

# James A Roth

## List of Publications by Year in descending order

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110  
papers

5,329  
citations

76196

40  
h-index

95083

68  
g-index

112  
all docs

112  
docs citations

112  
times ranked

4355  
citing authors

#	ARTICLE	IF	CITATIONS
1	A rapid, direct assay to measure degranulation of bovine neutrophil primary granules. <i>Veterinary Immunology and Immunopathology</i> , 1997, 58, 239-248.	0.5	677
2	Evaluation of bovine polymorphonuclear leukocyte function. <i>Veterinary Immunology and Immunopathology</i> , 1981, 2, 157-174.	0.5	186
3	Neutrophil Activation by Recombinant Cytokines. <i>Clinical Infectious Diseases</i> , 1989, 11, 549-568.	2.9	180
4	Recombinant Nipah Virus Vaccines Protect Pigs against Challenge. <i>Journal of Virology</i> , 2006, 80, 7929-7938.	1.5	171
5	Adjuvants in Veterinary Vaccines: Modes of Action and Adverse Effects. <i>Journal of Veterinary Internal Medicine</i> , 2003, 17, 273-281.	0.6	154
6	Fish cast NETs: Neutrophil extracellular traps are released from fish neutrophils. <i>Developmental and Comparative Immunology</i> , 2007, 31, 805-816.	1.0	153
7	Anesthetic efficacy of tricaine methanesulfonate, metomidate and eugenol: Effects on plasma cortisol concentration and neutrophil function in fathead minnows ( <i>Pimephales promelas</i> Rafinesque, 1820). <i>Aquaculture</i> , 2006, 254, 675-685.	1.7	133
8	Pathogenesis of Porcine Reproductive and Respiratory Syndrome Virus-induced Increase in Susceptibility to <i>Streptococcus suis</i> Infection. <i>Veterinary Pathology</i> , 2000, 37, 143-152.	0.8	128
9	Characterization of early pathogenic effects after experimental infection of calves with bovine immunodeficiency-like virus. <i>Journal of Virology</i> , 1992, 66, 1074-1083.	1.5	122
10	Effects of in vivo dexamethasone administration on in vitro bovine polymorphonuclear leukocyte function. <i>Infection and Immunity</i> , 1981, 33, 434-441.	1.0	114
11	Maternal antibody blocks humoral but not T cell responses to BVDV. <i>Biologicals</i> , 2003, 31, 123-125.	0.5	110
12	Enhanced pneumonia and disease in pigs vaccinated with an inactivated human-like (H <sub>1</sub> N2) vaccine and challenged with pandemic 2009 H1N1 influenza virus. <i>Vaccine</i> , 2011, 29, 2712-2719.	1.7	109
13	Zebrafish ( <i>Danio rerio</i> ) whole kidney assays to measure neutrophil extracellular trap release and degranulation of primary granules. <i>Journal of Immunological Methods</i> , 2007, 319, 87-97.	0.6	106
14	The onset of virus shedding and clinical signs in chickens infected with high-pathogenicity and low-pathogenicity avian influenza viruses. <i>Avian Pathology</i> , 2008, 37, 555-577.	0.8	97
15	Strategies for Design and Application of Enteric Viral Vaccines. <i>Annual Review of Animal Biosciences</i> , 2015, 3, 375-395.	3.6	94
16	Release of 5'-Guanosine Monophosphate and Adenine by <i>Brucella abortus</i> and Their Role in the Intracellular Survival of the Bacteria. <i>Journal of Infectious Diseases</i> , 1986, 154, 464-470.	1.9	92
17	Optimal Use of Vaccines for Control of Influenza A Virus in Swine. <i>Vaccines</i> , 2015, 3, 22-73.	2.1	90
18	Adaptations of Avian Flu Virus Are a Cause for Concern. <i>Science</i> , 2012, 335, 660-661.	6.0	88

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19	Activation of bovine neutrophils by recombinant interferon- $\beta$ . <i>Cellular Immunology</i> , 1986, 98, 137-144.	1.4	85
20	Adjuvants in Veterinary Vaccines: Modes of Action and Adverse Effects. , 2003, 17, 273.		84
21	Immune responses and protection by vaccine and various vaccine adjuvant candidates to virulent porcine reproductive and respiratory syndrome virus. <i>Veterinary Immunology and Immunopathology</i> , 2006, 109, 99-115.	0.5	81
22	Effects of Porcine Reproductive and Respiratory Syndrome Virus-Infected Antigen-Presenting Cells on T Cell Activation and Antiviral Cytokine Production. <i>Viral Immunology</i> , 2006, 19, 646-661.	0.6	81
23	Innate Immunology of Bovine Respiratory Disease. <i>Veterinary Clinics of North America - Food Animal Practice</i> , 2010, 26, 215-228.	0.5	78
24	Development of a neutralization assay for Nipah virus using pseudotype particles. <i>Journal of Virological Methods</i> , 2009, 160, 1-6.	1.0	75
25	Veterinary Vaccines and Their Importance to Animal Health and Public Health. <i>Procedia in Vaccinology</i> , 2011, 5, 127-136.	0.4	75
26	Effect of passive immunity on the development of a protective immune response against bovine viral diarrhea virus in calves. <i>American Journal of Veterinary Research</i> , 2003, 64, 65-69.	0.3	71
27	A rapid, direct assay to measure degranulation of primary granules in neutrophils from kidney of fathead minnow ( <i>Pimephales promelas</i> Rafinesque, 1820). <i>Fish and Shellfish Immunology</i> , 2005, 19, 217-227.	1.6	69
28	Role of porcine reproductive and respiratory syndrome virus nucleocapsid protein in induction of interleukin-10 and regulatory T-lymphocytes (Treg). <i>Journal of General Virology</i> , 2012, 93, 1236-1246.	1.3	66
29	Pandemic influenza planning: Shouldn't swine and poultry workers be included?. <i>Vaccine</i> , 2007, 25, 4376-4381.	1.7	65
30	Vaccination with NS1-truncated H3N2 swine influenza virus primes T cells and confers cross-protection against an H1N1 heterosubtypic challenge in pigs. <i>Vaccine</i> , 2012, 30, 280-288.	1.7	61
31	Live attenuated influenza A virus vaccine protects against A(H1N1)pdm09 heterologous challenge without vaccine associated enhanced respiratory disease. <i>Virology</i> , 2014, 471-473, 93-104.	1.1	60
32	Repeatability of flow cytometric and classical measurement of phagocytosis and respiratory burst in bovine polymorphonuclear leukocytes. <i>Veterinary Immunology and Immunopathology</i> , 2004, 97, 105-114.	0.5	57
33	Immunomodulatory effects of $\beta$ -glucan on neutrophil function in fathead minnows ( <i>Pimephales</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.0	57
34	Effect of recombinant bovine granulocyte colony-stimulating factor covalently bound to polyethylene glycol injection on neutrophil number and function in periparturient dairy cows. <i>Journal of Dairy Science</i> , 2014, 97, 4842-4851.	1.4	54
35	Comparison of humoral and cellular immune responses to a pentavalent modified live virus vaccine in three age groups of calves with maternal antibodies, before and after BVDV type 2 challenge. <i>Vaccine</i> , 2009, 27, 4508-4519.	1.7	52
36	Biology of porcine T lymphocytes. <i>Animal Health Research Reviews</i> , 2006, 7, 81-96.	1.4	48

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37	Livestock Models in Translational Medicine. <i>ILAR Journal</i> , 2015, 56, 1-6.	1.8	48
38	Divergent immune responses and disease outcomes in piglets immunized with inactivated and attenuated H3N2 swine influenza vaccines in the presence of maternally-derived antibodies. <i>Virology</i> , 2014, 464-465, 45-54.	1.1	46
39	Induction of T Lymphocytes Specific for Bovine Viral Diarrhea Virus in Calves with Maternal Antibody. <i>Viral Immunology</i> , 2004, 17, 13-23.	0.6	44
40	Mechanistic Bases for Adverse Vaccine Reactions and Vaccine Failures. <i>Advances in Veterinary Medicine</i> , 1999, 41, 681-700.	0.6	41
41	Isolation of Components of <i>Brucella abortus</i> Responsible for Inhibition of Function in Bovine Neutrophils. <i>Journal of Infectious Diseases</i> , 1985, 152, 913-921.	1.9	40
42	2006 AAHA Canine Vaccine Guidelines. <i>Journal of the American Animal Hospital Association</i> , 2006, 42, 80-89.	0.5	40
43	Comparison of the response of bovine and human neutrophils to various stimuli. <i>Veterinary Immunology and Immunopathology</i> , 1991, 28, 201-218.	0.5	39
44	Protection against henipaviruses in swine requires both, cell-mediated and humoral immune response. <i>Vaccine</i> , 2016, 34, 4777-4786.	1.7	39
45	Dual-color flow cytometric analysis of phenotype, activation marker expression, and proliferation of mitogen-stimulated bovine lymphocyte subsets. <i>Veterinary Immunology and Immunopathology</i> , 1999, 67, 33-45.	0.5	37
46	Gradient separation and cytochemical characterisation of neutrophils from kidney of fathead minnow ( <i>Pimephales promelas</i> Rafinesque, 1820). <i>Fish and Shellfish Immunology</i> , 2005, 18, 263-267.	1.6	35
47	<i>Erysipelothrix rhusiopathiae</i> : Association of Spa-type with serotype and role in protective immunity. <i>Vaccine</i> , 2010, 28, 2490-2496.	1.7	33
48	Induction of antigen-specific T-cell subset activation to bovine respiratory disease viruses by a modified-live virus vaccine. <i>American Journal of Veterinary Research</i> , 2006, 67, 1179-1184.	0.3	30
49	Immunity to Bovine Herpesvirus 1: I. Viral lifecycle and innate immunity. <i>Animal Health Research Reviews</i> , 2013, 14, 88-102.	1.4	30
50	Activation of Neutrophils by Antigen-Induced Lymphokine, With Emphasis on Antibody-Independent Cytotoxicity. <i>Journal of Leukocyte Biology</i> , 1985, 38, 557-572.	1.5	28
51	Loss of Gag-Specific Antibody Reactivity in Cattle Experimentally Infected with Bovine Immunodeficiency-Like Virus. <i>Viral Immunology</i> , 1995, 8, 27-36.	0.6	28
52	Recombinant Bovine Interferon- $\beta$ as an Immunomodulator in Dexamethasone-Treated and Nontreated Cattle. <i>Journal of Interferon Research</i> , 1989, 9, 143-151.	1.2	27
53	Duration of immunity induced by companion animal vaccines. <i>Animal Health Research Reviews</i> , 2010, 11, 165-190.	1.4	27
54	Heterologous challenge in the presence of maternally-derived antibodies results in vaccine-associated enhanced respiratory disease in weaned piglets. <i>Virology</i> , 2016, 491, 79-88.	1.1	25

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55	Effects of Dietary Leucine, Î±-Ketoisocaproate and Isovalerate on Antibody Production and Lymphocyte Blastogenesis in Growing Lambs. <i>Journal of Nutrition</i> , 1988, 118, 1564-1569.	1.3	24
56	Increased MHC Class II and CD25 expression on lymphocytes in the absence of persistent lymphocytosis in cattle experimentally infected with bovine leukemia virus. <i>Veterinary Immunology and Immunopathology</i> , 1998, 64, 235-248.	0.5	24
57	Immunity to bovine herpesvirus 1: II. Adaptive immunity and vaccinology. <i>Animal Health Research Reviews</i> , 2013, 14, 103-123.	1.4	24
58	Relationship of Glucocorticoid Suppression of Arachidonic Acid Metabolism to Alteration of Neutrophil Function. <i>Journal of Leukocyte Biology</i> , 1987, 41, 156-164.	1.5	23
59	Effects of in vitro and in vivo administration of recombinant bovine interferon-Î³ on bovine neutrophil responses to <i>Brucella abortus</i> . <i>Veterinary Immunology and Immunopathology</i> , 1989, 20, 119-133.	0.5	23
60	Humoral and T cell-mediated immune responses to bivalent killed bovine viral diarrhea virus vaccine in beef cattle. <i>Veterinary Immunology and Immunopathology</i> , 2008, 122, 8-15.	0.5	23
61	Longitudinal studies of immune function in cattle experimentally infected with bovine immunodeficiency-like virus and/or bovine leukemia virus. <i>Veterinary Immunology and Immunopathology</i> , 1997, 56, 27-38.	0.5	22
62	Pulmonary and serum antibody responses elicited in zebu cattle experimentally infected with <i>Mycoplasma mycoides</i> subsp. <i>mycoides</i> SC by contact exposure. <i>Veterinary Research</i> , 2006, 37, 733-744.	1.1	22
63	Attempts to use thiabendazole to improve the immune response in dexamethasone-treated or stressed cattle. <i>Immunopharmacology</i> , 1984, 8, 121-128.	2.0	21
64	Antigen-Specific In Vitro Activation of T-Lymphocyte Subsets of Cattle Immunized with a Modified Live Bovine Herpesvirus 1 Vaccine. <i>Viral Immunology</i> , 1999, 12, 9-21.	0.6	21
65	BHV-1-Specific CD4+, CD8+, and Î³Î³ T Cells in Calves Vaccinated with One Dose of a Modified Live BHV-1 Vaccine. <i>Viral Immunology</i> , 2002, 15, 385-393.	0.6	21
66	Comparison of humoral and cellular immune responses to inactivated swine influenza virus vaccine in weaned pigs. <i>Veterinary Immunology and Immunopathology</i> , 2011, 142, 252-257.	0.5	21
67	Activation of bovine neutrophils by recombinant bovine tumor necrosis factor-Î±. <i>Veterinary Immunology and Immunopathology</i> , 1991, 29, 329-338.	0.5	20
68	Alteration of neutrophil function in BCG-treated and non-treated swine after exposure to <i>Salmonella typhimurium</i> . <i>Veterinary Immunology and Immunopathology</i> , 1992, 33, 37-50.	0.5	20
69	T-cell populations responsive to bovine respiratory syncytial virus in seronegative calves. <i>Veterinary Immunology and Immunopathology</i> , 2002, 84, 111-123.	0.5	19
70	Methods for analysis of cell-mediated immunity in domestic animal species. <i>Journal of the American Veterinary Medical Association</i> , 2004, 225, 522-530.	0.2	19
71	New Technology for Improved Vaccine Safety and Efficacy. <i>Veterinary Clinics of North America - Food Animal Practice</i> , 2001, 17, 585-597.	0.5	17
72	Comparison of humoral and T-cell-mediated immune responses to a single dose of Bovela Â® live double deleted BVDV vaccine or to a field BVDV strain. <i>Veterinary Immunology and Immunopathology</i> , 2017, 187, 20-27.	0.5	17

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73	Effect of recombinant human cytokines on porcine neutrophil function. <i>Veterinary Immunology and Immunopathology</i> , 1993, 37, 39-47.	0.5	16
74	Model Systems to Study Immunomodulation in Domestic Food Animals. <i>Advances in Veterinary Medicine</i> , 1990, 35, 21-41.	0.1	16
75	Antigenic and genetic stability of bovine immunodeficiency virus during long-term persistence in cattle experimentally infected with the BIVR29 isolate. <i>Journal of General Virology</i> , 2000, 81, 1463-1472.	1.3	15
76	Monocyte function in cattle experimentally infected with bovine immunodeficiency-like virus. <i>Veterinary Immunology and Immunopathology</i> , 1995, 45, 31-43.	0.5	14
77	Virus, strain, and epitope specificities of neutralizing bovine monoclonal antibodies to bovine herpesvirus 1 glycoproteins gB, gC, and gD, with sequence and molecular model analysis. <i>Veterinary Immunology and Immunopathology</i> , 2015, 164, 179-193.	0.5	13
78	Factors Secreted by Untreated and Hydrocortisone-Treated Monocytes That Modulate Neutrophil Function. <i>Journal of Leukocyte Biology</i> , 1986, 40, 693-707.	1.5	12
79	Chromosomal integration and expression of the Escherichia coli K88 gene cluster in Salmonella enterica ser. Choleraesuis strain 54 (SC54). <i>Veterinary Microbiology</i> , 2001, 83, 177-183.	0.8	12
80	Neuraminidase inhibiting antibody responses in pigs differ between influenza A virus N2 lineages and by vaccine type. <i>Vaccine</i> , 2016, 34, 3773-3779.	1.7	12
81	Chemically Induced Immunomodulation in Domestic Food Animals. <i>Advances in Veterinary Medicine</i> , 1990, 35, 103-119.	0.1	11
82	Effects of thiabendazole on dexamethasone-induced suppression of lymphocyte and neutrophil function in cattle. <i>Immunopharmacology</i> , 1984, 8, 129-136.	2.0	10
83	Immunology and Prevention of Infection in Feedlot Cattle. <i>Veterinary Clinics of North America - Food Animal Practice</i> , 1998, 14, 233-256.	0.5	10
84	Priming of multiple T cell subsets by modified-live and inactivated bovine respiratory syncytial virus vaccines. <i>Veterinary Immunology and Immunopathology</i> , 2003, 95, 123-133.	0.5	10
85	In vivo effects of a thymosin $\beta$ 1-containing colostrum whey product on neutrophils and lymphocytes from lactating cows without and with experimentally induced <i>Staphylococcus aureus</i> mastitis. <i>Veterinary Immunology and Immunopathology</i> , 1989, 20, 149-163.	0.5	9
86	Role for Arachidonic Acid Metabolism and Protein Synthesis in Recombinant Bovine Interferon- $\gamma$ -Induced Activation of Bovine Neutrophils. <i>Journal of Leukocyte Biology</i> , 1989, 46, 450-460.	1.5	9
87	Characterization of protective antigens and the protective immune response. <i>Veterinary Microbiology</i> , 1993, 37, 193-199.	0.8	9
88	Evaluation of the Influence of Potential Toxins on Neutrophil Function. <i>Toxicologic Pathology</i> , 1993, 21, 141-146.	0.9	9
89	Effects of long-term infection with bovine immunodeficiency virus and/or bovine leukemia virus on antibody and lymphocyte proliferative responses in cattle. <i>Veterinary Immunology and Immunopathology</i> , 1998, 64, 249-266.	0.5	9
90	T Cells from a High Proportion of Apparently Naive Cattle Can Be Activated by Modified Vaccinia Virus Ankara (MVA). <i>Viral Immunology</i> , 2004, 17, 39-49.	0.6	9

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91	Monitoring responses by use of five-color flow cytometry in subsets of peripheral T cells obtained from cattle inoculated with a killed <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> vaccine. <i>American Journal of Veterinary Research</i> , 2006, 67, 2050-2058.	0.3	9
92	Vaccine-Associated Enhanced Respiratory Disease Does Not Interfere with the Adaptive Immune Response Following Challenge with Pandemic A/H1N1 2009. <i>Viral Immunology</i> , 2013, 26, 314-321.	0.6	9
93	Cell-mediated immunity evaluation in foals infected with virulent equine herpesvirus-1 by multi-parameter flow cytometry. <i>Veterinary Immunology and Immunopathology</i> , 2010, 135, 275-281.	0.5	8
94	Evaluation of the cell-mediated immune response to reduced doses of <i>Mycobacterium avium</i> ssp. <i>paratuberculosis</i> vaccine in cattle. <i>Veterinary Immunology and Immunopathology</i> , 2010, 136, 122-126.	0.5	8
95	Possible Association of Thymus Dysfunction with Fading Syndromes in Puppies and Kittens. <i>Veterinary Clinics of North America - Small Animal Practice</i> , 1987, 17, 603-616.	0.5	7
96	A comparison of virulent and avirulent strains of <i>Salmonella choleraesuis</i> and their ability to invade Vero cell monolayers. <i>Veterinary Microbiology</i> , 1992, 30, 355-368.	0.8	5
97	Exotic and Emerging Diseases of Animals: An Internet Course for Veterinary Students. <i>Journal of Veterinary Medical Education</i> , 2002, 29, 210-211.	0.4	5
98	The Cooperative University of Iowa / Iowa State University MPH Program. <i>Journal of Veterinary Medical Education</i> , 2008, 35, 173-176.	0.4	5
99	Generation by self re-fusion of bovine $\lambda$ —murine $\kappa$ heterohybridomas secreting virus-neutralizing bovine monoclonal antibodies to bovine herpesvirus 1 glycoproteins gB, gC, and gD. <i>Veterinary Immunology and Immunopathology</i> , 2014, 159, 58-73.	0.5	5
100	Evaluation of Antigenic Comparisons Among BVDV Isolates as it Relates to Humoral and Cell Mediated Responses. <i>Frontiers in Veterinary Science</i> , 2021, 8, 685114.	0.9	5
101	Enhancement of Monocyte Migration and Phagocytosis by the Bovine Immunodeficiency-Like Virus Gag Proteins. <i>Journal of Acquired Immune Deficiency Syndromes</i> , 1997, 14, 18-25.	0.3	3
102	Canine peripheral blood lymphocyte phenotyping by 7-color multiparameter flow cytometry. <i>Analytical and Quantitative Cytopathology and Histopathology</i> , 2013, 35, 197-204.	0.2	3
103	Immunodeficient Dwarfism in Dogs: A Model for Neuroimmunomodulation. <i>International Journal of Neuroscience</i> , 1988, 38, 443-454.	0.8	2
104	A federal and state transport plan for movement of eggs and egg products from commercial egg production premises in a high-pathogenicity avian influenza control area. <i>Journal of the American Veterinary Medical Association</i> , 2009, 235, 1412-1419.	0.2	2
105	Modulation of T-Cell Subsets in Sheep by Dietary Leucine and $\beta$ -Ketoisocaproate. <i>Journal of Nutritional Immunology</i> , 1994, 2, 7-15.	0.1	2
106	Changes in circulating lymphocytes and lymphoid tissue associated with vaccination of colostrum deprived calves. <i>Vaccine</i> , 2020, 38, 7268-7277.	1.7	1
107	Challenges in Having Vaccines Available to Control Transboundary Diseases of Livestock. <i>Current Issues in Molecular Biology</i> , 2022, 42, 1-40.	1.0	1
108	Comment on "The domestic cat antibody response to FHV-1 increases with age". <i>Veterinary Immunology and Immunopathology</i> , 2018, 203, 65.	0.5	0

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109	Calf Prewearing Immunity and Impact on Vaccine Schedules. , 2009, , 603-605.		0
110	The effects of formulation on the immunostimulatory activity of dihydroheptaprenol. Veterinary Therapeutics: Research in Applied Veterinary Medicine, 2002, 3, 347-53.	0.3	0