D Neil Wedlock

List of Publications by Year
in descending order

58 papers	2,405 citations	185998 28 h-index	197535 49 g-index
58 all docs	58 docs citations	58 times ranked	1959 citing authors

#	Article	IF	Citations
1	Diverse Cytokine Profile from Mesenteric Lymph Node Cells of Cull Cows Severely Affected with Johne's Disease. Vaccine Journal, 2011, 18, 1467-1476.	3.2	285
2	Altered patterns of toll-like receptor gene expression in cull cows infected with Mycobacterium avium subsp. paratuberculosis. Veterinary Immunology and Immunopathology, 2012, 145, 471-478.	0.5	266
3	Strategies to reduce methane emissions from farmed ruminants grazing on pasture. Veterinary Journal, 2011, 188, 11-17.	0.6	130
4	A DNA Prime- Mycobacterium bovis BCG Boost Vaccination Strategy for Cattle Induces Protection against Bovine Tuberculosis. Infection and Immunity, 2003, 71, 4901-4907.	1.0	125
5	Effect of oral vaccination of cattle with lipid-formulated BCG on immune responses and protection against bovine tuberculosis. Vaccine, 2005, 23, 3581-3589.	1.7	76
6	Control of Mycobacterium bovis infections and the risk to human populations. Microbes and Infection, 2002, 4, 471-480.	1.0	75
7	Identification of immune response correlates for protection against bovine tuberculosis. Veterinary Immunology and Immunopathology, 2005, 108, 45-51.	0.5	63
8	Vaccination of cattle with Danish and Pasteur strains of Mycobacterium bovis BCG induce different levels of IFNÎ³ post-vaccination, but induce similar levels of protection against bovine tuberculosis. Veterinary Immunology and Immunopathology, 2007, 118, 50-58.	0.5	62
9	Vaccines Displaying Mycobacterial Proteins on Biopolyester Beads Stimulate Cellular Immunity and Induce Protection against Tuberculosis. Vaccine Journal, 2012, 19, 37-44.	3.2	61
10	Vaccination of Cattle with a CpG Oligodeoxynucleotide-Formulated Mycobacterial Protein Vaccine and Mycobacterium bovis BCG Induces Levels of Protection against Bovine Tuberculosis Superior to Those Induced by Vaccination with BCG Alone. Infection and Immunity, 2005, 73, 3540-3546.	1.0	60
11	The Order of Prime-Boost Vaccination of Neonatal Calves with Mycobacterium bovis BCG and a DNA Vaccine Encoding Mycobacterial Proteins Hsp65, Hsp70, and Apa Is Not Critical for Enhancing Protection against Bovine Tuberculosis. Infection and Immunity, 2005, 73, 4441-4444.	1.0	59
12	Immune Responses Induced in Cattle by Virulent and Attenuated <i>Mycobacterium bovis</i> Strains: Correlation of Delayed-Type Hypersensitivity with Ability of Strains To Grow in Macrophages. Infection and Immunity, 1999, 67, 2172-2177.	1.0	58
13	Self-Assembled Protein-Coated Polyhydroxyalkanoate Beads: Properties and Biomedical Applications. ACS Biomaterials Science and Engineering, 2017, 3, 3043-3057.	2.6	55
14	Enhanced Protection against Bovine Tuberculosis after Coadministration of<i>Mycobacterium bovis</i>BCG with a Mycobacterial Protein Vaccine-Adjuvant Combination but Not after Coadministration of Adjuvant Alone. Vaccine Journal, 2008, 15, 765-772.	3.2	53
15	Bacterial Polyester Inclusions Engineered To Display Vaccine Candidate Antigens for Use as a Novel Class of Safe and Efficient Vaccine Delivery Agents. Applied and Environmental Microbiology, 2009, 75, 7739-7744.	1.4	53
16	Update on vaccination of cattle and wildlife populations against tuberculosis. Veterinary Microbiology, 2011, 151, 14-22.	0.8	53
17	Cattle as a model for development of vaccines against human tuberculosis. Tuberculosis, 2005, 85, 19-24.	0.8	52
18	Immune responses associated with progression and control of infection in calves experimentally challenged with Mycobacterium avium subsp. paratuberculosis. Veterinary Immunology and Immunopathology, 2012, 149, 225-236.	0.5	46

#	Article	IF	Citations
19	Vaccination of Cattle with Mycobacterium bovis Culture Filtrate Proteins and Interleukin-2 for Protection against Bovine Tuberculosis. Infection and Immunity, 2000, 68, 5809-5815.	1.0	44
20	Revaccination of Cattle with Bacille Calmette-GuÃ©rin Two Years after First Vaccination when Immunity Has Waned, Boosted Protection against Challenge with Mycobacterium bovis. PLoS ONE, 2014, 9, e106519.	1.1	41
21	Development of vaccines to control bovine tuberculosis in cattle and relationship to vaccine development for other intracellular pathogens. International Journal for Parasitology, 2003, 33, 555-566.	1.3	38
22	IFNâ€Î³ enhances bovine macrophage responsiveness to Mycobacterium bovis : Impact on bacterial replication, cytokine release and macrophage apoptosis. Immunology and Cell Biology, 2005, 83, 643-650.	1.0	37
23	New Skin Test for Detection of Bovine Tuberculosis on the Basis of Antigen-Displaying Polyester Inclusions Produced by Recombinant Escherichia coli. Applied and Environmental Microbiology, 2014, 80, 2526-2535.	1.4	36
24	Detection of microRNA in cattle serum and their potential use to diagnose severity of Johne's disease. Journal of Dairy Science, 2018, 101, 10259-10270.	1.4	34
25	Immunogencity of antigens from Mycobacterium tuberculosis self-assembled as particulate vaccines. International Journal of Medical Microbiology, 2016, 306, 624-632.	1.5	33
26	Grazing dairy cows had decreased interferon-Î³, tumor necrosis factor, and interleukin-17, and increased expression of interleukin-10 during the first week after calving. Journal of Dairy Science, 2015, 98, 937-946.	1.4	31
27	Bactericidal activity of macrophages against Streptococcus uberis is different in mammary gland secretions of lactating and drying off cows. Veterinary Immunology and Immunopathology, 2006, 114, 111-120.	0.5	29
28	Enhancement of the Sensitivity of the Whole-Blood Gamma Interferon Assay for Diagnosis of<i>Mycobacterium bovis</i>Infections in Cattle. Vaccine Journal, 2007, 14, 1483-1489.	3.2	29
29	Molecular cloning and characterization of tumour necrosis factor alpha (TNF-Î±) from the Australian common brushtail possum,Trichosurus vulpecula. Immunology and Cell Biology, 1996, 74, 151-158.	1.0	27
30	Novel particulate vaccines utilizing polyester nanoparticles (bio-beads) for protection against Mycobacterium bovis infectionâ€”A review. Veterinary Immunology and Immunopathology, 2014, 158, 8-13.	0.5	26
31	Vaccination of cattle with Mycobacterium bovis BCG by a combination of systemic and oral routes. Tuberculosis, 2008, 88, 595-600.	0.8	25
32	Ability of T cell subsets and their soluble mediators to modulate the replication of Mycobacterium bovis in bovine macrophages. Cellular Immunology, 2004, 232, 1-8.	1.4	24
33	Vaccination of cattle with a methanogen protein produces specific antibodies in the saliva which are stable in the rumen. Veterinary Immunology and Immunopathology, 2015, 164, 201-207.	0.5	23
34	Bioengineering a bacterial pathogen to assemble its own particulate vaccine capable of inducing cellular immunity. Scientific Reports, 2017, 7, 41607.	1.6	23
35	Display of Antigens on Polyester Inclusions Lowers the Antigen Concentration Required for a Bovine Tuberculosis Skin Test. Vaccine Journal, 2016, 23, 19-26.	3.2	22
36	Effect of recombinant cytokines on leucocytes and physiological changes in bovine mammary glands during early involution. Journal of Dairy Research, 2004, 71, 154-161.	0.7	21

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37	Streptococcus uberis-specific T cells are present in mammary gland secretions of cows and can be activated to kill S. uberis. Veterinary Research Communications, 2011, 35, 145-156.	0.6	21
38	Subcutaneous Administration of a 10-Fold-Lower Dose of a Commercial Human Tuberculosis Vaccine, Mycobacterium bovis Bacillus Calmette-GuÃ©rin Danish, Induced Levels of Protection against Bovine Tuberculosis and Responses in the Tuberculin Intradermal Test Similar to Those Induced by a Standard Cattle Dose. Vaccine Journal, 2013, 20, 1559-1562.	3.2	21
39	Comparison of gene expression of immune mediators in lung and pulmonary lymph node granulomas from cattle experimentally infected with Mycobacterium bovis. Veterinary Immunology and Immunopathology, 2014, 160, 81-89.	0.5	21
40	Low oral BCG doses fail to protect cattle against an experimental challenge with Mycobacterium bovis. Tuberculosis, 2011, 91, 400-405.	0.8	19
41	Protection against bovine tuberculosis induced by oral vaccination of cattle with Mycobacterium bovis BCG is not enhanced by co-administration of mycobacterial protein vaccines. Veterinary Immunology and Immunopathology, 2011, 144, 220-227.	0.5	18
42	Strain improvement of the xylose-fermenting yeastPachysolen tannophilus by hybridisation of two mutant strains. Biotechnology Letters, 1986, 8, 801-806.	1.1	17
43	Vaccination of Sheep with a Methanogen Protein Provides Insight into Levels of Antibody in Saliva Needed to Target Ruminal Methanogens. PLoS ONE, 2016, 11, e0159861.	1.1	16
44	Nucleotide Sequence of a Marsupial Interleukin-10 cDNA from the Australian Brushtail Possum<i>(Trichosurus Vulpecula)</i>. DNA Sequence, 1998, 9, 239-244.	0.7	15
45	Effects of yeast expressed recombinant interleukin-2 and interferon-Î³ on physiological changes in bovine mammary glands and on bactericidal activity of neutrophils. Journal of Dairy Research, 2000, 67, 189-197.	0.7	11
46	Immunological properties and protective efficacy of a single mycobacterial antigen displayed on polyhydroxybutyrate beads. Microbial Biotechnology, 2017, 10, 1434-1440.	2.0	10
47	Dairy cows produce cytokine and cytotoxic T cell responses following vaccination with an antigenic fraction from Streptococcus uberis. Veterinary Immunology and Immunopathology, 2014, 160, 51-60.	0.5	9
48	Vaccination of cattle with a high dose of BCG vaccine 3 weeks after experimental infection with Mycobacterium bovis increased the inflammatory response, but not tuberculous pathology. Tuberculosis, 2016, 99, 120-127.	0.8	9
49	Interleukin-1Î² infusion in bovine mammary glands prior to challenge with Streptococcus uberis reduces bacterial growth but causes sterile mastitis. Veterinary Research Communications, 2008, 32, 439-447.	0.6	7
50	Test performance data demonstrates utility of a cattle DIVA skin test reagent (DST-F) compatible with BCG vaccination. Scientific Reports, 2022, 12, .	1.6	7
51	Self-assembled particulate vaccine elicits strong immune responses and reduces Mycobacterium avium subsp. paratuberculosis infection in mice. Scientific Reports, 2020, 10, 22289.	1.6	6
52	Transformation of a glucose negative mutant ofPachysolen tannophilus with a plasmid carrying the cloned hexokinase PII gene fromSaccharomyces cerevisiae. Biotechnology Letters, 1989, 11, 601-604.	1.1	5
53	Mucosal immunity in the brushtail possum (Trichosurus vulpecula): Detection of antibody in serum and at female reproductive sites after intranasal immunization. Immunology and Cell Biology, 2002, 80, 358-363.	1.0	5
54	Mapping immunogenic epitopes of an adhesin-like protein from Methanobrevibacter ruminantium M1 and comparison of empirical data with in silico prediction methods. Scientific Reports, 2022, 12, .	1.6	5

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55	Adrenal Autoantibodies and Naturally Occuring Mutations in 21-Hydroxylase. Autoimmunity, 1994, 17, 339-341.	1.2	2
56	Vaccination of brushtail possums, Trichosurus vulpecula , with Bacille Calmetteâ€"Guerin induces T lymphocytes that reduce Mycobacterium bovis replication in alveolar macrophages via a contactâ€dependent/nitric oxideâ€independent mechanism. Immunology and Cell Biology, 2005, 83, 57-66.	1.0	2
57	Susceptibility of brushtail possums (Trichosurus vulpecula) infected with Mycobacterium bovis is associated with a transient macrophage activation profile. Tuberculosis, 2005, 85, 235-244.	0.8	2
58	Heterologous peptide display on chromatin nanofibers: A new strategy for peptide vaccines. Biochemical and Biophysical Research Communications, 2020, 524, 825-831.	1.0	2