Darrick Carter

List of Publications by Year
in descending order

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97 papers	4,401 citations	87888 38 h-index	114465 63 g-index
101 all docs	101 docs citations	101 times ranked	5780 citing authors

#	Article	IF	Citations
1	Insertional Tagging, Cloning, and Expression of the Hypoxanthine-Xanthine-Guanine Phosphoribosyltransferase Gene. Journal of Biological Chemistry, 1996, 271, 14010-14019.	3.4	401
2	Mutations inPlasmodium falciparumDihydrofolate Reductase and Dihydropteroate Synthase and Epidemiologic Patterns of Pyrimethamineâ€Sulfadoxine Use and Resistance. Journal of Infectious Diseases, 1997, 176, 1590-1596.	4.0	395
3	Development and Characterization of Synthetic Glucopyranosyl Lipid Adjuvant System as a Vaccine Adjuvant. PLoS ONE, 2011, 6, e16333.	2.5	281
4	An Alphavirus -derived replicon RNA vaccine induces SARS-CoV-2 neutralizing antibody and T cell responses in mice and nonhuman primates. Science Translational Medicine, 2020, 12, .	12.4	181
5	Immunization with a Polyprotein Vaccine Consisting of the T-Cell Antigens Thiol-Specific Antioxidant, Leishmania major Stress-Inducible Protein 1, and Leishmania Elongation Initiation Factor Protects against Leishmaniasis. Infection and Immunity, 2002, 70, 4215-4225.	2.2	133
6	Crystal structures of Toxoplasma gondii HGXPRTase reveal the catalytic role of a long flexible loop. Nature Structural and Molecular Biology, 1996, 3, 881-887.	8.2	102
7	Glucopyranosyl Lipid Adjuvant (GLA), a Synthetic TLR4 Agonist, Promotes Potent Systemic and Mucosal Responses to Intranasal Immunization with HIVgp140. PLoS ONE, 2012, 7, e41144.	2.5	96
8	Reprogramming the adjuvant properties of aluminum oxyhydroxide with nanoparticle technology. Npj Vaccines, 2019, 4, 1.	6.0	91
9	Optimized subunit vaccine protects against experimental leishmaniasis. Vaccine, 2009, 27, 7036-7045.	3.8	89
10	Purification and Characterization of the Mammaglobin/Lipophilin B Complex, a Promising Diagnostic Marker for Breast Cancerâ€. Biochemistry, 2002, 41, 6714-6722.	2.5	84
11	Targeting TLRs Expands the Antibody Repertoire in Response to a Malaria Vaccine. Science Translational Medicine, 2011, 3, 93ra69.	12.4	83
12	Mammaglobin: a candidate diagnostic marker for breast cancer. Clinical Biochemistry, 2004, 37, 249-257.	1.9	75
13	The science of vaccine adjuvants: advances in TLR4 ligand adjuvants. Current Opinion in Immunology, 2016, 41, 85-90.	5.5	66
14	A Formulated TLR7/8 Agonist is a Flexible, Highly Potent and Effective Adjuvant for Pandemic Influenza Vaccines. Scientific Reports, 2017, 7, 46426.	3.3	66
15	A nanoliposome delivery system to synergistically trigger TLR4 AND TLR7. Journal of Nanobiotechnology, 2014, 12, 17.	9.1	65
16	Squalene emulsion potentiates the adjuvant activity of the TLR4 agonist, GLA, via inflammatory caspases, ILâ€1β, and IFNâ€β. European Journal of Immunology, 2015, 45, 407-417.	2.9	65
17	Adjuvants for malaria vaccines. Parasite Immunology, 2009, 31, 520-528.	1.5	61
18	Localization and Targeting of the Leishmania donovaniHypoxanthine-Guanine Phosphoribosyltransferase to the Glycosome. Journal of Biological Chemistry, 1998, 273, 1534-1541.	3.4	59

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19	A synthetic TLR4 agonist formulated in an emulsion enhances humoral and Type 1 cellular immune responses against GMZ2 â€“ A GLURPâ€“MSP3 fusion protein malaria vaccine candidate. Vaccine, 2011, 29, 3284-3292.	3.8	59
20	Immunological Dominance of Trypanosoma cruzi Tandem Repeat Proteins. Infection and Immunity, 2008, 76, 3967-3974.	2.2	56
21	Coadministration of Epithelial Junction Opener JO-1 Improves the Efficacy and Safety of Chemotherapeutic Drugs. Clinical Cancer Research, 2012, 18, 3340-3351.	7.0	56
22	Comparative Systems Analyses Reveal Molecular Signatures of Clinically tested Vaccine Adjuvants. Scientific Reports, 2016, 6, 39097.	3.3	53
23	Malaria vaccine candidate based on Duffy-binding protein elicits strain transcending functional antibodies in a Phase I trial. Npj Vaccines, 2018, 3, 48.	6.0	52
24	Development of a schistosomiasis vaccine. Expert Review of Vaccines, 2016, 15, 619-627.	4.4	51
25	Chitin Microneedles for an Easyâ€toâ€Use Tuberculosis Skin Test. Advanced Healthcare Materials, 2014, 3, 349-353.	7.6	50
26	Selection of Antigens and Development of Prototype Tests for Point-of-Care Leprosy Diagnosis. Vaccine Journal, 2008, 15, 1590-1597.	3.1	48
27	Role of adjuvants in modeling the immune response. Current Opinion in HIV and AIDS, 2010, 5, 409-413.	3.8	48
28	Alga-Produced Malaria Transmission-Blocking Vaccine Candidate Pfs25 Formulated with a Human Use-Compatible Potent Adjuvant Induces High-Affinity Antibodies That Block Plasmodium falciparum Infection of Mosquitoes. Infection and Immunity, 2015, 83, 1799-1808.	2.2	48
29	Protein nanovaccine confers robust immunity against Toxoplasma. Npj Vaccines, 2017, 2, 24.	6.0	47
30	Specific IgG antibody responses may be used to monitor leprosy treatment efficacy and as recurrence prognostic markers. European Journal of Clinical Microbiology and Infectious Diseases, 2011, 30, 1257-1265.	2.9	46
31	Cross-species protection: Schistosoma mansoni Sm-p80 vaccine confers protection against Schistosoma haematobium in hamsters and baboons. Vaccine, 2014, 32, 1296-1303.	3.8	45
32	Protein Microarray Analysis of the Specificity and Cross-Reactivity of Influenza Virus Hemagglutinin-Specific Antibodies. MSphere, 2018, 3, .	2.9	45
33	A structureâ€function approach to optimizing TLR4 ligands for human vaccines. Clinical and Translational Immunology, 2016, 5, e108.	3.8	44
34	Recombinant expression, purification, and characterization of Toxoplasma gondii adenosine kinase. Molecular and Biochemical Parasitology, 1999, 103, 15-23.	1.1	43
35	Molecular and biochemical studies on the hypoxanthine-guanine phosphoribosyltransferases of the pathogenic haemoflagellates. International Journal for Parasitology, 1997, 27, 203-213.	3.1	42
36	Smâ€p80â€based schistosomiasis vaccine: doubleâ€blind preclinical trial in baboons demonstrates comprehensive prophylactic and parasite transmissionâ€blocking efficacy. Annals of the New York Academy of Sciences, 2018, 1425, 38-51.	3.8	42

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37	Use of an Sm-p80-Based Therapeutic Vaccine to Kill Established Adult Schistosome Parasites in Chronically Infected Baboons. Journal of Infectious Diseases, 2014, 209, 1929-1940.	4.0	41
38	Expression, purification, and characterization of uracil phosphoribosyltransferase from Toxoplasma gondii. Molecular and Biochemical Parasitology, 1997, 87, 137-144.	1.1	40
39	Insight toward Early Diagnosis of Leprosy through Analysis of the Developing Antibody Responses of Mycobacterium leprae -Infected Armadillos. Vaccine Journal, 2011, 18, 254-259.	3.1	37
40	Intracellular Signaling and Desmoglein 2 Shedding Triggered by Human Adenoviruses Ad3, Ad14, and Ad14P1. Journal of Virology, 2015, 89, 10841-10859.	3.4	37
41	Comparative Immunogenicity of HIV-1 gp140 Vaccine Delivered by Parenteral, and Mucosal Routes in Female Volunteers; MUCOVAC2, A Randomized Two Centre Study. PLoS ONE, 2016, 11, e0152038.	2.5	37
42	Synthetic TLR4 agonists enhance functional antibodies and CD4+ T-cell responses against the Plasmodium falciparum GMZ2.6C multi-stage vaccine antigen. Vaccine, 2016, 34, 2207-2215.	3.8	37
43	Effective Combination Adjuvants Engage Both TLR and Inflammasome Pathways To Promote Potent Adaptive Immune Responses. Journal of Immunology, 2018, 201, 98-112.	0.8	37
44	Rational Design and Evaluation of a Multiepitope Chimeric Fusion Protein with the Potential for Leprosy Diagnosis. Vaccine Journal, 2010, 17, 298-303.	3.1	36
45	The adjuvant GLA-AF enhances human intradermal vaccine responses. Science Advances, 2018, 4, eaas9930.	10.3	36
46	Glucopyranosyl Lipid A Adjuvant Significantly Enhances HIV Specific T and B Cell Responses Elicited by a DNA-MVA-Protein Vaccine Regimen. PLoS ONE, 2014, 9, e84707.	2.5	36
47	Differential Localization of Alternatively Spliced Hypoxanthine-Xanthine-Guanine Phosphoribosyltransferase Isoforms in Toxoplasma gondii. Journal of Biological Chemistry, 2005, 280, 22053-22059.	3.4	35
48	Correlates of GLA family adjuvantsâ€™ activities. Seminars in Immunology, 2018, 39, 22-29.	5.6	35
49	Immunization with full-length Plasmodium falciparum merozoite surface protein 1 is safe and elicits functional cytophilic antibodies in a randomized first-in-human trial. Npj Vaccines, 2020, 5, 10.	6.0	34
50	Use of ProteinChipâ„¢ array surface enhanced laser desorption/ionization time-of-flight mass spectrometry (SELDI-TOF MS) to identify thymosin Î²-4, a differentially secreted protein from lymphoblastoid cell lines. Journal of the American Society for Mass Spectrometry, 2003, 14, 760-765.	2.8	33
51	Upregulated Expression of B-Cell Antigen Family Tandem Repeat Proteins byLeishmaniaAmastigotes. Infection and Immunity, 2010, 78, 2138-2145.	2.2	32
52	Longevity of Sm-p80-specific antibody responses following vaccination with Sm-p80 vaccine in mice and baboons and transplacental transfer of Sm-p80-specific antibodies in a baboon. Parasitology Research, 2014, 113, 2239-2250.	1.6	32
53	Detection of Mammaglobin in the Sera of Patients with Breast Cancer. Tumor Biology, 2002, 23, 212-221.	1.8	31
54	IL-18 and Subcapsular Lymph Node Macrophages are Essential for Enhanced B Cell Responses with TLR4 Agonist Adjuvants. Journal of Immunology, 2016, 197, 4351-4359.	0.8	31

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55	Epithelial Junction Opener Improves Oncolytic Adenovirus Therapy in Mouse Tumor Models. Human Gene Therapy, 2016, 27, 325-337.	2.7	28
56	Comparison of multiple adjuvants on the stability and immunogenicity of a clade C HIV-1 gp140 trimer. Vaccine, 2014, 32, 2109-2116.	3.8	27
57	TLR4 and TLR7/8 Adjuvant Combinations Generate Different Vaccine Antigen-Specific Immune Outcomes in Minipigs when Administered via the ID or IN Routes. PLoS ONE, 2016, 11, e0148984.	2.5	27
58	Recombinant polymorphic membrane protein D in combination with a novel, second-generation lipid adjuvant protects against intra-vaginal Chlamydia trachomatis infection in mice. Vaccine, 2016, 34, 4123-4131.	3.8	25
59	Induction of Tumor-Reactive CTL by C-Side Chain Variants of the CTL Epitope HER-2/neu Protooncogene (369-377) Selected by Molecular Modeling of the Peptide: HLA-A2 Complex. Journal of Immunology, 2002, 169, 3545-3554.	0.8	24
60	Preclinical safety and efficacy studies with an affinity-enhanced epithelial junction opener and PEGylated liposomal doxorubicin. Molecular Therapy - Methods and Clinical Development, 2015, 2, 15005.	4.1	23
61	Development of a high density hemagglutinin protein microarray to determine the breadth of influenza antibody responses. BioTechniques, 2013, 54, 345-348.	1.8	21
62	Schistosoma Mansoni Antigen Sm-p80: Prophylactic Efficacy using TLR4 Agonist Vaccine Adjuvant Glucopyranosyl Lipid A-Alum in Murine and Non-Human Primate Models. Journal of Investigative Medicine, 2018, 66, 1124-1132.	1.6	19
63	Transient Removal of CD46 Is Safe and Increases B-cell Depletion by Rituximab in CD46 Transgenic Mice and Macaques. Molecular Therapy, 2013, 21, 291-299.	8.2	18
64	A Spray-Dried Combination of Capreomycin and CPZEN-45 for Inhaled Tuberculosis Therapy. Journal of Pharmaceutical Sciences, 2019, 108, 3302-3311.	3.3	18
65	Physicochemical structure of a polyacrylic acid stabilized nanoparticle alum (nanoalum) adjuvant governs TH1 differentiation of CD4+ T cells. Nanoscale, 2020, 12, 2515-2523.	5.6	18
66	Desmoglein-2 as a prognostic and biomarker in ovarian cancer. Cancer Biology and Therapy, 2020, 21, 1154-1162.	3.4	17
67	Fifteen Years of Sm-p80-Based Vaccine Trials in Nonhuman Primates: Antibodies From Vaccinated Baboons Confer Protection in vivo and in vitro From Schistosoma mansoni and Identification of Putative Correlative Markers of Protection. Frontiers in Immunology, 2020, 11, 1246.	4.8	17
68	Sensitivity of Undifferentiated, High-TCR Density CD8+ Cells to Methylene Groups Appended to Tumor Antigen Determines Their Differentiation or Death. Cancer Research, 2005, 65, 2930-2937.	0.9	15
69	Sm-p80-based schistosomiasis vaccine mediated epistatic interactions identified potential immune signatures for vaccine efficacy in mice and baboons. PLoS ONE, 2017, 12, e0171677.	2.5	15
70	Clinical Adjuvant Combinations Stimulate Potent B-Cell Responses In Vitro by Activating Dermal Dendritic Cells. PLoS ONE, 2013, 8, e63785.	2.5	13
71	Serum antibodies to lipophilin B detected in late stage breast cancer patients. Clinical Cancer Research, 2003, 9, 749-54.	7.0	13
72	Protein engineering to target complement evasion in cancer. FEBS Letters, 2014, 588, 334-340.	2.8	12

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73	Preclinical safety, pharmacokinetics, pharmacodynamics, and biodistribution studies with Ad35K++ protein: a novel rituximab cotherapeutic. Molecular Therapy - Methods and Clinical Development, 2016, 3, 16013.	4.1	11
74	Vaccination of aged mice with adjuvanted recombinant influenza nucleoprotein enhances protective immunity. Vaccine, 2020, 38, 5256-5267.	3.8	11
75	Vaccine adjuvant activity of emulsified oils from species of the Pinaceae family. Phytomedicine, 2019, 64, 152927.	5.3	10
76	Biased cellular locations of tandem repeat antigens in African trypanosomes. Biochemical and Biophysical Research Communications, 2011, 405, 434-438.	2.1	9
77	Structure-based Design of JOC-x, a Conjugatable Tumor Tight Junction Opener to Enhance Cancer Therapy. Scientific Reports, 2019, 9, 6169.	3.3	9
78	Crithidia fasciculata:Isolation, Sequencing, and Expression of the Hypoxanthine-Guanine Phosphoribosyltransferase Gene. Experimental Parasitology, 1996, 82, 73-75.	1.2	8
79	Recombinant Ad35 adenoviral proteins as potent modulators of human Tâ€cell activation. Immunology, 2015, 144, 453-460.	4.4	8
80	Recent Advances and Methodological Considerations on Vaccine Candidates for Human Schistosomiasis. Frontiers in Tropical Diseases, 2021, 2, .	1.4	8
81	Expression and purification of immunologically reactive DPPD, a recombinantMycobacterium tuberculosisskin test antigen, usingMycobacterium smegmatisandEscherichia colihost cells. Canadian Journal of Microbiology, 2004, 50, 97-105.	1.7	7
82	Multi-epitope proteins for improved serological detection of Trypanosoma cruzi infection and Chagas Disease. Diagnostic Microbiology and Infectious Disease, 2016, 84, 191-196.	1.8	7
83	An adjuvanted zoster vaccine elicits potent cellular immune responses in mice without QS21. Npj Vaccines, 2022, 7, 45.	6.0	7
84	Development of a recombinant vaccine against human onchocerciasis. Expert Review of Vaccines, 2021, 20, 1459-1470.	4.4	6
85	Chemical deglycosylation can induce methylation, succinimide formation, and isomerization. The Protein Journal, 2001, 20, 571-576.	1.1	4
86	Serological characterizations of tandem repeat proteins for detection of African trypanosome infection in cattle. Parasitology International, 2011, 60, 538-540.	1.3	4
87	Process Development of Sj-p80: A Low-Cost Transmission-Blocking Veterinary Vaccine for Asiatic Schistosomiasis. Frontiers in Immunology, 2020, 11, 578715.	4.8	4
88	Accounting for adjuvant-induced artifacts in the characterization of vaccine formulations by polyacrylamide gel electrophoresis. Therapeutic Advances in Vaccines, 2017, 5, 31-38.	2.7	3
89	Adjuvants. Current Topics in Microbiology and Immunology, 2018, 428, 103-127.	1.1	3
90	Translational development of a tumor junction opening technology. Scientific Reports, 2022, 12, 7753.	3.3	3

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91	EXPLORING THE PROTEIN LANDSCAPE IN RAMACHANDRAN SPACE: IT'S NOT JUST PSI-PHI. Journal of Bioinformatics and Computational Biology, 2009, 07, 1031-1037.	0.8	0
92	FLEXGREPPS â€" FLEXIBLE GREEDY PEPTIDE POOL SEARCH: COMPUTATION OF NEAR-OPTIMAL SETS OF DEGENERATE POLYPEPTIDES FOR ANTIGENIC SCREENING. Journal of Bioinformatics and Computational Biology, 2012, 10, 1250009.	0.8	0
93	E114â€ƒRational Design and Clinical Development of New Adjuvants. Journal of Acquired Immune Deficiency Syndromes (1999), 2013, 62, 57.	2.1	0
94	E-104â€ƒDesign and Development of Adjuvants for HIV Vaccines. Journal of Acquired Immune Deficiency Syndromes (1999), 2014, 67, 60.	2.1	0
95	Combinations of TLR4 and TLR7/8 Adjuvants Administered via the ID or IN Routes Generate Different Vaccine Antigen-specific Immune Outcomes in Minipigs. AIDS Research and Human Retroviruses, 2014, 30, A194-A195.	1.1	0
96	P763â€…Attenuation of syphilis infection following immunization of rabbits with a trivalent antigen cocktail. , 2019, , .		0
97	P754â€…Quantitation of cytokines in rabbits following tri-antigen vaccine cocktail immunization andT. pallidumchallenge. , 2019, , .		0