

Joan K Lunney

List of Publications by Year in descending order

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99
papers

6,465
citations

109137

35
h-index

69108

77
g-index

103
all docs

103
docs citations

103
times ranked

6822
citing authors

#	ARTICLE	IF	CITATIONS
1	Analyses of pig genomes provide insight into porcine demography and evolution. <i>Nature</i> , 2012, 491, 393-398.	13.7	1,190
2	Porcine Reproductive and Respiratory Syndrome Virus (PRRSV): Pathogenesis and Interaction with the Immune System. <i>Annual Review of Animal Biosciences</i> , 2016, 4, 129-154.	3.6	471
3	Advances in Swine Biomedical Model Genomics. <i>International Journal of Biological Sciences</i> , 2007, 3, 179-184.	2.6	439
4	Coordinated international action to accelerate genome-to-phenome with FAANG, the Functional Annotation of Animal Genomes project. <i>Genome Biology</i> , 2015, 16, 57.	3.8	331
5	Importance of the pig as a human biomedical model. <i>Science Translational Medicine</i> , 2021, 13, eabd5758.	5.8	234
6	Porcine reproductive and respiratory syndrome virus: An update on an emerging and re-emerging viral disease of swine. <i>Virus Research</i> , 2010, 154, 1-6.	1.1	226
7	Structural and functional annotation of the porcine immunome. <i>BMC Genomics</i> , 2013, 14, 332.	1.2	203
8	Interferon Induced <i>IFIT</i> Family Genes in Host Antiviral Defense. <i>International Journal of Biological Sciences</i> , 2013, 9, 200-208.	2.6	197
9	Molecular genetics of the swine major histocompatibility complex, the SLA complex. <i>Developmental and Comparative Immunology</i> , 2009, 33, 362-374.	1.0	161
10	Localized Multigene Expression Patterns Support an Evolving Th1/Th2-Like Paradigm in Response to Infections with <i>Toxoplasma gondii</i> and <i>Ascaris suum</i> . <i>Infection and Immunity</i> , 2005, 73, 1116-1128.	1.0	150
11	Deciphering the involvement of innate immune factors in the development of the host response to PRRSV vaccination. <i>Veterinary Immunology and Immunopathology</i> , 2004, 102, 199-216.	0.5	138
12	A Full-Length cDNA Infectious Clone of North American Type 1 Porcine Reproductive and Respiratory Syndrome Virus: Expression of Green Fluorescent Protein in the Nsp2 Region. <i>Journal of Virology</i> , 2006, 80, 11447-11455.	1.5	120
13	Genome to Phenome: Improving Animal Health, Production, and Well-Being – A New USDA Blueprint for Animal Genome Research 2018–2027. <i>Frontiers in Genetics</i> , 2019, 10, 327.	1.1	118
14	TRANSPLANTATION IN MINIATURE SWINE. <i>Transplantation</i> , 1981, 31, 66-71.	0.5	92
15	Control of porcine reproductive and respiratory syndrome (PRRS) through genetic improvements in disease resistance and tolerance. <i>Frontiers in Genetics</i> , 2012, 3, 260.	1.1	92
16	Immunodominant epitopes in nsp2 of porcine reproductive and respiratory syndrome virus are dispensable for replication, but play an important role in modulation of the host immune response. <i>Journal of General Virology</i> , 2010, 91, 1047-1057.	1.3	77
17	Interleukin-8, Interleukin-1 β , and Interferon- γ Levels Are Linked to PRRS Virus Clearance. <i>Viral Immunology</i> , 2010, 23, 127-134.	0.6	72
18	Summary of the animal homologue section of HLDA8. <i>Cellular Immunology</i> , 2005, 236, 51-58.	1.4	70

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19	Cytokines and synthetic double-stranded RNA augment the T helper 1 immune response of swine to porcine reproductive and respiratory syndrome virus. <i>Veterinary Immunology and Immunopathology</i> , 2004, 102, 299-314.	0.5	69
20	<sc>GO</sc>â€œ<sc>FAANG</sc> meeting: a Gathering On Functional Annotation of <sc>Animal Genomes. <i>Animal Genetics</i> , 2016, 47, 528-533.	0.6	65
21	Validation of a first-generation long-oligonucleotide microarray for transcriptional profiling in the pig. <i>Genomics</i> , 2005, 86, 618-625.	1.3	64
22	A Vision for Development and Utilization of High-Throughput Phenotyping and Big Data Analytics in Livestock. <i>Frontiers in Genetics</i> , 2019, 10, 1197.	1.1	64
23	Opportunities for bead-based multiplex assays in veterinary diagnostic laboratories. <i>Journal of Veterinary Diagnostic Investigation</i> , 2013, 25, 671-691.	0.5	62
24	Isolation and purification of lymphocyte subsets from gut-associated lymphoid tissue in neonatal swine. <i>Journal of Immunological Methods</i> , 2000, 241, 185-199.	0.6	61
25	Genetic control of host resistance to porcine reproductive and respiratory syndrome virus (PRRSV) infection. <i>Virus Research</i> , 2010, 154, 161-169.	1.1	61
26	Characterization of lymphocyte subsets from mucosal tissues in neonatal swine. <i>Developmental and Comparative Immunology</i> , 2001, 25, 245-263.	1.0	57
27	Perspectives for artificial insemination and genomics to improve global swine populations. <i>Theriogenology</i> , 2005, 63, 283-299.	0.9	52
28	A cell surface ELISA in the mouse using only poly-l-lysine as cell fixative. <i>Journal of Immunological Methods</i> , 1985, 76, 63-72.	0.6	50
29	Alterations in Splenic Lymphoid Cell Subsets and Activation Antigens in Copper-Deficient Rats. <i>Journal of Nutrition</i> , 1991, 121, 745-753.	1.3	50
30	Novel insights into host responses and reproductive pathophysiology of porcine reproductive and respiratory syndrome caused by PRRSV-2. <i>Veterinary Microbiology</i> , 2017, 209, 114-123.	0.8	48
31	Variation in Fetal Outcome, Viral Load and ORF5 Sequence Mutations in a Large Scale Study of Phenotypic Responses to Late Gestation Exposure to Type 2 Porcine Reproductive and Respiratory Syndrome Virus. <i>PLoS ONE</i> , 2014, 9, e96104.	1.1	47
32	Importance of the Major Histocompatibility Complex (Swine Leukocyte Antigen) in Swine Health and Biomedical Research. <i>Annual Review of Animal Biosciences</i> , 2020, 8, 171-198.	3.6	46
33	Quantitative detection of porcine interferon-gamma in response to mitogen, superantigen and recall viral antigen. <i>Veterinary Immunology and Immunopathology</i> , 1998, 61, 265-277.	0.5	43
34	Gene expression profiling in <i>Salmonella Choleraesuis</i> -infected porcine lung using a long oligonucleotide microarray. <i>Mammalian Genome</i> , 2006, 17, 777-789.	1.0	41
35	Porcine differential gene expression in response to <i>Salmonella enterica</i> serovars <i>Choleraesuis</i> and <i>Typhimurium</i> . <i>Molecular Immunology</i> , 2007, 44, 2900-2914.	1.0	40
36	Maternal and fetal predictors of fetal viral load and death in third trimester, type 2 porcine reproductive and respiratory syndrome virus infected pregnant gilts. <i>Veterinary Research</i> , 2015, 46, 107.	1.1	38

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37	Identification of key immune mediators regulating T helper 1 responses in swine. <i>Veterinary Immunology and Immunopathology</i> , 2004, 100, 105-111.	0.5	37
38	<i>Salmonella enterica</i> serovar Typhimurium-infected pigs with different shedding levels exhibit distinct clinical, peripheral cytokine and transcriptomic immune response phenotypes. <i>Innate Immunity</i> , 2015, 21, 227-241.	1.1	37
39	Rapid assignment of swine leukocyte antigen haplotypes in pedigreed herds using a polymerase chain reaction-based assay. <i>Immunogenetics</i> , 2003, 55, 395-401.	1.2	36
40	Global transcriptional response of porcine mesenteric lymph nodes to <i>Salmonella enterica</i> serovar Typhimurium. <i>Genomics</i> , 2007, 90, 72-84.	1.3	36
41	Reference Transcriptomes of Porcine Peripheral Immune Cells Created Through Bulk and Single-Cell RNA Sequencing. <i>Frontiers in Genetics</i> , 2021, 12, 689406.	1.1	36
42	Production of monoclonal antibodies reactive with polymorphic and monomorphic determinants of SLA class I gene products. <i>Immunogenetics</i> , 1991, 33, 220-223.	1.2	35
43	Current status of the swine leukocyte antigen complex. <i>Veterinary Immunology and Immunopathology</i> , 1994, 43, 19-28.	0.5	35
44	Quantitative Analysis of Porcine Reproductive and Respiratory Syndrome (PRRS) Viremia Profiles from Experimental Infection: A Statistical Modelling Approach. <i>PLoS ONE</i> , 2013, 8, e83567.	1.1	35
45	Cellular immune responses of pigs after primary inoculation with porcine respiratory coronavirus or transmissible gastroenteritis virus and challenge with transmissible gastroenteritis virus. <i>Veterinary Immunology and Immunopathology</i> , 1995, 48, 35-54.	0.5	33
46	Analyses of monoclonal antibodies reactive with porcine CD44 and CD45. <i>Veterinary Immunology and Immunopathology</i> , 1994, 43, 293-305.	0.5	32
47	Cytokine and lymphocyte profiles in miniature swine after oral infection with <i>Toxoplasma gondii</i> oocysts. <i>International Journal for Parasitology</i> , 2001, 31, 187-195.	1.3	31
48	Pathogenicity of three type 2 porcine reproductive and respiratory syndrome virus strains in experimentally inoculated pregnant gilts. <i>Virus Research</i> , 2015, 203, 24-35.	1.1	31
49	Porcine cluster of differentiation (CD) markers 2018 update. <i>Research in Veterinary Science</i> , 2018, 118, 199-246.	0.9	31
50	Definition of the specificity of monoclonal antibodies against porcine CD45 and CD45R: report from the CD45/CD45R and CD44 subgroup of the Second International Swine CD Workshop. <i>Veterinary Immunology and Immunopathology</i> , 1998, 60, 367-387.	0.5	28
51	Cytokine and chemokine mRNA expression profiles in tracheobronchial lymph nodes from pigs singularly infected or coinfecting with porcine circovirus type 2 (PCV2) and <i>Mycoplasma hyopneumoniae</i> (MHYO). <i>Veterinary Immunology and Immunopathology</i> , 2011, 140, 152-158.	0.5	28
52	Vaccination with a Porcine Reproductive and Respiratory Syndrome (PRRS) Modified Live Virus Vaccine Followed by Challenge with PRRS Virus and Porcine Circovirus Type 2 (PCV2) Protects against PRRS but Enhances PCV2 Replication and Pathogenesis Compared to Results for Nonvaccinated Cochallenged Controls. <i>Vaccine Journal</i> , 2015, 22, 1244-1254.	3.2	27
53	MECHANISM OF TOLERANCE FOLLOWING CLASS I-DISPARATE RENAL ALLOGRAFTS IN MINIATURE SWINE. <i>Transplantation</i> , 1990, 49, 1142-1149.	0.5	26
54	Genome-wide analysis of the transcriptional response to porcine reproductive and respiratory syndrome virus infection at the maternal/fetal interface and in the fetus. <i>BMC Genomics</i> , 2016, 17, 383.	1.2	26

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55	The Second International Swine CD Workshop. <i>Veterinary Immunology and Immunopathology</i> , 1996, 54, 155-158.	0.5	25
56	Cytokine profiles in pregnant gilts experimentally infected with porcine reproductive and respiratory syndrome virus and relationships with viral load and fetal outcome. <i>Veterinary Research</i> , 2014, 45, 113.	1.1	25
57	Characteristics of T lymphocyte cell lines established from NIH minipigs challenge inoculated with <i>Trichinella spiralis</i> . <i>Veterinary Immunology and Immunopathology</i> , 1993, 35, 301-319.	0.5	24
58	Host genetics of response to porcine reproductive and respiratory syndrome in nursery pigs. <i>Veterinary Microbiology</i> , 2017, 209, 107-113.	0.8	24
59	Swine leukocyte antigen and macrophage marker expression on both African swine fever virus-infected and non-infected primary porcine macrophage cultures. <i>Veterinary Immunology and Immunopathology</i> , 1992, 32, 243-259.	0.5	23
60	The minipig as an animal model to study <i>Mycobacterium tuberculosis</i> infection and natural transmission. <i>Tuberculosis</i> , 2017, 106, 91-98.	0.8	23
61	Birth Weight, Intrauterine Growth Retardation and Fetal Susceptibility to Porcine Reproductive and Respiratory Syndrome Virus. <i>PLoS ONE</i> , 2014, 9, e109541.	1.1	23
62	<i>Trichinella spiralis</i> : Major histocompatibility complex-associated elimination of encysted muscle larvae in swine. <i>Experimental Parasitology</i> , 1990, 70, 443-451.	0.5	21
63	Changes in leukocyte subsets of pregnant gilts experimentally infected with porcine reproductive and respiratory syndrome virus and relationships with viral load and fetal outcome. <i>Veterinary Research</i> , 2014, 45, 128.	1.1	20
64	A current perspective on availability of tools, resources and networks for veterinary immunology. <i>Veterinary Immunology and Immunopathology</i> , 2009, 128, 24-29.	0.5	19
65	Characterizing differential individual response to porcine reproductive and respiratory syndrome virus infection through statistical and functional analysis of gene expression. <i>Frontiers in Genetics</i> , 2013, 3, 321.	1.1	18
66	Microsatellite diversity and crossover regions within homozygous and heterozygous SLA haplotypes of different pig breeds. <i>Immunogenetics</i> , 2008, 60, 399-407.	1.2	17
67	Comparative antiviral and proviral factors in semen and vaccines for preventing viral dissemination from the male reproductive tract and semen. <i>Animal Health Research Reviews</i> , 2008, 9, 59-69.	1.4	16
68	CNV Analysis of Host Responses to Porcine Reproductive and Respiratory Syndrome Virus Infection. <i>Journal of Genomics</i> , 2017, 5, 58-63.	0.6	16
69	T cell numbers and mitogenic responsiveness of peripheral blood mononuclear cells are decreased in copper deficient rats. <i>Nutrition Research</i> , 1990, 10, 749-760.	1.3	15
70	Porcine S100A8 and S100A9: Molecular characterizations and crucial functions in response to <i>Haemophilus parasuis</i> infection. <i>Developmental and Comparative Immunology</i> , 2011, 35, 490-500.	1.0	15
71	Prediction of Altered 3' UTR miRNA-Binding Sites from RNA-Seq Data: The Swine Leukocyte Antigen Complex (SLA) as a Model Region. <i>PLoS ONE</i> , 2012, 7, e48607.	1.1	15
72	CD11/CD18 panel report for swine CD workshop. <i>Veterinary Immunology and Immunopathology</i> , 1994, 43, 289-291.	0.5	14

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73	Genetic relationships of antibody response, viremia level, and weight gain in pigs experimentally infected with porcine reproductive and respiratory syndrome virus1. <i>Journal of Animal Science</i> , 2018, 96, 3565-3581.	0.2	14
74	Differential responses in placenta and fetal thymus at 12%days post infection elucidate mechanisms of viral level and fetal compromise following PRRSV2 infection. <i>BMC Genomics</i> , 2020, 21, 763.	1.2	14
75	Porcine cytokines, chemokines and growth factors: 2019 update. <i>Research in Veterinary Science</i> , 2020, 131, 266-300.	0.9	14
76	Differences in Whole Blood Gene Expression Associated with Infection Time-Course and Extent of Fetal Mortality in a Reproductive Model of Type 2 Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) Infection. <i>PLoS ONE</i> , 2016, 11, e0153615.	1.1	13
77	Gene expression in tonsils in swine following infection with porcine reproductive and respiratory syndrome virus. <i>BMC Veterinary Research</i> , 2021, 17, 88.	0.7	12
78	AN ANTI-HUMAN-T-CELL MONOCLONAL ANTIBODY WITH SPECIFICITY FOR A NOVEL DETERMINANT. <i>Transplantation</i> , 1988, 46, 143-150.	0.5	11
79	Minipigs as a neonatal animal model for tuberculosis vaccine efficacy testing. <i>Veterinary Immunology and Immunopathology</i> , 2019, 215, 109884.	0.5	9
80	Identification of factors associated with virus level in tonsils of pigs experimentally infected with porcine reproductive and respiratory syndrome virus1. <i>Journal of Animal Science</i> , 2019, 97, 536-547.	0.2	9
81	The Veterinary Immunological Toolbox: Past, Present, and Future. <i>Frontiers in Immunology</i> , 2020, 11, 1651.	2.2	9
82	Molecular cloning of cDNA encoding porcine interleukin-15. <i>Gene</i> , 1997, 195, 337-339.	1.0	8
83	Phenotypic and Functional Alterations in Peripheral Blood Mononuclear Cells of Copper-Deficient Rats. <i>Annals of the New York Academy of Sciences</i> , 1990, 587, 283-285.	1.8	7
84	Mapping of the porcine ? interferon (IFNA) gene to Chromosome 1 by fluorescence in situ hybridization. <i>Mammalian Genome</i> , 1993, 4, 62-63.	1.0	7
85	Cross-reaction of anti-human CD monoclonal antibodies on guinea pig cells: A summary of the guinea pig section of the HLDA8 animal homologues data. <i>Veterinary Immunology and Immunopathology</i> , 2007, 119, 131-136.	0.5	7
86	Alternative strategies for the control and elimination of PRRS. <i>Veterinary Microbiology</i> , 2017, 209, 1-4.	0.8	7
87	Neonatal and infant immunity for tuberculosis vaccine development: importance of age-matched animal models. <i>DMM Disease Models and Mechanisms</i> , 2020, 13, .	1.2	7
88	Expressed gene sequence and bioactivity of the IFN β -response chemokine CXCL11 of swine and cattle. <i>Veterinary Immunology and Immunopathology</i> , 2010, 136, 170-175.	0.5	6
89	PREPARATION AND CHARACTERIZATION OF AN ANTISERUM SPECIFIC FOR T CELLS OF PIGS. <i>Transplantation</i> , 1980, 29, 477-483.	0.5	5
90	Analyses of anti-human CD monoclonal antibodies for cross reactions with swine cell antigens. <i>Veterinary Immunology and Immunopathology</i> , 1994, 43, 207-210.	0.5	5

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91	The Natural Cytotoxicity Receptor NKp44 (NCR2, CD336) Is Expressed on the Majority of Porcine NK Cells Ex Vivo Without Stimulation. <i>Frontiers in Immunology</i> , 2022, 13, 767530.	2.2	4
92	Development and Characterization of New Monoclonal Antibodies Against Porcine Interleukin-17A and Interferon-Gamma. <i>Frontiers in Immunology</i> , 2022, 13, 786396.	2.2	4
93	Mapping of the porcine SLA class I gene (PD1A) and the associated repetitive element (C11) by fluorescence in situ hybridization. <i>Mammalian Genome</i> , 1993, 4, 64-65.	1.0	3
94	Expressed gene sequence of the IFN γ -response chemokine CXCL9 of cattle, horses, and swine. <i>Veterinary Immunology and Immunopathology</i> , 2011, 141, 317-321.	0.5	3
95	Advancing women scientists: the immunology experience. <i>Nature Immunology</i> , 2005, 6, 855-855.	7.0	2
96	Effector cells. <i>Veterinary Immunology and Immunopathology</i> , 1993, 35, 153-159.	0.5	0
97	Agricultural Microbes Genome 2. <i>Comparative and Functional Genomics</i> , 2001, 2, 10-13.	2.0	0
98	The NC229 multi-station research consortium on emerging viral diseases of swine: Solving stakeholder problems through innovative science and research. <i>Virus Research</i> , 2020, 280, 197898.	1.1	0
99	The transcriptional response to Salmonella infection in swine. , 0, , .		0