

Mark G Lewis

List of Publications by Year in descending order

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69

papers

13,396

citations

76322

40

h-index

91872

69

g-index

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docs citations

98

times ranked

17387

citing authors

#	ARTICLE	IF	CITATIONS
1	Correlates of protection against SARS-CoV-2 in rhesus macaques. <i>Nature</i> , 2021, 590, 630-634.	27.8	995
2	DNA vaccine protection against SARS-CoV-2 in rhesus macaques. <i>Science</i> , 2020, 369, 806-811.	12.6	978
3	Evaluation of the mRNA-1273 Vaccine against SARS-CoV-2 in Nonhuman Primates. <i>New England Journal of Medicine</i> , 2020, 383, 1544-1555.	27.0	936
4	SARS-CoV-2 infection protects against rechallenge in rhesus macaques. <i>Science</i> , 2020, 369, 812-817.	12.6	789
5	Single-shot Ad26 vaccine protects against SARS-CoV-2 in rhesus macaques. <i>Nature</i> , 2020, 586, 583-588.	27.8	765
6	Animal models for COVID-19. <i>Nature</i> , 2020, 586, 509-515.	27.8	705
7	Zika virus protection by a single low-dose nucleoside-modified mRNA vaccination. <i>Nature</i> , 2017, 543, 248-251.	27.8	699
8	Rapid seeding of the viral reservoir prior to SIV viraemia in rhesus monkeys. <i>Nature</i> , 2014, 512, 74-77.	27.8	527
9	REGN-COV2 antibodies prevent and treat SARS-CoV-2 infection in rhesus macaques and hamsters. <i>Science</i> , 2020, 370, 1110-1115.	12.6	476
10	Protective efficacy of multiple vaccine platforms against Zika virus challenge in rhesus monkeys. <i>Science</i> , 2016, 353, 1129-1132.	12.6	461
11	Nucleoside-modified mRNA vaccines induce potent T follicular helper and germinal center B cell responses. <i>Journal of Experimental Medicine</i> , 2018, 215, 1571-1588.	8.5	366
12	Rapid development of a DNA vaccine for Zika virus. <i>Science</i> , 2016, 354, 237-240.	12.6	348
13	SARS-CoV-2 variant prediction and antiviral drug design are enabled by RBD in vitro evolution. <i>Nature Microbiology</i> , 2021, 6, 1188-1198.	13.3	314
14	Protective efficacy of adenovirus/protein vaccines against SIV challenges in rhesus monkeys. <i>Science</i> , 2015, 349, 320-324.	12.6	303
15	Ad26 vaccine protects against SARS-CoV-2 severe clinical disease in hamsters. <i>Nature Medicine</i> , 2020, 26, 1694-1700.	30.7	275
16	Zika viral dynamics and shedding in rhesus and cynomolgus macaques. <i>Nature Medicine</i> , 2016, 22, 1448-1455.	30.7	270
17	Ad26/MVA therapeutic vaccination with TLR7 stimulation in SIV-infected rhesus monkeys. <i>Nature</i> , 2016, 540, 284-287.	27.8	246
18	Antibody and TLR7 agonist delay viral rebound in SHIV-infected monkeys. <i>Nature</i> , 2018, 563, 360-364.	27.8	246

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19	Immune correlates of protection by mRNA-1273 vaccine against SARS-CoV-2 in nonhuman primates. Science, 2021, 373, eabj0299.	12.6	244
20	InÂvitro and inÂvivo functions of SARS-CoV-2 infection-enhancing and neutralizing antibodies. Cell, 2021, 184, 4203-4219.e32.	28.9	228
21	Neutralizing antibody vaccine for pandemic and pre-emergent coronaviruses. Nature, 2021, 594, 553-559.	27.8	199
22	Zika Virus Persistence in the Central Nervous System and Lymph Nodes of Rhesus Monkeys. Cell, 2017, 169, 610-620.e14.	28.9	191
23	Vascular Disease and Thrombosis in SARS-CoV-2-Infected Rhesus Macaques. Cell, 2020, 183, 1354-1366.e13.	28.9	184
24	mRNA-1273 or mRNA-Omicron boost in vaccinated macaques elicits similar B cell expansion, neutralizing responses, and protection from Omicron. Cell, 2022, 185, 1556-1571.e18.	28.9	179
25	Envelope residue 375 substitutions in simianâ€“human immunodeficiency viruses enhance CD4 binding and replication in rhesus macaques. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3413-22.	7.1	170
26	TLR7 agonists induce transient viremia and reduce the viral reservoir in SIV-infected rhesus macaques on antiretroviral therapy. Science Translational Medicine, 2018, 10, .	12.4	133
27	Mosaic RBD nanoparticles protect against challenge by diverse sarbecoviruses in animal models. Science, 2022, 377, .	12.6	120
28	Targeted selection of HIV-specific antibody mutations by engineering B cell maturation. Science, 2019, 366, .	12.6	118
29	Reduced pathogenicity of the SARS-CoV-2 omicron variant in hamsters. Med, 2022, 3, 262-268.e4.	4.4	117
30	Durability and correlates of vaccine protection against Zika virus in rhesus monkeys. Science Translational Medicine, 2017, 9, .	12.4	108
31	Protection against SARS-CoV-2 Beta variant in mRNA-1273 vaccineâ€“boosted nonhuman primates. Science, 2021, 374, 1343-1353.	12.6	83
32	Type I Interferon Upregulates Bak and Contributes to T Cell Loss during Human Immunodeficiency Virus (HIV) Infection. PLoS Pathogens, 2013, 9, e1003658.	4.7	76
33	A SARS-CoV-2 ferritin nanoparticle vaccine elicits protective immune responses in nonhuman primates. Science Translational Medicine, 2022, 14, .	12.4	73
34	Optimization of non-coding regions for a non-modified mRNA COVID-19 vaccine. Nature, 2022, 601, 410-414.	27.8	71
35	Engineered SARS-CoV-2 receptor binding domain improves manufacturability in yeast and immunogenicity in mice. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	68
36	Protection from SARS-CoV-2 Delta one year after mRNA-1273 vaccination in rhesus macaques coincides with anamnestic antibody response in the lung. Cell, 2022, 185, 113-130.e15.	28.9	64

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37	Vaccine protection against the SARS-CoV-2 Omicron variant in macaques. <i>Cell</i> , 2022, 185, 1549-1555.e11.	28.9	59
38	mRNA-1273 protects against SARS-CoV-2 beta infection in nonhuman primates. <i>Nature Immunology</i> , 2021, 22, 1306-1315.	14.5	57
39	Protective antibodies elicited by SARS-CoV-2 spike protein vaccination are boosted in the lung after challenge in nonhuman primates. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	56
40	Protection against SARS-CoV-2 infection by a mucosal vaccine in rhesus macaques. <i>JCI Insight</i> , 2021, 6, .	5.0	52
41	Recapitulation of HIV-1 Env-antibody coevolution in macaques leading to neutralization breadth. <i>Science</i> , 2021, 371, .	12.6	49
42	Low-dose Ad26.COV2.S protection against SARS-CoV-2 challenge in rhesus macaques. <i>Cell</i> , 2021, 184, 3467-3473.e11.	28.9	49
43	A SARS-CoV-2 spike ferritin nanoparticle vaccine protects hamsters against Alpha and Beta virus variant challenge. <i>Npj Vaccines</i> , 2021, 6, 129.	6.0	47
44	Lipid nanoparticle encapsulated nucleoside-modified mRNA vaccines elicit polyfunctional HIV-1 antibodies comparable to proteins in nonhuman primates. <i>Npj Vaccines</i> , 2021, 6, 50.	6.0	46
45	Efficacy and breadth of adjuvanted SARS-CoV-2 receptor-binding domain nanoparticle vaccine in macaques. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	44
46	Protective efficacy of Ad26.COV2.S against SARS-CoV-2 B.1.351 in macaques. <i>Nature</i> , 2021, 596, 423-427.	27.8	40
47	Synthetic multiantigen MVA vaccine COH04S1 protects against SARS-CoV-2 in Syrian hamsters and non-human primates. <i>Npj Vaccines</i> , 2022, 7, 7.	6.0	35
48	Immunity elicited by natural infection or Ad26.COV2.S vaccination protects hamsters against SARS-CoV-2 variants of concern. <i>Science Translational Medicine</i> , 2021, 13, eabj3789.	12.4	32
49	Lack of therapeutic efficacy of an antibody to $\hat{\pm} \times 4$ $\hat{^2} \times 7$ in SIVmac251-infected rhesus macaques. <i>Science</i> , 2019, 365, 1029-1033.	12.6	31
50	Intradermal-delivered DNA vaccine induces durable immunity mediating a reduction in viral load in a rhesus macaque SARS-CoV-2 challenge model. <i>Cell Reports Medicine</i> , 2021, 2, 100420.	6.5	28
51	SARS-CoV-2 receptor binding domain displayed on HBsAg virus-like particles elicits protective immunity in macaques. <i>Science Advances</i> , 2022, 8, eabl6015.	10.3	27
52	Persistence of viral RNA in lymph nodes in ART-suppressed SIV/SHIV-infected Rhesus Macaques. <i>Nature Communications</i> , 2021, 12, 1474.	12.8	26
53	Passive Transfer of Vaccine-Elicited Antibodies Protects against SIV in Rhesus Macaques. <i>Cell</i> , 2020, 183, 185-196.e14.	28.9	25
54	A cautionary perspective regarding the isolation and serial propagation of SARS-CoV-2 in Vero cells. <i>Npj Vaccines</i> , 2021, 6, 83.	6.0	25

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55	New SHIVs and Improved Design Strategy for Modeling HIV-1 Transmission, Immunopathogenesis, Prevention, and Cure. <i>Journal of Virology</i> , 2021, 95, .	3.4	21
56	Propagation of SARS-CoV-2 in Calu-3 Cells to Eliminate Mutations in the Furin Cleavage Site of Spike. <i>Viruses</i> , 2021, 13, 2434.	3.3	19
57	Prior infection with SARS-CoV-2 WA1/2020 partially protects rhesus macaques against reinfection with B.1.1.7 and B.1.351 variants. <i>Science Translational Medicine</i> , 2021, 13, eabj2641.	12.4	15
58	Preclinical evaluation of a candidate naked plasmid DNA vaccine against SARS-CoV-2. <i>Npj Vaccines</i> , 2021, 6, 156.	6.0	15
59	Defining the determinants of protection against SARS-CoV-2 infection and viral control in a dose-down Ad26.CoV2.S vaccine study in nonhuman primates. <i>PLoS Biology</i> , 2022, 20, e3001609.	5.6	14
60	A homologous or variant booster vaccine after Ad26.COVS immunization enhances SARS-CoV-2-specific immune responses in rhesus macaques. <i>Science Translational Medicine</i> , 2022, 14, eabm4996.	12.4	13
61	Control of SARS-CoV-2 infection after Spike DNA or Spike DNA+Protein co-immunization in rhesus macaques. <i>PLoS Pathogens</i> , 2021, 17, e1009701.	4.7	12
62	Therapeutic efficacy of combined active and passive immunization in ART-suppressed, SHIV-infected rhesus macaques. <i>Nature Communications</i> , 2022, 13, .	12.8	12
63	A combination of two human neutralizing antibodies prevents SARS-CoV-2 infection in cynomolgus macaques. <i>Med</i> , 2022, 3, 188-203.e4.	4.4	11
64	An intranasally administrated SARS-CoV-2 beta variant subunit booster vaccine prevents beta variant replication in rhesus macaques. , 2022, 1, .		10
65	COH04S1 and beta sequence-modified vaccine protect hamsters from SARS-CoV-2 variants. <i>IScience</i> , 2022, 25, 104457.	4.1	8
66	Protective Efficacy of Gastrointestinal SARS-CoV-2 Delivery against Intranasal and Intratracheal SARS-CoV-2 Challenge in Rhesus Macaques. <i>Journal of Virology</i> , 2022, 96, JVI0159921.	3.4	5
67	Therapeutic efficacy of an Ad26/MVA vaccine with SIV gp140 protein and vesatolimod in ART-suppressed rhesus macaques. <i>Npj Vaccines</i> , 2022, 7, 53.	6.0	4
68	Development of an In Vivo Probe to Track SARS-CoV-2 Infection in Rhesus Macaques. <i>Frontiers in Immunology</i> , 2021, 12, 810047.	4.8	3
69	Passive transfer of Ad26.COVS-elicited IgG from humans attenuates SARS-CoV-2 disease in hamsters. <i>Npj Vaccines</i> , 2022, 7, 2.	6.0	2