

Chad J Roy

List of Publications by Year in descending order

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Version: 2024-02-01

117
papers

6,769
citations

61984

43
h-index

74163

75
g-index

135
all docs

135
docs citations

135
times ranked

9619
citing authors

#	ARTICLE	IF	CITATIONS
1	Animal models for COVID-19. <i>Nature</i> , 2020, 586, 509-515.	27.8	705
2	Persistence of Severe Acute Respiratory Syndrome Coronavirus 2 in Aerosol Suspensions. <i>Emerging Infectious Diseases</i> , 2020, 26, 2168-2171.	4.3	293
3	Airborne Transmission of Communicable Infection – The Elusive Pathway. <i>New England Journal of Medicine</i> , 2004, 350, 1710-1712.	27.0	282
4	Adjuvanting a subunit COVID-19 vaccine to induce protective immunity. <i>Nature</i> , 2021, 594, 253-258.	27.8	253
5	Mucosal vaccination with attenuated <i>Mycobacterium tuberculosis</i> induces strong central memory responses and protects against tuberculosis. <i>Nature Communications</i> , 2015, 6, 8533.	12.8	196
6	A smartphone-read ultrasensitive and quantitative saliva test for COVID-19. <i>Science Advances</i> , 2021, 7, .	10.3	175
7	Exhaled aerosol increases with COVID-19 infection, age, and obesity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	161
8	Genetic Requirements for the Survival of Tubercle Bacilli in Primates. <i>Journal of Infectious Diseases</i> , 2010, 201, 1743-1752.	4.0	159
9	Protective Immunization against Inhalational Anthrax: A Comparison of Minimally Invasive Delivery Platforms. <i>Journal of Infectious Diseases</i> , 2005, 191, 278-288.	4.0	155
10	Adjuvant-carrying synthetic vaccine particles augment the immune response to encapsulated antigen and exhibit strong local immune activation without inducing systemic cytokine release. <i>Vaccine</i> , 2014, 32, 2882-2895.	3.8	144
11	The DosR Regulon Modulates Adaptive Immunity and Is Essential for <i>Mycobacterium tuberculosis</i> Persistence. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015, 191, 1185-1196.	5.6	142
12	The automated bioaerosol exposure system: Preclinical platform development and a respiratory dosimetry application with nonhuman primates. <i>Journal of Pharmacological and Toxicological Methods</i> , 2004, 49, 39-55.	0.7	127
13	Protection conferred by recombinant <i>Yersinia pestis</i> antigens produced by a rapid and highly scalable plant expression system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 861-866.	7.1	125
14	CD4 ⁺ T-cell-independent mechanisms suppress reactivation of latent tuberculosis in a macaque model of HIV coinfection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5636-44.	7.1	123
15	Acute Respiratory Distress in Aged, SARS-CoV-2-Infected African Green Monkeys but Not Rhesus Macaques. <i>American Journal of Pathology</i> , 2021, 191, 274-282.	3.8	123
16	Microneedle-Based Intradermal Delivery of the Anthrax Recombinant Protective Antigen Vaccine. <i>Infection and Immunity</i> , 2006, 74, 6806-6810.	2.2	116
17	Reactivation of latent tuberculosis in rhesus macaques by coinfection with simian immunodeficiency virus. <i>Journal of Medical Primatology</i> , 2011, 40, 233-243.	0.6	111
18	Neuropathology and virus in brain of SARS-CoV-2 infected non-human primates. <i>Nature Communications</i> , 2022, 13, 1745.	12.8	108

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19	Impact of Inhalation Exposure Modality and Particle Size on the Respiratory Deposition of Ricin in BALB/c Mice. <i>Inhalation Toxicology</i> , 2003, 15, 619-638.	1.6	106
20	A naturally derived outer-membrane vesicle vaccine protects against lethal pulmonary <i>Burkholderia pseudomallei</i> infection. <i>Vaccine</i> , 2011, 29, 8381-8389.	3.8	98
21	SARS-CoV-2 Infects Endothelial Cells In Vivo and In Vitro. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 701278.	3.9	95
22	Liposome-mediated detection of SARS-CoV-2 RNA-positive extracellular vesicles in plasma. <i>Nature Nanotechnology</i> , 2021, 16, 1039-1044.	31.5	90
23	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.	0.8	87
24	Chikungunya Vaccine Candidate Is Highly Attenuated and Protects Nonhuman Primates Against Telemetrically Monitored Disease Following a Single Dose. <i>Journal of Infectious Diseases</i> , 2014, 209, 1891-1899.	4.0	86
25	A <i>Burkholderia pseudomallei</i> Outer Membrane Vesicle Vaccine Provides Protection against Lethal Sepsis. <i>Vaccine Journal</i> , 2014, 21, 747-754.	3.1	85
26	Chikungunya Virus Strains Show Lineage-Specific Variations in Virulence and Cross-Protective Ability in Murine and Nonhuman Primate Models. <i>MBio</i> , 2018, 9, .	4.1	79
27	Cellular events of acute, resolving or progressive COVID-19 in SARS-CoV-2 infected non-human primates. <i>Nature Communications</i> , 2020, 11, 6078.	12.8	78
28	The <i>Mycobacterium tuberculosis</i> Stress Response Factor SigH Is Required for Bacterial Burden as Well as Immunopathology in Primate Lungs. <i>Journal of Infectious Diseases</i> , 2012, 205, 1203-1213.	4.0	74
29	The Integrin Binding Peptide, ATN-161, as a Novel Therapy for SARS-CoV-2 Infection. <i>JACC Basic To Translational Science</i> , 2021, 6, 1-8.	4.1	73
30	Treatment of aerosolized cowpox virus infection in mice with aerosolized cidofovir. <i>Antiviral Research</i> , 2002, 54, 129-142.	4.1	68
31	COVID-19: Famotidine, Histamine, Mast Cells, and Mechanisms. <i>Frontiers in Pharmacology</i> , 2021, 12, 633680.	3.5	64
32	Thermostable ricin vaccine protects rhesus macaques against aerosolized ricin: Epitope-specific neutralizing antibodies correlate with protection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3782-3787.	7.1	63
33	Immunospecific Responses to Bacterial Elongation Factor Tu during <i>Burkholderia</i> Infection and Immunization. <i>PLoS ONE</i> , 2010, 5, e14361.	2.5	63
34	Synthetic Human Monoclonal Antibodies toward Staphylococcal Enterotoxin B (SEB) Protective against Toxic Shock Syndrome. <i>Journal of Biological Chemistry</i> , 2012, 287, 25203-25215.	3.4	61
35	Advances and gaps in SARS-CoV-2 infection models. <i>PLoS Pathogens</i> , 2022, 18, e1010161.	4.7	61
36	Protection of non-human primates against glanders with a gold nanoparticle glycoconjugate vaccine. <i>Vaccine</i> , 2015, 33, 686-692.	3.8	59

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37	Development of a drug delivery system for efficient alveolar delivery of a neutralizing monoclonal antibody to treat pulmonary intoxication to ricin. <i>Journal of Controlled Release</i> , 2016, 234, 21-32.	9.9	57
38	Human Leukocyte Antigen-DQ8 Transgenic Mice: a Model To Examine the Toxicity of Aerosolized Staphylococcal Enterotoxin B. <i>Infection and Immunity</i> , 2005, 73, 2452-2460.	2.2	52
39	OROPHARYNGEAL ASPIRATION OF RICIN AS A LUNG CHALLENGE MODEL FOR EVALUATION OF THE THERAPEUTIC INDEX OF ANTIBODIES AGAINST RICIN A-CHAIN FOR POST-EXPOSURE TREATMENT. <i>Experimental Lung Research</i> , 2007, 33, 459-481.	1.2	52
40	Aerogenic vaccination with a <i>Burkholderia mallei</i> auxotroph protects against aerosol-initiated glanders in mice. <i>Vaccine</i> , 2005, 23, 1986-1992.	3.8	50
41	Differentiation Kinetics of Blood Monocytes and Dendritic Cells in Macaques: Insights to Understanding Human Myeloid Cell Development. <i>Journal of Immunology</i> , 2015, 195, 1774-1781.	0.8	50
42	Serial cultivation of normal human keratinocytes: A defined system for studying the regulation of growth and differentiation. <i>In Vitro Cellular & Developmental Biology</i> , 1992, 28, 429-435.	1.0	47
43	Protection against Aerosolized <i>Yersinia pestis</i> Challenge following Homologous and Heterologous Prime-Boost with Recombinant Plague Antigens. <i>Infection and Immunity</i> , 2005, 73, 5256-5261.	2.2	47
44	Pirfenidone Blocks the In Vitro and In Vivo Effects of Staphylococcal Enterotoxin B. <i>Infection and Immunity</i> , 2002, 70, 2989-2994.	2.2	46
45	Clinical and Pathological Findings Associated with Aerosol Exposure of Macaques to Ricin Toxin. <i>Toxins</i> , 2015, 7, 2121-2133.	3.4	46
46	Lung Expression of Human Angiotensin-Converting Enzyme 2 Sensitizes the Mouse to SARS-CoV-2 Infection. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2021, 64, 79-88.	2.9	45
47	Pulmonary gene expression profiling of inhaled ricin. <i>Toxicon</i> , 2003, 41, 813-822.	1.6	44
48	High Turnover of Tissue Macrophages Contributes to Tuberculosis Reactivation in Simian Immunodeficiency Virus-Infected Rhesus Macaques. <i>Journal of Infectious Diseases</i> , 2018, 217, 1865-1874.	4.0	44
49	Chimeric Plantibody Passively Protects Mice against Aerosolized Ricin Challenge. <i>Vaccine Journal</i> , 2014, 21, 777-782.	3.1	43
50	Susceptibility of monkeypox virus aerosol suspensions in a rotating chamber. <i>Journal of Virological Methods</i> , 2013, 187, 333-337.	2.1	42
51	A virus-like particle vaccine prevents equine encephalitis virus infection in nonhuman primates. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	42
52	Pathogenesis of aerosolized Eastern Equine Encephalitis virus infection in guinea pigs. <i>Virology Journal</i> , 2009, 6, 170.	3.4	41
53	Evaluation of a <i>Burkholderia Pseudomallei</i> Outer Membrane Vesicle Vaccine in Nonhuman Primates. <i>Procedia in Vaccinology</i> , 2014, 8, 38-42.	0.4	39
54	A <i>Burkholderia pseudomallei</i> Outer Membrane Vesicle Vaccine Provides Cross Protection against Inhalational Glanders in Mice and Non-Human Primates. <i>Vaccines</i> , 2017, 5, 49.	4.4	38

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55	Intranasal Administration of Dry Powder Anthrax Vaccine Provides Protection Against Lethal Aerosol Spore Challenge. <i>Hum Vaccin</i> , 2007, 3, 90-93.	2.4	37
56	A chimeric Sindbis-based vaccine protects cynomolgus macaques against a lethal aerosol challenge of eastern equine encephalitis virus. <i>Vaccine</i> , 2013, 31, 1464-1470.	3.8	37
57	Neuropathogenesis of Chikungunya infection: astrogliosis and innate immune activation. <i>Journal of NeuroVirology</i> , 2016, 22, 140-148.	2.1	36
58	Animal Models of Ricin Toxicosis. <i>Current Topics in Microbiology and Immunology</i> , 2011, 357, 243-257.	1.1	33
59	IRES-Containing VEEV Vaccine Protects Cynomolgus Macaques from IE Venezuelan Equine Encephalitis Virus Aerosol Challenge. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003797.	3.0	33
60	Aerobiology and Inhalation Exposure to Biological Select Agents and Toxins. <i>Veterinary Pathology</i> , 2010, 47, 779-789.	1.7	32
61	Aerosol-induced brucellosis increases TLR-2 expression and increased complexity in the microanatomy of astroglia in rhesus macaques. <i>Frontiers in Cellular and Infection Microbiology</i> , 2013, 3, 86.	3.9	32
62	Antiviral prophylaxis of smallpox. <i>Journal of Antimicrobial Chemotherapy</i> , 2004, 54, 1-5.	3.0	28
63	Pathology of Lethal and Sublethal Doses of Aerosolized Ricin in Rhesus Macaques. <i>Toxicologic Pathology</i> , 2014, 42, 573-581.	1.8	27
64	Immunologic Characterization of a Rhesus Macaque H1N1 Challenge Model for Candidate Influenza Virus Vaccine Assessment. <i>Vaccine Journal</i> , 2014, 21, 1668-1680.	3.1	26
65	Burkholderia pseudomallei OMVs derived from infection mimicking conditions elicit similar protection to a live-attenuated vaccine. <i>Npj Vaccines</i> , 2021, 6, 18.	6.0	26
66	Aerosolized Cidofovir Is Retained in the Respiratory Tract and Protects Mice against Intranasal Cowpox Virus Challenge. <i>Antimicrobial Agents and Chemotherapy</i> , 2003, 47, 2933-2937.	3.2	25
67	In situ Treatment With Novel Microbiocide Inhibits Methicillin Resistant Staphylococcus aureus in a Murine Wound Infection Model. <i>Frontiers in Microbiology</i> , 2019, 10, 3106.	3.5	25
68	Post-Exposure Therapeutic Efficacy of COX-2 Inhibition against Burkholderia pseudomallei. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2212.	3.0	24
69	Exposure to Particulates, Microorganisms, $\beta(1\rightarrow3)$ -Glucans, and Endotoxins During Soybean Harvesting. <i>AIHA Journal: A Journal for the Science of Occupational and Environmental Health and Safety</i> , 2003, 64, 487-495.	0.4	23
70	Bioaerosols and Transmission, a Diverse and Growing Community of Practice. <i>Frontiers in Public Health</i> , 2019, 7, 23.	2.7	23
71	Facial Masking for Covid-19. <i>New England Journal of Medicine</i> , 2020, 383, 2092-2094.	27.0	22
72	Rescue of rhesus macaques from the lethality of aerosolized ricin toxin. <i>JCI Insight</i> , 2019, 4, .	5.0	22

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73	Differential susceptibility of inbred mouse strains to <i>Burkholderia thailandensis</i> aerosol infection. <i>Microbial Pathogenesis</i> , 2010, 48, 9-17.	2.9	21
74	Aerosolized adenovirus-vectored vaccine as an alternative vaccine delivery method. <i>Respiratory Research</i> , 2011, 12, 153.	3.6	21
75	Sensitive tracking of circulating viral RNA through all stages of SARS-CoV-2 infection. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	21
76	Anti-infective immunoadhesins from plants. <i>Plant Biotechnology Journal</i> , 2015, 13, 1078-1093.	8.3	18
77	Design of an environmentally controlled rotating chamber for bioaerosol aging studies. <i>Inhalation Toxicology</i> , 2014, 26, 554-558.	1.6	17
78	Comparative in vitro effectiveness of a novel contact lens multipurpose solution on <i>Acanthamoeba castellanii</i> . <i>Journal of Ophthalmic Inflammation and Infection</i> , 2018, 8, 19.	2.2	17
79	Synthetic vaccine particles for durable cytolytic T lymphocyte responses and anti-tumor immunotherapy. <i>PLoS ONE</i> , 2018, 13, e0197694.	2.5	17
80	Effective Treatment of Staphylococcal Enterotoxin B Aerosol Intoxication in Rhesus Macaques by Using Two Parenterally Administered High-Affinity Monoclonal Antibodies. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	17
81	Aerosolized Gentamicin Reduces the Burden of Tuberculosis in a Murine Model. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 883-886.	3.2	14
82	<i>Infectious Disease Aerobiology</i> . , 2005, , 61-76.		14
83	Evaluation of inhaled cidofovir as postexposure prophylactic in an aerosol rabbitpox model. <i>Antiviral Research</i> , 2012, 93, 204-208.	4.1	13
84	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Dose, Infection, and Disease Outcomes for Coronavirus Disease 2019 (COVID-19): A Review. <i>Clinical Infectious Diseases</i> , 2022, 75, e1195-e1201.	5.8	13
85	Effective Prophylaxis of COVID-19 in Rhesus Macaques Using a Combination of Two Parenterally-Administered SARS-CoV-2 Neutralizing Antibodies. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 753444.	3.9	13
86	Infectious disease aerobiology: miasma incarnate. <i>Frontiers in Cellular and Infection Microbiology</i> , 2012, 2, 163.	3.9	12
87	Passive immunization with an extended half-life monoclonal antibody protects Rhesus macaques against aerosolized ricin toxin. <i>Npj Vaccines</i> , 2020, 5, 13.	6.0	12
88	Mucosal Vaccines for Biodefense. <i>Current Topics in Microbiology and Immunology</i> , 2011, 354, 181-195.	1.1	11
89	Prevention and treatment of <i>Clostridium perfringens</i> epsilon toxin intoxication in mice with a neutralizing monoclonal antibody (c4D7) produced in <i>Nicotiana benthamiana</i> . <i>Toxicon</i> , 2014, 88, 93-98.	1.6	11
90	Recent advances in the development of vaccines against ricin. <i>Human Vaccines and Immunotherapeutics</i> , 2016, 12, 1196-1201.	3.3	11

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91	The pigtail macaque (<i>Macaca nemestrina</i>) model of COVID-19 reproduces diverse clinical outcomes and reveals new and complex signatures of disease. <i>PLoS Pathogens</i> , 2021, 17, e1010162.	4.7	11
92	Use of the Aerosol Rabbitpox Virus Model for Evaluation of Anti-Poxvirus Agents. <i>Viruses</i> , 2010, 2, 2096-2107.	3.3	10
93	A New Natural Defense Against Airborne Pathogens. <i>QRB Discovery</i> , 2020, 1, e5.	1.6	10
94	Comparative study of lung cytologic features in normal rhesus (<i>Macaca mulatta</i>), cynomolgus (<i>Macaca fascicularis</i>), and African green (<i>Chlorocebus aethiops</i>) nonhuman primates by use of bronchoscopy. <i>Comparative Medicine</i> , 2004, 54, 393-6.	1.0	10
95	Bioaerosols and airborne transmission: Integrating biological complexity into our perspective. <i>Science of the Total Environment</i> , 2022, 825, 154117.	8.0	9
96	Response to Hypoxia and the Ensuing Dysregulation of Inflammation Impacts <i>Mycobacterium tuberculosis</i> Pathogenicity. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, ,	5.6	8
97	Challenges and Practices in Building and Implementing Biosafety and Biosecurity Programs to Enable Basic and Translational Research with Select Agents. <i>Journal of Bioterrorism & Biodefense</i> , 2013, 01, 12634.	0.1	7
98	<i>Infectious Disease Aerobiology</i> . , 2012, , 65-80.		7
99	Exposure to Particulates, Microorganisms, $\beta(1-3)$ -Glucans, and Endotoxins During Soybean Harvesting. <i>ALHA Journal: A Journal for the Science of Occupational and Environmental Health and Safety</i> , 2003, 64, 487-495.	0.4	7
100	Partnerships as an Avenue to Translate Emerging Disease Ecology of SARS-CoV-2 to Agricultural Groups. <i>Journal of Agromedicine</i> , 2020, 25, 430-433.	1.5	6
101	Rationally Attenuated Vaccines for Venezuelan Equine Encephalitis Protect Against Epidemic Strains with a Single Dose. <i>Vaccines</i> , 2020, 8, 497.	4.4	6
102	Intra-Host SARS-CoV-2 Evolution in the Gut of Mucosally-Infected <i>Chlorocebus aethiops</i> (African) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	3.3	6
103	Mucosal bacterial dissemination in a rhesus macaque model of experimental brucellosis. <i>Journal of Medical Primatology</i> , 2018, 47, 75-77.	0.6	5
104	EDITORIAL: Hydration for Clean Air Today. <i>Molecular Frontiers Journal</i> , 2021, 05, 1-4.	1.1	5
105	Reversion of Ebolavirus Disease from a Single Intramuscular Injection of a Pan-Ebolavirus Immunotherapeutic. <i>Pathogens</i> , 2022, 11, 655.	2.8	5
106	Exposure modality influences viral kinetics but not respiratory outcome of COVID-19 in multiple nonhuman primate species. <i>PLoS Pathogens</i> , 2022, 18, e1010618.	4.7	5
107	Wildfire Associated Health Risks Impacting Farmers and Ranchers. <i>Journal of Agromedicine</i> , 2019, 24, 129-132.	1.5	4
108	Particle Dynamics and Bioaerosol Viability of Aerosolized <i>Bacillus Calmette-Guérin</i> Vaccine Using Jet and Vibrating Mesh Clinical Nebulizers. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2022, 35, 50-56.	1.4	4

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109	A Miniaturized Electrostatic Precipitator Respirator Effectively Removes Ambient SARS-CoV-2 Bioaerosols. <i>Viruses</i> , 2022, 14, 765.	3.3	3
110	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
111	Phenotypic and Kinetic Changes of Myeloid Lineage Cells in Innate Response to Chikungunya Infection in Cynomolgus Macaques. <i>Viral Immunology</i> , 2022, 35, 192-199.	1.3	2
112	SARS-CoV-2 Epitopes following Infection and Vaccination Overlap Known Neutralizing Antibody Sites. <i>Research</i> , 2022, 2022, .	5.7	2
113	Nasal Dry Powder Vaccine Delivery Technology. , 2014, , 717-726.		1
114	Adverse event following live attenuated chikungunya vaccine in a cynomolgus macaque with pre-existing chronic hydrocephalus. <i>Journal of Medical Primatology</i> , 2019, 48, 257-259.	0.6	1
115	CRISPR-based Assay Reveals SARS-CoV-2 RNA Dynamic Changes and Redistribution Patterns in Non-Human Primate Model. <i>Emerging Microbes and Infections</i> , 2022, , 1-24.	6.5	1
116	SARS-CoV-2-associated neuropathology in non-human primates. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
117	Breakthrough gastrointestinal COVID and intra-host evolution consequent to combination monoclonal antibody prophylaxis. <i>Journal of Infectious Diseases</i> , 2022, , .	4.0	0