Joan K Lunney

List of Publications by Year
in descending order

99 papers	6,465 citations	109321 35 h-index	69250 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. Nature, 2012, 491, 393-398.	27.8	1,190
2	Porcine Reproductive and Respiratory Syndrome Virus (PRRSV): Pathogenesis and Interaction with the Immune System. Annual Review of Animal Biosciences, 2016, 4, 129-154.	7.4	471
3	Advances in Swine Biomedical Model Genomics. International Journal of Biological Sciences, 2007, 3, 179-184.	6.4	439
4	Coordinated international action to accelerate genome-to-phenome with FAANG, the Functional Annotation of Animal Genomes project. Genome Biology, 2015, 16, 57.	8.8	331
5	Importance of the pig as a human biomedical model. Science Translational Medicine, 2021, 13, eabd5758.	12.4	234
6	Porcine reproductive and respiratory syndrome virus: An update on an emerging and re-emerging viral disease of swine. Virus Research, 2010, 154, 1-6.	2.2	226
7	Structural and functional annotation of the porcine immunome. BMC Genomics, 2013, 14, 332.	2.8	203
8	Interferon Induced <i>IFIT</i> Family Genes in Host Antiviral Defense. International Journal of Biological Sciences, 2013, 9, 200-208.	6.4	197
9	Molecular genetics of the swine major histocompatibility complex, the SLA complex. Developmental and Comparative Immunology, 2009, 33, 362-374.	2.3	161
10	Localized Multigene Expression Patterns Support an Evolving Th1/Th2-Like Paradigm in Response to Infections with Toxoplasma gondii and Ascaris suum. Infection and Immunity, 2005, 73, 1116-1128.	2.2	150
11	Deciphering the involvement of innate immune factors in the development of the host response to PRRSV vaccination. Veterinary Immunology and Immunopathology, 2004, 102, 199-216.	1.2	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. Journal of Virology, 2006, 80, 11447-11455.	3.4	120
13	Genome to Phenome: Improving Animal Health, Production, and Well-Being â€“ A New USDA Blueprint for Animal Genome Research 2018â€“2027. Frontiers in Genetics, 2019, 10, 327.	2.3	118
14	TRANSPLANTATION IN MINIATURE SWINE. Transplantation, 1981, 31, 66-71.	1.0	92
15	Control of porcine reproductive and respiratory syndrome (PRRS) through genetic improvements in disease resistance and tolerance. Frontiers in Genetics, 2012, 3, 260.	2.3	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. Journal of General Virology, 2010, 91, 1047-1057.	2.9	77
17	Interleukin-8, Interleukin-1Î², and Interferon-Î³ Levels Are Linked to PRRS Virus Clearance. Viral Immunology, 2010, 23, 127-134.	1.3	72
18	Summary of the animal homologue section of HLDA8. Cellular Immunology, 2005, 236, 51-58.	3.0	70

#	ARTICLE	IF	CITATIONS
19	Cytokines and synthetic double-stranded RNA augment the T helper 1 immune response of swine to porcine reproductive and respiratory syndrome virus. Veterinary Immunology and Immunopathology, 2004, 102, 299-314.	1.2	69
20	<scp>GO</scp>â€<scp>FAANG</scp> meeting: a Gathering On Functional Annotation of <scp>An</scp>imal Genomes. Animal Genetics, 2016, 47, 528-533.	1.7	65
21	Validation of a first-generation long-oligonucleotide microarray for transcriptional profiling in the pig. Genomics, 2005, 86, 618-625.	2.9	64
22	A Vision for Development and Utilization of High-Throughput Phenotyping and Big Data Analytics in Livestock. Frontiers in Genetics, 2019, 10, 1197.	2.3	64
23	Opportunities for bead-based multiplex assays in veterinary diagnostic laboratories. Journal of Veterinary Diagnostic Investigation, 2013, 25, 671-691.	1.1	62
24	Isolation and purification of lymphocyte subsets from gut-associated lymphoid tissue in neonatal swine. Journal of Immunological Methods, 2000, 241, 185-199.	1.4	61
25	Genetic control of host resistance to porcine reproductive and respiratory syndrome virus (PRRSV) infection. Virus Research, 2010, 154, 161-169.	2.2	61
26	Characterization of lymphocyte subsets from mucosal tissues in neonatal swine. Developmental and Comparative Immunology, 2001, 25, 245-263.	2.3	57
27	Perspectives for artificial insemination and genomics to improve global swine populations. Theriogenology, 2005, 63, 283-299.	2.1	52
28	A cell surface ELISA in the mouse using only poly-l-lysine as cell fixative. Journal of Immunological Methods, 1985, 76, 63-72.	1.4	50
29	Alterations in Splenic Lymphoid Cell Subsets and Activation Antigens in Copper-Deficient Rats. Journal of Nutrition, 1991, 121, 745-753.	2.9	50
30	Novel insights into host responses and reproductive pathophysiology of porcine reproductive and respiratory syndrome caused by PRRSV-2. Veterinary Microbiology, 2017, 209, 114-123.	1.9	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. PLoS ONE, 2014, 9, e96104.	2.5	47
32	Importance of the Major Histocompatibility Complex (Swine Leukocyte Antigen) in Swine Health and Biomedical Research. Annual Review of Animal Biosciences, 2020, 8, 171-198.	7.4	46
33	Quantitative detection of porcine interferon-gamma in response to mitogen, superantigen and recall viral antigen. Veterinary Immunology and Immunopathology, 1998, 61, 265-277.	1.2	43
34	Gene expression profiling in Salmonella Choleraesuis-infected porcine lung using a long oligonucleotide microarray. Mammalian Genome, 2006, 17, 777-789.	2.2	41
35	Porcine differential gene expression in response to Salmonella enterica serovars Choleraesuis and Typhimurium. Molecular Immunology, 2007, 44, 2900-2914.	2.2	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. Veterinary Research, 2015, 46, 107.	3.0	38

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37	Identification of key immune mediators regulating T helper 1 responses in swine. Veterinary Immunology and Immunopathology, 2004, 100, 105-111.	1.2	37
38	Salmonella enterica serovar Typhimurium-infected pigs with different shedding levels exhibit distinct clinical, peripheral cytokine and transcriptomic immune response phenotypes. Innate Immunity, 2015, 21, 227-241.	2.4	37
39	Rapid assignment of swine leukocyte antigen haplotypes in pedigreed herds using a polymerase chain reaction-based assay. Immunogenetics, 2003, 55, 395-401.	2.4	36
40	Global transcriptional response of porcine mesenteric lymph nodes to Salmonella enterica serovar Typhimurium. Genomics, 2007, 90, 72-84.	2.9	36
41	Reference Transcriptomes of Porcine Peripheral Immune Cells Created Through Bulk and Single-Cell RNA Sequencing. Frontiers in Genetics, 2021, 12, 689406.	2.3	36
42	Production of monoclonal antibodies reactive with polymorphic and monomorphic determinants of SLA class I gene products. Immunogenetics, 1991, 33, 220-223.	2.4	35
43	Current status of the swine leukocyte antigen complex. Veterinary Immunology and Immunopathology, 1994, 43, 19-28.	1.2	35
44	Quantitative Analysis of Porcine Reproductive and Respiratory Syndrome (PRRS) Viremia Profiles from Experimental Infection: A Statistical Modelling Approach. PLoS ONE, 2013, 8, e83567.	2.5	35
45	Cellular immune responses of pigs after primary inoculation with porcine respiratory coronavirus or transmissible gastroenteritis virus and challenge with transmissible gastroenteritis virus. Veterinary Immunology and Immunopathology, 1995, 48, 35-54.	1.2	33
46	Analyses of monoclonal antibodies reactive with porcine CD44 and CD45. Veterinary Immunology and Immunopathology, 1994, 43, 293-305.	1.2	32
47	Cytokine and lymphocyte profiles in miniature swine after oral infection with Toxoplasma gondii oocysts. International Journal for Parasitology, 2001, 31, 187-195.	3.1	31
48	Pathogenicity of three type 2 porcine reproductive and respiratory syndrome virus strains in experimentally inoculated pregnant gilts. Virus Research, 2015, 203, 24-35.	2.2	31
49	Porcine cluster of differentiation (CD) markers 2018 update. Research in Veterinary Science, 2018, 118, 199-246.	1.9	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. Veterinary Immunology and Immunopathology, 1998, 60, 367-387.	1.2	28
51	Cytokine and chemokine mRNA expression profiles in tracheobronchial lymph nodes from pigs singularly infected or coinfected with porcine circovirus type 2 (PCV2) and Mycoplasma hyopneumoniae (MHYO). Veterinary Immunology and Immunopathology, 2011, 140, 152-158.	1.2	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. Vaccine Journal, 2015, 22, 1244-1254.	3.1	27
53	MECHANISM OF TOLERANCE FOLLOWING CLASS I-DISPARATE RENAL ALLOGRAFTS IN MINIATURE SWINE. Transplantation, 1990, 49, 1142-1149.	1.0	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. BMC Genomics, 2016, 17, 383.	2.8	26

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55	The Second International Swine CD Workshop. Veterinary Immunology and Immunopathology, 1996, 54, 155-158.	1.2	25
56	Cytokine profiles in pregnant gilts experimentally infected with porcine reproductive and respiratory syndrome virus and relationships with viral load and fetal outcome. Veterinary Research, 2014, 45, 113.	3.0	25
57	Characteristics of T lymphocyte cell lines established from NIH minipigs challenge inoculated with Trichinella spiralis. Veterinary Immunology and Immunopathology, 1993, 35, 301-319.	1.2	24
58	Host genetics of response to porcine reproductive and respiratory syndrome in nursery pigs. Veterinary Microbiology, 2017, 209, 107-113.	1.9	24
59	Swine leukocyte antigen and macrophage marker expression on both African swine fever virus-infected and non-infected primary porcine macrophage cultures. Veterinary Immunology and Immunopathology, 1992, 32, 243-259.	1.2	23
60	The minipig as an animal model to study Mycobacterium tuberculosis infection and natural transmission. Tuberculosis, 2017, 106, 91-98.	1.9	23
61	Birth Weight, Intrauterine Growth Retardation and Fetal Susceptibility to Porcine Reproductive and Respiratory Syndrome Virus. PLoS ONE, 2014, 9, e109541.	2.5	23
62	Trichinella spiralis: Major histocompatibility complex-associated elimination of encysted muscle larvae in swine. Experimental Parasitology, 1990, 70, 443-451.	1.2	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. Veterinary Research, 2014, 45, 128.	3.0	20
64	A current perspective on availability of tools, resources and networks for veterinary immunology. Veterinary Immunology and Immunopathology, 2009, 128, 24-29.	1.2	19
65	Characterizing differential individual response to porcine reproductive and respiratory syndrome virus infection through statistical and functional analysis of gene expression. Frontiers in Genetics, 2013, 3, 321.	2.3	18
66	Microsatellite diversity and crossover regions within homozygous and heterozygous SLA haplotypes of different pig breeds. Immunogenetics, 2008, 60, 399-407.	2.4	17
67	Comparative antiviral and proviral factors in semen and vaccines for preventing viral dissemination from the male reproductive tract and semen. Animal Health Research Reviews, 2008, 9, 59-69.	3.1	16
68	CNV Analysis of Host Responses to Porcine Reproductive and Respiratory Syndrome Virus Infection. Journal of Genomics, 2017, 5, 58-63.	0.9	16
69	T cell numbers and mitogenic responsiveness of peripheral blood mononuclear cells are decreased in copper deficient rats. Nutrition Research, 1990, 10, 749-760.	2.9	15
70	Porcine S100A8 and S100A9: Molecular characterizations and crucial functions in response to Haemophilus parasuis infection. Developmental and Comparative Immunology, 2011, 35, 490-500.	2.3	15
71	Prediction of Altered 3â€²- UTR miRNA-Binding Sites from RNA-Seq Data: The Swine Leukocyte Antigen Complex (SLA) as a Model Region. PLoS ONE, 2012, 7, e48607.	2.5	15
72	CD11/CD18 panel report for swine CD workshop. Veterinary Immunology and Immunopathology, 1994, 43, 289-291.	1.2	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. Journal of Animal Science, 2018, 96, 3565-3581.	0.5	14
74	Differential responses in placenta and fetal thymus at 12â€‰days post infection elucidate mechanisms of viral level and fetal compromise following PRRSV2 infection. BMC Genomics, 2020, 21, 763.	2.8	14
75	Porcine cytokines, chemokines and growth factors: 2019 update. Research in Veterinary Science, 2020, 131, 266-300.	1.9	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. PLoS ONE, 2016, 11, e0153615.	2.5	13
77	Gene expression in tonsils in swine following infection with porcine reproductive and respiratory syndrome virus. BMC Veterinary Research, 2021, 17, 88.	1.9	12
78	AN ANTI-HUMAN-T-CELL MONOCLONAL ANTIBODY WITH SPECIFICITY FOR A NOVEL DETERMINANT. Transplantation, 1988, 46, 143-150.	1.0	11
79	Minipigs as a neonatal animal model for tuberculosis vaccine efficacy testing. Veterinary Immunology and Immunopathology, 2019, 215, 109884.	1.2	9
80	Identification of factors associated with virus level in tonsils of pigs experimentally infected with porcine reproductive and respiratory syndrome virus1. Journal of Animal Science, 2019, 97, 536-547.	0.5	9
81	The Veterinary Immunological Toolbox: Past, Present, and Future. Frontiers in Immunology, 2020, 11, 1651.	4.8	9
82	Molecular cloning of cDNA encoding porcine interleukin-15. Gene, 1997, 195, 337-339.	2.2	8
83	Phenotypic and Functional Alterations in Peripheral Blood Mononuclear Cells of Copperâ€Deficient Rats. Annals of the New York Academy of Sciences, 1990, 587, 283-285.	3.8	7
84	Mapping of the porcine ? interferon (IFNA) gene to Chromosome 1 by fluorescence in situ hybridization. Mammalian Genome, 1993, 4, 62-63.	2.2	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. Veterinary Immunology and Immunopathology, 2007, 119, 131-136.	1.2	7
86	Alternative strategies for the control and elimination of PRRS. Veterinary Microbiology, 2017, 209, 1-4.	1.9	7
87	Neonatal and infant immunity for tuberculosis vaccine development: importance of age-matched animal models. DMM Disease Models and Mechanisms, 2020, 13, .	2.4	7
88	Expressed gene sequence and bioactivity of the IFNÎ³-response chemokine CXCL11 of swine and cattle. Veterinary Immunology and Immunopathology, 2010, 136, 170-175.	1.2	6
89	PREPARATION AND CHARACTERIZATION OF AN ANTISERUM SPECIFIC FOR T CELLS OF PIGS. Transplantation, 1980, 29, 477-483.	1.0	5
90	Analyses of anti-human CD monoclonal antibodies for cross reactions with swine cell antigens. Veterinary Immunology and Immunopathology, 1994, 43, 207-210.	1.2	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. Frontiers in Immunology, 2022, 13, 767530.	4.8	4
92	Development and Characterization of New Monoclonal Antibodies Against Porcine Interleukin-17A and Interferon-Gamma. Frontiers in Immunology, 2022, 13, 786396.	4.8	4
93	Mapping of the porcine SLA class I gene (PD1A) and the associated repetitive element (C11) by fluorescence in situ hydribization. Mammalian Genome, 1993, 4, 64-65.	2.2	3
94	Expressed gene sequence of the IFNÎ³-response chemokine CXCL9 of cattle, horses, and swine. Veterinary Immunology and Immunopathology, 2011, 141, 317-321.	1.2	3
95	Advancing women scientists: the immunology experience. Nature Immunology, 2005, 6, 855-855.	14.5	2
96	Effector cells. Veterinary Immunology and Immunopathology, 1993, 35, 153-159.	1.2	0
97	Agricultural Microbes Genome 2. Comparative and Functional Genomics, 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. Virus Research, 2020, 280, 197898.	2.2	0
99	The transcriptional response to Salmonella infection in swine. , 0, , .		0