

David Michael Underhill

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

23,033
citations

34105

52
h-index

71685

76
g-index

138
all docs

138
docs citations

138
times ranked

25774
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | The innate immune response to bacterial flagellin is mediated by Toll-like receptor 5. <i>Nature</i> , 2001, 410, 1099-1103. | 27.8 | 3,186 |
| 2 | MECHANISMS OF PHAGOCYTOSIS IN MACROPHAGES. <i>Annual Review of Immunology</i> , 1999, 17, 593-623. | 21.8 | 2,366 |
| 3 | Oxidized Mitochondrial DNA Activates the NLRP3 Inflammasome during Apoptosis. <i>Immunity</i> , 2012, 36, 401-414. | 14.3 | 1,618 |
| 4 | Collaborative Induction of Inflammatory Responses by Dectin-1 and Toll-like Receptor 2. <i>Journal of Experimental Medicine</i> , 2003, 197, 1107-1117. | 8.5 | 1,447 |
| 5 | The Toll-like receptor 2 is recruited to macrophage phagosomes and discriminates between pathogens. <i>Nature</i> , 1999, 401, 811-815. | 27.8 | 1,295 |
| 6 | Phagocytosis of Microbes: Complexity in Action. <i>Annual Review of Immunology</i> , 2002, 20, 825-852. | 21.8 | 954 |
| 7 | Interactions Between Commensal Fungi and the C-Type Lectin Receptor Dectin-1 Influence Colitis. <i>Science</i> , 2012, 336, 1314-1317. | 12.6 | 886 |
| 8 | Activation of the innate immune receptor Dectin-1 upon formation of a "phagocytic synapse". <i>Nature</i> , 2011, 472, 471-475. | 27.8 | 703 |
| 9 | Leptospiral lipopolysaccharide activates cells through a TLR2-dependent mechanism. <i>Nature Immunology</i> , 2001, 2, 346-352. | 14.5 | 637 |
| 10 | Toll-like receptors: key mediators of microbe detection. <i>Current Opinion in Immunology</i> , 2002, 14, 103-110. | 5.5 | 632 |
| 11 | Dectin-1 mediates macrophage recognition of <i>Candida albicans</i> yeast but not filaments. <i>EMBO Journal</i> , 2005, 24, 1277-1286. | 7.8 | 573 |
| 12 | Î²-D-glucan recognition by the innate immune system. <i>Immunological Reviews</i> , 2009, 230, 38-50. | 6.0 | 532 |
| 13 | The mycobiota: interactions between commensal fungi and the host immune system. <i>Nature Reviews Immunology</i> , 2014, 14, 405-416. | 22.7 | 525 |
| 14 | Information processing during phagocytosis. <i>Nature Reviews Immunology</i> , 2012, 12, 492-502. | 22.7 | 463 |
| 15 | Dectin-1 activates Syk tyrosine kinase in a dynamic subset of macrophages for reactive oxygen production. <i>Blood</i> , 2005, 106, 2543-2550. | 1.4 | 446 |
| 16 | Hexokinase Is an Innate Immune Receptor for the Detection of Bacterial Peptidoglycan. <i>Cell</i> , 2016, 166, 624-636. | 28.9 | 401 |
| 17 | Dectin-2 Is a Pattern Recognition Receptor for Fungi That Couples with the Fc Receptor Î³3 Chain to Induce Innate Immune Responses. <i>Journal of Biological Chemistry</i> , 2006, 281, 38854-38866. | 3.4 | 381 |
| 18 | Dectin-1 Stimulation by <i>Candida albicans</i> Yeast or Zymosan Triggers NFAT Activation in Macrophages and Dendritic Cells. <i>Journal of Immunology</i> , 2007, 178, 3107-3115. | 0.8 | 330 |

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|----|---|------|-----------|
| 19 | Immunological Consequences of Intestinal Fungal Dysbiosis. <i>Cell Host and Microbe</i> , 2016, 19, 865-873. | 11.0 | 329 |
| 20 | Dectin-1 and TLRs Permit Macrophages to Distinguish between Different <i>Aspergillus fumigatus</i> Cellular States. <i>Journal of Immunology</i> , 2006, 176, 3717-3724. | 0.8 | 305 |
| 21 | Peptidoglycan recognition by the innate immune system. <i>Nature Reviews Immunology</i> , 2018, 18, 243-254. | 22.7 | 297 |
| 22 | Malassezia Is Associated with Crohn's Disease and Exacerbates Colitis in Mouse Models. <i>Cell Host and Microbe</i> , 2019, 25, 377-388.e6. | 11.0 | 283 |
| 23 | Commensal Fungi in Health and Disease. <i>Cell Host and Microbe</i> , 2017, 22, 156-165. | 11.0 | 258 |
| 24 | Dynamin 2 Is Required for Phagocytosis in Macrophages. <i>Journal of Experimental Medicine</i> , 1999, 190, 1849-1856. | 8.5 | 252 |
| 25 | Integration of Toll-like receptor and phagocytic signaling for tailored immunity. <i>Microbes and Infection</i> , 2004, 6, 1368-1373. | 1.9 | 240 |
| 26 | Staphylococcus aureus Evades Lysozyme-Based Peptidoglycan Digestion that Links Phagocytosis, Inflammasome Activation, and IL-1 β Secretion. <i>Cell Host and Microbe</i> , 2010, 7, 38-49. | 11.0 | 239 |
| 27 | Mini-review Toll-like receptors: networking for success. <i>European Journal of Immunology</i> , 2003, 33, 1767-1775. | 2.9 | 216 |
| 28 | Translocation of Viable Gut Microbiota to Mesenteric Adipose Drives Formation of Creeping Fat in Humans. <i>Cell</i> , 2020, 183, 666-683.e17. | 28.9 | 211 |
| 29 | Dectin-1-triggered Recruitment of Light Chain 3 Protein to Phagosomes Facilitates Major Histocompatibility Complex Class II Presentation of Fungal-derived Antigens. <i>Journal of Biological Chemistry</i> , 2012, 287, 34149-34156. | 3.4 | 187 |
| 30 | Differential Use of CARD9 by Dectin-1 in Macrophages and Dendritic Cells. <i>Journal of Immunology</i> , 2009, 182, 1146-1154. | 0.8 | 170 |
| 31 | Collaboration between the innate immune receptors dectin-1, TLRs, and Nods. <i>Immunological Reviews</i> , 2007, 219, 75-87. | 6.0 | 163 |
| 32 | The many faces of ITAMs. <i>Trends in Immunology</i> , 2007, 28, 66-73. | 6.8 | 161 |
| 33 | Mycobiome: Approaches to analysis of intestinal fungi. <i>Journal of Immunological Methods</i> , 2015, 421, 112-121. | 1.4 | 145 |
| 34 | Dynamic Interactions of Macrophages with T Cells during Antigen Presentation. <i>Journal of Experimental Medicine</i> , 1999, 190, 1909-1914. | 8.5 | 128 |
| 35 | <i>Debaryomyces</i> is enriched in Crohn's disease intestinal tissue and impairs healing in mice. <i>Science</i> , 2021, 371, 1154-1159. | 12.6 | 126 |
| 36 | Commensal bacteria and fungi differentially regulate tumor responses to radiation therapy. <i>Cancer Cell</i> , 2021, 39, 1202-1213.e6. | 16.8 | 124 |

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|----|--|------|-----------|
| 37 | Mechanisms of Fc Receptor and Dectin-1 Activation for Phagocytosis. <i>Traffic</i> , 2012, 13, 1062-1071. | 2.7 | 119 |
| 38 | Characterization of Bacterial and Fungal Microbiome in Children with Hirschsprung Disease with and without a History of Enterocolitis: A Multicenter Study. <i>PLoS ONE</i> , 2015, 10, e0124172. | 2.5 | 118 |
| 39 | Immune Interactions with Pathogenic and Commensal Fungi: A Two-Way Street. <i>Immunity</i> , 2015, 43, 845-858. | 14.3 | 117 |
| 40 | Macrophage recognition of zymosan particles. <i>Journal of Endotoxin Research</i> , 2003, 9, 176-180. | 2.5 | 113 |
| 41 | Immunity to Commensal Fungi: Detente and Disease. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2017, 12, 359-385. | 22.4 | 88 |
| 42 | Expansion of commensal fungus <i>Wallemia mellicola</i> in the gastrointestinal mycobiota enhances the severity of allergic airway disease in mice. <i>PLoS Pathogens</i> , 2018, 14, e1007260. | 4.7 | 76 |
| 43 | Phagosomal Degradation Increases TLR Access to Bacterial Ligands and Enhances Macrophage Sensitivity to Bacteria. <i>Journal of Immunology</i> , 2011, 187, 6002-6010. | 0.8 | 71 |
| 44 | The mycobiome of the human urinary tract: potential roles for fungi in urology. <i>Annals of Translational Medicine</i> , 2017, 5, 31-31. | 1.7 | 68 |
| 45 | Group B Streptococcus Evades Host Immunity by Degrading Hyaluronan. <i>Cell Host and Microbe</i> , 2015, 18, 694-704. | 11.0 | 66 |
| 46 | Toll-like receptors and microbes take aim at each other. <i>Current Opinion in Immunology</i> , 2004, 16, 483-487. | 5.5 | 63 |
| 47 | Cutting Edge: FYCO1 Recruitment to Dectin-1 Phagosomes Is Accelerated by Light Chain 3 Protein and Regulates Phagosome Maturation and Reactive Oxygen Production. <i>Journal of Immunology</i> , 2014, 192, 1356-1360. | 0.8 | 63 |
| 48 | Host-microbe interactions: commensal fungi in the gut. <i>Current Opinion in Microbiology</i> , 2017, 40, 131-137. | 5.1 | 62 |
| 49 | Striking a balance: fungal commensalism versus pathogenesis. <i>Current Opinion in Microbiology</i> , 2013, 16, 366-373. | 5.1 | 59 |
| 50 | Poorly Cross-Linked Peptidoglycan in MRSA Due to <i>mecA</i> Induction Activates the Inflammasome and Exacerbates Immunopathology. <i>Cell Host and Microbe</i> , 2015, 18, 604-612. | 11.0 | 58 |
| 51 | Myeloid ATG16L1 Facilitates Host-Bacteria Interactions in Maintaining Intestinal Homeostasis. <i>Journal of Immunology</i> , 2017, 198, 2133-2146. | 0.8 | 56 |
| 52 | Élie Metchnikoff (1845-1916): celebrating 100 years of cellular immunology and beyond. <i>Nature Reviews Immunology</i> , 2016, 16, 651-656. | 22.7 | 55 |
| 53 | Direct Antimicrobial Activity of IFN- γ . <i>Journal of Immunology</i> , 2017, 198, 4036-4045. | 0.8 | 48 |
| 54 | Persistent Microvascular Obstruction After Myocardial Infarction Culminates in the Confluence of Ferric Iron Oxide Crystals, Proinflammatory Burden, and Adverse Remodeling. <i>Circulation: Cardiovascular Imaging</i> , 2016, 9, . | 2.6 | 44 |

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|----|--|------|-----------|
| 55 | Failure To Induce IFN- γ Production during <i>Staphylococcus aureus</i> Infection Contributes to Pathogenicity. <i>Journal of Immunology</i> , 2012, 189, 4537-4545. | 0.8 | 40 |
| 56 | Fungal microbiome in inflammatory bowel disease: a critical assessment. <i>Journal of Clinical Investigation</i> , 2022, 132, . | 8.2 | 35 |
| 57 | Autocrine Type I IFN Signaling in Dendritic Cells Stimulated with Fungal β -Glucans or Lipopolysaccharide Promotes CD8 T Cell Activation. <i>Journal of Immunology</i> , 2017, 198, 375-382. | 0.8 | 29 |
| 58 | Optimization of DNA extraction from human urinary samples for mycobiome community profiling. <i>PLoS ONE</i> , 2019, 14, e0210306. | 2.5 | 25 |
| 59 | Non-protective immune imprint underlies failure of <i>Staphylococcus aureus</i> IsdB vaccine. <i>Cell Host and Microbe</i> , 2022, 30, 1163-1172.e6. | 11.0 | 24 |
| 60 | Inflammatory properties of antibiotic-treated bacteria. <i>Journal of Leukocyte Biology</i> , 2017, 101, 127-134. | 3.3 | 23 |
| 61 | β -glucan signaling connects phagocytosis to autophagy. <i>Glycobiology</i> , 2013, 23, 1047-1051. | 2.5 | 21 |
| 62 | <i>Malassezia</i> spp. induce inflammatory cytokines and activate NLRP3 inflammasomes in phagocytes. <i>Journal of Leukocyte Biology</i> , 2021, 109, 161-172. | 3.3 | 21 |
| 63 | Phagosome Maturation: Steady as She Goes. <i>Immunity</i> , 2005, 23, 343-344. | 14.3 | 19 |
| 64 | Batf3 deficiency is not critical for the generation of CD8 $\alpha\alpha$ dendritic cells. <i>Immunobiology</i> , 2015, 220, 518-524. | 1.9 | 18 |
| 65 | Current understanding of fungal microflora in inflammatory bowel disease pathogenesis. <i>Inflammatory Bowel Diseases</i> , 2008, 14, 1147-1153. | 1.9 | 17 |
| 66 | C-Type Lectin Receptors in Phagocytosis. <i>Current Topics in Microbiology and Immunology</i> , 2020, 429, 1-18. | 1.1 | 15 |
| 67 | Cryptococcal meningitis in a daily cannabis smoker without evidence of immunodeficiency. <i>BMJ Case Reports</i> , 2018, 2018, bcr-2017-221435. | 0.5 | 14 |
| 68 | Early Gut Fungal and Bacterial Microbiota and Childhood Growth. <i>Frontiers in Pediatrics</i> , 2020, 8, 572538. | 1.9 | 13 |
| 69 | Harnessing antifungal immunity in pursuit of a <i>Staphylococcus aureus</i> vaccine strategy. <i>PLoS Pathogens</i> , 2020, 16, e1008733. | 4.7 | 10 |
| 70 | The Toll-like receptor 2 is recruited to macrophage phagosomes and discriminates between pathogens. <i>Nature</i> , 1999, 402, 39-43. | 27.8 | 9 |
| 71 | Mucosal immune responses to fungi and the implications for inflammatory bowel disease. <i>Current Opinion in Gastroenterology</i> , 2018, 34, 398-403. | 2.3 | 7 |
| 72 | Time to cast a larger net. <i>Nature Immunology</i> , 2014, 15, 1000-1001. | 14.5 | 5 |

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|----|--|------|-----------|
| 73 | Frontline Science: Antibiotic treatment routes <i>Mycobacterium avium</i> to phagolysosomes without triggering proinflammatory cytokine production in human Mφs. <i>Journal of Leukocyte Biology</i> , 2021, 109, 23-33. | 3.3 | 4 |
| 74 | Phagocytosis. , 2014, , 91-109. | | 3 |
| 75 | Unsupervised Machine Learning Approaches Reveal Distinct Phenotypes of Perceived Bladder Pain: A Pilot Study. <i>Frontiers in Pain Research</i> , 2021, 2, . | 2.0 | 2 |
| 76 | Candida-induced asthma steps up to the plate-lets. <i>Immunity</i> , 2021, 54, 2442-2444. | 14.3 | 1 |
| 77 | Pathogen size alters C-type lectin receptor signaling in dendritic cells to influence CD4 Th9 cell differentiation. <i>Cell Reports</i> , 2022, 38, 110567. | 6.4 | 1 |
| 78 | 4196 MICROBIAL COMPOSITION DEFINES PELVIC PAIN PHENOTYPES IN REPRODUCTIVE-AGE WOMEN. <i>Journal of Clinical and Translational Science</i> , 2020, 4, 12-13. | 0.6 | 0 |