-2045.	0.9	2
57	Single-Cell Transcriptomics Reveals Compartment-Specific Differences in Immune Responses and Contributions for Complement Factor 3 in Hemorrhagic Shock Plus Tissue Trauma. <i>Shock</i> , 2021, 56, 994-1008.	2.1	2
58	GRK2 regulates group 2 innate lymphoid cell mobilization in sepsis. <i>Molecular Medicine</i> , 2022, 28, 32.	4.4	2
59	The upside-downside nature of Vitamin D signaling in liver. <i>Journal of Leukocyte Biology</i> , 2019, 106, 783-785.	3.3	1
60	What's New in Shock? November 2015. <i>Shock</i> , 2015, 44, 387-389.	2.1	0
61	What's New in Shock? April 2015. <i>Shock</i> , 2015, 43, 301-303.	2.1	0
62	What's New in Shock, January 2017?. <i>Shock</i> , 2017, 47, 1-4.	2.1	0
63	Type I interferon-mediated Akt/mTORC2 signaling regulates autophagy and inflammasome activation in mouse liver injury/sepsis model. <i>FASEB Journal</i> , 2018, 32, 41.7.	0.5	0
64	Regulation of HMGB1 in Hepatocytes by MyD88 and Type I interferon (IFN I) During Ehrlichia-induced acute liver injury.. <i>FASEB Journal</i> , 2018, 32, 406.10.	0.5	0