David Michael Underhill

List of Publications by Citations

75 papers	18,654 citations	45 h-index	136 g-index
138 ext. papers	21,088 ext. citations	16.5 avg, IF	6.85 L-index

#	Paper	IF	Citations
75	The innate immune response to bacterial flagellin is mediated by Toll-like receptor 5. *Nature*, **2001**, 410, 1099-103	50.4	2763
74	Mechanisms of phagocytosis in macrophages. *Annual Review of Immunology*, **1999**, 17, 593-623	34.7	2028
73	Collaborative induction of inflammatory responses by dectin-1 and Toll-like receptor 2. *Journal of Experimental Medicine*, **2003**, 197, 1107-17	16.6	1285
72	Oxidized mitochondrial DNA activates the NLRP3 inflammasome during apoptosis. *Immunity*, **2012**, 36, 401-14	32.3	1223
71	The Toll-like receptor 2 is recruited to macrophage phagosomes and discriminates between pathogens. *Nature*, **1999**, 401, 811-5	50.4	1185
70	Phagocytosis of microbes: complexity in action. *Annual Review of Immunology*, **2002**, 20, 825-52	34.7	836
69	Interactions between commensal fungi and the C-type lectin receptor Dectin-1 influence colitis. *Science*, **2012**, 336, 1314-7	33.3	708
68	Toll-like receptors: key mediators of microbe detection. *Current Opinion in Immunology*, **2002**, 14, 103-107.8		555
67	Activation of the innate immune receptor Dectin-1 upon formation of a ϕphagocytic synapseV *Nature*, **2011**, 472, 471-5	50.4	549
66	Leptospiral lipopolysaccharide activates cells through a TLR2-dependent mechanism. *Nature Immunology*, **2001**, 2, 346-52	19.1	545
65	Dectin-1 mediates macrophage recognition of Candida albicans yeast but not filaments. *EMBO Journal*, **2005**, 24, 1277-86	13	500
64	Beta-glucan recognition by the innate immune system. *Immunological Reviews*, **2009**, 230, 38-50	11.3	419
63	The mycobiota: interactions between commensal fungi and the host immune system. *Nature Reviews Immunology*, **2014**, 14, 405-16	36.5	397
62	Dectin-1 activates Syk tyrosine kinase in a dynamic subset of macrophages for reactive oxygen production. *Blood*, **2005**, 106, 2543-50	2.2	385
61	Information processing during phagocytosis. *Nature Reviews Immunology*, **2012**, 12, 492-502	36.5	359
60	Dectin-2 is a pattern recognition receptor for fungi that couples with the Fc receptor gamma chain to induce innate immune responses. *Journal of Biological Chemistry*, **2006**, 281, 38854-66	5.4	325
59	Dectin-1 and TLRs permit macrophages to distinguish between different Aspergillus fumigatus cellular states. *Journal of Immunology*, **2006**, 176, 3717-24	5.3	282

58	Dectin-1 stimulation by Candida albicans yeast or zymosan triggers NFAT activation in macrophages and dendritic cells. *Journal of Immunology*, **2007**, 178, 3107-15	5.3	279
57	Hexokinase Is an Innate Immune Receptor for the Detection of Bacterial Peptidoglycan. *Cell*, **2016**, 166, 624-636	56.2	276
56	Immunological Consequences of Intestinal Fungal Dysbiosis. *Cell Host and Microbe*, **2016**, 19, 865-73	23.4	241
55	Dynamin 2 is required for phagocytosis in macrophages. *Journal of Experimental Medicine*, **1999**, 190, 1849-56	16.6	229
54	Integration of Toll-like receptor and phagocytic signaling for tailored immunity. *Microbes and Infection*, **2004**, 6, 1368-73	9.3	224
53	Staphylococcus aureus evades lysozyme-based peptidoglycan digestion that links phagocytosis, inflammasome activation, and IL-1beta secretion. *Cell Host and Microbe*, **2010**, 7, 38-49	23.4	200
52	Toll-like receptors: networking for success. *European Journal of Immunology*, **2003**, 33, 1767-75	6.1	196
51	Peptidoglycan recognition by the innate immune system. *Nature Reviews Immunology*, **2018**, 18, 243-254	36.5	168
50	Commensal Fungi in Health and Disease. *Cell Host and Microbe*, **2017**, 22, 156-165	23.4	164
49	Dectin-1-triggered recruitment of light chain 3 protein to phagosomes facilitates major histocompatibility complex class II presentation of fungal-derived antigens. *Journal of Biological Chemistry*, **2012**, 287, 34149-56	5.4	164
48	Differential use of CARD9 by dectin-1 in macrophages and dendritic cells. *Journal of Immunology*, **2009**, 182, 1146-54	5.3	150
47	Malassezia Is Associated with Crohn\x{2019}s Disease and Exacerbates Colitis in Mouse Models. *Cell Host and Microbe*, **2019**, 25, 377-388.e6	23.4	144
46	The many faces of ITAMs. *Trends in Immunology*, **2007**, 28, 66-73	14.4	144
45	Collaboration between the innate immune receptors dectin-1, TLRs, and Nods. *Immunological Reviews*, **2007**, 219, 75-87	11.3	132
44	Dynamic interactions of macrophages with T cells during antigen presentation. *Journal of Experimental Medicine*, **1999**, 190, 1909-14	16.6	113
43	Mycobiome: Approaches to analysis of intestinal fungi. *Journal of Immunological Methods*, **2015**, 421, 112-121	2.5	106
42	Macrophage recognition of zymosan particles. *Journal of Endotoxin Research*, **2003**, 9, 176-80		101
41	Immune Interactions with Pathogenic and Commensal Fungi: A Two-Way Street. *Immunity*, **2015**, 43, 845-58	32.3	92

40	Mechanisms of Fc receptor and dectin-1 activation for phagocytosis. *Traffic*, **2012**, 13, 1062-71	5.7	89
39	Characterization of Bacterial and Fungal Microbiome in Children with Hirschsprung Disease with and without a History of Enterocolitis: A Multicenter Study. *PLoS ONE*, **2015**, 10, e0124172	3.7	80
38	Translocation of Viable Gut Microbiota to Mesenteric Adipose Drives Formation of Creeping Fat in Humans. *Cell*, **2020**, 183, 666-683.e17	56.2	74
37	Phagosomal degradation increases TLR access to bacterial ligands and enhances macrophage sensitivity to bacteria. *Journal of Immunology*, **2011**, 187, 6002-10	5.3	61
36	Immunity to Commensal Fungi: Detente and Disease. *Annual Review of Pathology: Mechanisms of Disease*, **2017**, 12, 359-385	34	59
35	Cutting edge: FYCO1 recruitment to dectin-1 phagosomes is accelerated by light chain 3 protein and regulates phagosome maturation and reactive oxygen production. *Journal of Immunology*, **2014**, 192, 1356-60	5.3	58
34	Toll-like receptors and microbes take aim at each other. *Current Opinion in Immunology*, **2004**, 16, 483-7	7.8	55
33	Expansion of commensal fungus Wallemia mellicola in the gastrointestinal mycobiota enhances the severity of allergic airway disease in mice. *PLoS Pathogens*, **2018**, 14, e1007260	7.6	48
32	The mycobiome of the human urinary tract: potential roles for fungi in urology. *Annals of Translational Medicine*, **2017**, 5, 31	3.2	46
31	Striking a balance: fungal commensalism versus pathogenesis. *Current Opinion in Microbiology*, **2013**, 16, 366-73	7.9	45
30	Group B Streptococcus Evades Host Immunity by Degrading Hyaluronan. *Cell Host and Microbe*, **2015**, 18, 694-704	23.4	42
29	is enriched in Crohn\x8 disease intestinal tissue and impairs healing in mice. *Science*, **2021**, 371, 1154-1159	33.3	42
28	Poorly Cross-Linked Peptidoglycan in MRSA Due to mecA Induction Activates the Inflammasome and Exacerbates Immunopathology. *Cell Host and Microbe*, **2015**, 18, 604-12	23.4	40
27	le Metchnikoff (1845-1916): celebrating 100 years of cellular immunology and beyond. *Nature Reviews Immunology*, **2016**, 16, 651-6	36.5	38
26	Myeloid ATG16L1 Facilitates Host-Bacteria Interactions in Maintaining Intestinal Homeostasis. *Journal of Immunology*, **2017**, 198, 2133-2146	5.3	36
25	Host-microbe interactions: commensal fungi in the gut. *Current Opinion in Microbiology*, **2017**, 40, 131-137	7.9	36
24	Direct Antimicrobial Activity of IFN- *Journal of Immunology*, **2017**, 198, 4036-4045	5.3	34
23	Failure to induce IFN- production during Staphylococcus aureus infection contributes to pathogenicity. *Journal of Immunology*, **2012**, 189, 4537-45	5.3	33

22	Commensal bacteria and fungi differentially regulate tumor responses to radiation therapy. *Cancer Cell*, **2021**, 39, 1202-1213.e6	24.3	27
21	Autocrine Type I IFN Signaling in Dendritic Cells Stimulated with Fungal Glucans or Lipopolysaccharide Promotes CD8 T Cell Activation. *Journal of Immunology*, **2017**, 198, 375-382	5.3	20
20	Glucan signaling connects phagocytosis to autophagy. *Glycobiology*, **2013**, 23, 1047-51	5.8	20
19	Persistent Microvascular Obstruction After Myocardial Infarction Culminates in the Confluence of Ferric Iron Oxide Crystals, Proinflammatory Burden, and Adverse Remodeling. *Circulation: Cardiovascular Imaging*, **2016**, 9,	3.9	19
18	Optimization of DNA extraction from human urinary samples for mycobiome community profiling. *PLoS ONE*, **2019**, 14, e0210306	3.7	16
17	Phagosome maturation: steady as she goes. *Immunity*, **2005**, 23, 343-4	32.3	15
16	Current understanding of fungal microflora in inflammatory bowel disease pathogenesis. *Inflammatory Bowel Diseases*, **2008**, 14, 1147-53	4.5	13
15	Batf3 deficiency is not critical for the generation of CD8 dendritic cells. *Immunobiology*, **2015**, 220, 518-24	3.4	12
14	Inflammatory properties of antibiotic-treated bacteria. *Journal of Leukocyte Biology*, **2017**, 101, 127-134	6.5	12
13	The Toll-like receptor 2 is recruited to macrophage phagosomes and discriminates between pathogens. *Nature*, **1999**, 402, 39-43	50.4	8
12	Cryptococcal meningitis in a daily cannabis smoker without evidence of immunodeficiency. *BMJ Case Reports*, **2018**, 2018,	0.9	8
11	Harnessing antifungal immunity in pursuit of a Staphylococcus aureus vaccine strategy. *PLoS Pathogens*, **2020**, 16, e1008733	7.6	7
10	Mucosal immune responses to fungi and the implications for inflammatory bowel disease. *Current Opinion in Gastroenterology*, **2018**, 34, 398-403	3	7
9	Malassezia spp. induce inflammatory cytokines and activate NLRP3 inflammasomes in phagocytes. *Journal of Leukocyte Biology*, **2021**, 109, 161-172	6.5	6
8	C-Type Lectin Receptors in Phagocytosis. *Current Topics in Microbiology and Immunology*, **2020**, 429, 1-18	3.3	5
7	Time to cast a larger net. *Nature Immunology*, **2014**, 15, 1000-1	19.1	5
6	Phagocytosis **2014**, 91-109		2
5	Early Gut Fungal and Bacterial Microbiota and Childhood Growth. *Frontiers in Pediatrics*, **2020**, 8, 572538	3.4	2

4	Frontline Science: Antibiotic treatment routes Mycobacterium avium to phagolysosomes without triggering proinflammatory cytokine production in human M?s. *Journal of Leukocyte Biology*, **2021**, 109, 23-33	6.5	1
3	Candida-induced asthma steps up to the plate-lets. *Immunity*, **2021**, 54, 2442-2444	32.3	0
2	4196 MICROBIAL COMPOSITION DEFINES PELVIC PAIN PHENOTYPES IN REPRODUCTIVE-AGE WOMEN. *Journal of Clinical and Translational Science*, **2020**, 4, 12-13	0.4	
1	Pathogen size alters C-type lectin receptor signaling in dendritic cells to influence CD4 Th9 cell differentiation.. *Cell Reports*, **2022**, 38, 110567	10.6	