John S. Spencer

List of Publications by Citations

99 papers	3,315 citations	36 h-index	54 g-index
106 ext. papers	3,794 ext. citations	6 avg, IF	4.56 L-index

#	Paper	IF	Citations
99	On the origin of leprosy. *Science*, **2005**, 308, 1040-2	33.3	345
98	Comparative genomic and phylogeographic analysis of Mycobacterium leprae. *Nature Genetics*, **2009**, 41, 1282-9	36.3	293
97	A new Mycobacterium species causing diffuse lepromatous leprosy. *American Journal of Clinical Pathology*, **2008**, 130, 856-64	1.9	167
96	The application of proteomics in defining the T cell antigens of Mycobacterium tuberculosis. *Proteomics*, **2001**, 1, 574-86	4.8	97
95	Lateral flow assay for simultaneous detection of cellular- and humoral immune responses. *Clinical Biochemistry*, **2011**, 44, 1241-6	3.5	75
94	Long-term survival and virulence of Mycobacterium leprae in amoebal cysts. *PLoS Neglected Tropical Diseases*, **2014**, 8, e3405	4.8	66
93	The carboxy terminus of EmbC from Mycobacterium smegmatis mediates chain length extension of the arabinan in lipoarabinomannan. *Journal of Biological Chemistry*, **2006**, 281, 19512-26	5.4	64
92	Glycolytic and non-glycolytic functions of Mycobacterium tuberculosis fructose-1,6-bisphosphate aldolase, an essential enzyme produced by replicating and non-replicating bacilli. *Journal of Biological Chemistry*, **2011**, 286, 40219-31	5.4	62
91	Phylogenomics and antimicrobial resistance of the leprosy bacillus Mycobacterium leprae. *Nature Communications*, **2018**, 9, 352	17.4	61
90	Multiple M. tuberculosis phenotypes in mouse and guinea pig lung tissue revealed by a dual-staining approach. *PLoS ONE*, **2010**, 5, e11108	3.7	61
89	Identification of specific proteins and peptides in Mycobacterium leprae suitable for the selective diagnosis of leprosy. *Journal of Immunology*, **2005**, 175, 7930-8	5.3	61
88	MTSA-10, the product of the Rv3874 gene of Mycobacterium tuberculosis, elicits tuberculosis-specific, delayed-type hypersensitivity in guinea pigs. *Infection and Immunity*, **2000**, 68, 990-3	3.7	57
87	Serodiagnostic potential of culture filtrate antigens of Mycobacterium tuberculosis. *Vaccine Journal*, **2000**, 7, 662-8		56
86	The Role of Mycobacterium leprae Phenolic Glycolipid I (PGL-I) in Serodiagnosis and in the Pathogenesis of Leprosy. *Leprosy Review*, **2011**, 82, 344-357	0.6	56
85	Immunological characterization of antigens encoded by the RD1 region of the Mycobacterium tuberculosis genome. *Scandinavian Journal of Immunology*, **2001**, 54, 448-52	3.4	55
84	New biomarkers with relevance to leprosy diagnosis applicable in areas hyperendemic for leprosy. *Journal of Immunology*, **2012**, 188, 4782-91	5.3	54
83	Analysis of antibody responses to Mycobacterium leprae phenolic glycolipid I, lipoarabinomannan, and recombinant proteins to define disease subtype-specific antigenic profiles in leprosy. *Vaccine Journal*, **2011**, 18, 260-7		51

82	Postgenomic approach to identify novel Mycobacterium leprae antigens with potential to improve immunodiagnosis of infection. *Infection and Immunity*, **2005**, 73, 5636-44	3.7	51
81	Inactivation of fructose-1,6-bisphosphate aldolase prevents optimal co-catabolism of glycolytic and gluconeogenic carbon substrates in Mycobacterium tuberculosis. *PLoS Pathogens*, **2014**, 10, e1004144	7.6	48
80	Identification of serological biomarkers of infection, disease progression and treatment efficacy for leprosy. *Memorias Do Instituto Oswaldo Cruz*, **2012**, 107 Suppl 1, 79-89	2.6	48
79	Spatial analysis spotlighting early childhood leprosy transmission in a hyperendemic municipality of the Brazilian Amazon region. *PLoS Neglected Tropical Diseases*, **2014**, 8, e2665	4.8	47
78	Field-evaluation of a new lateral flow assay for detection of cellular and humoral immunity against Mycobacterium leprae. *PLoS Neglected Tropical Diseases*, **2014**, 8, e2845	4.8	46
77	Evidence of zoonotic leprosy in Par□Brazilian Amazon, and risks associated with human contact or consumption of armadillos. *PLoS Neglected Tropical Diseases*, **2018**, 12, e0006532	4.8	45
76	XCL1 (lymphotactin) chemokine produced by activated CD8 T cells during the chronic stage of infection with Mycobacterium tuberculosis negatively affects production of IFN-gamma by CD4 T cells and participates in granuloma stability. *Journal of Leukocyte Biology*, **2007**, 82, 1221-9	6.5	44
75	The role of Mycobacterium leprae phenolic glycolipid I (PGL-I) in serodiagnosis and in the pathogenesis of leprosy. *Leprosy Review*, **2011**, 82, 344-57	0.6	42
74	Longitudinal immune profiles in type 1 leprosy reactions in Bangladesh, Brazil, Ethiopia and Nepal. *BMC Infectious Diseases*, **2015**, 15, 477	4	41
73	Characterization of the Antigenic Heterogeneity of Lipoarabinomannan, the Major Surface Glycolipid of , and Complexity of Antibody Specificities toward This Antigen. *Journal of Immunology*, **2018**, 200, 3053-3066	5.3	39
72	ML0405 and ML2331 are antigens of Mycobacterium leprae with potential for diagnosis of leprosy. *Vaccine Journal*, **2006**, 13, 333-40		39
71	Continued proteomic analysis of Mycobacterium leprae subcellular fractions. *Proteomics*, **2004**, 4, 2942-53	4	39
70	Unexpectedly high leprosy seroprevalence detected using a random surveillance strategy in midwestern Brazil: A comparison of ELISA and a rapid diagnostic test. *PLoS Neglected Tropical Diseases*, **2017**, 11, e0005375	4.8	39
69	Field-friendly serological tests for determination of M. leprae-specific antibodies. *Scientific Reports*, **2017**, 7, 8868	4.9	38
68	Deciphering the proteomic profile of Mycobacterium leprae cell envelope. *Proteomics*, **2008**, 8, 2477-91	4.8	38
67	Identification of an Immunomodulating Agent from Mycobacterium leprae. *Infection and Immunity*, **2005**, 73, 2744-50	3.7	38
66	PARK2 mediates interleukin 6 and monocyte chemoattractant protein 1 production by human macrophages. *PLoS Neglected Tropical Diseases*, **2013**, 7, e2015	4.8	38
65	From genome-based in silico predictions to ex vivo verification of leprosy diagnosis. *Vaccine Journal* , **2009**, 16, 352-9		36

64	Comparison of three immunological tests for leprosy diagnosis and detection of subclinical infection. *Leprosy Review*, **2011**, 82, 389-401	0.6	36
63	Spatial epidemiology and serologic cohorts increase the early detection of leprosy. *BMC Infectious Diseases*, **2015**, 15, 527	4	34
62	Comparative analysis of B- and T-cell epitopes of Mycobacterium leprae and Mycobacterium tuberculosis culture filtrate protein 10. *Infection and Immunity*, **2004**, 72, 3161-70	3.7	34
61	Antigenic specificity of the Mycobacterium leprae homologue of ESAT-6. *Infection and Immunity*, **2002**, 70, 1010-3	3.7	33
60	Postgenomic Mycobacterium leprae antigens for cellular and serological diagnosis of M. leprae exposure, infection and leprosy disease. *Leprosy Review*, **2011**, 82, 402-421	0.6	33
59	Detection of the tuberculosis antigenic marker mannose-capped lipoarabinomannan in pretreated serum by surface-enhanced Raman scattering. *Analyst, The*, **2016**, 142, 186-196	5	31
58	Comparison of three immunological tests for leprosy diagnosis and detection of subclinical infection. *Leprosy Review*, **2011**, 82, 389-401	0.6	30
57	Postgenomic Mycobacterium leprae antigens for cellular and serological diagnosis of M. leprae exposure, infection and leprosy disease. *Leprosy Review*, **2011**, 82, 402-21	0.6	29
56	Insight toward early diagnosis of leprosy through analysis of the developing antibody responses of Mycobacterium leprae-infected armadillos. *Vaccine Journal*, **2011**, 18, 254-9		28
55	Immunological characterization of novel secreted antigens of Mycobacterium tuberculosis. *Scandinavian Journal of Immunology*, **2005**, 61, 139-46	3.4	28
54	Cell-mediated immune response to tuberculosis antigens: comparison of skin testing and measurement of in vitro gamma interferon production in whole-blood culture. *Vaccine Journal*, **2001**, 8, 339-45		28
53	Detection of lipoarabinomannan in urine and serum of HIV-positive and HIV-negative TB suspects using an improved capture-enzyme linked immuno absorbent assay and gas chromatography/mass spectrometry. *Tuberculosis*, **2018**, 111, 178-187	2.6	27
52	O-mannosylation of the Mycobacterium tuberculosis adhesin Apa is crucial for T cell antigenicity during infection but is expendable for protection. *PLoS Pathogens*, **2013**, 9, e1003705	7.6	27
51	Pathogen-specific epitopes as epidemiological tools for defining the magnitude of Mycobacterium leprae transmission in areas endemic for leprosy. *PLoS Neglected Tropical Diseases*, **2012**, 6, e1616	4.8	26
50	What do we actually know about leprosy worldwide?. *Lancet Infectious Diseases, The*, **2016**, 16, 778	25.5	26
49	Evaluation of Immunodiagnostic Tests for Leprosy in Brazil, China and Ethiopia. *Scientific Reports*, **2018**, 8, 17920	4.9	26
48	Gene set signature of reversal reaction type I in leprosy patients. *PLoS Genetics*, **2013**, 9, e1003624	6	23
47	Identification of amino acids and domains required for catalytic activity of DPPR synthase, a cell wall biosynthetic enzyme of Mycobacterium tuberculosis. *Microbiology (United Kingdom)*, **2008**, 154, 736-743	2.9	22

46	Mixed isotype class II antigen expression. A novel class II molecule is expressed on a murine B cell lymphoma. *Journal of Experimental Medicine*, **1989**, 169, 625-40	16.6	22
45	Are leprosy case numbers reliable?. *Lancet Infectious Diseases, The*, **2018**, 18, 135-137	25.5	21
44	A bispecific antibody based assay shows potential for detecting tuberculosis in resource constrained laboratory settings. *PLoS ONE*, **2012**, 7, e32340	3.7	21
43	Use of protein microarrays to define the humoral immune response in leprosy patients and identification of disease-state-specific antigenic profiles. *Infection and Immunity*, **2006**, 74, 6458-66	3.7	20
42	Evidence of hidden leprosy in a supposedly low endemic area of Brazil. *Memorias Do Instituto Oswaldo Cruz*, **2017**, 112, 822-828	2.6	19
41	Leprosy in Children. *Current Infectious Disease Reports*, **2017**, 19, 23	3.9	17
40	Monoclonal antibodies specific for antigens expressed by rat type II alveolar epithelial and nonciliated bronchiolar cells. *Experimental Lung Research*, **1989**, 15, 635-49	2.3	16
39	Boosting BCG-primed responses with a subunit Apa vaccine during the waning phase improves immunity and imparts protection against Mycobacterium tuberculosis. *Scientific Reports*, **2016**, 6, 25837	4.9	14
38	A modified synthesis and serological evaluation of neoglycoproteins containing the natural disaccharide of PGL-I from Mycobacterium leprae. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 3250-3	2.9	14
37	Importance of specimen pretreatment for the low-level detection of mycobacterial lipoarabinomannan in human serum. *Analyst, The*, **2016**, 142, 177-185	5	13
36	Fingerstick test quantifying humoral and cellular biomarkers indicative for M. leprae infection. *Clinical Biochemistry*, **2019**, 66, 76-82	3.5	12
35	Hyperthermostable binding molecules on phage: Assay components for point-of-care diagnostics for active tuberculosis infection. *Analytical Biochemistry*, **2017**, 521, 59-71	3.1	11
34	ML1419c peptide immunization induces Mycobacterium leprae-specific HLA-A*0201-restricted CTL in vivo with potential to kill live mycobacteria. *Journal of Immunology*, **2011**, 187, 1393-402	5.3	11
33	Further biochemical characterization of Mycobacterium leprae laminin-binding proteins. *Brazilian Journal of Medical and Biological Research*, **2001**, 34, 463-70	2.8	11
32	Immunization against full-length protein and peptides from the Lutzomyia longipalpis sand fly salivary component maxadilan protects against Leishmania major infection in a murine model. *Vaccine*, **2017**, 35, 6611-6619	4.1	10
31	The presence of a galactosamine substituent on the arabinogalactan of Mycobacterium tuberculosis abrogates full maturation of human peripheral blood monocyte-derived dendritic cells and increases secretion of IL-10. *Tuberculosis*, **2015**, 95, 476-89	2.6	10
30	Characterization of the secreted MPT53 antigen of Mycobacterium tuberculosis. *Infection and Immunity*, **2001**, 69, 5936-9	3.7	10
29	IL-10 and NOS2 modulate antigen-specific reactivity and nerve infiltration by T cells in experimental leprosy. *PLoS Neglected Tropical Diseases*, **2014**, 8, e3149	4.8	9

28	The level of PPD-specific IFN-gamma-producing CD4+ T cells in the blood predicts the in vivo response to PPD. *Tuberculosis*, **2007**, 87, 202-11	2.6	9
27	Expression and characterization of recombinant interferon gamma (IFN-gamma) from the nine-banded armadillo (Dasypus novemcinctus) and its effect on Mycobacterium leprae-infected macrophages. *Cytokine*, **2008**, 43, 124-31	4	8
26	Population Genomics of Reveals a New Genotype in Madagascar and the Comoros. *Frontiers in Microbiology*, **2020**, 11, 711	5.7	7
25	The immunology of other mycobacteria: M. ulcerans, M. leprae. *Seminars in Immunopathology*, **2020**, 42, 333-353	12	7
24	Leprosy in wild chimpanzees. *Nature*, **2021**, 598, 652-656	50.4	7
23	Leprosy in wild chimpanzees		7
22	Endemic leprosy in New York City. *Archives of Dermatology*, **2011**, 147, 624-6		6
21	Development of a Mouse Food Pad Model for Detection of Sub Clinical Leprosy. *Leprosy Review*, **2011**, 82, 432-444	0.6	6
20	Diguanylate cyclase activity of the Mycobacterium leprae T cell antigen ML1419c. *Microbiology (United Kingdom)*, **2016**, 162, 1651-1661	2.9	6
19	Development of a mouse food pad model for detection of sub clinical leprosy. *Leprosy Review*, **2011**, 82, 432-44	0.6	6
18	Gene expression profile and immunological evaluation of unique hypothetical unknown proteins of Mycobacterium leprae by using quantitative real-time PCR. *Vaccine Journal*, **2013**, 20, 181-90		5
17	Leprosy piRnome: exploring new possibilities for an old disease. *Scientific Reports*, **2020**, 10, 12648	4.9	5
16	miRNome Expression Analysis Reveals New Players on Leprosy Immune Physiopathology. *Frontiers in Immunology*, **2018**, 9, 463	8.4	4
15	Leprosy in a prison population: A new active search strategy and a prospective clinical analysis. *PLoS Neglected Tropical Diseases*, **2020**, 14, e0008917	4.8	4
14	The effects of prednisolone treatment on serological responses and lipid profiles in Ethiopian leprosy patients with Erythema Nodosum Leprosum reactions. *PLoS Neglected Tropical Diseases*, **2018**, 12, e0007035	4.8	4
13	Semmes-Weinstein monofilament: A tool to quantify skin sensation in macular lesions for leprosy diagnosis. *Indian Journal of Dermatology, Venereology and Leprology*, **2021**, 87, 807-815	0.8	2
12	The Many Hosts of Mycobacteria 8 (MHM8): A conference report. *Tuberculosis*, **2020**, 121, 101914	2.6	1
11	Characterization of defective I-A surface expression in a mixed isotype expressing murine B cell lymphoma: continued expression of E alpha d A beta d despite competition from restored A alpha d A beta d pairs. *International Immunology*, **1992**, 4, 905-15	4.9	1

List of Publications

10	Latent leprosy infection identified by dual RLEP and anti-PGL-I positivity: Implications for new control strategies. *PLoS ONE*, **2021**, 16, e0251631	3.7	1
9	Mycobacterium leprae Infection in a Wild Nine-Banded Armadillo, Nuevo Leñ, Mexico.. *Emerging Infectious Diseases*, **2022**, 28, 747-749	10.2	0
8	Continued proteomic analysis of Mycobacterium leprae subcellular fractions121-140		
7	Mycobacterium leprae Infection in a Wild Nine-Banded Armadillo, Nuevo Leñ, Mexico. *Emerging Infectious Diseases*, **2022**, 28, 747-749	10.2	
6	Leprosy in a prison population: A new active search strategy and a prospective clinical analysis **2020** , 14, e0008917		
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