

Mark G Lewis

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88 papers	8,140 citations	31 h-index	90 g-index
98 ext. papers	11,434 ext. citations	28.3 avg, IF	5.46 L-index

#	Paper	IF	Citations
88	Passive transfer of Ad26.COVS.S-elicited IgG from humans attenuates SARS-CoV-2 disease in hamsters.. <i>Npj Vaccines</i> , 2022 , 7, 2	9.5	0
87	Synthetic multiantigen MVA vaccine COH04S1 protects against SARS-CoV-2 in Syrian hamsters and non-human primates.. <i>Npj Vaccines</i> , 2022 , 7, 7	9.5	7
86	A combination of two human neutralizing antibodies prevents SARS-CoV-2 infection in cynomolgus macaques.. <i>Med</i> , 2022 ,	31.7	1
85	Vaccine Protection Against the SARS-CoV-2 Omicron Variant in Macaques. 2022 ,		2
84	A SARS-CoV-2 ferritin nanoparticle vaccine elicits protective immune responses in nonhuman primates. <i>Science Translational Medicine</i> , 2022 , 14,	17.5	9
83	SARS-CoV-2 receptor binding domain displayed on HBsAg virus-like particles elicits protective immunity in macaques.. <i>Science Advances</i> , 2022 , 8, eabl6015	14.3	3
82	Vaccine protection against the SARS-CoV-2 Omicron variant in macaques.. <i>Cell</i> , 2022 ,	56.2	3
81	mRNA-1273 or mRNA-Omicron boost in vaccinated macaques elicits similar B cell expansion, neutralizing responses, and protection from Omicron.. <i>Cell</i> , 2022 ,	56.2	22
80	A homologous or variant booster vaccine after Ad26.COVS.S immunization enhances SARS-CoV-2-specific immune responses in rhesus macaques.. <i>Science Translational Medicine</i> , 2022 , eabm4996	17.5	1
79	Reduced Pathogenicity of the SARS-CoV-2 Omicron Variant in Hamsters.. <i>Med</i> , 2022 ,	31.7	13
78	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	9.7	0
77	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	9.5	0
76	Optimization of Non-Coding Regions for a Non-Modified mRNA COVID-19 Vaccine. <i>Nature</i> , 2021 ,	50.4	9
75	Protection from SARS-CoV-2 Delta one year after mRNA-1273 vaccination in rhesus macaques coincides with anamnestic antibody response in the lung.. <i>Cell</i> , 2021 ,	56.2	24
74	Protection against SARS-CoV-2 Beta variant in mRNA-1273 vaccine-boosted nonhuman primates. <i>Science</i> , 2021 , 374, 1343-1353	33.3	32
73	Protection from SARS-CoV-2 Delta one year after mRNA-1273 vaccination in nonhuman primates is coincident with an anamnestic antibody response in the lower airway 2021 ,		4
72	Protective Efficacy of Gastrointestinal SARS-CoV-2 Delivery Against Intranasal and Intratracheal SARS-CoV-2 Challenge in Rhesus Macaques. <i>Journal of Virology</i> , 2021 , JVI0159921	6.6	2

71	A SARS-CoV-2 spike ferritin nanoparticle vaccine protects hamsters against Alpha and Beta virus variant challenge. <i>Npj Vaccines</i> , 2021 , 6, 129	9.5	8
70	Correlates of protection against SARS-CoV-2 in rhesus macaques. <i>Nature</i> , 2021 , 590, 630-634	50.4	498
69	Vaccination with SARS-CoV-2 Spike Protein and AS03 Adjuvant Induces Rapid Anamnestic Antibodies in the Lung and Protects Against Virus Challenge in Nonhuman Primates 2021 ,		13
68	Efficacy of a Broadly Neutralizing SARS-CoV-2 Ferritin Nanoparticle Vaccine in Nonhuman Primates 2021 ,		12
67	Engineered SARS-CoV-2 receptor binding domain improves immunogenicity in mice and elicits protective immunity in hamsters 2021 ,		10
66	Persistence of viral RNA in lymph nodes in ART-suppressed SIV/SHIV-infected Rhesus Macaques. <i>Nature Communications</i> , 2021 , 12, 1474	17.4	7
65	Immune Correlates of Protection by mRNA-1273 Immunization against SARS-CoV-2 Infection in Nonhuman Primates 2021 ,		24
64	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	9.5	19
63	Efficacy and breadth of adjuvanted SARS-CoV-2 receptor-binding domain nanoparticle vaccine in macaques 2021 ,		5
62	Protection against SARS-CoV-2 infection by a mucosal vaccine in rhesus macaques. <i>JCI Insight</i> , 2021 , 6,	9.9	13
61	Evaluation of mRNA-1273 against SARS-CoV-2 B.1.351 Infection in Nonhuman Primates 2021 ,		2
60	Neutralizing antibody vaccine for pandemic and pre-emergent coronaviruses. <i>Nature</i> , 2021 , 594, 553-559	50.4	85
59	New SHIVs and Improved Design Strategy for Modeling HIV-1 Transmission, Immunopathogenesis, Prevention and Cure. <i>Journal of Virology</i> , 2021 ,	6.6	7
58	Protective efficacy of Ad26.COVS against SARS-CoV-2 B.1.351 in macaques. <i>Nature</i> , 2021 , 596, 423-427	50.4	22
57	A cautionary perspective regarding the isolation and serial propagation of SARS-CoV-2 in Vero cells. <i>Npj Vaccines</i> , 2021 , 6, 83	9.5	9
56	Low-dose Ad26.COVS protection against SARS-CoV-2 challenge in rhesus macaques. <i>Cell</i> , 2021 , 184, 3467-3473.e11	56.2	23
55	A SARS-CoV-2 spike ferritin nanoparticle vaccine protects against heterologous challenge with B.1.1.7 and B.1.351 virus variants in Syrian golden hamsters 2021 ,		4
54	A modular protein subunit vaccine candidate produced in yeast confers protection against SARS-CoV-2 in non-human primates 2021 ,		3

53	SARS-CoV2 infects pancreatic beta cells in vivo and induces cellular and subcellular disruptions that reflect beta cell dysfunction 2021 ,		1
52	Recapitulation of HIV-1 Env-antibody coevolution in macaques leading to neutralization breadth. <i>Science</i> , 2021 , 371,	33.3	22
51	SARS-CoV-2 vaccination induces neutralizing antibodies against pandemic and pre-emergent SARS-related coronaviruses in monkeys 2021 ,		4
50	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,	17.5	17
49	SARS-CoV-2 variant prediction and antiviral drug design are enabled by RBD in vitro evolution. <i>Nature Microbiology</i> , 2021 , 6, 1188-1198	26.6	105
48	In vitro and in vivo functions of SARS-CoV-2 infection-enhancing and neutralizing antibodies. <i>Cell</i> , 2021 , 184, 4203-4219.e32	56.2	89
47	Protection against SARS-CoV-2 Beta Variant in mRNA-1273 Boosted Nonhuman Primates 2021 ,		8
46	mRNA-1273 protects against SARS-CoV-2 beta infection in nonhuman primates. <i>Nature Immunology</i> , 2021 , 22, 1306-1315	19.1	32
45	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	17.5	13
44	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	17.5	8
43	Synthetic Multiantigen MVA Vaccine COH04S1 Protects Against SARS-CoV-2 in Syrian Hamsters and Non-Human Primates 2021 ,		2
42	Immune correlates of protection by mRNA-1273 vaccine against SARS-CoV-2 in nonhuman primates. <i>Science</i> , 2021 , 373, eabj0299	33.3	86
41	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,	11.5	12
40	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	7.6	4
39	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	18	9
38	Engineered SARS-CoV-2 receptor binding domain improves manufacturability in yeast and immunogenicity in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	13
37	Low-Dose Ad26.COV2.S Protection Against SARS-CoV-2 Challenge in Rhesus Macaques 2021 ,		8
36	Development of an Probe to Track SARS-CoV-2 Infection in Rhesus Macaques.. <i>Frontiers in Immunology</i> , 2021 , 12, 810047	8.4	1

35	Preclinical evaluation of a candidate naked plasmid DNA vaccine against SARS-CoV-2.. <i>Npj Vaccines</i> , 2021 , 6, 156	9.5	2
34	SARS-CoV-2 infection protects against rechallenge in rhesus macaques. <i>Science</i> , 2020 , 369, 812-817	33.3	592
33	DNA vaccine protection against SARS-CoV-2 in rhesus macaques. <i>Science</i> , 2020 , 369, 806-811	33.3	748
32	Lipid nanoparticle encapsulated nucleoside-modified mRNA vaccines elicit polyfunctional HIV-1 antibodies comparable to proteins in nonhuman primates 2020 ,		20
31	Passive Transfer of Vaccine-Elicited Antibodies Protects against SIV in Rhesus Macaques. <i>Cell</i> , 2020 , 183, 185-196.e14	56.2	11
30	REGN-COV2 antibodies prevent and treat SARS-CoV-2 infection in rhesus macaques and hamsters. <i>Science</i> , 2020 , 370, 1110-1115	33.3	330
29	Single-shot Ad26 vaccine protects against SARS-CoV-2 in rhesus macaques. <i>Nature</i> , 2020 , 586, 583-588	50.4	550
28	Vascular Disease and Thrombosis in SARS-CoV-2-Infected Rhesus Macaques. <i>Cell</i> , 2020 , 183, 1354-1366.e132	56.2	108
27	Animal models for COVID-19. <i>Nature</i> , 2020 , 586, 509-515	50.4	377
26	Evaluation of the mRNA-1273 Vaccine against SARS-CoV-2 in Nonhuman Primates. <i>New England Journal of Medicine</i> , 2020 , 383, 1544-1555	59.2	612
25	Ad26 vaccine protects against SARS-CoV-2 severe clinical disease in hamsters. <i>Nature Medicine</i> , 2020 , 26, 1694-1700	50.5	176
24	Lack of therapeutic efficacy of an antibody to ßn SIVmac251-infected rhesus macaques. <i>Science</i> , 2019 , 365, 1029-1033	33.3	21
23	Targeted selection of HIV-specific antibody mutations by engineering B cell maturation. <i>Science</i> , 2019 , 366,	33.3	60
22	TLR7 agonists induce transient viremia and reduce the viral reservoir in SIV-infected rhesus macaques on antiretroviral therapy. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	87
21	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	16.6	212
20	Antibody and TLR7 agonist delay viral rebound in SHIV-infected monkeys. <i>Nature</i> , 2018 , 563, 360-364	50.4	155
19	Zika virus protection by a single low-dose nucleoside-modified mRNA vaccination. <i>Nature</i> , 2017 , 543, 248-251	50.4	502
18	Zika Virus Persistence in the Central Nervous System and Lymph Nodes of Rhesus Monkeys. <i>Cell</i> , 2017 , 169, 610-620.e14	56.2	139

17	Durability and correlates of vaccine protection against Zika virus in rhesus monkeys. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	80
16	Ad26/MVA therapeutic vaccination with TLR7 stimulation in SIV-infected rhesus monkeys. <i>Nature</i> , 2016 , 540, 284-287	50.4	183
15	Envelope residue 375 substitutions in simian-human immunodeficiency viruses enhance CD4 binding and replication in rhesus macaques. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E3413-22	11.5	132
14	Zika viral dynamics and shedding in rhesus and cynomolgus macaques. <i>Nature Medicine</i> , 2016 , 22, 1448-1455	50.5	228
13	Rapid development of a DNA vaccine for Zika virus. <i>Science</i> , 2016 , 354, 237-240	33.3	284
12	Protective efficacy of multiple vaccine platforms against Zika virus challenge in rhesus monkeys. <i>Science</i> , 2016 , 353, 1129-32	33.3	386
11	Protective efficacy of adenovirus/protein vaccines against SIV challenges in rhesus monkeys. <i>Science</i> , 2015 , 349, 320-4	33.3	236
10	Rapid seeding of the viral reservoir prior to SIV viraemia in rhesus monkeys. <i>Nature</i> , 2014 , 512, 74-7	50.4	403
9	Type I interferon upregulates Bak and contributes to T cell loss during human immunodeficiency virus (HIV) infection. <i>PLoS Pathogens</i> , 2013 , 9, e1003658	7.6	68
8	mRNA-1273 or mRNA-Omicron boost in vaccinated macaques elicits comparable B cell expansion, neutralizing antibodies and protection against Omicron		12
7	An intranasally administrated SARS-CoV-2 beta variant subunit booster vaccine prevents beta variant viral replication in rhesus macaques		1
6	Reduced Pathogenicity of the SARS-CoV-2 Omicron Variant in Hamsters		19
5	Recapitulation of HIV-1 Env-Antibody Coevolution in Macaques Leading to Neutralization Breadth		1
4	Intradermal-delivered DNA vaccine provides anamnestic protection in a rhesus macaque SARS-CoV-2 challenge model		38
3	REGN-COV2 antibody cocktail prevents and treats SARS-CoV-2 infection in rhesus macaques and hamsters		15
2	New SHIVs and Improved Design Strategy for Modeling HIV-1 Transmission, Immunopathogenesis, Prevention and Cure		1
1	Optimization of Non-Coding Regions Improves Protective Efficacy of an mRNA SARS-CoV-2 Vaccine in Nonhuman Primates		4