Douglas T Golenbock

List of Publications by Year
in descending order

85 papers	26,050 citations	28274 55 h-index	54911 84 g-index
89 all docs	89 docs citations	89 times ranked	33128 citing authors

#	Article	IF	Citations
1	Neuroinflammation in Alzheimer's disease. Lancet Neurology, The, 2015, 14, 388-405.	10.2	4,129
2	IKKÎµ and TBK1 are essential components of the IRF3 signaling pathway. Nature Immunology, 2003, 4, 491-496.	14.5	2,361
3	NLRP3 is activated in Alzheimerâ€™s disease and contributes to pathology in APP/PS1 mice. Nature, 2013, 493, 674-678.	27.8	2,063
4	The NALP3 inflammasome is involved in the innate immune response to amyloid-Î². Nature Immunology, 2008, 9, 857-865.	14.5	2,047
5	Pattern recognition receptors TLR4 and CD14 mediate response to respiratory syncytial virus. Nature Immunology, 2000, 1, 398-401.	14.5	1,482
6	LPS-TLR4 Signaling to IRF-3/7 and NF-ÎºB Involves the Toll Adapters TRAM and TRIF. Journal of Experimental Medicine, 2003, 198, 1043-1055.	8.5	1,053
7	NLRP3 inflammasome activation drives tau pathology. Nature, 2019, 575, 669-673.	27.8	782
8	CD36 coordinates NLRP3 inflammasome activation by facilitating intracellular nucleation of soluble ligands into particulate ligands in sterile inflammation. Nature Immunology, 2013, 14, 812-820.	14.5	746
9	Microglia-derived ASC specks cross-seed amyloid-Î² in Alzheimerâ€™s disease. Nature, 2017, 552, 355-361.	27.8	664
10	An unconventional role for miRNA: let-7 activates Toll-like receptor 7 and causes neurodegeneration. Nature Neuroscience, 2012, 15, 827-835.	14.8	647
11	Innate immunity in Alzheimer's disease. Nature Immunology, 2015, 16, 229-236.	14.5	619
12	Reduced atherosclerosis in MyD88-null mice links elevated serum cholesterol levels to activation of innate immunity signaling pathways. Nature Medicine, 2004, 10, 416-421.	30.7	579
13	A guiding map for inflammation. Nature Immunology, 2017, 18, 826-831.	14.5	506
14	Malaria hemozoin is immunologically inert but radically enhances innate responses by presenting malaria DNA to Toll-like receptor 9. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1919-1924.	7.1	468
15	LPS-binding proteins and receptors. Journal of Leukocyte Biology, 1998, 64, 25-32.	3.3	401
16	Lipopolysaccharide Rapidly Traffics to and from the Golgi Apparatus with the Toll-like Receptor 4-MD-2-CD14 Complex in a Process That Is Distinct from the Initiation of Signal Transduction. Journal of Biological Chemistry, 2002, 277, 47834-47843.	3.4	398
17	Monomeric and Polymeric Gram-Negative Peptidoglycan but Not Purified LPS Stimulate the Drosophila IMD Pathway. Immunity, 2004, 20, 637-649.	14.3	391
18	Endotoxin recognition and signal transduction by the TLR4/MD2-complex. Microbes and Infection, 2004, 6, 1361-1367.	1.9	355

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19	Recognition of Hyaluronan Released in Sterile Injury Involves a Unique Receptor Complex Dependent on Toll-like Receptor 4, CD44, and MD-2. Journal of Biological Chemistry, 2007, 282, 18265-18275.	3.4	345
20	Molecular Genetic Analysis of an Endotoxin Nonresponder Mutant Cell Line. Journal of Experimental Medicine, 2001, 194, 79-88.	8.5	269
21	Hemolysis-induced lethality involves inflammasome activation by heme. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4110-8.	7.1	263
22	Innate sensing of malaria parasites. Nature Reviews Immunology, 2014, 14, 744-757.	22.7	260
23	Host-cell sensors for Plasmodium activate innate immunity against liver-stage infection. Nature Medicine, 2014, 20, 47-53.	30.7	256
24	The myristoylation of TRIF-related adaptor molecule is essential for Toll-like receptor 4 signal transduction. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6299-6304.	7.1	238
25	Innate Immune Recognition of an AT-Rich Stem-Loop DNA Motif in the Plasmodium falciparum Genome. Immunity, 2011, 35, 194-207.	14.3	234
26	Lysines 128 and 132 Enable Lipopolysaccharide Binding to MD-2, Leading to Toll-like Receptor-4 Aggregation and Signal Transduction. Journal of Biological Chemistry, 2003, 278, 48313-48320.	3.4	226
27	Systemic inflammation impairs microglial AÎ² clearance through <scp>NLRP</scp> 3 inflammasome. EMBO Journal, 2019, 38, e101064.	7.8	226
28	Requirement for a conserved Toll/interleukin-1 resistance domain protein in the Caenorhabditis elegans immune response. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6593-6598.	7.1	206
29	Divergent Response to LPS and Bacteria in CD14-Deficient Murine Macrophages. Journal of Immunology, 2000, 165, 4272-4280.	0.8	205
30	Malaria primes the innate immune response due to interferon-Î³ induced enhancement of toll-like receptor expression and function. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5789-5794.	7.1	179
31	MyD88 Adapter-like (Mal)/TIRAP Interaction with TRAF6 Is Critical for TLR2- and TLR4-mediated NF-Î°B Proinflammatory Responses. Journal of Biological Chemistry, 2009, 284, 24192-24203.	3.4	172
32	Combinatorial pattern recognition receptor signaling alters the balance of life and death in macrophages. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19794-19799.	7.1	162
33	Control of the innate immune response by the mevalonate pathway. Nature Immunology, 2016, 17, 922-929.	14.5	159
34	Dual Engagement of the NLRP3 and AIM2 Inflammasomes by Plasmodium-Derived Hemozoin and DNA during Malaria. Cell Reports, 2014, 6, 196-210.	6.4	152
35	Pharmacological Inhibition of Endotoxin Responses Is Achieved by Targeting the TLR4 Coreceptor, MD-2. Journal of Immunology, 2005, 175, 6465-6472.	0.8	139
36	Malaria-Induced NLRP12/NLRP3-Dependent Caspase-1 Activation Mediates Inflammation and Hypersensitivity to Bacterial Superinfection. PLoS Pathogens, 2014, 10, e1003885.	4.7	134

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37	Cellular Activation, Phagocytosis, and Bactericidal Activity Against Group B Streptococcus Involve Parallel Myeloid Differentiation Factor 88-Dependent and Independent Signaling Pathways. Journal of Immunology, 2002, 169, 3970-3977.	0.8	130
38	Activation of the NLRP3 Inflammasome by Group B Streptococci. Journal of Immunology, 2012, 188, 1953-1960.	0.8	127
39	TLR-Independent Type I Interferon Induction in Response to an Extracellular Bacterial PathogenÂvia Intracellular Recognition of Its DNA. Cell Host and Microbe, 2008, 4, 543-554.	11.0	118
40	Group B Streptococcus Degrades Cyclic-di-AMP to Modulate STING-Dependent Type I Interferon Production. Cell Host and Microbe, 2016, 20, 49-59.	11.0	110
41	Plasmodium falciparum Infection Causes Proinflammatory Priming of Human TLR Responses. Journal of Immunology, 2007, 179, 162-171.	0.8	108
42	Therapeutical targeting of nucleic acid-sensing Toll-like receptors prevents experimental cerebral malaria. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3689-3694.	7.1	102
43	Activation of the <scp>NLRP</scp>3 inflammasome in microglia: the role of ceramide. Journal of Neurochemistry, 2017, 143, 534-550.	3.9	101
44	Cutting Edge: Plasmodium falciparum Induces Trained Innate Immunity. Journal of Immunology, 2018, 200, 1243-1248.	0.8	101
45	A Fluorescent Reporter Mouse for Inflammasome Assembly Demonstrates an Important Role for Cell-Bound and Free ASC Specks during InÂVivo Infection. Cell Reports, 2016, 16, 571-582.	6.4	99
46	Discovery of PF-06928215 as a high affinity inhibitor of cGAS enabled by a novel fluorescence polarization assay. PLoS ONE, 2017, 12, e0184843.	2.5	99
47	MyD88 Adaptor-Like Is Not Essential for TLR2 Signaling and Inhibits Signaling by TLR3. Journal of Immunology, 2009, 183, 3642-3651.	0.8	98
48	Escherichia coli isolates from inflammatory bowel diseases patients survive in macrophages and activate NLRP3 inflammasome. International Journal of Medical Microbiology, 2014, 304, 384-392.	3.6	98
49	The CD14+CD16+ Inflammatory Monocyte Subset Displays Increased Mitochondrial Activity and Effector Function During Acute Plasmodium vivax Malaria. PLoS Pathogens, 2014, 10, e1004393.	4.7	71
50	Human endogenous retrovirus HERV-K(HML-2) RNA causes neurodegeneration through Toll-like receptors. JCI Insight, 2020, 5, .	5.0	68
51	Type I Interferon Induction by Neisseria gonorrhoeae: Dual Requirement of Cyclic GMP-AMP Synthase and Toll-like Receptor 4. Cell Reports, 2016, 15, 2438-2448.	6.4	66
52	Macrophages recognize streptococci through bacterial singleâ€stranded RNA. EMBO Reports, 2011, 12, 71-76.	4.5	65
53	The Role of Lipopolysaccharide Binding Protein in Resistance toSalmonellaInfections in Mice. Journal of Immunology, 2002, 168, 6396-6403.	0.8	63
54	A TIR Domain Variant of MyD88 Adapter-like (Mal)/TIRAP Results in Loss of MyD88 Binding and Reduced TLR2/TLR4 Signaling. Journal of Biological Chemistry, 2009, 284, 25742-25748.	3.4	62

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55	RNA and Î²-Hemolysin of Group B Streptococcus Induce Interleukin-1Î² (IL-1Î²) by Activating NLRP3 Inflammasomes in Mouse Macrophages. Journal of Biological Chemistry, 2014, 289, 13701-13705.	3.4	62
56	MyD88-dependent activation of dendritic cells and CD4+ T lymphocytes mediates symptoms, but is not required for the immunological control of parasites during rodent malaria. Microbes and Infection, 2007, 9, 881-890.	1.9	60
57	Cyclic GMPâ€“AMP Synthase Is the Cytosolic Sensor of Plasmodium falciparum Genomic DNA and Activates Type I IFN in Malaria. Journal of Immunology, 2018, 200, 768-774.	0.8	50
58	The Abi-domain Protein Abx1 Interacts with the CovS Histidine Kinase to Control Virulence Gene Expression in Group B Streptococcus. PLoS Pathogens, 2013, 9, e1003179.	4.7	47
59	miR-718 represses proinflammatory cytokine production through targeting phosphatase and tensin homolog (PTEN). Journal of Biological Chemistry, 2017, 292, 5634-5644.	3.4	43
60	Metalloproteinase-Dependent TLR2 Ectodomain Shedding is Involved in Soluble Toll-Like Receptor 2 (sTLR2) Production. PLoS ONE, 2014, 9, e104624.	2.5	42
61	Inflammasome-derived cytokine IL18 suppresses amyloid-induced seizures in Alzheimer-prone mice. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9002-9007.	7.1	41
62	Platelet-activating factor (PAF) mediates NLRP3-NEK7 inflammasome induction independently of PAFR. Journal of Experimental Medicine, 2019, 216, 2838-2853.	8.5	41
63	The immunology of Plasmodium vivax malaria. Immunological Reviews, 2020, 293, 163-189.	6.0	38
64	DNA-Containing Immunocomplexes Promote Inflammasome Assembly and Release of Pyrogenic Cytokines by CD14 ⁺ CD16 ⁺ CD64 ^{high} CD32 ^{low} Inflammatory Monocytes from Malaria Patients. MBio, 2015, 6, e01605-15.	4.1	37
65	Targeting the IL33â€“NLRP3 axis improves therapy for experimental cerebral malaria. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7404-7409.	7.1	37
66	Extolling the diversity of bacterial endotoxins. Nature Immunology, 2001, 2, 286-288.	14.5	36
67	A Novel Factor Hâ€“Fc Chimeric Immunotherapeutic Molecule against Neisseria gonorrhoeae. Journal of Immunology, 2016, 196, 1732-1740.	0.8	35
68	Engagement of the Lewis X Antigen (CD15) Results in Monocyte Activation. Blood, 1997, 89, 307-314.	1.4	33
69	A Common Variant in the Adaptor Mal Regulates Interferon Gamma Signaling. Immunity, 2016, 44, 368-379.	14.3	30
70	The Differential Impact of Disulfide Bonds and N-Linked Glycosylation on the Stability and Function of CD14. Journal of Biological Chemistry, 2008, 283, 3376-3384.	3.4	28
71	The TLR4 adaptor TRAM controls the phagocytosis of Gram-negative bacteria by interacting with the Rab11-family interacting protein 2. PLoS Pathogens, 2019, 15, e1007684.	4.7	28
72	3-Hydroxyl-3-methylglutaryl Coenzyme A (HMG-CoA) Reductase Inhibitor (Statin)-induced 28-kDa Interleukin-1Î² Interferes with Mature IL-1Î² Signaling. Journal of Biological Chemistry, 2014, 289, 16214-16222.	3.4	27

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73	TIRAP: how Toll receptors fraternize. Nature Immunology, 2001, 2, 828-830.	14.5	26
74	Involvement of Nod2 in the innate immune response elicited by malarial pigment hemozoin. Microbes and Infection, 2015, 17, 184-194.	1.9	20
75	IMMUNOLOGY: The Shape of Things to Come. Science, 2007, 316, 1574-1576.	12.6	18
76	LXR Agonism Upregulates the Macrophage ABCA1/Syntrophin Protein Complex That Can Bind ApoA-I and Stabilized ABCA1 Protein, but Complex Loss Does Not Inhibit Lipid Efflux. Biochemistry, 2015, 54, 6931-6941.	2.5	16
77	Caspase-8 mediates inflammation and disease in rodent malaria. Nature Communications, 2020, 11, 4596.	12.8	11
78	Clostridioides difficile Toxin A Remodels Membranes and Mediates DNA Entry Into Cells to Activate Toll-Like Receptor 9 Signaling. Gastroenterology, 2020, 159, 2181-2192.e1.	1.3	11
79	Lymphocyte crosstalk is required for monocyte-intrinsic trained immunity to Plasmodium falciparum. Journal of Clinical Investigation, 2022, 132, .	8.2	11
80	CXCR3 chemokine receptor contributes to specific CD8+ÂT cell activation by pDC during infection with intracellular pathogens. PLoS Neglected Tropical Diseases, 2020, 14, e0008414.	3.0	9
81	Recurrent respiratory syncytial virus infection in a CD14 deficient patient. Journal of Infectious Diseases, 2022, , .	4.0	5
82	The Single Nucleotide Polymorphism Mal-D96N Mice Provide New Insights into Functionality of Mal in TLR Immune Responses. Journal of Immunology, 2019, 202, 2384-2396.	0.8	2
83	Introduction: Toll receptors come of age. Microbes and Infection, 2004, 6, 1349-1350.	1.9	0
84	Innate immune activation of the NLRP3 inflammasome pathway drives tau pathology. Alzheimer's and Dementia, 2020, 16, e039815.	0.8	0
85	Toll-Like Receptors. , 0, , 107-122.		0