

# Chad J Roy

## List of Publications by Year in descending order

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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	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
2	Particle Dynamics and Bioaerosol Viability of Aerosolized Bacillus Calmette-Guérin 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
3	Intra-Host SARS-CoV-2 Evolution in the Gut of Mucosally-Infected <i>Chlorocebus aethiops</i> (African) Tj ETQq1 1 0.784314 rgBT /Overlock	3.3	6
4	Advances and gaps in SARS-CoV-2 infection models. <i>PLoS Pathogens</i> , 2022, 18, e1010161.	4.7	61
5	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
6	Phenotypic and Kinetic Changes of Myeloid Lineage Cells in Innate Response to Chikungunya Infection in <i>Cynomolgus</i> Macaques. <i>Viral Immunology</i> , 2022, 35, 192-199.	1.3	2
7	Neuropathology and virus in brain of SARS-CoV-2 infected non-human primates. <i>Nature Communications</i> , 2022, 13, 1745.	12.8	108
8	A Miniaturized Electrostatic Precipitator Respirator Effectively Removes Ambient SARS-CoV-2 Bioaerosols. <i>Viruses</i> , 2022, 14, 765.	3.3	3
9	Bioaerosols and airborne transmission: Integrating biological complexity into our perspective. <i>Science of the Total Environment</i> , 2022, 825, 154117.	8.0	9
10	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
11	Breakthrough gastrointestinal COVID and intra-host evolution consequent to combination monoclonal antibody prophylaxis. <i>Journal of Infectious Diseases</i> , 2022, , .	4.0	0
12	Reversion of Ebolavirus Disease from a Single Intramuscular Injection of a Pan-Ebolavirus Immunotherapeutic. <i>Pathogens</i> , 2022, 11, 655.	2.8	5
13	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
14	SARS-CoV-2 Epitopes following Infection and Vaccination Overlap Known Neutralizing Antibody Sites. <i>Research</i> , 2022, 2022, .	5.7	2
15	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
16	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
17	A smartphone-read ultrasensitive and quantitative saliva test for COVID-19. <i>Science Advances</i> , 2021, 7, .	10.3	175
18	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

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19	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
20	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
21	COVID-19: Famotidine, Histamine, Mast Cells, and Mechanisms. <i>Frontiers in Pharmacology</i> , 2021, 12, 633680.	3.5	64
22	Adjuvanting a subunit COVID-19 vaccine to induce protective immunity. <i>Nature</i> , 2021, 594, 253-258.	27.8	253
23	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
24	SARS-CoV-2-associated neuropathology in non-human primates. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
25	Liposome-mediated detection of SARS-CoV-2 RNA-positive extracellular vesicles in plasma. <i>Nature Nanotechnology</i> , 2021, 16, 1039-1044.	31.5	90
26	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
27	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
28	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
29	EDITORIAL: Hydration for Clean Air Today. <i>Molecular Frontiers Journal</i> , 2021, 05, 1-4.	1.1	5
30	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
31	Facial Masking for Covid-19. <i>New England Journal of Medicine</i> , 2020, 383, 2092-2094.	27.0	22
32	Animal models for COVID-19. <i>Nature</i> , 2020, 586, 509-515.	27.8	705
33	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
34	A New Natural Defense Against Airborne Pathogens. <i>QRB Discovery</i> , 2020, 1, e5.	1.6	10
35	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
36	Rationally Attenuated Vaccines for Venezuelan Equine Encephalitis Protect Against Epidemic Strains with a Single Dose. <i>Vaccines</i> , 2020, 8, 497.	4.4	6

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37	Persistence of Severe Acute Respiratory Syndrome Coronavirus 2 in Aerosol Suspensions. <i>Emerging Infectious Diseases</i> , 2020, 26, 2168-2171.	4.3	293
38	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
39	A virus-like particle vaccine prevents equine encephalitis virus infection in nonhuman primates. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	42
40	Wildfire Associated Health Risks Impacting Farmers and Ranchers. <i>Journal of Agromedicine</i> , 2019, 24, 129-132.	1.5	4
41	Bioaerosols and Transmission, a Diverse and Growing Community of Practice. <i>Frontiers in Public Health</i> , 2019, 7, 23.	2.7	23
42	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
43	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
44	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
45	Rescue of rhesus macaques from the lethality of aerosolized ricin toxin. <i>JCI Insight</i> , 2019, 4, .	5.0	22
46	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
47	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
48	Mucosal bacterial dissemination in a rhesus macaque model of experimental brucellosis. <i>Journal of Medical Primatology</i> , 2018, 47, 75-77.	0.6	5
49	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
50	Synthetic vaccine particles for durable cytolytic T lymphocyte responses and anti-tumor immunotherapy. <i>PLoS ONE</i> , 2018, 13, e0197694.	2.5	17
51	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
52	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
53	CD4 <sup>+</sup> 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
54	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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55	Neuropathogenesis of Chikungunya infection: astrogliosis and innate immune activation. <i>Journal of NeuroVirology</i> , 2016, 22, 140-148.	2.1	36
56	Anti-infective immunoadhesins from plants. <i>Plant Biotechnology Journal</i> , 2015, 13, 1078-1093.	8.3	18
57	Clinical and Pathological Findings Associated with Aerosol Exposure of Macaques to Ricin Toxin. <i>Toxins</i> , 2015, 7, 2121-2133.	3.4	46
58	Protection of non-human primates against glanders with a gold nanoparticle glycoconjugate vaccine. <i>Vaccine</i> , 2015, 33, 686-692.	3.8	59
59	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
60	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
61	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
62	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
63	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
64	Chimeric Plantibody Passively Protects Mice against Aerosolized Ricin Challenge. <i>Vaccine Journal</i> , 2014, 21, 777-782.	3.1	43
65	Nasal Dry Powder Vaccine Delivery Technology. , 2014, , 717-726.		1
66	Pathology of Lethal and Sublethal Doses of Aerosolized Ricin in Rhesus Macaques. <i>Toxicologic Pathology</i> , 2014, 42, 573-581.	1.8	27
67	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
68	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
69	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
70	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
71	Design of an environmentally controlled rotating chamber for bioaerosol aging studies. <i>Inhalation Toxicology</i> , 2014, 26, 554-558.	1.6	17
72	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

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73	A Burkholderia pseudomallei Outer Membrane Vesicle Vaccine Provides Protection against Lethal Sepsis. Vaccine Journal, 2014, 21, 747-754.	3.1	85
74	Adjuvant-carrying synthetic vaccine particles augment the immune response to encapsulated antigen and exhibit strong local immune activation without inducing systemic cytokine release. Vaccine, 2014, 32, 2882-2895.	3.8	144
75	Susceptibility of monkeypox virus aerosol suspensions in a rotating chamber. Journal of Virological Methods, 2013, 187, 333-337.	2.1	42
76	A chimeric Sindbis-based vaccine protects cynomolgus macaques against a lethal aerosol challenge of eastern equine encephalitis virus. Vaccine, 2013, 31, 1464-1470.	3.8	37
77	Post-Exposure Therapeutic Efficacy of COX-2 Inhibition against Burkholderia pseudomallei. PLoS Neglected Tropical Diseases, 2013, 7, e2212.	3.0	24
78	Aerosol-induced brucellosis increases TLR-2 expression and increased complexity in the microanatomy of astroglia in rhesus macaques. Frontiers in Cellular and Infection Microbiology, 2013, 3, 86.	3.9	32
79	Challenges and Practices in Building and Implementing Biosafety and Biosecurity Programs to Enable Basic and Translational Research with Select Agents. Journal of Bioterrorism & Biodefense, 2013, 01, 12634.	0.1	7
80	The Mycobacterium tuberculosis Stress Response Factor SigH Is Required for Bacterial Burden as Well as Immunopathology in Primate Lungs. Journal of Infectious Diseases, 2012, 205, 1203-1213.	4.0	74
81	Aerosolized Gentamicin Reduces the Burden of Tuberculosis in a Murine Model. Antimicrobial Agents and Chemotherapy, 2012, 56, 883-886.	3.2	14
82	Synthetic Human Monoclonal Antibodies toward Staphylococcal Enterotoxin B (SEB) Protective against Toxic Shock Syndrome. Journal of Biological Chemistry, 2012, 287, 25203-25215.	3.4	61
83	Infectious disease aerobiology: miasma incarnate. Frontiers in Cellular and Infection Microbiology, 2012, 2, 163.	3.9	12
84	Evaluation of inhaled cidofovir as postexposure prophylactic in an aerosol rabbitpox model. Antiviral Research, 2012, 93, 204-208.	4.1	13
85	Infectious Disease Aerobiology. , 2012, , 65-80.		7
86	A naturally derived outer-membrane vesicle vaccine protects against lethal pulmonary Burkholderia pseudomallei infection. Vaccine, 2011, 29, 8381-8389.	3.8	98
87	Reactivation of latent tuberculosis in rhesus macaques by coinfection with simian immunodeficiency virus. Journal of Medical Primatology, 2011, 40, 233-243.	0.6	111
88	Aerosolized adenovirus-vectored vaccine as an alternative vaccine delivery method. Respiratory Research, 2011, 12, 153.	3.6	21
89	Animal Models of Ricin Toxicosis. Current Topics in Microbiology and Immunology, 2011, 357, 243-257.	1.1	33
90	Mucosal Vaccines for Biodefense. Current Topics in Microbiology and Immunology, 2011, 354, 181-195.	1.1	11

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91	Genetic Requirements for the Survival of Tubercle Bacilli in Primates. <i>Journal of Infectious Diseases</i> , 2010, 201, 1743-1752.	4.0	159
92	Aerobiology and Inhalation Exposure to Biological Select Agents and Toxins. <i>Veterinary Pathology</i> , 2010, 47, 779-789.	1.7	32
93	Use of the Aerosol Rabbitpox Virus Model for Evaluation of Anti-Poxvirus Agents. <i>Viruses</i> , 2010, 2, 2096-2107.	3.3	10
94	Differential susceptibility of inbred mouse strains to <i>Burkholderia thailandensis</i> aerosol infection. <i>Microbial Pathogenesis</i> , 2010, 48, 9-17.	2.9	21
95	Immunospecific Responses to Bacterial Elongation Factor Tu during <i>Burkholderia</i> Infection and Immunization. <i>PLoS ONE</i> , 2010, 5, e14361.	2.5	63
96	Pathogenesis of aerosolized Eastern Equine Encephalitis virus infection in guinea pigs. <i>Virology Journal</i> , 2009, 6, 170.	3.4	41
97	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
98	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
99	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
100	Microneedle-Based Intradermal Delivery of the Anthrax Recombinant Protective Antigen Vaccine. <i>Infection and Immunity</i> , 2006, 74, 6806-6810.	2.2	116
101	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
102	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
103	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
104	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
105	<i>Infectious Disease Aerobiology</i> . , 2005, , 61-76.		14
106	Airborne Transmission of Communicable Infection – The Elusive Pathway. <i>New England Journal of Medicine</i> , 2004, 350, 1710-1712.	27.0	282
107	Antiviral prophylaxis of smallpox. <i>Journal of Antimicrobial Chemotherapy</i> , 2004, 54, 1-5.	3.0	28
108	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

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109	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
110	Pulmonary gene expression profiling of inhaled ricin. <i>Toxicol</i> , 2003, 41, 813-822.	1.6	44
111	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
112	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
113	Exposure to Particulates, Microorganisms, $\beta$ (1-3)-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
114	Exposure to Particulates, Microorganisms, $\beta$ (1-3)-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	7
115	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
116	Treatment of aerosolized cowpox virus infection in mice with aerosolized cidofovir. <i>Antiviral Research</i> , 2002, 54, 129-142.	4.1	68
117	Serial cultivation of normal human keratinocytes: A defined system for studying the regulation of growth and differentiation. <i>In Vitro Cellular &amp; Developmental Biology</i> , 1992, 28, 429-435.	1.0	47