Yrjo T Grohn

List of Publications by Citations

130	3,007	31	48
papers	citations	h-index	g-index
137	3,441	3.5	5
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
130	Effect of pathogen-specific clinical mastitis on milk yield in dairy cows. *Journal of Dairy Science*, **2004**, 87, 3358-74	4	225
129	Landscape and meteorological factors affecting prevalence of three food-borne pathogens in fruit and vegetable farms. *Applied and Environmental Microbiology*, **2013**, 79, 588-600	4.8	176
128	Risk factors associated with Salmonella and Listeria monocytogenes contamination of produce fields. *Applied and Environmental Microbiology*, **2013**, 79, 7618-27	4.8	100
127	Listeria monocytogenes in multiple habitats and host populations: review of available data for mathematical modeling. *Foodborne Pathogens and Disease*, **2006**, 3, 319-36	3.8	85
126	Optimizing replacement of dairy cows: modeling the effects of diseases. *Preventive Veterinary Medicine*, **2003**, 61, 27-43	3.1	69
125	Quantitative risk assessment of listeriosis-associated deaths due to Listeria monocytogenes contamination of deli meats originating from manufacture and retail. *Journal of Food Protection*, **2010**, 73, 620-30	2.5	61
124	Addressing Antimicrobial Resistance: An Overview of Priority Actions to Prevent Suboptimal Antimicrobial Use in Food-Animal Production. *Frontiers in Microbiology*, **2016**, 7, 2114	5.7	60
123	Microarray identification of Clostridium difficile core components and divergent regions associated with host origin. *Journal of Bacteriology*, **2009**, 191, 3881-91	3.5	60
122	Prevalence, distribution, and diversity of Listeria monocytogenes in retail environments, focusing on small establishments and establishments with a history of failed inspections. *Journal of Food Protection*, **2011**, 74, 1083-95	2.5	57
121	The mediating effect of maternal nutrition knowledge on the association between maternal schooling and child nutritional status in Lesotho. *American Journal of Epidemiology*, **1992**, 135, 904-14	3.8	55
120	An epidemiological and genetic study on registered diseases in Finnish Ayrshire cattle. I. The data, disease occurrence and culling. *Acta Veterinaria Scandinavica*, **1986**, 27, 182-95	2	55
119	Effect of pathogen-specific clinical mastitis on herd life in two New York State dairy herds. *Preventive Veterinary Medicine*, **2005**, 71, 105-25	3.1	54
118	Quantitative risk assessment for Listeria monocytogenes in selected categories of deli meats: impact of lactate and diacetate on listeriosis cases and deaths. *Journal of Food Protection*, **2009**, 72, 978-89	2.5	52
117	The Mycobacterium avium subsp. paratuberculosis ELISA response by parity and stage of lactation. *Preventive Veterinary Medicine*, **2002**, 54, 1-10	3.1	52
116	Modeling the infection dynamics of bacteriophages in enteric Escherichia coli: estimating the contribution of transduction to antimicrobial gene spread. *Applied and Environmental Microbiology*, **2014**, 80, 4350-62	4.8	51
115	Nonlinear mixed model analyses of five production disorders of dairy cattle. *Journal of Dairy Science*, **1993**, 76, 2765-72	4	50
114	Evaluation of farm management practices as risk factors for clinical listeriosis and fecal shedding of Listeria monocytogenes in ruminants. *Journal of the American Veterinary Medical Association*, **2005**, 227, 1808-14	1	49

113	Mathematical model of plasmid-mediated resistance to ceftiofur in commensal enteric Escherichia coli of cattle. *PLoS ONE*, **2012**, 7, e36738	3.7	46
112	Analysis of correlated continuous repeated observations: modelling the effect of ketosis on milk yield in dairy cows. *Preventive Veterinary Medicine*, **1999**, 39, 137-53	3.1	46
111	Pathogenesis, Molecular Genetics, and Genomics of subsp. , the Etiologic Agent of Johne's Disease. *Frontiers in Veterinary Science*, **2017**, 4, 187	3.1	45
110	Quantitative risk assessment of listeriosis due to consumption of raw milk. *Journal of Food Protection*, **2011**, 74, 1268-81	2.5	45
109	Microarray for molecular typing of Salmonella enterica serovars. *Molecular and Cellular Probes*, **2008**, 22, 238-43	3.3	45
108	Stochastic simulations of a multi-group compartmental model for Johne's disease on US dairy herds with test-based culling intervention. *Journal of Theoretical Biology*, **2010**, 264, 1190-201	2.3	40
107	Epidemiology and genetic basis of ketosis in Finnish Ayrshire cattle. *Preventive Veterinary Medicine*, **1984**, 3, 65-77	3.1	40
106	An epidemiological and genetic study on registered diseases in Finnish Ayrshire cattle. IV. Clinical mastitis. *Acta Veterinaria Scandinavica*, **1986**, 27, 223-34	2	40
105	Salmonella enterica serotype Cerro among dairy cattle in New York: an emerging pathogen?. *Foodborne Pathogens and Disease*, **2010**, 7, 659-65	3.8	39
104	The effect of clinical outbreaks of salmonellosis on the prevalence of fecal Salmonella shedding among dairy cattle in New York. *Foodborne Pathogens and Disease*, **2010**, 7, 815-23	3.8	36
103	Evaluation of novel oral vaccine candidates and validation of a caprine model of Johne's disease. *Frontiers in Cellular and Infection Microbiology*, **2014**, 4, 26	5.9	35
102	Development of a multiplex assay for the detection of antibodies to Borrelia burgdorferi in horses and its validation using Bayesian and conventional statistical methods. *Veterinary Immunology and Immunopathology*, **2011**, 144, 374-81	2	33
101	Mathematical modeling of the transmission and control of foodborne pathogens and antimicrobial resistance at preharvest. *Foodborne Pathogens and Disease*, **2011**, 8, 1-10	3.8	32
100	Milk and serum J5-specific antibody responses, milk production change, and clinical effects following intramammary Escherichia coli challenge for J5 vaccinate and control cows. *Vaccine Journal*, **2007**, 14, 693-9		32
99	Longitudinal data collection of Mycobacterium avium subspecies Paratuberculosis infections in dairy herds: the value of precise field data. *Veterinary Research*, **2015**, 46, 65	3.8	31
98	An epidemiological and genetic study on registered diseases in Finnish Ayrshire cattle. III. Metabolic diseases. *Acta Veterinaria Scandinavica*, **1986**, 27, 209-22	2	30
97	Disease management at the wildlife-livestock interface: Using whole-genome sequencing to study the role of elk in Mycobacterium bovis transmission in Michigan, USA. *Molecular Ecology*, **2019**, 28, 2192-2205	5.7	30
96	Multilocus variable-number tandem-repeat method for typing Salmonella enterica serovar Newport. *Journal of Clinical Microbiology*, **2009**, 47, 1934-8	9.7	29

95	Farm animal contact as risk factor for transmission of bovine-associated Salmonella subtypes. *Emerging Infectious Diseases*, **2012**, 18, 1929-36	10.2	28
94	A mathematical model for the transmission of Salmonella Typhimurium within a grower-finisher pig herd in Great Britain. *Journal of Food Protection*, **2004**, 67, 2403-9	2.5	28
93	A rational framework for evaluating the next generation of vaccines against Mycobacterium avium subspecies paratuberculosis. *Frontiers in Cellular and Infection Microbiology*, **2014**, 4, 126	5.9	27
92	Pulsed-field gel electrophoresis diversity of human and bovine clinical Salmonella isolates. *Foodborne Pathogens and Disease*, **2010**, 7, 707-17	3.8	27
91	Comparison of public health impact of Listeria monocytogenes product-to-product and environment-to-product contamination of deli meats at retail. *Journal of Food Protection*, **2011**, 74, 1860-8	2.5	27
90	Daily variability of Listeria contamination patterns in a cold-smoked salmon processing operation. *Journal of Food Protection*, **2006**, 69, 2123-33	2.5	27
89	Evaluation of multiple radiographic predictors of cartilage lesions in the hip joints of eight-month-old dogs. *American Journal of Veterinary Research*, **2003**, 64, 1472-8	1.1	26
88	Mathematical model of Listeria monocytogenes cross-contamination in a fish processing plant. *Journal of Food Protection*, **2004**, 67, 2688-97	2.5	25
87	Agar disk diffusion and automated microbroth dilution produce similar antimicrobial susceptibility testing results for Salmonella serotypes Newport, Typhimurium, and 4,5,12:i-, but differ in economic cost. *Foodborne Pathogens and Disease*, **2011**, 8, 1281-8	3.8	24
86	Implementation of statistical tools to support identification and management of persistent Listeria monocytogenes contamination in smoked fish processing plants. *Journal of Food Protection*, **2013**, 76, 796-811	2.5	23
85	Model or meal? Farm animal populations as models for infectious diseases of humans. *Nature Reviews Microbiology*, **2010**, 8, 139-48	22.2	23
84	Synergistic China-US Ecological Research is Essential for Global Emerging Infectious Disease Preparedness. *EcoHealth*, **2020**, 17, 160-173	3.1	22
83	An epidemiological and genetic study on registered diseases in Finnish Ayrshire cattle. II. Reproductive disorders. *Acta Veterinaria Scandinavica*, **1986**, 27, 196-208	2	22
82	Monitoring Antimicrobial Resistance in the Food Supply Chain and Its Implications for FDA Policy Initiatives. *Antimicrobial Agents and Chemotherapy*, **2016**, 60, 5302-11	5.9	21
81	Using vaccination to prevent the invasion of Mycobacterium avium subsp. paratuberculosis in dairy herds: a stochastic simulation study. *Preventive Veterinary Medicine*, **2013**, 110, 335-45	3.1	21
80	Association of Escherichia coli J5-specific serum antibody responses with clinical mastitis outcome for J5 vaccinate and control dairy cattle. *Vaccine Journal*, **2009**, 16, 209-17		21
79	Cost-Effective Control Strategies for Johne's Disease in Dairy Herds. *Canadian Journal of Agricultural Economics*, **2013**, 61, 583-608	10.8	20
78	Impact of imperfect Mycobacterium avium subsp. paratuberculosis vaccines in dairy herds: a mathematical modeling approach. *Preventive Veterinary Medicine*, **2013**, 108, 148-58	3.1	19

77	Correlated time to event data: Modeling repeated clinical mastitis data from dairy cattle in New York State. *Preventive Veterinary Medicine*, **2010**, 97, 150-6	3.1	19
76	Nonparametric estimation of ROC curves based on Bayesian models when the true disease state is unknown. *Journal of Agricultural, Biological, and Environmental Statistics*, **2007**, 12, 128-146	1.9	19
75	Back to the real world: connecting models with data. *Preventive Veterinary Medicine*, **2015**, 118, 215-25	3.1	18
74	Evaluation of eight live attenuated vaccine candidates for protection against challenge with virulent Mycobacterium avium subspecies paratuberculosis in mice. *Frontiers in Cellular and Infection Microbiology*, **2014**, 4, 88	5.9	18
73	The farm cost of decreasing antimicrobial use in dairy production. *PLoS ONE*, **2018**, 13, e0194832	3.7	17
72	A new compartmental model of Mycobacterium avium subsp. paratuberculosis infection dynamics in cattle. *Preventive Veterinary Medicine*, **2015**, 122, 298-305	3.1	16
71	Use of pharmacokinetic modeling to assess antimicrobial pressure on enteric bacteria of beef cattle fed chlortetracycline for growth promotion, disease control, or treatment. *Foodborne Pathogens and Disease*, **2014**, 11, 403-11	3.8	16
70	Mastitis and the shape of the lactation curve in Norwegian dairy cows. *Journal of Dairy Research*, **2011**, 78, 23-31	1.6	16
69	The effects of health classification and housing and management of feeder pigs on performance and meat inspection findings of all-in-all-out swine-finishing herds. *Preventive Veterinary Medicine*, **2001**, 49, 41-54	3.1	16
68	A diagnostic and prognostic tool for epidemiologic and economic analyses of dairy herd health management. *Journal of Dairy Science*, **1995**, 78, 947-61	4	16
67	Screening of Mycobacterium avium subsp. paratuberculosis mutants for attenuation in a bovine monocyte-derived macrophage model. *Frontiers in Cellular and Infection Microbiology*, **2014**, 4, 87	5.9	15
66	Development of a model to simulate infection dynamics of Mycobacterium bovis in cattle herds in the United States. *Journal of the American Veterinary Medical Association*, **2013**, 243, 411-23	1	15
65	Modelling dynamics of plasmid-gene mediated antimicrobial resistance in enteric bacteria using stochastic differential equations. *Scientific Reports*, **2013**, 3, 2463	4.9	15
64	Transmission dynamics of a multidrug-resistant Salmonella typhimurium outbreak in a dairy farm. *Foodborne Pathogens and Disease*, **2010**, 7, 467-74	3.8	15
63	Markov chain approach to analyze the dynamics of pathogen fecal shedding--example of Listeria monocytogenes shedding in a herd of dairy cattle. *Journal of Theoretical Biology*, **2007**, 245, 44-58	2.3	15
62	Assessing the potential impact of Salmonella vaccines in an endemically infected dairy herd. *Journal of Theoretical Biology*, **2009**, 259, 770-84	2.3	14
61	Modeling of Mycobacterium avium subsp. paratuberculosis dynamics in a dairy herd: An individual based approach. *Journal of Theoretical Biology*, **2016**, 408, 105-117	2.3	13
60	Validation of a Previously Developed Geospatial Model That Predicts the Prevalence of Listeria monocytogenes in New York State Produce Fields. *Applied and Environmental Microbiology*, **2016**, 82, 797-807	4.8	13

59	Minimization of bovine tuberculosis control costs in US dairy herds. *Preventive Veterinary Medicine*, **2013**, 112, 266-75	3.1	13
58	Evidence of no protection for a recurrent case of pathogen specific clinical mastitis from a previous case. *Journal of Dairy Research*, **2016**, 83, 72-80	1.6	12
57	Associations of the first occurrence of pathogen-specific clinical mastitis with milk yield and milk composition in dairy cows. *Journal of Dairy Research*, **2018**, 85, 309-316	1.6	11
56	Identification of sero-reactive antigens for the early diagnosis of Johne's disease in cattle. *PLoS ONE*, **2017**, 12, e0184373	3.7	11
55	Microbial dynamics of indicator microorganisms on fresh tomatoes in the supply chain from Mexico to the USA. *International Journal of Food Microbiology*, **2016**, 238, 202-207	5.8	11
54	Early detection of Mycobacterium avium subsp. paratuberculosis infection in cattle with multiplex-bead based immunoassays. *PLoS ONE*, **2017**, 12, e0189783	3.7	10
53	Sero-prevalence and risk factors associated with African swine fever on pig farms in southwest Nigeria. *BMC Veterinary Research*, **2015**, 11, 133	2.7	9
52	An agent-based model evaluation of economic control strategies for paratuberculosis in a dairy herd. *Journal of Dairy Science*, **2018**, 101, 6443-6454	4	9
51	Minimum cost to control bovine tuberculosis in cow-calf herds. *Preventive Veterinary Medicine*, **2014** , 115, 18-28	3.1	9
50	Clinical features of human salmonellosis caused by bovine-associated subtypes in New York. *Foodborne Pathogens and Disease*, **2012**, 9, 796-802	3.8	9
49	Antimicrobial Policies in United States Beef Production: Choosing the Right Instruments to Reduce Antimicrobial Use and Resistance Under Structural and Market Constraints. *Frontiers in Veterinary Science*, **2019**, 6, 245	3.1	8
48	Effect of preparing and loading multiple insemination guns on conception rate in two large commercial dairy herds. *Theriogenology*, **2002**, 57, 909-21	2.8	8
47	The value of pathogen information in treating clinical mastitis. *Journal of Dairy Research*, **2016**, 83, 456-467	1.6	8
46	An assessment of the economic costs to the U.S. dairy market of antimicrobial use restrictions. *Preventive Veterinary Medicine*, **2018**, 160, 63-67	3.1	8
45	Global resistance to antimicrobials and their sustainable use in agriculture. *Lancet Planetary Health, The*, **2019**, 3, e109-e110	9.8	7
44	The effect of tylosin on antimicrobial resistance in beef cattle enteric bacteria: A systematic review and meta-analysis. *Preventive Veterinary Medicine*, **2020**, 176, 104934	3.1	7
43	Ewe characteristics associated with neonatal loss in Norwegian sheep. *Preventive Veterinary Medicine*, **2014**, 114, 267-75	3.1	7
42	Monte Carlo Simulations Suggest Current Chlortetracycline Drug-Residue Based Withdrawal Periods Would Not Control Antimicrobial Resistance Dissemination from Feedlot to Slaughterhouse. *Frontiers in Microbiology*, **2017**, 8, 1753	5.7	7

41	Economic Analysis of the Cross-Reactivity of Johne's Disease Vaccination with Tuberculosis in Dairy Cattle. *American Journal of Agricultural Economics*, **2010**, 92, 1446-1455	3.1	7
40	Sow removal in commercial herds: Patterns and animal level factors in Finland. *Preventive Veterinary Medicine*, **2018**, 159, 30-39	3.1	7
39	Tradeoffs between resistance to antimicrobials in public health and their use in agriculture: Moving towards sustainability assessment. *Ecological Economics*, **2019**, 166, 106427	5.6	6
38	Responding to bioterror concerns by increasing milk pasteurization temperature would increase estimated annual deaths from listeriosis. *Journal of Food Protection*, **2014**, 77, 696-712	2.5	6
37	Analysis of subsp. mutant libraries reveals loci-dependent transposition biases and strategies for novel mutant discovery. *Microbiology (United Kingdom)*, **2016**, 162, 633-641	2.9	6
36	Assessment of the bovine tuberculosis elimination protocol in the United States. *Journal of Dairy Science*, **2019**, 102, 2384-2400	4	5
35	Inferring the interaction structure of resistance to antimicrobials. *Preventive Veterinary Medicine*, **2018**, 152, 81-88	3.1	5
34	Transmission dynamics of intramammary infections caused by Corynebacterium species. *Journal of Dairy Science*, **2018**, 101, 472-479	4	5
33	Postharvest Supply Chain with Microbial Travelers: a Farm-to-Retail Microbial Simulation and Visualization Framework. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	5
32	Optimally achieving milk bulk tank somatic cell count thresholds. *Journal of Dairy Science*, **2017**, 100, 731-738	4	5
31	Progression to multi-scale models and the application to food system intervention strategies. *Preventive Veterinary Medicine*, **2015**, 118, 238-46	3.1	5
30	Development of a microarray for identification of pathogenic Clostridium spp. *Diagnostic Microbiology and Infectious Disease*, **2010**, 66, 140-7	2.9	5
29	Dairy cow characteristics related to Staphylococcus aureus isolation from quarter samples. *Journal of Dairy Research*, **1995**, 62, 69-81	1.6	5
28	Who infects whom?-Reconstructing infection chains of Mycobacterium avium ssp. paratuberculosis in an endemically infected dairy herd by use of genomic data. *PLoS ONE*, **2021**, 16, e0246983	3.7	5
27	Identification of Sero-Diagnostic Antigens for the Early Diagnosis of Johne's Disease using MAP Protein Microarrays. *Scientific Reports*, **2019**, 9, 17573	4.9	5
26	Stochastic modeling of imperfect Salmonella vaccines in an adult dairy herd. *Bulletin of Mathematical Biology*, **2014**, 76, 541-65	2.1	4
25	Fecal shedding of, antimicrobial resistance in, and serologic response to Salmonella Typhimurium in dairy calves. *Journal of the American Veterinary Medical Association*, **2009**, 235, 739-48	1	4
24	Use of Approximate Bayesian Computation to Assess and Fit Models of Mycobacterium leprae to Predict Outcomes of the Brazilian Control Program. *PLoS ONE*, **2015**, 10, e0129535	3.7	4

23	A data-driven individual-based model of infectious disease in livestock operation: A validation study for paratuberculosis. *PLoS ONE*, **2018**, 13, e0203177	3.7	4
22	A proposed analytic framework for determining the impact of an antimicrobial resistance intervention. *Animal Health Research Reviews*, **2017**, 18, 1-25	2.1	3
21	Mastitis risk effect on the economic consequences of paratuberculosis control in dairy cattle: A stochastic modeling study. *PLoS ONE*, **2019**, 14, e0217888	3.7	3
20	Shared Multidrug Resistance Patterns in Chicken-Associated Identified by Association Rule Mining. *Frontiers in Microbiology*, **2019**, 10, 687	5.7	3
19	Extreme value theory in analysis of differential expression in microarrays where either only up- or down-regulated genes are relevant or expected. *Genetical Research*, **2008**, 90, 347-61	1.1	3
18	Forecasting clinical disease in pigs: comparing a naive and a Bayesian approach. *Preventive Veterinary Medicine*, **2004**, 64, 85-100	3.1	3
17	Economics of reducing antibiotic usage for clinical mastitis and metritis through genomic selection. *Journal of Dairy Science*, **2020**, 103, 473-491	4	3
16	Evolutionary genomic and bacteria GWAS analysis of subsp. and dairy cattle Johne's disease phenotypes. *Applied and Environmental Microbiology*, **2021**,	4.8	3
15	Farrowing unit housing and management factors associated with diseases and disease signs of importance for feeder pig quality. *Acta Agriculturae Scandinavica - Section A: Animal Science*, **1997**, 47, 117-125	0.6	2
14	How university researchers can contribute to farm-to-table risk assessments: Listeria monocytogenes as an example. *Foodborne Pathogens and Disease*, **2007**, 4, 527-37	3.8	2
13	How do veterinarians influence sales of antimicrobials? A spatial-temporal analysis of the French prescribing-delivery complex in cattle. *Zoonoses and Public Health*, **2020**, 67, 231-242	2.9	2
12	Economic effects of policy options restricting antimicrobial use for high risk cattle placed in U.S. feedlots. *PLoS ONE*, **2020**, 15, e0239135	3.7	2
11	Estimation of multidrug resistance variability in the National Antimicrobial Monitoring System. *Preventive Veterinary Medicine*, **2019**, 167, 137-145	3.1	1
10	Optimal levels of inputs to control Listeria monocytogenes contamination at a smoked fish plant. *Agribusiness*, **2007**, 23, 229-244	2.3	1
9	Characterizing infectious disease progression through discrete states using hidden Markov models. *PLoS ONE*, **2020**, 15, e0242683	3.7	1
8	Genetic and seasonal variations of Trypanosoma theileri and the association of Trypanosoma theileri infection with dairy cattle productivity in Northern Japan. *Parasitology International*, **2022**, 86, 102476	2.1	1
7	Comparison of China's and the European Union's Approaches to Antimicrobial Stewardship in the Pork Industry. *Foodborne Pathogens and Disease*, **2021**, 18, 567-573	3.8	1
6	Is Salmonella enterica shared between wildlife and cattle in cattle farming areas? An 11-year retrospective study in Tokachi district, Hokkaido, Japan.. *Veterinary Medicine and Science*, **2021**,	2.1	1

5	Modeling the Effect of Tylosin Phosphate on Macrolide-Resistant Enterococci in Feedlots and Reducing Resistance Transmission. *Foodborne Pathogens and Disease*, **2021**, 18, 85-96	3.8	0
4	Expanding behavior pattern sensitivity analysis with model selection and survival analysis. *BMC Veterinary Research*, **2018**, 14, 355	2.7	0
3	A brief note on a multistrain SIR model with complete cross-protection and nonlinear force of infection. *Communications in Nonlinear Science and Numerical Simulation*, **2021**, 103, 106001	3.7	0
2	System Economic Costs of Antibiotic Use Elimination in the US Beef Supply Chain. *Frontiers in Veterinary Science*, **2021**, 8, 606810	3.1	
1	Fertility risk factors in transferring Japanese Black embryos into dairy heifers: An epidemiological study. *Veterinary and Animal Science*, **2021**, 13, 100193	2.3	