

Bryan Charleston

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

3,206
citations

159358

30
h-index

189595

50
g-index

110
all docs

110
docs citations

110
times ranked

3866
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial, temporal and molecular dynamics of swine influenza virus-specific CD8 tissue resident memory T cells. <i>Mucosal Immunology</i> , 2022, 15, 428-442.	2.7	9
2	Porcine Respiratory Coronavirus as a Model for Acute Respiratory Coronavirus Disease. <i>Frontiers in Immunology</i> , 2022, 13, 867707.	2.2	11
3	Foot-and-mouth disease virus localisation on follicular dendritic cells and sustained induction of neutralising antibodies is dependent on binding to complement receptors (CR2/CR1). <i>PLoS Pathogens</i> , 2022, 18, e1009942.	2.1	3
4	Vaccines That Reduce Viral Shedding Do Not Prevent Transmission of H1N1 Pandemic 2009 Swine Influenza A Virus Infection to Unvaccinated Pigs. <i>Journal of Virology</i> , 2021, 95, .	1.5	8
5	A plasmid encoding the extracellular domain of CD40 ligand and Montanide [®] , [†] GEL01 as adjuvants enhance the immunogenicity and the protection induced by a DNA vaccine against BoHV-1. <i>Vaccine</i> , 2021, 39, 1007-1017.	1.7	8
6	The detection of long-lasting memory foot-and-mouth disease (FMD) virus serotype O-specific CD4 + T cells from FMD-vaccinated cattle by bovine major histocompatibility complex class II tetramer. <i>Immunology</i> , 2021, 164, 266-278.	2.0	5
7	Using cross-species vaccination approaches to counter emerging infectious diseases. <i>Nature Reviews Immunology</i> , 2021, 21, 815-822.	10.6	17
8	The selection of naturally stable candidate foot-and-mouth disease virus vaccine strains for East Africa. <i>Vaccine</i> , 2021, 39, 5015-5024.	1.7	7
9	Endemic persistence of a highly contagious pathogen: Foot-and-mouth disease in its wildlife host. <i>Science</i> , 2021, 374, 104-109.	6.0	23
10	Stability of Chimpanzee Adenovirus Vected Vaccines (ChAdOx1 and ChAdOx2) in Liquid and Lyophilised Formulations. <i>Vaccines</i> , 2021, 9, 1249.	2.1	8
11	Pervasive within-host recombination and epistasis as major determinants of the molecular evolution of the foot-and-mouth disease virus capsid. <i>PLoS Pathogens</i> , 2020, 16, e1008235.	2.1	14
12	Bovine Dendritic Cell Activation, T Cell Proliferation and Antibody Responses to Foot-And-Mouth Disease, Is Similar With Inactivated Virus and Virus Like Particles. <i>Frontiers in Veterinary Science</i> , 2020, 7, 594.	0.9	3
13	Identification of a Newly Conserved SLA-II Epitope in a Structural Protein of Swine Influenza Virus. <i>Frontiers in Immunology</i> , 2020, 11, 2083.	2.2	2
14	Timelines of infection and transmission dynamics of H1N1pdm09 in swine. <i>PLoS Pathogens</i> , 2020, 16, e1008628.	2.1	13
15	Evaluation of the immunogenicity of prime-boost vaccination with the replication-deficient viral vectored COVID-19 vaccine candidate ChAdOx1 nCoV-19. <i>Npj Vaccines</i> , 2020, 5, 69.	2.9	121
16	Age of first infection across a range of parasite taxa in a wild mammalian population. <i>Biology Letters</i> , 2020, 16, 20190811.	1.0	16
17	Elucidating cryptic dynamics of <i>Theileria</i> communities in African buffalo using a high-throughput sequencing informatics approach. <i>Ecology and Evolution</i> , 2020, 10, 70-80.	0.8	19
18	Magnitude and Kinetics of T Cell and Antibody Responses During H1N1pdm09 Infection in Inbred Babraham Pigs and Outbred Pigs. <i>Frontiers in Immunology</i> , 2020, 11, 604913.	2.2	19

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19	Statistical modelling of data showing pandemic H1N1 2009 swine influenza A virus infection kinetics in vaccinated pigs. <i>Data in Brief</i> , 2019, 27, 104576.	0.5	0
20	Safety and efficacy of ChAdOx1 RVF vaccine against Rift Valley fever in pregnant sheep and goats. <i>Npj Vaccines</i> , 2019, 4, 44.	2.9	31
21	Persistent Infection of African Buffalo (<i>Syncerus caffer</i>) with Foot-and-Mouth Disease Virus: Limited Viral Evolution and No Evidence of Antibody Neutralization Escape. <i>Journal of Virology</i> , 2019, 93, .	1.5	15
22	Vaccine-mediated protection of pigs against infection with pandemic H1N1 2009 swine influenza A virus requires a close antigenic match between the vaccine antigen and challenge virus. <i>Vaccine</i> , 2019, 37, 2288-2293.	1.7	14
23	Comparison of Heterosubtypic Protection in Ferrets and Pigs Induced by a Single-Cycle Influenza Vaccine. <i>Journal of Immunology</i> , 2018, 200, 4068-4077.	0.4	50
24	Recent advances in veterinary applications of structural vaccinology. <i>Current Opinion in Virology</i> , 2018, 29, 33-38.	2.6	4
25	Chimeric O1K foot-and-mouth disease virus with SAT2 outer capsid as an FMD vaccine candidate. <i>Scientific Reports</i> , 2018, 8, 13654.	1.6	11
26	Induction of influenza-specific local CD8 T-cells in the respiratory tract after aerosol delivery of vaccine antigen or virus in the Babraham inbred pig. <i>PLoS Pathogens</i> , 2018, 14, e1007017.	2.1	35
27	Therapeutic Administration of Broadly Neutralizing F16 Antibody Reveals Lack of Interaction Between Human IgG1 and Pig Fc Receptors. <i>Frontiers in Immunology</i> , 2018, 9, 865.	2.2	19
28	Tackling human and animal health threats through innovative vaccinology in Africa. <i>AAS Open Research</i> , 2018, 1, 18.	1.5	2
29	Tackling human and animal health threats through innovative vaccinology in Africa. <i>AAS Open Research</i> , 2018, 1, 18.	1.5	1
30	Frequency and phenotype of natural killer cells and natural killer cell subsets in bovine lymphoid compartments and blood. <i>Immunology</i> , 2017, 151, 89-97.	2.0	10
31	The B Cell Response to Foot-and-Mouth Disease Virus in Cattle following Sequential Vaccination with Multiple Serotypes. <i>Journal of Virology</i> , 2017, 91, .	1.5	5
32	A replication-competent foot-and-mouth disease virus expressing a luciferase reporter. <i>Journal of Virological Methods</i> , 2017, 247, 38-44.	1.0	6
33	Rules of engagement between $\alpha 6$ integrin and foot-and-mouth disease virus. <i>Nature Communications</i> , 2017, 8, 15408.	5.8	75
34	Experimental acute infection of alpacas with Bovine viral diarrhea virus 1 subgenotype b alters peripheral blood and GALT leukocyte subsets. <i>Journal of Veterinary Diagnostic Investigation</i> , 2017, 29, 186-192.	0.5	7
35	SAT2 Foot-and-Mouth Disease Virus Structurally Modified for Increased Thermostability. <i>Journal of Virology</i> , 2017, 91, .	1.5	28
36	Isolation of Single-Domain Antibody Fragments That Preferentially Detect Intact (146S) Particles of Foot-and-Mouth Disease Virus for Use in Vaccine Quality Control. <i>Frontiers in Immunology</i> , 2017, 8, 960.	2.2	20

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37	Detection of Pathogen Exposure in African Buffalo Using Non-Specific Markers of Inflammation. <i>Frontiers in Immunology</i> , 2017, 8, 1944.	2.2	19
38	Potency of a thermostabilised chimpanzee adenovirus Rift Valley Fever vaccine in cattle. <i>Vaccine</i> , 2016, 34, 2296-2298.	1.7	28
39	Type I and III IFNs Produced by Plasmacytoid Dendritic Cells in Response to a Member of the Flaviviridae Suppress Cellular Immune Responses. <i>Journal of Immunology</i> , 2016, 196, 4214-4226.	0.4	25
40	Chimpanzee Adenovirus Vaccine Provides Multispecies Protection against Rift Valley Fever. <i>Scientific Reports</i> , 2016, 6, 20617.	1.6	98
41	Distinct immune responses and virus shedding in pigs following aerosol, intra-nasal and contact infection with pandemic swine influenza A virus, A(H1N1)09. <i>Veterinary Research</i> , 2016, 47, 103.	1.1	30
42	Aerosol Delivery of a Candidate Universal Influenza Vaccine Reduces Viral Load in Pigs Challenged with Pandemic H1N1 Virus. <i>Journal of Immunology</i> , 2016, 196, 5014-5023.	0.4	72
43	Differential Persistence of Foot-and-Mouth Disease Virus in African Buffalo Is Related to Virus Virulence. <i>Journal of Virology</i> , 2016, 90, 5132-5140.	1.5	59
44	Application of the thermofluor PaSTRy technique for improving foot-and-mouth disease virus vaccine formulation. <i>Journal of General Virology</i> , 2016, 97, 1557-1565.	1.3	21
45	The B-cell response to foot-and-mouth-disease virus in cattle following vaccination and live-virus challenge. <i>Journal of General Virology</i> , 2016, 97, 2201-2209.	1.3	8
46	Transduction of skin-migrating dendritic cells by human adenovirus 5 occurs via an actin-dependent phagocytic pathway. <i>Journal of General Virology</i> , 2016, 97, 2703-2718.	1.3	2
47	The relative magnitude of transgene-specific adaptive immune responses induced by human and chimpanzee adenovirus vectors differs between laboratory animals and a target species. <i>Vaccine</i> , 2015, 33, 1121-1128.	1.7	20
48	Structure-based energetics of protein interfaces guides foot-and-mouth disease virus vaccine design. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 788-794.	3.6	89
49	Assessment of the enhancement of PLGA nanoparticle uptake by dendritic cells through the addition of natural receptor ligands and monoclonal antibody. <i>Vaccine</i> , 2015, 33, 6588-6595.	1.7	17
50	Determining the Epitope Dominance on the Capsid of a Serotype SAT2 Foot-and-Mouth Disease Virus by Mutational Analyses. <i>Journal of Virology</i> , 2014, 88, 8307-8318.	1.5	14
51	Laboratory animal models to study foot-and-mouth disease: a review with emphasis on natural and vaccine-induced immunity. <i>Journal of General Virology</i> , 2014, 95, 2329-2345.	1.3	41
52	Bovine $\gamma\delta$ T Cells Are a Major Regulatory T Cell Subset. <i>Journal of Immunology</i> , 2014, 193, 208-222.	0.4	90
53	Type I and III Interferon Production in Response to RNA Viruses. <i>Journal of Interferon and Cytokine Research</i> , 2014, 34, 649-658.	0.5	23
54	Understanding foot-and-mouth disease virus transmission biology: identification of the indicators of infectiousness. <i>Veterinary Research</i> , 2013, 44, 46.	1.1	22

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55	Efficient production of foot-and-mouth disease virus empty capsids in insect cells following down regulation of 3C protease activity. <i>Journal of Virological Methods</i> , 2013, 187, 406-412.	1.0	51
56	Improved adjuvanting of seasonal influenza vaccines: Preclinical studies of <sc>MVA&NP+M</sc>1 coadministration with inactivated influenza vaccine. <i>European Journal of Immunology</i> , 2013, 43, 1940-1952.	1.6	43
57	An infectious recombinant foot-and-mouth disease virus expressing a fluorescent marker protein. <i>Journal of General Virology</i> , 2013, 94, 1517-1527.	1.3	28
58	CD4+ T-cell responses to foot-and-mouth disease virus in vaccinated cattle. <i>Journal of General Virology</i> , 2013, 94, 97-107.	1.3	46
59	Rational Engineering of Recombinant Picornavirus Capsids to Produce Safe, Protective Vaccine Antigen. <i>PLoS Pathogens</i> , 2013, 9, e1003255.	2.1	126
60	Eradicating bovine viral diarrhoea virus. <i>Veterinary Record</i> , 2013, 172, 659-660.	0.2	0
61	Accumulation of nucleotide substitutions occurring during experimental transmission of foot-and-mouth disease virus. <i>Journal of General Virology</i> , 2013, 94, 108-119.	1.3	22
62	Characterization of epitope-tagged foot-and-mouth disease virus. <i>Journal of General Virology</i> , 2012, 93, 2371-2381.	1.3	30
63	Assessment of T-dependent and T-independent immune responses in cattle using a B cell ELISPOT assay. <i>Veterinary Research</i> , 2012, 43, 68.	1.1	16
64	Modelling the within-host dynamics of the foot-and-mouth disease virus in cattle. <i>Epidemics</i> , 2012, 4, 93-103.	1.5	14
65	Immune Responses in Pigs Vaccinated with Adjuvanted and Non-Adjuvanted A(H1N1)pdm/09 Influenza Vaccines Used in Human Immunization Programmes. <i>PLoS ONE</i> , 2012, 7, e32400.	1.1	21
66	Modelling the Influence of Foot-and-Mouth Disease Vaccine Antigen Stability and Dose on the Bovine Immune Response. <i>PLoS ONE</i> , 2012, 7, e30435.	1.1	8
67	Cattle remain immunocompetent during the acute phase of foot-and-mouth disease virus infection. <i>Veterinary Research</i> , 2011, 42, 108.	1.1	18
68	Relationship Between Clinical Signs and Transmission of an Infectious Disease and the Implications for Control. <i>Science</i> , 2011, 332, 726-729.	6.0	129
69	Hsp110-Mediated Enhancement of CD4 ⁺ T Cell Responses to the Envelope Glycoprotein of Members of the Family <i>Flaviviridae</i> In Vitro</i> Does Not Occur <i>In Vivo</i>. <i>Vaccine Journal</i> , 2011, 18, 311-317.	3.2	5
70	Bovine Plasmacytoid Dendritic Cells Are the Major Source of Type I Interferon in Response to Foot-and-Mouth Disease Virus In Vitro and In Vivo. <i>Journal of Virology</i> , 2011, 85, 4297-4308.	1.5	41
71	Induction of a Cross-Reactive CD8⁺ T Cell Response following Foot-and-Mouth Disease Virus Vaccination. <i>Journal of Virology</i> , 2010, 84, 12375-12384.	1.5	43
72	The classical swine fever virus N-terminal protease Npro binds to cellular HAX-1. <i>Journal of General Virology</i> , 2010, 91, 2677-2686.	1.3	27

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73	The classical swine fever virus Npro product is degraded by cellular proteasomes in a manner that does not require interaction with interferon regulatory factor 3. <i>Journal of General Virology</i> , 2010, 91, 721-726.	1.3	20
74	Longevity of protection in cattle following immunisation with emergency FMD A22 serotype vaccine from the UK strategic reserve. <i>Vaccine</i> , 2010, 28, 2318-2322.	1.7	13
75	Hsp70 enhances presentation of FMDV antigen to bovine CD4+T cells in vitro. <i>Veterinary Research</i> , 2010, 41, 36.	1.1	3
76	Foot-and-Mouth Disease Virus Can Induce a Specific and Rapid CD4 ⁺ T-Cell-Independent Neutralizing and Isotype Class-Switched Antibody Response in Naïve Cattle. <i>Journal of Virology</i> , 2009, 83, 3626-3636.	1.5	76
77	Effect of the viral protein Npro on virulence of bovine viral diarrhoea virus and induction of interferon type I in calves. <i>American Journal of Veterinary Research</i> , 2009, 70, 1117-1123.	0.3	7
78	Options for control of foot-and-mouth disease: knowledge, capability and policy. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 2657-2667.	1.8	172
79	A quantitative assessment of primary and secondary immune responses in cattle using a B cell ELISPOT assay. <i>Veterinary Research</i> , 2009, 40, 03.	1.1	15
80	Foot-and-Mouth Disease Virus Persists in the Light Zone of Germinal Centres. <i>PLoS ONE</i> , 2008, 3, e3434.	1.1	70
81	Identification of <i>Salmonella enterica</i> Serovar Dublin-Specific Sequences by Subtractive Hybridization and Analysis of Their Role in Intestinal Colonization and Systemic Translocation in Cattle. <i>Infection and Immunity</i> , 2008, 76, 5310-5321.	1.0	15
82	An MHC-restricted CD8+ T-cell response is induced in cattle by foot-and-mouth disease virus (FMDV) infection and also following vaccination with inactivated FMDV. <i>Journal of General Virology</i> , 2008, 89, 667-675.	1.3	71
83	The Npro product of classical swine fever virus interacts with I κ B β , the NF- κ B inhibitor. <i>Journal of General Virology</i> , 2008, 89, 1881-1889.	1.3	49
84	The Npro product of classical swine fever virus and bovine viral diarrhoea virus uses a conserved mechanism to target interferon regulatory factor-3. <i>Journal of General Virology</i> , 2007, 88, 3002-3006.	1.3	85
85	Massive, sustained β T cell migration from the bovine skin in vivo. <i>Journal of Leukocyte Biology</i> , 2007, 81, 968-973.	1.5	28
86	Bovine Viral Diarrhoea Virus: Prevention of Persistent Fetal Infection by a Combination of Two Mutations Affecting E ₁ RNase and N ₁ pro Protease. <i>Journal of Virology</i> , 2007, 81, 3327-3338.	1.5	84
87	Fibrinogen is localized on dark zone follicular dendritic cells in vivo and enhances the proliferation and survival of a centroblastic cell line in vitro. <i>Journal of Leukocyte Biology</i> , 2007, 82, 666-677.	1.5	17
88	Systemic Translocation of <i>Salmonella enterica</i> Serovar Dublin in Cattle Occurs Predominantly via Efferent Lymphatics in a Cell-Free Niche and Requires Type III Secretion System 1 (T3SS-1) but Not T3SS-2. <i>Infection and Immunity</i> , 2007, 75, 5191-5199.	1.0	53
89	Global FMD control—Is it an option?. <i>Vaccine</i> , 2007, 25, 5660-5664.	1.7	88
90	Workshop cluster 1, a β T cell specific receptor is phosphorylated and down regulated by activation induced Src family kinase activity. <i>Molecular Immunology</i> , 2007, 44, 1691-1703.	1.0	8

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91	Identification of a novel foot-and-mouth disease virus specific T-cell epitope with immunodominant characteristics in cattle with MHC serotype A31. <i>Veterinary Research</i> , 2007, 38, 565-572.	1.1	17
92	Isolation and purification of afferent lymph dendritic cells that drain the skin of cattle. <i>Nature Protocols</i> , 2006, 1, 982-987.	5.5	38
93	Characterization of the porcine neonatal Fc receptor-potential use for trans-epithelial protein delivery. <i>Immunology</i> , 2005, 114, 542-553.	2.0	70
94	Quantification of Different Human Alpha Interferon Subtypes and Pegylated Interferon Activities by Measuring MxA Promoter Activation. <i>Antimicrobial Agents and Chemotherapy</i> , 2005, 49, 3770-3775.	1.4	27
95	Differences in cytokine synthesis by the sub-populations of dendritic cells from afferent lymph. <i>Immunology</i> , 2003, 110, 48-57.	2.0	40
96	Comparison of the Efficacies of Three Fluoroquinolone Antimicrobial Agents, Given as Continuous or Pulsed-Water Medication, against <i>Escherichia coli</i> Infection in Chickens. <i>Antimicrobial Agents and Chemotherapy</i> , 1998, 42, 83-87.	1.4	44
97	Cloning and characterisation of two new cDNAs encoding murine triple LIM domains. <i>Gene</i> , 1995, 156, 283-286.	1.0	16
98	An interferon-induced mx protein: cDNA sequence and high-level expression in the endometrium of pregnant sheep. <i>Gene</i> , 1993, 137, 327-331.	1.0	55
99	Universal detection of foot and mouth disease virus based on the conserved VPO protein. <i>Wellcome Open Research</i> , 0, 3, 88.	0.9	2