

# Jordi B Torrelles

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

3,558  
citations

172457

29  
h-index

155660

55  
g-index

73  
all docs

73  
docs citations

73  
times ranked

5099  
citing authors

#	ARTICLE	IF	CITATIONS
1	The human macrophage mannose receptor directs <i>Mycobacterium tuberculosis</i> lipoarabinomannan-mediated phagosome biogenesis. <i>Journal of Experimental Medicine</i> , 2005, 202, 987-999.	8.5	457
2	Lethality of SARS-CoV-2 infection in K18 human angiotensin-converting enzyme 2 transgenic mice. <i>Nature Communications</i> , 2020, 11, 6122.	12.8	304
3	<i>Mycobacterium tuberculosis</i> lipomannan blocks TNF biosynthesis by regulating macrophage MAPK-activated protein kinase 2 (MK2) and microRNA miR-125b. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17408-17413.	7.1	255
4	Fine Discrimination in the Recognition of Individual Species of Phosphatidyl-myo-Inositol Mannosides from <i>Mycobacterium tuberculosis</i> by C-Type Lectin Pattern Recognition Receptors. <i>Journal of Immunology</i> , 2006, 177, 1805-1816.	0.8	173
5	Responses to acute infection with SARS-CoV-2 in the lungs of rhesus macaques, baboons and marmosets. <i>Nature Microbiology</i> , 2021, 6, 73-86.	13.3	156
6	Diversity in <i>Mycobacterium tuberculosis</i> mannosylated cell wall determinants impacts adaptation to the host. <i>Tuberculosis</i> , 2010, 90, 84-93.	1.9	127
7	Immune Responses to Bacillus Calmette-Guérin Vaccination: Why Do They Fail to Protect against <i>Mycobacterium tuberculosis</i> ?. <i>Frontiers in Immunology</i> , 2017, 8, 407.	4.8	116
8	Integrating Lung Physiology, Immunology, and Tuberculosis. <i>Trends in Microbiology</i> , 2017, 25, 688-697.	7.7	104
9	Evolution of Drug-Resistant <i>Mycobacterium tuberculosis</i> Strains and Their Adaptation to the Human Lung Environment. <i>Frontiers in Microbiology</i> , 2021, 12, 612675.	3.5	103
10	Contribution of SARS-CoV-2 Accessory Proteins to Viral Pathogenicity in K18 Human ACE2 Transgenic Mice. <i>Journal of Virology</i> , 2021, 95, e0040221.	3.4	97
11	Molecular composition of the alveolar lining fluid in the aging lung. <i>Age</i> , 2014, 36, 9633.	3.0	94
12	<i>Mycobacterium tuberculosis</i> carrying a rifampicin drug resistance mutation reprograms macrophage metabolism through cell wall lipid changes. <i>Nature Microbiology</i> , 2018, 3, 1099-1108.	13.3	90
13	Sequential ubiquitination of NLRP3 by RNF125 and Cbl-b limits inflammasome activation and endotoxemia. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	90
14	Characterization of lung inflammation and its impact on macrophage function in aging. <i>Journal of Leukocyte Biology</i> , 2014, 96, 473-480.	3.3	87
15	The K18-Human ACE2 Transgenic Mouse Model Recapitulates Non-severe and Severe COVID-19 in Response to an Infectious Dose of the SARS-CoV-2 Virus. <i>Journal of Virology</i> , 2022, 96, JVI0096421.	3.4	84
16	Prospects in <i>Mycobacterium bovis</i> Bacille Calmette et Guérin (BCG) vaccine diversity and delivery: Why does BCG fail to protect against tuberculosis?. <i>Vaccine</i> , 2015, 33, 5035-5041.	3.8	75
17	Human Lung Hydrolases Delineate <i>Mycobacterium tuberculosis</i> Macrophage Interactions and the Capacity To Control Infection. <i>Journal of Immunology</i> , 2011, 187, 372-381.	0.8	71
18	Mannose-capped lipoarabinomannan in <i>Mycobacterium tuberculosis</i> pathogenesis. <i>Pathogens and Disease</i> , 2018, 76, .	2.0	68

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19	Truncated Structural Variants of Lipoarabinomannan in <i>Mycobacterium leprae</i> and an Ethambutol-resistant Strain of <i>Mycobacterium tuberculosis</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 41227-41239.	3.4	64
20	Identification of <i>Mycobacterium tuberculosis</i> Clinical Isolates with Altered Phagocytosis by Human Macrophages Due to a Truncated Lipoarabinomannan. <i>Journal of Biological Chemistry</i> , 2008, 283, 31417-31428.	3.4	60
21	Identification of an Increased Alveolar Macrophage Subpopulation in Old Mice That Displays Unique Inflammatory Characteristics and Is Permissive to <i>Mycobacterium tuberculosis</i> Infection. <i>Journal of Immunology</i> , 2019, 203, 2252-2264.	0.8	57
22	Underestimated Manipulative Roles of <i>Mycobacterium tuberculosis</i> Cell Envelope Glycolipids During Infection. <i>Frontiers in Immunology</i> , 2019, 10, 2909.	4.8	50
23	Overexpression of <i>Mycobacterium tuberculosis</i> manB, a phosphomannomutase that increases phosphatidylinositol mannoside biosynthesis in <i>Mycobacterium smegmatis</i> and mycobacterial association with human macrophages. <i>Molecular Microbiology</i> , 2005, 58, 774-790.	2.5	47
24	Isolation of a distinct <i>Mycobacterium tuberculosis</i> mannose-capped lipoarabinomannan isoform responsible for recognition by CD1b-restricted T cells. <i>Glycobiology</i> , 2012, 22, 1118-1127.	2.5	46
25	<i>Mycobacterium tuberculosis</i> universal stress protein Rv2623 interacts with the putative ATP binding cassette (ABC) transporter Rv1747 to regulate mycobacterial growth. <i>PLoS Pathogens</i> , 2017, 13, e1006515.	4.7	46
26	The Lung Mucosa Environment in the Elderly Increases Host Susceptibility to <i>Mycobacterium tuberculosis</i> Infection. <i>Journal of Infectious Diseases</i> , 2019, 220, 514-523.	4.0	45
27	Lung Mucosa Lining Fluid Modification of <i>Mycobacterium tuberculosis</i> to Reprogram Human Neutrophil Killing Mechanisms. <i>Journal of Infectious Diseases</i> , 2015, 212, 948-958.	4.0	42
28	Inactivation of <i>Mycobacterium tuberculosis</i> mannosyltransferase pimB reduces the cell wall lipoarabinomannan and lipomannan content and increases the rate of bacterial-induced human macrophage cell death. <i>Glycobiology</i> , 2009, 19, 743-755.	2.5	41
29	Cellular fatty acid synthase is required for late stages of HIV-1 replication. <i>Retrovirology</i> , 2017, 14, 45.	2.0	36
30	<i>Mycobacterium tuberculosis</i> Cell Wall Fragments Released upon Bacterial Contact with the Human Lung Mucosa Alter the Neutrophil Response to Infection. <i>Frontiers in Immunology</i> , 2017, 8, 307.	4.8	33
31	Functional characterization of exopolyphosphatase/guanosine pentaphosphate phosphohydrolase (PPX/GPPA) of <i>Campylobacter jejuni</i> . <i>Virulence</i> , 2014, 5, 521-533.	4.4	31
32	Structural Differences in Lipomannans from Pathogenic and Nonpathogenic Mycobacteria That Impact CD1b-restricted T Cell Responses*. <i>Journal of Biological Chemistry</i> , 2011, 286, 35438-35446.	3.4	29
33	Zoonotic Tuberculosis – The Changing Landscape. <i>International Journal of Infectious Diseases</i> , 2021, 113, S68-S72.	3.3	29
34	Selective delipidation of <i>Mycobacterium bovis</i> BCG enables direct pulmonary vaccination and enhances protection against <i>Mycobacterium tuberculosis</i> . <i>Mucosal Immunology</i> , 2019, 12, 805-815.	6.0	26
35	Analysis of SARS-CoV-2 infection dynamic in vivo using reporter-expressing viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	25
36	Mycobacteriophages as Potential Therapeutic Agents against Drug-Resistant Tuberculosis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 735.	4.1	20

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37	Polyphosphate and associated enzymes as global regulators of stress response and virulence in <i>Campylobacter jejuni</i> . <i>World Journal of Gastroenterology</i> , 2016, 22, 7402.	3.3	20
38	Changes in the major cell envelope components of <i>Mycobacterium tuberculosis</i> during in vitro growth. <i>Glycobiology</i> , 2013, 23, 926-934.	2.5	18
39	Development of a porcine reproductive and respiratory syndrome virus-like-particle-based vaccine and evaluation of its immunogenicity in pigs. <i>Archives of Virology</i> , 2016, 161, 1579-1589.	2.1	18
40	Improved Alere Determine Lipoarabinomannan Antigen Detection Test for the Diagnosis of Human and Bovine Tuberculosis by Manipulating Urine and Milk. <i>Scientific Reports</i> , 2019, 9, 18012.	3.3	18
41	Evaluating Antibody Mediated Protection against Alpha, Beta, and Delta SARS-CoV-2 Variants of Concern in K18-hACE2 Transgenic Mice. <i>Journal of Virology</i> , 2022, 96, jvi0218421.	3.4	14
42	Animal Models of COVID-19: Transgenic Mouse Model. <i>Methods in Molecular Biology</i> , 2022, 2452, 259-289.	0.9	14
43	A Bifluorescent-Based Assay for the Identification of Neutralizing Antibodies against SARS-CoV-2 Variants of Concern <i>In Vitro</i> and <i>In Vivo</i> . <i>Journal of Virology</i> , 2021, 95, e0112621.	3.4	13
44	Effects of <i>Mycobacterium bovis</i> Calmette et Guérin (BCG) in oncotherapy: Bladder cancer and beyond. <i>Vaccine</i> , 2021, 39, 7332-7340.	3.8	13
45	Accuracy of Two Point-of-Care Tests for Rapid Diagnosis of Bovine Tuberculosis at Animal Level using Non-Invasive Specimens. <i>Scientific Reports</i> , 2020, 10, 5441.	3.3	11
46	Evaluation of the tuberculosis culture color plate test for rapid detection of drug susceptible and drug-resistant <i>Mycobacterium tuberculosis</i> in a resource-limited setting, Addis Ababa, Ethiopia. <i>PLoS ONE</i> , 2019, 14, e0215679.	2.5	10
47	Modifications of <i>Pseudomonas aeruginosa</i> cell envelope in the cystic fibrosis airway alters interactions with immune cells. <i>Scientific Reports</i> , 2017, 7, 4761.	3.3	9
48	Low-cost diagnostic test for susceptible and drug-resistant tuberculosis in rural Malawi. <i>African Journal of Laboratory Medicine</i> , 2018, 7, 690.	0.6	9
49	New Developments and Insights in the Improvement of <i>Mycobacterium tuberculosis</i> Vaccines and Diagnostics Within the End TB Strategy. <i>Current Epidemiology Reports</i> , 2021, 8, 33-45.	2.4	8
50	Tuberculosis Phenotypic and Genotypic Drug Susceptibility Testing and Immunodiagnosics: A Review. <i>Frontiers in Immunology</i> , 0, 13, .	4.8	8
51	Zoonotic tuberculosis—a call for an open One Health debate. <i>Lancet Infectious Diseases</i> , The, 2020, 20, 642-644.	9.1	6
52	Host- and Age-Dependent Transcriptional Changes in <i>Mycobacterium tuberculosis</i> Cell Envelope Biosynthesis Genes after Exposure to Human Alveolar Lining Fluid. <i>International Journal of Molecular Sciences</i> , 2022, 23, 983.	4.1	6
53	The Impact of Aging on the Lung Alveolar Environment, Predetermining Susceptibility to Respiratory Infections. <i>Frontiers in Aging</i> , 2022, 3, .	2.6	6
54	IL-10 Receptor Blockade Delivered Simultaneously with <i>Bacillus Calmette-Guérin</i> Vaccination Sustains Long-Term Protection against <i>Mycobacterium tuberculosis</i> Infection in Mice. <i>Journal of Immunology</i> , 2022, 208, 1406-1416.	0.8	6

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55	MDR/XDR-TB Colour Test for drug susceptibility testing of Mycobacterium tuberculosis, Northwest Ethiopia. International Journal of Infectious Diseases, 2020, 90, 213-218.	3.3	5
56	Accuracy of the tuberculosis point-of-care Alere determine lipoarabinomannan antigen diagnostic test using $\hat{\pm}$ -mannosidase treated and untreated urine in a cohort of people living with HIV in Guatemala. AIDS Research and Therapy, 2020, 17, 62.	1.7	4
57	Acute Inflammation Confers Enhanced Protection against Mycobacterium tuberculosis Infection in Mice. Microbiology Spectrum, 2021, 9, e0001621.	3.0	3
58	The Aging Human Lung Mucosa: A Proteomics Study. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2022, 77, 1969-1974.	3.6	3
59	Evaluation of Mycobacterium tuberculosis lipoarabinomannan antigen assay and rapid serology blood test for the diagnosis of bovine tuberculosis in Ethiopia. BMC Veterinary Research, 2019, 15, 359.	1.9	2
60	Selective delipidation of Mycobacterium bovis BCG retains antitumor efficacy against non-muscle invasive bladder cancer. Cancer Immunology, Immunotherapy, 2023, 72, 125-136.	4.2	2
61	Alveolar Epithelial Cells. , 2021, , 247-255.		1