Hongbo R Luo

List of Publications by Year
in descending order

71 papers	4,527 citations	136950 32 h-index	114465 63 g-index
73 all docs	73 docs citations	73 times ranked	6922 citing authors

#	Article	IF	Citations
1	FDA-approved disulfiram inhibits pyroptosis by blocking gasdermin D pore formation. Nature Immunology, 2020, 21, 736-745.	14.5	555
2	Single-cell transcriptome profiling reveals neutrophil heterogeneity in homeostasis and infection. Nature Immunology, 2020, 21, 1119-1133.	14.5	380
3	Gasdermin D Exerts Anti-inflammatory Effects by Promoting Neutrophil Death. Cell Reports, 2018, 22, 2924-2936.	6.4	296
4	Small molecule-induced cytosolic activation of protein kinase Akt rescues ischemia-elicited neuronal death. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10581-10586.	7.1	280
5	Constitutive neutrophil apoptosis: Mechanisms and regulation. American Journal of Hematology, 2008, 83, 288-295.	4.1	244
6	Inositol Pyrophosphates Mediate Chemotaxis in Dictyostelium via Pleckstrin Homology Domain-PtdIns(3,4,5)P3 Interactions. Cell, 2003, 114, 559-572.	28.9	188
7	Reactive Oxygen Species-Induced Actin Glutathionylation Controls Actin Dynamics in Neutrophils. Immunity, 2012, 37, 1037-1049.	14.3	174
8	GSDMD is critical for autoinflammatory pathology in a mouse model of Familial Mediterranean Fever. Journal of Experimental Medicine, 2018, 215, 1519-1529.	8.5	143
9	Small-molecule screen identifies reactive oxygen species as key regulators of neutrophil chemotaxis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3546-3551.	7.1	141
10	Identification and Characterization of a Novel Inositol Hexakisphosphate Kinase. Journal of Biological Chemistry, 2001, 276, 39179-39185.	3.4	135
11	Proteinase 3â€“dependent caspase-3 cleavage modulates neutrophil death and inflammation. Journal of Clinical Investigation, 2014, 124, 4445-4458.	8.2	114
12	Tumor suppressor PTEN is a physiologic suppressor of chemoattractant-mediated neutrophil functions. Blood, 2007, 109, 4028-4037.	1.4	106
13	Myeloid Cell-Derived Reactive Oxygen Species Externally Regulate the Proliferation of Myeloid Progenitors in Emergency Granulopoiesis. Immunity, 2015, 42, 159-171.	14.3	85
14	Inositol Pyrophosphates Are Required for DNA Hyperrecombination in Protein Kinase C1 Mutant Yeastâ€. Biochemistry, 2002, 41, 2509-2515.	2.5	78
15	Deactivation of phosphatidylinositol 3,4,5-trisphosphate/Akt signaling mediates neutrophil spontaneous death. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14836-14841.	7.1	78
16	Inositol hexakisphosphate kinase 1 regulates neutrophil function in innate immunity by inhibiting phosphatidylinositol-(3,4,5)-trisphosphate signaling. Nature Immunology, 2011, 12, 752-760.	14.5	76
17	G-CSF maintains controlled neutrophil mobilization during acute inflammation by negatively regulating CXCR2 signaling. Journal of Experimental Medicine, 2016, 213, 1999-2018.	8.5	74
18	Pretreatment with phosphatase and tensin homolog deleted on chromosome 10 (PTEN) inhibitor SF1670 augments the efficacy of granulocyte transfusion in a clinically relevant mouse model. Blood, 2011, 117, 6702-6713.	1.4	63

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19	Inositol 1,3,4,5-Tetrakisphosphate Negatively Regulates Phosphatidylinositol-3,4,5- Trisphosphate Signaling in Neutrophils. Immunity, 2007, 27, 453-467.	14.3	62
20	Neutrophil spontaneous death is mediated by down-regulation of autocrine signaling through GPCR, PI3KÎ³, ROS, and actin. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2950-2955.	7.1	62
21	Deactivation of Akt by a small molecule inhibitor targeting pleckstrin homology domain and facilitating Akt ubiquitination. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6486-6491.	7.1	62
22	NFAT1 promotes intratumoral neutrophil infiltration by regulating IL8 expression in breast cancer. Molecular Oncology, 2015, 9, 1140-1154.	4.6	59
23	Inositol 1,3,4,5-tetrakisphosphate controls proapoptotic Bim gene expression and survival in B cells. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13978-13983.	7.1	57
24	Phosphoinositide lipid phosphatase SHIP1 and PTEN coordinate to regulate cell migration and adhesion. Molecular Biology of the Cell, 2012, 23, 1219-1230.	2.1	57
25	Cancer Cell-Derived Clusterin Modulates the Phosphatidylinositol 3â€²-Kinase-Akt Pathway through Attenuation of Insulin-Like Growth Factor 1 during Serum Deprivation. Molecular and Cellular Biology, 2008, 28, 4285-4299.	2.3	56
26	Targeted deletion of tumor suppressor PTEN augments neutrophil function and enhances host defense in neutropenia-associated pneumonia. Blood, 2009, 113, 4930-4941.	1.4	49
27	Role of Selenof as a Gatekeeper of Secreted Disulfide-Rich Glycoproteins. Cell Reports, 2018, 23, 1387-1398.	6.4	49
28	Cigarette smoke (CS) and nicotine delay neutrophil spontaneous death via suppressing production of diphosphoinositol pentakisphosphate. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7726-7731.	7.1	46
29	Focal Adhesion Kinase Regulates Pathogen-Killing Capability and Life Span of Neutrophils via Mediating Both Adhesion-Dependent and -Independent Cellular Signals. Journal of Immunology, 2009, 183, 1032-1043.	0.8	40
30	Immunotherapy for breast cancer using EpCAM aptamer tumor-targeted gene knockdown. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	38
31	Zinc Finger Protein SALL4 Functions through an AT-Rich Motif to Regulate Gene Expression. Cell Reports, 2021, 34, 108574.	6.4	36
32	Inflammasome-mediated GSDMD activation facilitates escape of Candida albicans from macrophages. Nature Communications, 2021, 12, 6699.	12.8	36
33	Positive Regulation of Interleukin-1Î² Bioactivity by Physiological ROS-Mediated Cysteine S-Glutathionylation. Cell Reports, 2017, 20, 224-235.	6.4	35
34	Histone deacetylase 6 modulates macrophage infiltration during inflammation. Theranostics, 2018, 8, 2927-2938.	10.0	35
35	Natural Product Celastrol Destabilizes Tubulin Heterodimer and Facilitates Mitotic Cell Death Triggered by Microtubule-Targeting Anti-Cancer Drugs. PLoS ONE, 2010, 5, e10318.	2.5	34
36	Reactive oxygen species as signaling molecules in neutrophil chemotaxis. Communicative and Integrative Biology, 2010, 3, 278-281.	1.4	34

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37	Myeloid-Specific Deletion of Tumor Suppressor PTEN Augments Neutrophil Transendothelial Migration during Inflammation. Journal of Immunology, 2009, 182, 7190-7200.	0.8	33
38	Inhibition of IP6K1 suppresses neutrophil-mediated pulmonary damage in bacterial pneumonia. Science Translational Medicine, 2018, 10, .	12.4	33
39	Inositol trisphosphate 3-kinase B (InsP3KB) as a physiological modulator of myelopoiesis. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4739-4744.	7.1	30
40	PTEN Negatively Regulates Engulfment of Apoptotic Cells by Modulating Activation of Rac GTPase. Journal of Immunology, 2011, 187, 5783-5794.	0.8	30
41	Enzyme-Responsive Peptide Thioesters for Targeting Golgi Apparatus. Journal of the American Chemical Society, 2022, 144, 6709-6713.	13.7	30
42	Integrin-independent role of CalDAG-GEFI in neutrophil chemotaxis. Journal of Leukocyte Biology, 2010, 88, 313-319.	3.3	28
43	Kras is Required for Adult Hematopoiesis. Stem Cells, 2016, 34, 1859-1871.	3.2	28
44	The role of CXCR2 in acute inflammatory responses and its antagonists as anti-inflammatory therapeutics. Current Opinion in Hematology, 2019, 26, 28-33.	2.5	28
45	Reactive Oxygen Speciesâ€“Producing Myeloid Cells Act as a Bone Marrow Niche for Sterile Inflammationâ€“Induced Reactive Granulopoiesis. Journal of Immunology, 2017, 198, 2854-2864.	0.8	26
46	Molecular control of PtdIns(3,4,5)P3 signaling in neutrophils. EMBO Reports, 2015, 16, 149-163.	4.5	24
47	aYAP modRNA reduces cardiac inflammation and hypertrophy in a murine ischemia-reperfusion model. Life Science Alliance, 2020, 3, e201900424.	2.8	24
48	Glutaredoxin 1 up-regulates deglutathionylation of Î±4 integrin and thereby restricts neutrophil mobilization from bone marrow. Journal of Biological Chemistry, 2019, 294, 2616-5242.	3.4	18
49	Microtubule dynamics regulates Akt signaling via dynactin p150. Cellular Signalling, 2014, 26, 1707-1716.	3.6	15
50	Regulation of innate immunity by inositol 1,3,4,5-tetrakisphosphate. Cell Cycle, 2008, 7, 2803-2808.	2.6	13
51	Targeting an Inducible SALL4-Mediated Cancer Vulnerability with Sequential Therapy. Cancer Research, 2021, 81, 6018-6028.	0.9	13
52	E1A-engineered human umbilical cord mesenchymal stem cells as carriers and amplifiers for adenovirus suppress hepatocarcinoma in mice. Oncotarget, 2016, 7, 51815-51828.	1.8	11
53	Proteinase 3 Limits the Number of Hematopoietic Stem and Progenitor Cells in Murine Bone Marrow. Stem Cell Reports, 2018, 11, 1092-1105.	4.8	11
54	Interleukin-1Î² inhibits normal hematopoietic expansion and promotes acute myeloid leukemia progression via the bone marrow niche. Cytotherapy, 2020, 22, 127-134.	0.7	11

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55	Heterogeneity of neutrophil spontaneous death. American Journal of Hematology, 2017, 92, E156-E159.	4.1	10
56	Proteinase 3 and Serpin B1: a novel pathway in the regulation of caspase-3 activation, neutrophil spontaneous apoptosis, and inflammation. Inflammation and Cell Signaling, 2014, 1, .	1.6	10
57	Deficiency of Lipid Phosphatase SHIP Enables Long-Term Reconstitution of Hematopoietic Inductive Bone Marrow Microenvironment. Developmental Cell, 2013, 25, 333-349.	7.0	9
58	Targeting multiple cell death pathways extends the shelf life and preserves the function of human and mouse neutrophils for transfusion. Science Translational Medicine, 2021, 13, .	12.4	9
59	Bacteria-Induced Acute Inflammation Does Not Reduce the Long-Term Reconstitution Capacity of Bone Marrow Hematopoietic Stem Cells. Frontiers in Immunology, 2020, 11, 626.	4.8	5
60	Isolation of Human Neutrophils from Whole Blood and Buffy Coats. Journal of Visualized Experiments, 2021, , .	0.3	4
61	Identification of the Transgene Integration Site and Host Genome Changes in MRP8-Cre/ires-EGFP Transgenic Mice by Targeted Locus Amplification. Frontiers in Immunology, 2022, 13, 875991.	4.8	4
62	Exploiting Effectors of Rac GTPase. Chemistry and Biology, 2012, 19, 169-171.	6.0	2
63	Rheb1-Deficient Neutrophils Promote Hematopoietic Stem/Progenitor Cell Proliferation via Mesenchymal Stem Cells. Frontiers in Cell and Developmental Biology, 2021, 9, 650599.	3.7	1
64	FDA-approved disulfiram inhibits pyroptosis by blocking gasdermin D pore formation. , 0, .		1
65	A dual regulator of neutrophil recruitment. Blood, 2014, 123, 1983-1985.	1.4	0
66	Vav1 Regulates Perivascular Homing, Bone Marrow Retention and Engraftment of Hematopoietic Stem Cells Via SDF1a Signaling. Blood, 2010, 116, 400-400.	1.4	0
67	Identiï¬cation Of a Novel Small-Molecule TNFÎ± Inhibitor With Activity Against Inflammation In a Hepatitis Mouse Model. Blood, 2013, 122, 4229-4229.	1.4	0
68	Proteinase 3 Is Expressed in Stem Cells and Regulates Bone Marrow Hematopoiesis. Blood, 2015, 126, 1159-1159.	1.4	0
69	Successful Treatment of Animal Models of Acute Graft-Versus-Host Disease with Small-Molecule TNF Inhibitor. Blood, 2016, 128, 4714-4714.	1.4	0
70	Mechanism of Suppression Effect of Myeloid-Derived Suppressor Cells on Hyperacute Graft-Versus-Host Disease. Blood, 2016, 128, 5716-5716.	1.4	0
71	Gasdermin D Exerts Anti-Inflammatory Effects by Promoting Neutrophil Death. SSRN Electronic Journal, 0, , .	0.4	0