Arturo Zychlinsky

List of Publications by Year
in descending order

71 papers	29,694 citations	44042 48 h-index	91828 69 g-index
78 all docs	78 docs citations	78 times ranked	24220 citing authors

#	Article	IF	Citations
1	Neutrophil Extracellular Traps Kill Bacteria. Science, 2004, 303, 1532-1535.	6.0	7,806
2	Novel cell death program leads to neutrophil extracellular traps. Journal of Cell Biology, 2007, 176, 231-241.	2.3	2,693
3	Neutrophil elastase and myeloperoxidase regulate the formation of neutrophil extracellular traps. Journal of Cell Biology, 2010, 191, 677-691.	2.3	1,637
4	Neutrophil Extracellular Traps Contain Calprotectin, a Cytosolic Protein Complex Involved in Host Defense against Candida albicans. PLoS Pathogens, 2009, 5, e1000639.	2.1	1,378
5	Neutrophil Function: From Mechanisms to Disease. Annual Review of Immunology, 2012, 30, 459-489.	9.5	1,337
6	Impairment of neutrophil extracellular trap degradation is associated with lupus nephritis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9813-9818.	3.3	1,201
7	Neutrophil extracellular traps: Is immunity the second function of chromatin?. Journal of Cell Biology, 2012, 198, 773-783.	2.3	878
8	Neutrophil extracellular traps capture and kill Candida albicans yeast and hyphal forms. Cellular Microbiology, 2006, 8, 668-676.	1.1	865
9	Beneficial suicide: why neutrophils die to make NETs. Nature Reviews Microbiology, 2007, 5, 577-582.	13.6	798
10	Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition). European Journal of Immunology, 2019, 49, 1457-1973.	1.6	766
11	Activation of the Raf-MEK-ERK pathway is required for neutrophil extracellular trap formation. Nature Chemical Biology, 2011, 7, 75-77.	3.9	649
12	NETs: a new strategy for using old weapons. Trends in Immunology, 2009, 30, 513-521.	2.9	620
13	Myeloperoxidase is required for neutrophil extracellular trap formation: implications for innate immunity. Blood, 2011, 117, 953-959.	0.6	612
14	Diverse stimuli engage different neutrophil extracellular trap pathways. ELife, 2017, 6, .	2.8	598
15	A Myeloperoxidase-Containing Complex Regulates Neutrophil Elastase Release and Actin Dynamics during NETosis. Cell Reports, 2014, 8, 883-896.	2.9	556
16	An Endonuclease Allows Streptococcus pneumoniae to Escape from Neutrophil Extracellular Traps. Current Biology, 2006, 16, 401-407.	1.8	502
17	Restoration of NET formation by gene therapy in CGD controls aspergillosis. Blood, 2009, 114, 2619-2622.	0.6	500
18	Gasdermin D plays a vital role in the generation of neutrophil extracellular traps. Science Immunology, 2018, 3, .	5.6	486

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19	Caspase-1 Activation of IL-1Î² and IL-18 Are Essential for Shigella flexneriâ€"Induced Inflammation. Immunity, 2000, 12, 581-590.	6.6	366
20	Shigella-induced Apoptosis Is Dependent on Caspase-1 Which Binds to IpaB. Journal of Biological Chemistry, 1998, 273, 32895-32900.	1.6	363
21	Neutrophils: New insights and open questions. Science Immunology, 2018, 3, .	5.6	348
22	Neutrophil elastase targets virulence factors of enterobacteria. Nature, 2002, 417, 91-94.	13.7	282
23	Capsule and d-alanylated lipoteichoic acids protect Streptococcus pneumoniae against neutrophil extracellular traps. Cellular Microbiology, 2007, 9, 1162-1171.	1.1	280
24	Superoxide dismutase 1 regulates caspase-1 and endotoxic shock. Nature Immunology, 2008, 9, 866-872.	7.0	273
25	IpaB mediates macrophage apoptosis induced by Shigella flexneri. Molecular Microbiology, 1994, 11, 619-627.	1.2	251
26	Neutrophil Extracellular Traps: The Biology of Chromatin Externalization. Developmental Cell, 2018, 44, 542-553.	3.1	250
27	Caspase-1-Mediated Activation of Interleukin-1Î² (IL-1Î²) and IL-18 Contributes to Innate Immune Defenses against Salmonella enterica Serovar Typhimurium Infection. Infection and Immunity, 2006, 74, 4922-4926.	1.0	236
28	The Neutrophil. Immunity, 2021, 54, 1377-1391.	6.6	222
29	Toll-Like Receptors Are Temporally Involved in Host Defense. Journal of Immunology, 2004, 172, 4463-4469.	0.4	202
30	Neutrophil Elastase Enhances Sputum Solubilization in Cystic Fibrosis Patients Receiving DNase Therapy. PLoS ONE, 2011, 6, e28526.	1.1	199
31	The Balancing Act of Neutrophils. Cell Host and Microbe, 2014, 15, 526-536.	5.1	187
32	Automatic quantification of in vitro NET formation. Frontiers in Immunology, 2012, 3, 413.	2.2	176
33	The role of neutrophil extracellular traps in rheumatic diseases. Nature Reviews Rheumatology, 2018, 14, 467-475.	3.5	175
34	How do microbes evade neutrophil killing?. Cellular Microbiology, 2006, 8, 1687-1696.	1.1	171
35	Cell-Cycle Proteins Control Production of Neutrophil Extracellular Traps. Developmental Cell, 2017, 43, 449-462.e5.	3.1	159
36	The selC-associated SHI-2 pathogenicity island of Shigella flexneri. Molecular Microbiology, 1999, 33, 74-83.	1.2	127

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37	Neutrophil phenotypes and functions in cancer: A consensus statement. Journal of Experimental Medicine, 2022, 219, .	4.2	119
38	How do neutrophils and pathogens interact?. Current Opinion in Microbiology, 2004, 7, 62-66.	2.3	113
39	Neutrophil extracellular traps drive inflammatory pathogenesis in malaria. Science Immunology, 2019, 4, .	5.6	108
40	IcsA Is a Shigella flexneri Adhesin Regulated by the Type III Secretion System and Required for Pathogenesis. Cell Host and Microbe, 2014, 15, 435-445.	5.1	88
41	The regulatory protein PhoP controls susceptibility to the host inflammatory response in Shigella flexneri. Cellular Microbiology, 2000, 2, 443-452.	1.1	87
42	The cytosolic DNA sensor cGAS recognizes neutrophil extracellular traps. Science Signaling, 2021, 14, .	1.6	87
43	Human Neutrophils Kill Bacillus anthracis. PLoS Pathogens, 2005, 1, e23.	2.1	73
44	What is the role of Toll-like receptors in bacterial infections?. Seminars in Immunology, 2007, 19, 41-47.	2.7	64
45	Fungal and Bacterial Killing by Neutrophils. Methods in Molecular Biology, 2009, 470, 293-312.	0.4	61
46	Neutrophil oxidative burst activates ATM to regulate cytokine production and apoptosis. Blood, 2015, 126, 2842-2851.	0.6	58
47	Immunodetection of NETs in Paraffin-Embedded Tissue. Frontiers in Immunology, 2016, 7, 513.	2.2	56
48	Neutrophil Extracellular Trap Formation Is Independent of De Novo Gene Expression. PLoS ONE, 2016, 11, e0157454.	1.1	56
49	Interleukin-1 Antagonist Anakinra in Amyotrophic Lateral Sclerosisâ€"A Pilot Study. PLoS ONE, 2015, 10, e0139684.	1.1	53
50	Structure-Function Analysis of the Shigella Virulence Factor IpaB. Journal of Bacteriology, 2001, 183, 1269-1276.	1.0	50
51	Molecular and Cellular Mechanisms of Tissue Invasion by Shigella flexneri. Annals of the New York Academy of Sciences, 1994, 730, 197-208.	1.8	44
52	Release of Toll-Like Receptor-2-Activating Bacterial Lipoproteins in Shigella flexneri Culture Supernatants. Infection and Immunity, 2001, 69, 6248-6255.	1.0	43
53	Copper Regulates the Canonical NLRP3 Inflammasome. Journal of Immunology, 2018, 200, 1607-1617.	0.4	40
54	The Capsule Sensitizes <i>Streptococcus pneumoniae</i> to Î±-Defensins Human Neutrophil Proteins 1 to 3. Infection and Immunity, 2008, 76, 3710-3716.	1.0	38

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55	The ShiA protein encoded by theShigella flexneriSHI-2 pathogenicity island attenuates inflammation. Cellular Microbiology, 2003, 5, 797-807.	1.1	37
56	Heparan Sulfate Modulates Neutrophil and Endothelial Function in Antibacterial Innate Immunity. Infection and Immunity, 2015, 83, 3648-3656.	1.0	30
57	Tetrahydroisoquinolines: New Inhibitors of Neutrophil Extracellular Trap (NET) Formation. ChemBioChem, 2017, 18, 888-893.	1.3	30
58	Neutrophil antimicrobial proteins enhance Shigella flexneri adhesion and invasion. Cellular Microbiology, 2010, 12, 1134-1143.	1.1	27
59	<i>Dnase1</i>â€deficient mice spontaneously develop a systemic lupus erythematosusâ€like disease. European Journal of Immunology, 2019, 49, 590-599.	1.6	27
60	ShiA Abrogates the Innate T-Cell Response to Shigella flexneri Infection. Infection and Immunity, 2006, 74, 2317-2327.	1.0	26
61	Single Residue Determines the Specificity of Neutrophil Elastase for Shigella Virulence Factors. Journal of Molecular Biology, 2008, 377, 1053-1066.	2.0	26
62	Glutamate utilization promotes meningococcal survival <i>in vivo</i> through avoidance of the neutrophil oxidative burst. Molecular Microbiology, 2011, 81, 1330-1342.	1.2	24
63	Introduction: Forum in immunology on neutrophils. Microbes and Infection, 2003, 5, 1289-1291.	1.0	20
64	The bacterial pigment pyocyanin inhibits the NLRP3 inflammasome through intracellular reactive oxygen and nitrogen species. Journal of Biological Chemistry, 2018, 293, 4893-4900.	1.6	18
65	O-Antigen Protects Gram-Negative Bacteria from Histone Killing. PLoS ONE, 2013, 8, e71097.	1.1	14
66	Linker histone H1.2 and H1.4 affect the neutrophil lineage determination. ELife, 2020, 9, .	2.8	12
67	Entering the neutrophil trap. Nature Reviews Immunology, 2021, 21, 615-615.	10.6	3
68	Response: Protecting against Aspergillus infection in CGD. Blood, 2009, 114, 3498-3498.	0.6	2
69	Apoptosis and Enteric Bacterial Infections. , 0, , 367-383.		1
70	Antimicrobial Mechanisms of Neutrophils. , 0, , 17-29.		0
71	Basic science under threat: Lessons from the Skirball Institute. Cell, 2022, 185, 755-758.	13.5	0