

CAMBRIDGE

JOURNALS



# Journal of Dairy Research

## **Journal of Dairy Research**

is available online at  
[journals.cambridge.org/dar](http://journals.cambridge.org/dar)

## **To subscribe contact Customer Services**

### **in Cambridge:**

Phone +44 (0)1223 326070  
Fax +44 (0)1223 325150  
Email [journals@cambridge.org](mailto:journals@cambridge.org)

### **in New York:**

Phone (845) 353 7500  
Fax (845) 353 4141  
Email  
[subscriptions\\_newyork@cambridge.org](mailto:subscriptions_newyork@cambridge.org)

## **Executive Editors**

D. G. Chamberlain, Hannah Research Park, UK  
E. C. Needs, Hannah Research Park, UK

*Journal of Dairy Research* publishes original scientific research on all aspects of mammary biology and dairy science including: animal husbandry; the physiology and biochemistry of lactation; milk production; biotechnology and food science; relevant studies in bacteriology, enzymology and immunology; and the development of methods relevant to these subjects.

Price information is available at  
[journals.cambridge.org/dar](http://journals.cambridge.org/dar)

## **Free email alerts**

Keep up-to-date with new material –  
sign up at [journals.cambridge.org/register](http://journals.cambridge.org/register)

For a free online sample visit  
[journals.cambridge.org/dar](http://journals.cambridge.org/dar)



**CAMBRIDGE**  
UNIVERSITY PRESS

# First View Articles

The following papers have recently been published online ahead of print in *Epidemiology and Infection*. To read the abstracts, and access the full text of these papers, please visit [journals.cambridge.org/HYGforthcoming](https://journals.cambridge.org/HYGforthcoming)

**Title:** A measles outbreak in the Irish traveller ethnic group after attending a funeral in England, March–June 2007

**Authors:** S. Cohuet, A. Bukasa, R. Heathcock, J. White, K. Brown, M. Ramsay and G. Fraser

**doi:** 10.1017/S0950268809002714

**Title:** Seroepidemiology of *Toxoplasma* infection in a metropolitan region of Brazil

**Authors:** G. C. V. R. Fernandes, R. S. Azevedo, M. Amaku, A. L. F. Yu and E. Massad

**doi:** 10.1017/S0950268809002799

**Title:** Multiple risk factors associated with a large statewide increase in cryptosporidiosis

**Authors:** A. L. Valderrama, M. C. Hlavsa, A. Cronquist, S. Cosgrove, S. P. Johnston, J. M. Roberts, M. L. Stock, L. Xiao, K. Xavier and M. J. Beach

**doi:** 10.1017/S0950268809002842

**Title:** Rates of *Stenotrophomonas maltophilia* colonization and infection in relation to antibiotic cycling protocols

**Authors:** A. L. Pakyz and B. M. Farr

**doi:** 10.1017/S0950268809002830

**Title:** *Enterobius vermicularis* infection in schoolchildren: a large-scale survey 6 years after a population-based control

**Authors:** L.-C. Wang, K.-P. Hwang and E.-R. Chen

**doi:** 10.1017/S0950268809002660

**Title:** Pathogen burden and cortisol profiles over the day

**Authors:** A. Steptoe, Å. Gylfe, A. Shamaei-Tousi, S. Bergstrom and B. Henderson

**doi:** 10.1017/S0950268809002738

**Title:** Data mining of tuberculosis patient data using multiple correspondence analysis

**Authors:** T. W. Rennie and W. Roberts

**doi:** 10.1017/S0950268809002787

**Title:** Cryptosporidiosis from a community swimming pool: outbreak investigation and follow-up study

**Authors:** T. K. Boehmer, N. B. Alden, T. S. Ghosh and R. L. Vogt

**doi:** 10.1017/S0950268809002696

**Title:** Estimation of incidence of tuberculosis infection in health-care workers using repeated interferon- $\gamma$  assays

**Authors:** T. Yoshiyama, N. Harada, K. Higuchi, Y. Nakajima and H. Ogata

**doi:** 10.1017/S0950268809002751

**Title:** Norovirus outbreaks in nursing homes: the evaluation of infection control measures

**Authors:** I. H. M. Friesema, H. Vennema, J. C. M. Heijne, C. M. de Jager, G. Morroy, J. H. T. C. van den Kerkhof, E. J. M. de Coster, B. A. Wolters, H. L. G. ter Waarbeek, E. B. Fanoy, P. F. M. Teunis, R. van der Linde and Y. T. H. P. van Duynhoven

**doi:** 10.1017/S095026880900274X

**Title:** Danish strategies to control *Campylobacter* in broilers and broiler meat: facts and effects

**Authors:** H. Rosenquist, L. Boysen, C. Galliano, S. Nordentoft, S. Ethelberg and B. Borck

**doi:** 10.1017/S0950268809002684

**Title:** Estimation of sample sizes for pooled faecal sampling for detection of *Salmonella* in pigs

**Authors:** M. E. Arnold and A. J. C. Cook

**doi:** 10.1017/S0950268809002702

**Title:** Effectiveness of dog rabies vaccination programmes: comparison of owner-charged and free vaccination campaigns

**Authors:** S. Durr, R. Mindekem, Y. Kanninga, D. Doumagoum Moto, M. I. Meltzer, P. Vounatsou and J. Zinsstag

**doi:** 10.1017/S0950268809002386

**Title:** Morbidity, mortality and spatial distribution of meningococcal disease, 1974–2007

**Authors:** M. Howitz, L. Lambertsen, J. B. Simonsen, J. J. Christensen and K. Mølbak

**doi:** 10.1017/S0950268809002428

**Title:** A simple model for simulating immunity rate dynamics in a tropical free-range poultry population after avian influenza vaccination

**Authors:** M. Lesnoff, M. Peyre, P. C. Duarte, J.-F. Renard and J. C. Mariner

**doi:** 10.1017/S0950268809002453

**Title:** Risk factors for the occurrence of *Escherichia coli* virulence genes *eae*, *stx1* and *stx2* in wild bird populations

**Authors:** L. A. Hughes, M. Bennett, P. Coffey, J. Elliott, T. R. Jones, R. C. Jones, A. Lahuerta-Marin, K. McNiffe, D. Norman, N. J. Williams and J. Chantrey

**doi:** 10.1017/S0950268809002507

**Title:** Seasonal patterns in time series of pertussis

**Authors:** S. C. de Greeff, A. L. M. Dekkers, P. Teunis, J. C. Rahamat-Langendoen, F. R. Mooi and H. E. de Melker

**doi:** 10.1017/S0950268809002489

**Title:** Effect of environmental factors on the spatio-temporal patterns of influenza spread

**Authors:** K. M. L. Charland, D. L. Buckeridge, J. L. Sturtevant, F. Melton, B. Y. Reis, K. D. Mandl and J. S. Brownstein

**doi:** 10.1017/S0950268809002283

**Title:** A prolonged outbreak of *Salmonella* Typhimurium infection related to an uncommon vehicle: hard cheese made from raw milk

**Authors:** Y. T. H. P. van Duynhoven, L. D. Isken, K. Borgen, M. Besselse, K. Soethoudt, O. Haitsma, B. Mulder, D. W. Notermans, R. de Jonge, P. Kock, W. van Pelt, O. Stenvers and J. van Steenbergen

**doi:** 10.1017/S0950268809002337

# EPIDEMIOLOGY & INFECTION

## CONTENTS

### REVIEW ARTICLE

#### Risk of transmitting meningococcal infection by transient contact on aircraft and other transport

T. Rachael, K. Schubert, W. Hellenbrand, G. Krause & J. M. Stuart 1057

### ORIGINAL PAPERS

#### *Influenza pandemics*

#### A comparative study of the 1918–1920 influenza pandemic in Japan, USA and UK: mortality impact and implications for pandemic planning

S. A. Richard, N. Sugaya, L. Simonsen, M. A. Miller & C. Viboud 1062

#### *Farms, animals and man*

#### Association between indicators of livestock farming intensity and hospitalization rate for acute gastroenteritis

Y. Febriani, P. Levallois, G. Lebel & S. Gingras 1073

#### Feasibility of screening broiler chicken flocks for risk markers as an aid for meat inspection

C. Lupo, S. Le Bouquin, L. Balaine, V. Michel, J. Peraste, I. Petetin, P. Colin & C. Chauvin 1086

#### *Campylobacter* in housed broiler chickens: a longitudinal study of risk factors

S. P. Rushton, T. J. Humphrey, M. D. F. Shirley, S. Bull & F. Jørgensen 1099

#### Epidemiological surveillance of *Campylobacter jejuni* in chicken, dairy cattle and diarrhoea patients

J. L. Huang, H. Y. Xu, G. Y. Bao, X. H. Zhou, D. J. Ji, G. Zhang, P. H. Liu, F. Jiang, Z. M. Pan, X. F. Liu & X. A. Jiao 1111

#### Farm-level risk factors for fluoroquinolone resistance in *E. coli* and thermophilic *Campylobacter* spp. on finisher pig farms

N. M. Taylor, F. A. Clifton-Hadley, A. D. Wales, A. Ridley & R. H. Davies 1121

#### Factors related to the carriage of *Verocytotoxigenic E. coli*, *Salmonella*, thermophilic *Campylobacter* and *Yersinia enterocolitica* in cattle, sheep and pigs at slaughter

A. S. Milnes, A. R. Sayers, I. Stewart, F. A. Clifton-Hadley, R. H. Davies, D. G. Newell, A. J. C. Cook, S. J. Evans, R. P. Smith & G. A. Paiba 1135

### *Rabies*

#### Short Report: Quantitative assessment of the risk of rabies entering Japan through the importation of dogs and cats from the USA

H. Kamakawa, M. Koiwai, S. Satomura, M. Eto & K. Sugiura 1149

#### Lagos bat virus virulence in mice inoculated by the peripheral route

W. Markotter, I. V. Kuzmin, C. E. Rupprecht & L. H. Nel 1155

### *Animals*

#### Short Report: The continuous spread of West Nile virus (WNV): seroprevalence in asymptomatic horses

J. Alonso-Padilla, E. Loza-Rubio, E. Escribano-Romero, L. Córdoba, S. Cuevas, F. Mejía, R. Calderón, F. Milián, A. Travassos da Rosa, S. C. Weaver, J. G. Estrada-Franco & J. C. Saiz 1163

#### Walking the dog: exploration of the contact networks between dogs in a community

C. Westgarth, R. M. Gaskell, G. L. Pinchbeck, J. W. S. Bradshaw, S. Dawson & R. M. Christley 1169

### *Insects and man*

#### Assessing the effects of temperature on dengue transmission

H. M. Yang, M. L. G. Macoris, K. C. Galvani, M. T. M. Andrighetti & D. M. V. Wanderley 1179

#### Assessing the effects of temperature on the population of *Aedes aegypti*, the vector of dengue

H. M. Yang, M. L. G. Macoris, K. C. Galvani, M. T. M. Andrighetti & D. M. V. Wanderley 1188

#### Impact of insecticide interventions on the abundance and resistance profile of *Aedes aegypti*

P. M. Luz, C. T. Codeço, J. Medlock, C. J. Struchiner, D. Valle & A. P. Galvani 1203