Deepak Kaushal

List of Publications by Year
in descending order

105 papers	6,348 citations	76326 40 h-index	82547 72 g-index
119 all docs	119 docs citations	119 times ranked	7946 citing authors

#	Article	IF	Citations
1	BNT162b vaccines protect rhesus macaques from SARS-CoV-2. Nature, 2021, 592, 283-289.	27.8	494
2	Lethality of SARS-CoV-2 infection in K18 human angiotensin-converting enzyme 2 transgenic mice. Nature Communications, 2020, 11, 6122.	12.8	304
3	Increased Expression of P-Glycoprotein and Doxorubicin Chemoresistance of Metastatic Breast Cancer Is Regulated by miR-298. American Journal of Pathology, 2012, 180, 2490-2503.	3.8	236
4	Reduced immunopathology and mortality despite tissue persistence in a<i>Mycobacterium tuberculosis</i>mutant lacking alternative Ïƒ factor, SigH. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8330-8335.	7.1	225
5	Unexpected Role for IL-17 in Protective Immunity against Hypervirulent Mycobacterium tuberculosis HN878 Infection. PLoS Pathogens, 2014, 10, e1004099.	4.7	222
6	S100A8/A9 Proteins Mediate Neutrophilic Inflammation and Lung Pathology during Tuberculosis. American Journal of Respiratory and Critical Care Medicine, 2013, 188, 1137-1146.	5.6	216
7	CXCR5+ T helper cells mediate protective immunity against tuberculosis. Journal of Clinical Investigation, 2013, 123, 712-26.	8.2	203
8	Mucosal vaccination with attenuated Mycobacterium tuberculosis induces strong central memory responses and protects against tuberculosis. Nature Communications, 2015, 6, 8533.	12.8	196
9	Genetic Requirements for the Survival of Tubercle Bacilli in Primates. Journal of Infectious Diseases, 2010, 201, 1743-1752.	4.0	159
10	Responses to acute infection with SARS-CoV-2 in the lungs of rhesus macaques, baboons and marmosets. Nature Microbiology, 2021, 6, 73-86.	13.3	156
11	Group 3 innate lymphoid cells mediate early protective immunity against tuberculosis. Nature, 2019, 570, 528-532.	27.8	153
12	In vivo inhibition of tryptophan catabolism reorganizes the tuberculoma and augments immune-mediated control of<i>Mycobacterium tuberculosis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E62-E71.	7.1	150
13	The DosR Regulon Modulates Adaptive Immunity and Is Essential for <i>Mycobacterium tuberculosis</i> Persistence. American Journal of Respiratory and Critical Care Medicine, 2015, 191, 1185-1196.	5.6	142
14	CD4 ⁺ T-cellâ€“independent mechanisms suppress reactivation of latent tuberculosis in a macaque model of HIV coinfection. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5636-44.	7.1	123
15	Role of Interleukin 6 in Innate Immunity to Mycobacterium tuberculosis Infection. Journal of Infectious Diseases, 2013, 207, 1253-1261.	4.0	121
16	Reactivation of latent tuberculosis in rhesus macaques by coinfection with simian immunodeficiency virus. Journal of Medical Primatology, 2011, 40, 233-243.	0.6	111
17	The immunoregulatory landscape of human tuberculosis granulomas. Nature Immunology, 2022, 23, 318-329.	14.5	110
18	Granuloma Correlates of Protection Against Tuberculosis and Mechanisms of Immune Modulation by Mycobacterium tuberculosis. Journal of Infectious Diseases, 2013, 207, 1115-1127.	4.0	104

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19	Host sirtuin 1 regulates mycobacterial immunopathogenesis and represents a therapeutic target against tuberculosis. Science Immunology, 2017, 2, .	11.9	104
20	Biofilm formation in the lung contributes to virulence and drug tolerance of Mycobacterium tuberculosis. Nature Communications, 2021, 12, 1606.	12.8	99
21	Transcriptional Reprogramming in Nonhuman Primate (Rhesus Macaque) Tuberculosis Granulomas. PLoS ONE, 2010, 5, e12266.	2.5	98
22	The immune landscape in tuberculosis reveals populations linked to disease and latency. Cell Host and Microbe, 2021, 29, 165-178.e8.	11.0	98
23	Attenuation of Late-Stage Disease in Mice Infected bythe Mycobacterium tuberculosis Mutant Lacking theSigF Alternate Sigma Factor and Identification ofSigF-Dependent Genes by MicroarrayAnalysis. Infection and Immunity, 2004, 72, 1733-1745.	2.2	95
24	Aerosol Vaccination with AERAS-402 Elicits Robust Cellular Immune Responses in the Lungs of Rhesus Macaques but Fails To Protect against High-Dose <i>Mycobacterium tuberculosis</i> Challenge. Journal of Immunology, 2014, 193, 1799-1811.	0.8	87
25	S100A8/A9 regulates CD11b expression and neutrophil recruitment during chronic tuberculosis. Journal of Clinical Investigation, 2020, 130, 3098-3112.	8.2	85
26	A Mycobacterium tuberculosis Sigma Factor Network Responds to Cell-Envelope Damage by the Promising Anti-Mycobacterial Thioridazine. PLoS ONE, 2010, 5, e10069.	2.5	84
27	Functional Genomics Reveals Extended Roles of the <i>Mycobacterium tuberculosis</i> Stress Response Factor Ïƒ ^H. Journal of Bacteriology, 2009, 191, 3965-3980.	2.2	78
28	Tuberculosis Exacerbates HIV-1 Infection through IL-10/STAT3-Dependent Tunneling Nanotube Formation in Macrophages. Cell Reports, 2019, 26, 3586-3599.e7.	6.4	76
29	The Mycobacterium tuberculosis Stress Response Factor SigH Is Required for Bacterial Burden as Well as Immunopathology in Primate Lungs. Journal of Infectious Diseases, 2012, 205, 1203-1213.	4.0	74
30	IFN signaling and neutrophil degranulation transcriptional signatures are induced during SARS-CoV-2 infection. Communications Biology, 2021, 4, 290.	4.4	74
31	LAG3 Expression in Active Mycobacterium tuberculosis Infections. American Journal of Pathology, 2015, 185, 820-833.	3.8	70
32	A non-canonical type 2 immune response coordinates tuberculous granuloma formation and epithelialization. Cell, 2021, 184, 1757-1774.e14.	28.9	63
33	The Stress-Response Factor SigH Modulates the Interaction between Mycobacterium tuberculosis and Host Phagocytes. PLoS ONE, 2012, 7, e28958.	2.5	57
34	Robust IgM responses following intravenous vaccination with Bacille Calmetteâ€“GuÃ©rin associate with prevention of Mycobacterium tuberculosis infection in macaques. Nature Immunology, 2021, 22, 1515-1523.	14.5	55
35	HIV-1 and SIV Infection Are Associated with Early Loss of Lung Interstitial CD4+ T Cells and Dissemination of Pulmonary Tuberculosis. Cell Reports, 2019, 26, 1409-1418.e5.	6.4	54
36	The Mycobacterium tuberculosis Clp Gene Regulator Is Required for in Vitro Reactivation from Hypoxia-induced Dormancy. Journal of Biological Chemistry, 2015, 290, 2351-2367.	3.4	52

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37	Immune correlates of tuberculosis disease and risk translate across species. Science Translational Medicine, 2020, 12, .	12.4	52
38	Mechanisms of reactivation of latent tuberculosis infection due to SIV coinfection. Journal of Clinical Investigation, 2019, 129, 5254-5260.	8.2	52
39	Friend or Foe: The Protective and Pathological Roles of Inducible Bronchus-Associated Lymphoid Tissue in Pulmonary Diseases. Journal of Immunology, 2019, 202, 2519-2526.	0.8	51
40	Interleukin-10 Alters Effector Functions of Multiple Genes Induced by Borrelia burgdorferi in Macrophages To Regulate Lyme Disease Inflammation. Infection and Immunity, 2011, 79, 4876-4892.	2.2	50
41	Hypoxia Sensing and Persistence Genes Are Expressed during the Intragranulomatous Survival of <i>Mycobacterium tuberculosis</i>. American Journal of Respiratory Cell and Molecular Biology, 2017, 56, 637-647.	2.9	50
42	DosS Is Required for the Complete Virulence of <i>Mycobacterium tuberculosis</i> in Mice with Classical Granulomatous Lesions. American Journal of Respiratory Cell and Molecular Biology, 2015, 52, 708-716.	2.9	48
43	Pulmonary Mycobacterium tuberculosis control associates with CXCR3- and CCR6-expressing antigen-specific Th1 and Th17 cell recruitment. JCI Insight, 2020, 5, .	5.0	47
44	High Turnover of Tissue Macrophages Contributes to Tuberculosis Reactivation in Simian Immunodeficiency Virus-Infected Rhesus Macaques. Journal of Infectious Diseases, 2018, 217, 1865-1874.	4.0	44
45	Opening Pandoraâ€™s Box: Mechanisms of Mycobacterium tuberculosis Resuscitation. Trends in Microbiology, 2018, 26, 145-157.	7.7	44
46	A novel role for Câ€“C motif chemokine receptor 2 during infection with hypervirulent Mycobacterium tuberculosis. Mucosal Immunology, 2018, 11, 1727-1742.	6.0	43
47	Translational Research in the Nonhuman Primate Model of Tuberculosis. ILAR Journal, 2017, 58, 151-159.	1.8	41
48	The Mycobacterium tuberculosis Rv2745c Plays an Important Role in Responding to Redox Stress. PLoS ONE, 2014, 9, e93604.	2.5	39
49	The TB-specific CD4+ T cell immune repertoire in both cynomolgus and rhesus macaques largely overlap with humans. Tuberculosis, 2015, 95, 722-735.	1.9	39
50	Chronic Immune Activation in TB/HIV Co-infection. Trends in Microbiology, 2020, 28, 619-632.	7.7	33
51	The current state of animal models and genomic approaches towards identifying and validating molecular determinants of<i>Mycobacterium tuberculosis</i>infection and tuberculosis disease. Pathogens and Disease, 2019, 77, .	2.0	32
52	Immunomodulatory effects of tick saliva on dermal cells exposed to Borrelia burgdorferi, the agent of Lyme disease. Parasites and Vectors, 2016, 9, 394.	2.5	31
53	Antiretroviral therapy does not reduce tuberculosis reactivation in a tuberculosis-HIV coinfection model. Journal of Clinical Investigation, 2020, 130, 5171-5179.	8.2	31
54	Tuberculosis-associated IFN-I induces Siglec-1 on tunneling nanotubes and favors HIV-1 spread in macrophages. ELife, 2020, 9, .	6.0	31

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55	Role of TNF in the Altered Interaction of Dormant Mycobacterium tuberculosis with Host Macrophages. PLoS ONE, 2014, 9, e95220.	2.5	30
56	Myeloid cell interferon responses correlate with clearance of SARS-CoV-2. Nature Communications, 2022, 13, 679.	12.8	30
57	Mycobacterium tuberculosisMT2816 Encodes a Key Stressâ€Response Regulator. Journal of Infectious Diseases, 2010, 202, 943-953.	4.0	28
58	Pathogenesis and Animal Models of Post-Primary (Bronchogenic) Tuberculosis, A Review. Pathogens, 2018, 7, 19.	2.8	28
59	Toward Tuberculosis Vaccine Development: Recommendations for Nonhuman Primate Study Design. Infection and Immunity, 2018, 86, .	2.2	27
60	In-Vivo Gene Signatures of Mycobacterium tuberculosis in C3HeB/FeJ Mice. PLoS ONE, 2015, 10, e0135208.	2.5	24
61	Modeling SARS-CoV-2: Comparative Pathology in Rhesus Macaque and Golden Syrian Hamster Models. Toxicologic Pathology, 2022, 50, 280-293.	1.8	21
62	Humoral and lung immune responses to Mycobacterium tuberculosis infection in a primate model of protection. Trials in Vaccinology, 2014, 3, 47-51.	1.2	20
63	LAG-3 potentiates the survival of Mycobacterium tuberculosis in host phagocytes by modulating mitochondrial signaling in an in-vitro granuloma model. PLoS ONE, 2017, 12, e0180413.	2.5	20
64	Mycobacterium tuberculosis infection drives a type I IFN signature in lung lymphocytes. Cell Reports, 2022, 39, 110983.	6.4	20
65	Mycobacterium tuberculosis sensor kinase DosS modulates the autophagosome in a DosR-independent manner. Communications Biology, 2019, 2, 349.	4.4	19
66	Toward a Macaque Model of HIV-1 Infection: Roadblocks, Progress, and Future Strategies. Frontiers in Microbiology, 2020, 11, 882.	3.5	18
67	Mucosal-activated invariant T cells do not exhibit significant lung recruitment and proliferation profiles in macaques in response to infection with Mycobacterium tuberculosis CDC1551. Tuberculosis, 2019, 116, S11-S18.	1.9	17
68	Analyzing and Visualizing Expression Data with Spotfire. Current Protocols in Bioinformatics, 2004, 7, Unit 7.9.	25.8	16
69	Isoniazid and Rifapentine Treatment Eradicates Persistent Mycobacterium tuberculosis in Macaques. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 469-477.	5.6	15
70	Mycobacterium tuberculosis HN878 Infection Induces Human-Like B-Cell Follicles in Mice. Journal of Infectious Diseases, 2020, 221, 1636-1646.	4.0	15
71	Identification of biomarkers for tuberculosis susceptibility via integrated analysis of gene expression and longitudinal clinical data. Frontiers in Genetics, 2014, 5, 240.	2.3	14
72	Human M1 macrophages express unique innate immune response genes after mycobacterial infection to defend against tuberculosis. Communications Biology, 2022, 5, 480.	4.4	14

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73	Improved Xenobiotic Metabolism and Reduced Susceptibility to Cancer in Gluten-Sensitive Macaques upon Introduction of a Gluten-Free Diet. PLoS ONE, 2011, 6, e18648.	2.5	13
74	Expression levels of 10 candidate genes in lung tissue of vaccinated and <scp>TB</scp>â€infected cynomolgus macaques. Journal of Medical Primatology, 2013, 42, 161-164.	0.6	12
75	Nonpathologic Infection of Macaques by an Attenuated Mycobacterial Vaccine Is Not Reactivated in the Setting of HIV Co-Infection. American Journal of Pathology, 2017, 187, 2811-2820.	3.8	12
76	The Comeback Kid: BCG. Journal of Infectious Diseases, 2019, 221, 1031-1032.	4.0	12
77	Visualizing the dynamics of tuberculosis pathology using molecular imaging. Journal of Clinical Investigation, 2021, 131, .	8.2	12
78	Faithful Experimental Models of Human Mycobacterium Tuberculosis Infection. Mycobacterial Diseases: Tuberculosis & Leprosy, 2012, 02, .	0.1	12
79	A tuberculosis ontology for host systems biology. Tuberculosis, 2015, 95, 570-574.	1.9	11
80	A High Throughput Whole Blood Assay for Analysis of Multiple Antigen-Specific T Cell Responses in Human <i>Mycobacterium tuberculosis</i> Infection. Journal of Immunology, 2018, 200, 3008-3019.	0.8	11
81	Formation of Lung Inducible Bronchus Associated Lymphoid Tissue Is Regulated by Mycobacterium tuberculosis Expressed Determinants. Frontiers in Immunology, 2020, 11, 1325.	4.8	11
82	Lung Epithelial Signaling Mediates Early Vaccine-Induced CD4⁺T Cell Activation and<i>Mycobacterium tuberculosis</i>Control. MBio, 2021, 12, e0146821.	4.1	11
83	Sequencing-relative to hybridization-based transcriptomics approaches better define Mycobacterium tuberculosis stress-response regulons. Tuberculosis, 2016, 101, S9-S17.	1.9	10
84	Medical imaging of pulmonary disease in SARS-CoV-2-exposed non-human primates. Trends in Molecular Medicine, 2022, 28, 123-142.	6.7	10
85	Myeloid-Derived Suppressor Cells Mediate T Cell Dysfunction in Nonhuman Primate TB Granulomas. MBio, 2021, 12, e0318921.	4.1	10
86	Characterizing Early T Cell Responses in Nonhuman Primate Model of Tuberculosis. Frontiers in Immunology, 2021, 12, 706723.	4.8	9
87	Antiretroviral therapy timing impacts latent tuberculosis infection reactivation in a Mycobacterium tuberculosis/SIV coinfection model. Journal of Clinical Investigation, 2022, 132, .	8.2	9
88	Microdissection approaches in tuberculosis research. Journal of Medical Primatology, 2014, 43, 294-297.	0.6	8
89	Response to Hypoxia and the Ensuing Dysregulation of Inflammation Impacts <i>Mycobacterium tuberculosis</i> Pathogenicity. American Journal of Respiratory and Critical Care Medicine, 2022, , .	5.6	8
90	Eicosanoids, Prostaglandins, and the Progression of Tuberculosis. Journal of Infectious Diseases, 2012, 206, 1803-1805.	4.0	7

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91	Vaccine strategies for the Mtb/HIV copandemic. Npj Vaccines, 2020, 5, 95.	6.0	6
92	Mycobacterium tuberculosis. Journal of Immunology Research, 2015, 2015, 1-2.	2.2	5
93	Understanding COVID-19: From Dysregulated Immunity to Vaccination Status Quo. Frontiers in Immunology, 2021, 12, 765349.	4.8	5
94	An Overview of Spotfire for Geneâ€Expression Studies. Current Protocols in Bioinformatics, 2004, 6, Unit 7.7.	25.8	4
95	A Novel Microdissection Approach to Recovering Mycobacterium tuberculosis Specific Transcripts from Formalin Fixed Paraffin Embedded Lung Granulomas. Journal of Visualized Experiments, 2014, , .	0.3	4
96	Animal Models of COVID-19: Nonhuman Primates. Methods in Molecular Biology, 2022, 2452, 227-258.	0.9	4
97	Loading and Preparing Data for Analysis in Spotfire. Current Protocols in Bioinformatics, 2004, 6, Unit 7.8.	25.8	3
98	sncRNA-1 Is a Small Noncoding RNA Produced by Mycobacterium tuberculosis in Infected Cells That Positively Regulates Genes Coupled to Oleic Acid Biosynthesis. Frontiers in Microbiology, 2020, 11, 1631.	3.5	3
99	Assay design for unambiguous identification and quantification of circulating pathogen-derived peptide biomarkers. Theranostics, 2022, 12, 2948-2962.	10.0	3
100	Peripheral Blood Markers Correlate with the Progression of Active Tuberculosis Relative to Latent Control of Mycobacterium tuberculosis Infection in Macaques. Pathogens, 2022, 11, 544.	2.8	3
101	An Overview of Spotfire for Geneâ€Expression Studies. Current Protocols in Human Genetics, 2005, 45, Unit 11.9.	3.5	2
102	How well do you know your monkeys?. Journal of Medical Primatology, 2013, 42, 48-49.	0.6	1
103	Using genomic DNA copies to enumerate Mycobacterium tuberculosis load in macaque tissue samples. Tuberculosis, 2021, 129, 102102.	1.9	1
104	SOCS3 and ILâ€10 antiâ€inflammatory activity in Lyme disease. FASEB Journal, 2008, 22, 860.17.	0.5	1
105	Tuberculosis Boosts HIV-1 Production by Macrophages Through IL-10/STAT3-Dependent Tunneling Nanotube Formation. SSRN Electronic Journal, 0, , .	0.4	1