

Robert A Seder

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

19,887
citations

20797

60
h-index

22147

113
g-index

132
all docs

132
docs citations

132
times ranked

22052
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2022, 185, 113-130.e15.	13.5	64
2	SARS-CoV-2 Omicron virus causes attenuated disease in mice and hamsters. <i>Nature</i> , 2022, 603, 687-692.	13.7	475
3	The light chain of the L9 antibody is critical for binding circumsporozoite protein minor repeats and preventing malaria. <i>Cell Reports</i> , 2022, 38, 110367.	2.9	11
4	Defining the risk of SARS-CoV-2 variants on immune protection. <i>Nature</i> , 2022, 605, 640-652.	13.7	117
5	mRNA-1273 or mRNA-Omicron boost in vaccinated macaques elicits similar B cell expansion, neutralizing responses, and protection from Omicron. <i>Cell</i> , 2022, 185, 1556-1571.e18.	13.5	179
6	mRNA-1273 vaccination protects against SARS-CoV-2-elicited lung inflammation in nonhuman primates. <i>JCI Insight</i> , 2022, 7, .	2.3	3
7	Highly protective antimalarial antibodies via precision library generation and yeast display screening. <i>Journal of Experimental Medicine</i> , 2022, 219, .	4.2	9
8	Intravenous nanoparticle vaccination generates stem-like TCF1+ neoantigen-specific CD8+ T cells. <i>Nature Immunology</i> , 2021, 22, 41-52.	7.0	110
9	Atypical B cells are part of an alternative lineage of B cells that participates in responses to vaccination and infection in humans. <i>Cell Reports</i> , 2021, 34, 108684.	2.9	134
10	T Cells Specific for a Mycobacterial Glycolipid Expand after Intravenous Bacillus Calmette-Guérin Vaccination. <i>Journal of Immunology</i> , 2021, 206, 1240-1250.	0.4	18
11	Enhancing durability of CIS43 monoclonal antibody by Fc mutation or AAV delivery for malaria prevention. <i>JCI Insight</i> , 2021, 6, .	2.3	25
12	Design of Alphavirus Virus-Like Particles Presenting Circumsporozoite Junctional Epitopes That Elicit Protection against Malaria. <i>Vaccines</i> , 2021, 9, 272.	2.1	16
13	Serum Neutralizing Activity Elicited by mRNA-1273 Vaccine. <i>New England Journal of Medicine</i> , 2021, 384, 1468-1470.	13.9	417
14	Neutralizing antibody vaccine for pandemic and pre-emergent coronaviruses. <i>Nature</i> , 2021, 594, 553-559.	13.7	199
15	Fab-dimerized glycan-reactive antibodies are a structural category of natural antibodies. <i>Cell</i> , 2021, 184, 2955-2972.e25.	13.5	57
16	Functional human IgA targets a conserved site on malaria sporozoites. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	21
17	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, .	5.8	56
18	SARS-CoV-2 variant prediction and antiviral drug design are enabled by RBD in vitro evolution. <i>Nature Microbiology</i> , 2021, 6, 1188-1198.	5.9	314

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19	InÂvitro and inÂvivo functions of SARS-CoV-2 infection-enhancing and neutralizing antibodies. <i>Cell</i> , 2021, 184, 4203-4219.e32.	13.5	228
20	A Monoclonal Antibody for Malaria Prevention. <i>New England Journal of Medicine</i> , 2021, 385, 803-814.	13.9	95
21	mRNA-1273 protects against SARS-CoV-2 beta infection in nonhuman primates. <i>Nature Immunology</i> , 2021, 22, 1306-1315.	7.0	57
22	Immune correlates of protection by mRNA-1273 vaccine against SARS-CoV-2 in nonhuman primates. <i>Science</i> , 2021, 373, eabj0299.	6.0	244
23	Safety, immunogenicity and efficacy of PfSPZ Vaccine against malaria in infants in western Kenya: a double-blind, randomized, placebo-controlled phase 2 trial. <i>Nature Medicine</i> , 2021, 27, 1636-1645.	15.2	47
24	Protection against SARS-CoV-2 Beta variant in mRNA-1273 vaccineâ€“boosted nonhuman primates. <i>Science</i> , 2021, 374, 1343-1353.	6.0	83
25	A SARS-CoV-2 spike ferritin nanoparticle vaccine protects hamsters against Alpha and Beta virus variant challenge. <i>Npj Vaccines</i> , 2021, 6, 129.	2.9	47
26	Variant SARS-CoV-2 mRNA vaccines confer broad neutralization as primary or booster series in mice. <i>Vaccine</i> , 2021, 39, 7394-7400.	1.7	63
27	The <i>P. falciparum</i> CSP repeat region contains three distinct epitopes required for protection by antibodies in vivo. <i>PLoS Pathogens</i> , 2021, 17, e1010042.	2.1	21
28	Robust IgM responses following intravenous vaccination with Bacilleâ€“GuÃ©rin associate with prevention of Mycobacterium tuberculosis infection in macaques. <i>Nature Immunology</i> , 2021, 22, 1515-1523.	7.0	55
29	Vaccination in a humanized mouse model elicits highly protective PfCSP-targeting anti-malarial antibodies. <i>Immunity</i> , 2021, 54, 2859-2876.e7.	6.6	19
30	Protective effects of combining monoclonal antibodies and vaccines against the Plasmodium falciparum circumsporozoite protein. <i>PLoS Pathogens</i> , 2021, 17, e1010133.	2.1	20
31	Safety, Tolerability, and Immunogenicity of Plasmodium falciparum Sporozoite Vaccine Administered by Direct Venous Inoculation to Infants and Young Children: Findings From an Age De-escalation, Dose-Escalation, Double-blind, Randomized Controlled Study in Western Kenya. <i>Clinical Infectious Diseases</i> , 2020, 71, 1063-1071.	2.9	25
32	Prevention of tuberculosis in macaques after intravenous BCG immunization. <i>Nature</i> , 2020, 577, 95-102.	13.7	394
33	Increase of Dose Associated With Decrease in Protection Against Controlled Human Malaria Infection by PfSPZ Vaccine in Tanzanian Adults. <i>Clinical Infectious Diseases</i> , 2020, 71, 2849-2857.	2.9	46
34	A Potent Anti-Malarial Human Monoclonal Antibody Targets Circumsporozoite Protein Minor Repeats and Neutralizes Sporozoites in the Liver. <i>Immunity</i> , 2020, 53, 733-744.e8.	6.6	99
35	Antibody Feedback Limits the Expansion of B Cell Responses to Malaria Vaccination but Drives Diversification of the Humoral Response. <i>Cell Host and Microbe</i> , 2020, 28, 572-585.e7.	5.1	87
36	<sc>OMIPâ€“067</sc>: 28â€“Color Flow Cytometry Panel to Evaluate Human Tâ€“Cell Phenotype and Function. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020, 97, 1032-1036.	1.1	10

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37	Evaluation of the mRNA-1273 Vaccine against SARS-CoV-2 in Nonhuman Primates. <i>New England Journal of Medicine</i> , 2020, 383, 1544-1555.	13.9	936
38	Stochastic Expansions Maintain the Clonal Stability of CD8+ T Cell Populations Undergoing Memory Inflation Driven by Murine Cytomegalovirus. <i>Journal of Immunology</i> , 2020, 204, 112-121.	0.4	21
39	Evaluation of heterologous prime-boost vaccination strategies using chimpanzee adenovirus and modified vaccinia virus for TB subunit vaccination in rhesus macaques. <i>Npj Vaccines</i> , 2020, 5, 39.	2.9	13
40	Caregiver and community perceptions and experiences participating in an infant malaria prevention trial of PfSPZ Vaccine administered by direct venous inoculation: a qualitative study in Siaya County, western Kenya. <i>Malaria Journal</i> , 2020, 19, 226.	0.8	6
41	Peptide-TLR-7/8a conjugate vaccines chemically programmed for nanoparticle self-assembly enhance CD8 T-cell immunity to tumor antigens. <i>Nature Biotechnology</i> , 2020, 38, 320-332.	9.4	210
42	Monocytes Acquire the Ability to Prime Tissue-Resident T Cells via IL-10-Mediated TGF- β Release. <i>Cell Reports</i> , 2019, 28, 1127-1135.e4.	2.9	45
43	Star nanoparticles delivering HIV-1 peptide minimal immunogens elicit near-native envelope antibody responses in nonhuman primates. <i>PLoS Biology</i> , 2019, 17, e3000328.	2.6	33
44	Boosting BCG with proteins or rAd5 does not enhance protection against tuberculosis in rhesus macaques. <i>Npj Vaccines</i> , 2019, 4, 21.	2.9	44
45	Impact of Polymer-TLR-7/8 Agonist (Adjuvant) Morphology on the Potency and Mechanism of CD8 T Cell Induction. <i>Biomacromolecules</i> , 2019, 20, 854-870.	2.6	32
46	Bystander responses impact accurate detection of murine and human antigen-specific CD8+ T cells. <i>Journal of Clinical Investigation</i> , 2019, 129, 3894-3908.	3.9	29
47	Safety and Differential Antibody and T-Cell Responses to the Plasmodium falciparum Sporozoite Malaria Vaccine, PfSPZ Vaccine, by Age in Tanzanian Adults, Adolescents, Children, and Infants. <i>American Journal of Tropical Medicine and Hygiene</i> , 2019, 100, 1433-1444.	0.6	61
48	A human monoclonal antibody prevents malaria infection by targeting a new site of vulnerability on the parasite. <i>Nature Medicine</i> , 2018, 24, 408-416.	15.2	235
49	Safety, Immunogenicity, and Protective Efficacy against Controlled Human Malaria Infection of Plasmodium falciparum Sporozoite Vaccine in Tanzanian Adults. <i>American Journal of Tropical Medicine and Hygiene</i> , 2018, 99, 338-349.	0.6	114
50	Malaria prevention: from immunological concepts to effective vaccines and protective antibodies. <i>Nature Immunology</i> , 2018, 19, 1199-1211.	7.0	137
51	Malaria Vaccines: Recent Advances and New Horizons. <i>Cell Host and Microbe</i> , 2018, 24, 43-56.	5.1	234
52	Attenuated PfSPZ Vaccine induces strain-transcending T cells and durable protection against heterologous controlled human malaria infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2711-2716.	3.3	201
53	Sterile protection against human malaria by chemoattenuated PfSPZ vaccine. <i>Nature</i> , 2017, 542, 445-449.	13.7	332
54	Humoral protection against mosquito bite-transmitted Plasmodium falciparum infection in humanized mice. <i>Npj Vaccines</i> , 2017, 2, 27.	2.9	44

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55	Albumin/vaccine nanocomplexes that assemble in vivo for combination cancer immunotherapy. <i>Nature Communications</i> , 2017, 8, 1954.	5.8	237
56	Innate transcriptional effects by adjuvants on the magnitude, quality, and durability of HIV envelope responses in NHPs. <i>Blood Advances</i> , 2017, 1, 2329-2342.	2.5	90
57	Protection against malaria at 1 year and immune correlates following PfSPZ vaccination. <i>Nature Medicine</i> , 2016, 22, 614-623.	15.2	313
58	Thermoresponsive Polymer Nanoparticles Co-deliver RSV F Trimers with a TLR-7/8 Adjuvant. <i>Bioconjugate Chemistry</i> , 2016, 27, 2372-2385.	1.8	44
59	Quality and quantity of T _{FH} cells are critical for broad antibody development in SHIV _{AD8} infection. <i>Science Translational Medicine</i> , 2015, 7, 298ra120.	5.8	119
60	Human Anti-CD40 Antibody and Poly IC:LC Adjuvant Combination Induces Potent T Cell Responses in the Lung of Nonhuman Primates. <i>Journal of Immunology</i> , 2015, 195, 1015-1024.	0.4	36
61	Analysis of immunoglobulin transcripts and hypermutation following SHIVAD8 infection and protein-plus-adjuvant immunization. <i>Nature Communications</i> , 2015, 6, 6565.	5.8	77
62	Combination recombinant simian or chimpanzee adenoviral vectors for vaccine development. <i>Vaccine</i> , 2015, 33, 7344-7351.	1.7	16
63	Progress with <i>Plasmodium falciparum</i> sporozoite (PfSPZ)-based malaria vaccines. <i>Vaccine</i> , 2015, 33, 7452-7461.	1.7	152
64	In vivo characterization of the physicochemical properties of polymer-linked TLR agonists that enhance vaccine immunogenicity. <i>Nature Biotechnology</i> , 2015, 33, 1201-1210.	9.4	362
65	Antigen expression determines adenoviral vaccine potency independent of IFN and STING signaling. <i>Journal of Clinical Investigation</i> , 2015, 125, 1129-1146.	3.9	97
66	A nonhuman primate toxicology and immunogenicity study evaluating aerosol delivery of AERAS-402/Ad35 vaccine. <i>Human Vaccines and Immunotherapeutics</i> , 2014, 10, 2199-2210.	1.4	25
67	Progress with PfSPZ Vaccine, a radiation attenuated <i>Plasmodium falciparum</i> sporozoite vaccine. <i>Malaria Journal</i> , 2014, 13, .	0.8	0
68	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. <i>Journal of Immunology</i> , 2014, 193, 1799-1811.	0.4	87
69	Dendritic cell-targeted vaccines – hope or hype?. <i>Nature Reviews Immunology</i> , 2014, 14, 705-711.	10.6	189
70	Chemical cross-linking of HIV-1 Env for direct TLR7/8 ligand conjugation compromises recognition of conserved antigenic determinants. <i>Virology</i> , 2013, 446, 56-65.	1.1	15
71	Protection Against Malaria by Intravenous Immunization with a Nonreplicating Sporozoite Vaccine. <i>Science</i> , 2013, 341, 1359-1365.	6.0	686
72	Full-Length <i>Plasmodium falciparum</i> Circumsporozoite Protein Administered with Long-Chain Poly(I \hat{A} -C) or the Toll-Like Receptor 4 Agonist Glucopyranosyl Lipid Adjuvant-Stable Emulsion Elicits Potent Antibody and CD4 ⁺ T Cell Immunity and Protection in Mice. <i>Infection and Immunity</i> , 2013, 81, 789-800.	1.0	74

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73	Comparative Analysis of the Magnitude, Quality, Phenotype, and Protective Capacity of Simian Immunodeficiency Virus Gag-Specific CD8+ T Cells following Human-, Simian-, and Chimpanzee-Derived Recombinant Adenoviral Vector Immunization. <i>Journal of Immunology</i> , 2013, 190, 2720-2735.	0.4	99
74	Polyinosinic-Polycytidylic Acid Is the Most Effective TLR Adjuvant for SIV Gag Protein-Induced T Cell Responses In Nonhuman Primates. <i>Journal of Immunology</i> , 2013, 190, 4103-4115.	0.4	49
75	Coadministration of Polyinosinic:Polycytidylic Acid and Immunostimulatory Complexes Modifies Antigen Processing in Dendritic Cell Subsets and Enhances HIV Gag-Specific T Cell Immunity. <i>Journal of Immunology</i> , 2013, 191, 5085-5096.	0.4	19
76	Type I IFN Induced by Adenovirus Serotypes 28 and 35 Has Multiple Effects on T Cell Immunogenicity. <i>Journal of Immunology</i> , 2012, 188, 6109-6118.	0.4	44
77	SIV infection of rhesus macaques results in dysfunctional T- and B-cell responses to neo and recall <i>Leishmania major</i> vaccination. <i>Blood</i> , 2011, 118, 5803-5812.	0.6	45
78	Human and rhesus plasmacytoid dendritic cell and B-cell responses to Toll-like receptor stimulation. <i>Immunology</i> , 2011, 134, 257-269.	2.0	43
79	Rapid SIV Env-specific mucosal and serum antibody induction augments cellular immunity in protecting immunized, elite-controller macaques against high dose heterologous SIV challenge. <i>Virology</i> , 2011, 411, 87-102.	1.1	22
80	Immunization with HIV Gag targeted to dendritic cells followed by recombinant New York vaccinia virus induces robust T-cell immunity in nonhuman primates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7131-7136.	3.3	121
81	Vaccine Adjuvants: Putting Innate Immunity to Work. <i>Immunity</i> , 2010, 33, 492-503.	6.6	1,522
82	IL-10 production differentially influences the magnitude, quality, and protective capacity of Th1 responses depending on the vaccine platform. <i>Journal of Experimental Medicine</i> , 2010, 207, 1421-1433.	4.2	81
83	Genetic immunization in the lung induces potent local and systemic immune responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 22213-22218.	3.3	65
84	CD8+ T Cell Responses following Replication-Defective Adenovirus Serotype 5 Immunization Are Dependent on CD11c+ Dendritic Cells but Show Redundancy in Their Requirement of TLR and Nucleotide-Binding Oligomerization Domain-Like Receptor Signaling. <i>Journal of Immunology</i> , 2010, 185, 1513-1521.	0.4	66
85	Poly(I:C) is an effective adjuvant for antibody and multi-functional CD4+ T cell responses to <i>Plasmodium falciparum</i> circumsporozoite protein (CSP) and DEC-CSP in non human primates. <i>Vaccine</i> , 2010, 28, 7256-7266.	1.7	119
86	Tuberculosis Subunit Vaccination Provides Long-Term Protective Immunity Characterized by Multifunctional CD4 Memory T Cells. <i>Journal of Immunology</i> , 2009, 182, 8047-8055.	0.4	379
87	T-cell quality in memory and protection: implications for vaccine design. <i>Nature Reviews Immunology</i> , 2008, 8, 247-258.	10.6	1,410
88	IFN- γ Mediates the Death of Th1 Cells in a Paracrine Manner. <i>Journal of Immunology</i> , 2008, 180, 842-849.	0.4	22
89	Multifunctional TH1 cells define a correlate of vaccine-mediated protection against <i>Leishmania major</i> . <i>Nature Medicine</i> , 2007, 13, 843-850.	15.2	1,272
90	Th1 memory: implications for vaccine development. <i>Immunological Reviews</i> , 2006, 211, 58-66.	2.8	98

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91	Toll-like receptor agonists influence the magnitude and quality of memory T cell responses after prime-boost immunization in nonhuman primates. <i>Journal of Experimental Medicine</i> , 2006, 203, 1249-1258.	4.2	270
92	Host-pathogen interactions in the 21st century. <i>Current Opinion in Immunology</i> , 2005, 17, 335-337.	2.4	3
93	HIV Gag protein conjugated to a Toll-like receptor 7/8 agonist improves the magnitude and quality of Th1 and CD8+ T cell responses in nonhuman primates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 15190-15194.	3.3	323
94	The role of cytokine DNAs as vaccine adjuvants for optimizing cellular immune responses. <i>Immunological Reviews</i> , 2004, 202, 266-274.	2.8	96
95	Memory may not need reminding. <i>Nature Medicine</i> , 2004, 10, 1045-1047.	15.2	6
96	Immunological and pathological evaluation of rhesus macaques infected with <i>Leishmania major</i> . <i>Experimental Parasitology</i> , 2003, 103, 160-168.	0.5	13
97	Similarities and differences in CD4+ and CD8+ effector and memory T cell generation. <i>Nature Immunology</i> , 2003, 4, 835-842.	7.0	740
98	CpG Oligodeoxynucleotides as Vaccine Adjuvants in Primates. <i>Journal of Immunology</i> , 2002, 168, 1659-1663.	0.4	184
99	Vaccination with Heat-killed <i>Leishmania</i> Antigen or Recombinant Leishmanial Protein and CpG Oligodeoxynucleotides Induces Long-Term Memory CD4+ and CD8+ T Cell Responses and Protection Against <i>Leishmania major</i> Infection. <i>Journal of Experimental Medicine</i> , 2002, 195, 1565-1573.	4.2	162
100	Distinct lineages of TH1 cells have differential capacities for memory cell generation in vivo. <i>Nature Immunology</i> , 2002, 3, 852-858.	7.0	258
101	The Potency and Durability of DNA- and Protein-Based Vaccines Against <i>Leishmania major</i> Evaluated Using Low-Dose, Intradermal Challenge. <i>Journal of Immunology</i> , 2001, 166, 5122-5128.	0.4	131
102	Cytokine regulation of IL-12 receptor $\beta 2$ expression: differential effects on human T and NK cells. <i>European Journal of Immunology</i> , 2000, 30, 1364-1374.	1.6	63
103	Vaccines against intracellular infections requiring cellular immunity. <i>Nature</i> , 2000, 406, 793-798.	13.7	334
104	Requirements for the Maintenance of Th1 Immunity In Vivo Following DNA Vaccination: A Potential Immunoregulatory Role for CD8+ T Cells. <i>Journal of Immunology</i> , 2000, 165, 915-924.	0.4	132
105	DNA Vaccines: Immunology, Application, and Optimization. <i>Annual Review of Immunology</i> , 2000, 18, 927-974.	9.5	1,104
106	Vaccine requirements for sustained cellular immunity to an intracellular parasitic infection. <i>Nature Medicine</i> , 1998, 4, 1409-1415.	15.2	223
107	Are Differentiated Human T Helper Cells Reversible?. <i>International Archives of Allergy and Immunology</i> , 1997, 113, 163-166.	0.9	7
108	Vaccination with DNA Encoding the Immunodominant LACK Parasite Antigen Confers Protective Immunity to Mice Infected with <i>Leishmania major</i> . <i>Journal of Experimental Medicine</i> , 1997, 186, 1137-1147.	4.2	348

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109	Regulation of transforming growth factor- β^2 production by interleukin-12. <i>European Journal of Immunology</i> , 1997, 27, 1213-1220.	1.6	73
110	Fc γ receptor-positive cells are a major source of antigen-induced interleukin-4 in spleens of mice infected with <i>Schistosoma mansoni</i> . <i>European Journal of Immunology</i> , 1993, 23, 1910-1916.	1.6	54
111	Increased frequency of interleukin 4-producing T cells as a result of polyclonal priming. Use of a single-cell assay to detect interleukin 4-producing cells. <i>European Journal of Immunology</i> , 1991, 21, 1241-1247.	1.6	41