## Robert A Seder

List of Publications by Year in descending order

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20817 22166 19,887 111 60 113 citations h-index g-index papers 132 132 132 22052 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Vaccine Adjuvants: Putting Innate Immunity to Work. Immunity, 2010, 33, 492-503.	14.3	1,522
2	T-cell quality in memory and protection: implications for vaccine design. Nature Reviews Immunology, 2008, 8, 247-258.	22.7	1,410
3	Multifunctional TH1 cells define a correlate of vaccine-mediated protection against Leishmania major. Nature Medicine, 2007, 13, 843-850.	30.7	1,272
4	DNA Vaccines: Immunology, Application, and Optimization. Annual Review of Immunology, 2000, 18, 927-974.	21.8	1,104
5	Evaluation of the mRNA-1273 Vaccine against SARS-CoV-2 in Nonhuman Primates. New England Journal of Medicine, 2020, 383, 1544-1555.	27.0	936
6	Similarities and differences in CD4+ and CD8+ effector and memory T cell generation. Nature Immunology, 2003, 4, 835-842.	14.5	740
7	Protection Against Malaria by Intravenous Immunization with a Nonreplicating Sporozoite Vaccine. Science, 2013, 341, 1359-1365.	12.6	686
8	SARS-CoV-2 Omicron virus causes attenuated disease in mice and hamsters. Nature, 2022, 603, 687-692.	27.8	475
9	Serum Neutralizing Activity Elicited by mRNA-1273 Vaccine. New England Journal of Medicine, 2021, 384, 1468-1470.	27.0	417
10	Prevention of tuberculosis in macaques after intravenous BCG immunization. Nature, 2020, 577, 95-102.	27.8	394
11	Tuberculosis Subunit Vaccination Provides Long-Term Protective Immunity Characterized by Multifunctional CD4 Memory T Cells. Journal of Immunology, 2009, 182, 8047-8055.	0.8	379
12	In vivo characterization of the physicochemical properties of polymer-linked TLR agonists that enhance vaccine immunogenicity. Nature Biotechnology, 2015, 33, 1201-1210.	17.5	362
13	Vaccination with DNA Encoding the Immunodominant LACK Parasite Antigen Confers Protective Immunity to Mice Infected with Leishmania major. Journal of Experimental Medicine, 1997, 186, 1137-1147.	8.5	348
14	Vaccines against intracellular infections requiring cellular immunity. Nature, 2000, 406, 793-798.	27.8	334
15	Sterile protection against human malaria by chemoattenuated PfSPZ vaccine. Nature, 2017, 542, 445-449.	27.8	332
16	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. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15190-15194.	7.1	323
17	SARS-CoV-2 variant prediction and antiviral drug design are enabled by RBD in vitro evolution. Nature Microbiology, 2021, 6, 1188-1198.	13.3	314
18	Protection against malaria at $1$ year and immune correlates following PfSPZ vaccination. Nature Medicine, 2016, 22, 614-623.	30.7	313

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19	Toll-like receptor agonists influence the magnitude and quality of memory T cell responses after prime-boost immunization in nonhuman primates. Journal of Experimental Medicine, 2006, 203, 1249-1258.	8.5	270
20	Distinct lineages of TH1 cells have differential capacities for memory cell generation in vivo. Nature Immunology, 2002, 3, 852-858.	14.5	258
21	Immune correlates of protection by mRNA-1273 vaccine against SARS-CoV-2 in nonhuman primates. Science, 2021, 373, eabj0299.	12.6	244
22	Albumin/vaccine nanocomplexes that assemble in vivo for combination cancer immunotherapy. Nature Communications, 2017, 8, 1954.	12.8	237
23	A human monoclonal antibody prevents malaria infection by targeting a new site of vulnerability on the parasite. Nature Medicine, 2018, 24, 408-416.	30.7	235
24	Malaria Vaccines: Recent Advances and New Horizons. Cell Host and Microbe, 2018, 24, 43-56.	11.0	234
25	InÂvitro and inÂvivo functions of SARS-CoV-2 infection-enhancing and neutralizing antibodies. Cell, 2021, 184, 4203-4219.e32.	28.9	228
26	Vaccine requirements for sustained cellular immunity to an intracellular parasitic infection. Nature Medicine, 1998, 4, 1409-1415.	30.7	223
27	Peptide–TLR-7/8a conjugate vaccines chemically programmed for nanoparticle self-assembly enhance CD8 T-cell immunity to tumor antigens. Nature Biotechnology, 2020, 38, 320-332.	17.5	210
28	Attenuated PfSPZ Vaccine induces strain-transcending T cells and durable protection against heterologous controlled human malaria infection. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2711-2716.	7.1	201
29	Neutralizing antibody vaccine for pandemic and pre-emergent coronaviruses. Nature, 2021, 594, 553-559.	27.8	199
30	Dendritic cell-targeted vaccines â€" hope or hype?. Nature Reviews Immunology, 2014, 14, 705-711.	22.7	189
31	CpG Oligodeoxynucleotides as Vaccine Adjuvants in Primates. Journal of Immunology, 2002, 168, 1659-1663.	0.8	184
32	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
33	Vaccination with Heat-killed Leishmania Antigen or Recombinant Leishmanial Protein and CpG Oligodeoxynucleotides Induces Long-Term Memory CD4+and CD8+T Cell Responses and Protection Against Leishmania major Infection. Journal of Experimental Medicine, 2002, 195, 1565-1573.	8.5	162
34	Progress with Plasmodium falciparum sporozoite (PfSPZ)-based malaria vaccines. Vaccine, 2015, 33, 7452-7461.	3.8	152
35	Malaria prevention: from immunological concepts to effective vaccines and protective antibodies. Nature Immunology, 2018, 19, 1199-1211.	14.5	137
36	Atypical B cells are part of an alternative lineage of B cells that participates in responses to vaccination and infection in humans. Cell Reports, 2021, 34, 108684.	6.4	134

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37	Requirements for the Maintenance of Th1 Immunity In Vivo Following DNA Vaccination: A Potential Immunoregulatory Role for CD8+ T Cells. Journal of Immunology, 2000, 165, 915-924.	0.8	132
38	The Potency and Durability of DNA- and Protein-Based Vaccines Against <i>Leishmania major</i> Evaluated Using Low-Dose, Intradermal Challenge. Journal of Immunology, 2001, 166, 5122-5128.	0.8	131
39	Immunization with HIV Gag targeted to dendritic cells followed by recombinant New York vaccinia virus induces robust T-cell immunity in nonhuman primates. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7131-7136.	7.1	121
40	Poly(I:C) is an effective adjuvant for antibody and multi-functional CD4+ T cell responses to Plasmodium falciparum circumsporozoite protein (CSP) and αDEC-CSP in non human primates. Vaccine, 2010, 28, 7256-7266.	3.8	119
41	Quality and quantity of T <sub>FH</sub> cells are critical for broad antibody development in SHIV <sub>AD8</sub> infection. Science Translational Medicine, 2015, 7, 298ra120.	12.4	119
42	Defining the risk of SARS-CoV-2 variants on immune protection. Nature, 2022, 605, 640-652.	27.8	117
43	Safety, Immunogenicity, and Protective Efficacy against Controlled Human Malaria Infection of Plasmodium falciparum Sporozoite Vaccine in Tanzanian Adults. American Journal of Tropical Medicine and Hygiene, 2018, 99, 338-349.	1.4	114
44	Intravenous nanoparticle vaccination generates stem-like TCF1+ neoantigen-specific CD8+ T cells. Nature Immunology, 2021, 22, 41-52.	14.5	110
45	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. Journal of Immunology, 2013, 190, 2720-2735.	0.8	99
46	A Potent Anti-Malarial Human Monoclonal Antibody Targets Circumsporozoite Protein Minor Repeats and Neutralizes Sporozoites in the Liver. Immunity, 2020, 53, 733-744.e8.	14.3	99
47	Th1 memory: implications for vaccine development. Immunological Reviews, 2006, 211, 58-66.	6.0	98
48	Antigen expression determines adenoviral vaccine potency independent of IFN and STING signaling. Journal of Clinical Investigation, 2015, 125, 1129-1146.	8.2	97
49	The role of cytokine DNAs as vaccine adjuvants for optimizing cellular immune responses. Immunological Reviews, 2004, 202, 266-274.	6.0	96
50	A Monoclonal Antibody for Malaria Prevention. New England Journal of Medicine, 2021, 385, 803-814.	27.0	95
51	Innate transcriptional effects by adjuvants on the magnitude, quality, and durability of HIV envelope responses in NHPs. Blood Advances, 2017, 1, 2329-2342.	5.2	90
52	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> Journal of Immunology, 2014, 193, 1799-1811.	0.8	87
53	Antibody Feedback Limits the Expansion of B Cell Responses to Malaria Vaccination but Drives Diversification of the Humoral Response. Cell Host and Microbe, 2020, 28, 572-585.e7.	11.0	87
54	Protection against SARS-CoV-2 Beta variant in mRNA-1273 vaccine–boosted nonhuman primates. Science, 2021, 374, 1343-1353.	12.6	83

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55	IL-10 production differentially influences the magnitude, quality, and protective capacity of Th1 responses depending on the vaccine platform. Journal of Experimental Medicine, 2010, 207, 1421-1433.	8.5	81
56	Analysis of immunoglobulin transcripts and hypermutation following SHIVAD8 infection and protein-plus-adjuvant immunization. Nature Communications, 2015, 6, 6565.	12.8	77
57	Full-Length Plasmodium falciparum Circumsporozoite Protein Administered with Long-Chain Poly(I·C) or the Toll-Like Receptor 4 Agonist Glucopyranosyl Lipid Adjuvant-Stable Emulsion Elicits Potent Antibody and CD4 <sup>+</sup> T Cell Immunity and Protection in Mice. Infection and Immunity, 2013, 81, 789-800.	2.2	74
58	Regulation of transforming growth factorâ€Î² production by interleukinâ€12. European Journal of Immunology, 1997, 27, 1213-1220.	2.9	73
59	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. Journal of Immunology, 2010, 185, 1513-1521.	0.8	66
60	Genetic immunization in the lung induces potent local and systemic immune responses. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22213-22218.	7.1	65
61	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
62	Cytokine regulation of IL-12 receptor $\hat{l}^2$ 2 expression: differential effects on human T and NK cells. European Journal of Immunology, 2000, 30, 1364-1374.	2.9	63
63	Variant SARS-CoV-2 mRNA vaccines confer broad neutralization as primary or booster series in mice. Vaccine, 2021, 39, 7394-7400.	3.8	63
64	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. American Journal of Tropical Medicine and Hygiene, 2019, 100, 1433-1444.	1.4	61
65	Fab-dimerized glycan-reactive antibodies are a structural category of natural antibodies. Cell, 2021, 184, 2955-2972.e25.	28.9	57
66	mRNA-1273 protects against SARS-CoV-2 beta infection in nonhuman primates. Nature Immunology, 2021, 22, 1306-1315.	14.5	57
67	Protective antibodies elicited by SARS-CoV-2 spike protein vaccination are boosted in the lung after challenge in nonhuman primates. Science Translational Medicine, 2021, 13, .	12.4	56
68	Robust IgM responses following intravenous vaccination with Bacille Calmette–Guérin associate with prevention of Mycobacterium tuberculosis infection in macaques. Nature Immunology, 2021, 22, 1515-1523.	14.5	55
69	Fcε receptor-positive cells are a major source of antigen-induced interleukin-4 in spleens of mice infected withSchistosoma mansoni. European Journal of Immunology, 1993, 23, 1910-1916.	2.9	54
70	Polyinosinic-Polycytidylic Acid Is the Most Effective TLR Adjuvant for SIV Gag Protein–Induced T Cell Responses In Nonhuman Primates. Journal of Immunology, 2013, 190, 4103-4115.	0.8	49
71	Safety, immunogenicity and efficacy of PfSPZ Vaccine against malaria in infants in western Kenya: a double-blind, randomized, placebo-controlled phase 2 trial. Nature Medicine, 2021, 27, 1636-1645.	30.7	47
72	A SARS-CoV-2 spike ferritin nanoparticle vaccine protects hamsters against Alpha and Beta virus variant challenge. Npj Vaccines, 2021, 6, 129.	6.0	47

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73	Increase of Dose Associated With Decrease in Protection Against Controlled Human Malaria Infection by PfSPZ Vaccine in Tanzanian Adults. Clinical Infectious Diseases, 2020, 71, 2849-2857.	5.8	46
74	SIV infection of rhesus macaques results in dysfunctional T- and B-cell responses to neo and recall Leishmania major vaccination. Blood, 2011, 118, 5803-5812.	1.4	45
75	Monocytes Acquire the Ability to Prime Tissue-Resident T Cells via IL-10-Mediated TGF- $\hat{l}^2$ Release. Cell Reports, 2019, 28, 1127-1135.e4.	6.4	45
76	Type I IFN Induced by Adenovirus Serotypes 28 and 35 Has Multiple Effects on T Cell Immunogenicity. Journal of Immunology, 2012, 188, 6109-6118.	0.8	44
77	Thermoresponsive Polymer Nanoparticles Co-deliver RSV F Trimers with a TLR-7/8 Adjuvant. Bioconjugate Chemistry, 2016, 27, 2372-2385.	3.6	44
78	Humoral protection against mosquito bite-transmitted Plasmodium falciparum infection in humanized mice. Npj Vaccines, 2017, 2, 27.	6.0	44
79	Boosting BCG with proteins or rAd5 does not enhance protection against tuberculosis in rhesus macaques. Npj Vaccines, 2019, 4, 21.	6.0	44
80	Human and rhesus plasmacytoid dendritic cell and B-cell responses to Toll-like receptor stimulation. Immunology, 2011, 134, 257-269.	4.4	43
81	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. European Journal of Immunology, 1991, 21, 1241-1247.	2.9	41
82	Human Anti-CD40 Antibody and Poly IC:LC Adjuvant Combination Induces Potent T Cell Responses in the Lung of Nonhuman Primates. Journal of Immunology, 2015, 195, 1015-1024.	0.8	36
83	Star nanoparticles delivering HIV-1 peptide minimal immunogens elicit near-native envelope antibody responses in nonhuman primates. PLoS Biology, 2019, 17, e3000328.	5.6	33
84	Impact of Polymer-TLR-7/8 Agonist (Adjuvant) Morphology on the Potency and Mechanism of CD8 T Cell Induction. Biomacromolecules, 2019, 20, 854-870.	5 <b>.</b> 4	32
85	Bystander responses impact accurate detection of murine and human antigen-specific CD8+ T cells. Journal of Clinical Investigation, 2019, 129, 3894-3908.	8.2	29
86	A nonhuman primate toxicology and immunogenicity study evaluating aerosol delivery of AERAS-402/Ad35 vaccine. Human Vaccines and Immunotherapeutics, 2014, 10, 2199-2210.	3.3	25
87	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. Clinical Infectious Diseases, 2020, 71, 1063-1071.	5.8	25
88	Enhancing durability of CIS43 monoclonal antibody by Fc mutation or AAV delivery for malaria prevention. JCI Insight, 2021, 6, .	5.0	25
89	IFN- $\hat{I}^3$ Mediates the Death of Th1 Cells in a Paracrine Manner. Journal of Immunology, 2008, 180, 842-849.	0.8	22
90	Rapid SIV Env-specific mucosal and serum antibody induction augments cellular immunity in protecting immunized, elite-controller macaques against high dose heterologous SIV challenge. Virology, 2011, 411, 87-102.	2.4	22

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91	Stochastic Expansions Maintain the Clonal Stability of CD8+ T Cell Populations Undergoing Memory Inflation Driven by Murine Cytomegalovirus. Journal of Immunology, 2020, 204, 112-121.	0.8	21
92	Functional human IgA targets a conserved site on malaria sporozoites. Science Translational Medicine, 2021, 13, .	12.4	21
93	The P. falciparum CSP repeat region contains three distinct epitopes required for protection by antibodies in vivo. PLoS Pathogens, 2021, 17, e1010042.	4.7	21
94	Protective effects of combining monoclonal antibodies and vaccines against the Plasmodium falciparum circumsporozoite protein. PLoS Pathogens, 2021, 17, e1010133.	4.7	20
95	Coadministration of Polyinosinic:Polycytidylic Acid and Immunostimulatory Complexes Modifies Antigen Processing in Dendritic Cell Subsets and Enhances HIV Gag-Specific T Cell Immunity. Journal of Immunology, 2013, 191, 5085-5096.	0.8	19
96	Vaccination in a humanized mouse model elicits highly protective PfCSP-targeting anti-malarial antibodies. Immunity, 2021, 54, 2859-2876.e7.	14.3	19
97	T Cells Specific for a Mycobacterial Glycolipid Expand after Intravenous Bacillus Calmette–Guérin Vaccination. Journal of Immunology, 2021, 206, 1240-1250.	0.8	18
98	Combination recombinant simian or chimpanzee adenoviral vectors for vaccine development. Vaccine, 2015, 33, 7344-7351.	3.8	16
99	Design of Alphavirus Virus-Like Particles Presenting Circumsporozoite Junctional Epitopes That Elicit Protection against Malaria. Vaccines, 2021, 9, 272.	4.4	16
100	Chemical cross-linking of HIV-1 Env for direct TLR7/8 ligand conjugation compromises recognition of conserved antigenic determinants. Virology, 2013, 446, 56-65.	2.4	15
101	Immunological and pathological evaluation of rhesus macaques infected with Leishmania major. Experimental Parasitology, 2003, 103, 160-168.	1.2	13
102	Evaluation of heterologous prime-boost vaccination strategies using chimpanzee adenovirus and modified vaccinia virus for TB subunit vaccination in rhesus macaques. Npj Vaccines, 2020, 5, 39.	6.0	13
103	The light chain of the L9 antibody is critical for binding circumsporozoite protein minor repeats and preventing malaria. Cell Reports, 2022, 38, 110367.	6.4	11
104	<scp>OMIPâ€067</scp> : 28â€Color Flow Cytometry Panel to Evaluate Human Tâ€Cell Phenotype and Function. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 1032-1036.	1.5	10
105	Highly protective antimalarial antibodies via precision library generation and yeast display screening. Journal of Experimental Medicine, 2022, 219, .	8.5	9
106	Are Differentiated Human T Helper Cells Reversible?. International Archives of Allergy and Immunology, 1997, 113, 163-166.	2.1	7
107	Memory may not need reminding. Nature Medicine, 2004, 10, 1045-1047.	30.7	6
108	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. Malaria Journal, 2020, 19, 226.	2.3	6

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109	Host–pathogen interactions in the 21st century. Current Opinion in Immunology, 2005, 17, 335-337.	5.5	3
110	mRNA-1273 vaccination protects against SARS-CoV-2–elicited lung inflammation in nonhuman primates. JCI Insight, 2022, 7, .	5.0	3
111	Progress with PfSPZ Vaccine, a radiation attenuated Plasmodium falciparum sporozoite vaccine. Malaria Journal, 2014, 13, .	2.3	0