

CAMBRIDGE

JOURNALS



# Parasitology

## Editor

R. S. Phillips, University of Glasgow, UK  
Robin B. Gasser, University of Melbourne, Australia  
L. H. Chappell, University of Aberdeen, UK

## Parasitology

is available online at  
<http://journals.cambridge.org/par>

## 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 +1 (845) 353 7500  
Fax +1 (845) 353 4141  
Email  
[subscriptions\\_newyork@cambridge.org](mailto:subscriptions_newyork@cambridge.org)

*Parasitology* publishes original papers on all aspects of parasitology and host-parasite relationships, ranging from the latest discoveries in biochemical and molecular biology to ecology and epidemiology in the context of the medical, veterinary and biological sciences.

Two specially commissioned issues with important topics in parasitology, including the proceedings of the symposia of the British Society for Parasitology, are included in the annual subscription.

Price information is available at  
<http://journals.cambridge.org/par>

## Free email alerts

Keep up-to-date with new material – sign up at  
<http://journals.cambridge.org/alerts>

For free online content visit  
<http://journals.cambridge.org/par>



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](http://journals.cambridge.org/HYGforthcoming)

**Title:** High prevalence of HBV genotype D in Syria and the clinical characteristics of hepatitis B e antigen-negative chronic hepatitis B

**Authors:** N. Antaki, S. Haffar, S. Ali Deeb, F. Assaad, R. Abou Harb, N. Zeibane, M. Nassereldine, N. Ibrahim, N. Alhaj, E. Jabbour, R. Aaraj, F. Antaki and K. Kebbewar  
**doi:** 10.1017/S0950268809990288

**Title:** Assessing the risk from emerging infections

**Authors:** D. Morgan, H. Kirkbride, K. Hewitt, B. Said and A. L. Walsh  
**doi:** 10.1017/S0950268809990227

**Title:** Serotype and antibiotic resistance of isolates from patients with invasive pneumococcal disease in Japan

**Authors:** N. Chiba, M. Morozumi, K. Sunaoshi, S. Takahashi, M. Takano, T. Komori, K. Sunakawa and K. Ubukata  
**doi:** 10.1017/S0950268809990239

**Title:** Episodic outbreaks bias estimates of age-specific force of infection: a corrected method using measles as an example

**Authors:** M. J. Ferrari, A. Djibo, R. F. Grais, B. T. Grenfell and O. N. Bjørnstad  
**doi:** 10.1017/S0950268809990173

**Title:** Relationship of cholera incidence to El Niño and solar activity elucidated by time-series analysis

**Authors:** K. Ohtomo, N. Kobayashi, A. Sumi and N. Ohtomo  
**doi:** 10.1017/S0950268809990203

**Title:** Prevalence of *Burkholderia pseudomallei* in Guangxi, China

**Authors:** G. Ma, D. Zheng, Q. Cai and Z. Yuan  
**doi:** 10.1017/S0950268809990264

**Title:** Massive outbreak of viral gastroenteritis associated with consumption of municipal drinking water in a European capital city

**Authors:** D. Werber, D. Laušević, B. Mugoša, Z. Vratnica, L. Ivanović-Nikolić, L. Žižić, A. Alexandre-Bird, L. Fiore, F. M. Ruggeri, I. Di Bartolo, A. Battistone, B. Gassilloud, S. Perelle, D. Nitzan Kaluski, M. Kivi, R. Andraghetti and K. G. J. Pollock  
**doi:** 10.1017/S095026880999015X

**Title:** Experience with an external quality assurance scheme for antimicrobial susceptibility testing of *Neisseria gonorrhoeae* in India, 2001–2007

**Authors:** M. Bala, J. W. Tapsall, A. Linnios, S. Sood and K. Ray  
**doi:** 10.1017/S0950268809990148

**Title:** Meta-analysis of a polymorphic surface glycoprotein of the parasitic protozoa *Cryptosporidium parvum* and *Cryptosporidium hominis*

**Author:** G. Widmer  
**doi:** 10.1017/S0950268809990215

**Title:** Geographical variation of sporadic Legionnaires' disease analysed in a grid model

**Authors:** M. Rudbeck, M. R. Jepsen, I. B. Sonne, S. A. Uldum, S. Viskum and K. Mølbak  
**doi:** 10.1017/S0950268809990185

**Title:** A modified case-control study of cryptosporidiosis (using non-*Cryptosporidium*-infected enteric cases as controls) in a community setting

**Authors:** K. D. M. Pintar, F. Pollari, D. Waltner-Toews, D. F. Charron, S. A. McEwen, A. Fazil and A. Nesbitt  
**doi:** 10.1017/S0950268809990197

**Title:** Epidemic and population patterns in the Chinese Empire (243 b.c.e. to 1911 c.e.): quantitative analysis of a unique but neglected epidemic catalogue

**Author:** A. Morabia  
**doi:** 10.1017/S0950268809990136

**Title:** Surveillance for antimicrobial resistant organisms: potential sources and magnitude of bias

**Authors:** O. R. Rempel and K. B. Laupland  
**doi:** 10.1017/S0950268809990100

**Title:** Higher rate of culture-confirmed *Campylobacter* infections in Australia than in the USA: is this due to differences in healthcare-seeking behaviour or stool culture frequency?

**Authors:** H. Vally, G. Hall, E. Scallan, M. D. Kirk and F. J. Angulo  
**doi:** 10.1017/S0950268809990161

**Title:** Can we know the immunization status of healthcare workers? Results of a feasibility study in hospital trusts, England, 2008

**Authors:** L. Pezzoli, K. Noakes, P. Gates, F. Begum and R. G. Pebody  
**doi:** 10.1017/S0950268809002866

**Title:** Respiratory symptoms and the case definition of gastroenteritis: an international analysis of the potential impact on burden estimates

**Authors:** G. Hall, L. McDonald, S. E. Majowicz, E. Scallan, M. Kirk, P. Sockett and F. J. Angulo  
**doi:** 10.1017/S0950268809990112

**Title:** Household clustering of gastroenteritis

**Authors:** K. Leder, M. Sinclair, A. Forbes and D. Wain  
**doi:** 10.1017/S0950268809990124

**Title:** *Streptococcus pyogenes* emm and T types within a decade, 1996–2005: implications for epidemiology and future vaccines

**Authors:** R. Nir-Paz, Z. Korenman, M. Ron, A. Michael-Gayego, R. Cohen-Poradosu, L. Valinsky, B. Beall and A. E. Moses  
**doi:** 10.1017/S0950268809002805

**Title:** Characterization and epidemiological relationships of Spanish *Brachyspira hyodysenteriae* field isolates

**Authors:** Á. Hidalgo, A. Carvajal, M. Pringle, P. Rubio and C. Fellström  
**doi:** 10.1017/S0950268809002817

# EPIDEMIOLOGY & INFECTION

## CONTENTS

### REVIEW ARTICLE

**Comparison of the prevalence of bacterial enteropathogens, potentially zoonotic bacteria and bacterial resistance to antimicrobials in organic and conventional poultry, swine and beef production: a systematic review and meta-analysis**

I. Young, A. Rajić, B. J. Wilhelm, L. Waddell, S. Parker & S. A. McEwen 1217

### ORIGINAL PAPERS

#### MRSA

**Short Report: Carriage of methicillin-resistant *Staphylococcus aureus* in veterinary personnel**

H. Žemličková, M. Fridrichová, K. Týlová, V. Jakubů & I. Machová 1233

**Short Report: Prevalence of community-associated methicillin-resistant *Staphylococcus aureus* colonization outside the healthcare environment**

S. Malik, P. Vranken, M. Sillio, R. Ratard & R. van Dyke 1237

**Report of a hospital neonatal unit outbreak of community-associated methicillin-resistant *Staphylococcus aureus***

I. M. Gould, E. K. Girvan, R. A. Browning, F. M. Mackenzie & G. F. S. Edwards 1242

#### Hepatitis C

**Estimating hepatitis C infection acquired in England, 1986–2000**

M. A. Balogun, A. J. Vyse, L. M. Hesketh, G. Kafatos, J. V. Parry & M. E. Ramsay 1249

**Incidence of hepatitis C in drug injectors: the role of homelessness, opiate substitution treatment, equipment sharing, and community size**

N. Craine, M. Hickman, J. V. Parry, J. Smith, A. M. Walker, D. Russell, B. Nix, M. May, T. McDonald & M. Lyons 1255

#### HIV

**The impact in the UK of the Central and Eastern European HIV epidemics**

V. C. Delpech, Z. Yin, J. Abernethy, C. Hill, L. Logan, T. R. Chadborn & B. D. Rice 1266

**Markov modelling of HIV infection evolution in the HAART era**

C. Binquet, G. Le Teuff, M. Abrahamovicz, A. Mahboubi, Y. Yazdanpanah, D. Rey, C. Rabaud, C. Chirouze, J. L. Berger, J. P. Faller, P. Chavanet, C. Quantin & L. Piroth, for the Groupe InterCOrevih du Nord-Est (ICONE) 1272

#### Human and animal viruses/Q fever

**Investigation of a Q fever outbreak in a rural area of The Netherlands**

I. Karagiannis, B. Schimmer, A. van Lier, A. Timen, P. Schneeberger, B. van Rotterdam, A. de Bruin, C. Wijkmans, A. Rietveld & Y. van Duynhoven 1283

**Host condition and individual risk of cowpox virus infection in natural animal populations: cause or effect?**

P. M. Beldomenico, S. Telfer, L. Lukomski, S. Gebert, M. Bennett & M. Begon 1295

**Genetic relationship in southern African Crimean-Congo haemorrhagic fever virus isolates: evidence for occurrence of reassortment**

F. J. Burt, J. T. Paweska, B. Ashkettle & R. Swanepoel 1302

**An alphavirus replicon-derived candidate vaccine against Rift Valley fever virus**

M. T. Heise, A. Whitmore, J. Thompson, M. Parsons, A. A. Grobbelaar, A. Kemp, J. T. Paweska, K. Madric, L. J. White, R. Swanepoel & F. J. Burt 1309

#### Rubella

**Short Report: Feasibility of a rubella screening and vaccination programme for unvaccinated young women**

W. L. M. Ruijs, M. E. J. L. Hulscher, S. J. M. Hahné, R. S. van Binnendijk & J. van der Velden 1319

#### Bacteria

**Assessing cost effectiveness of empirical and prophylactic therapy for managing leptospirosis outbreaks**

R. L. Galloway, P. N. Levett, J. W. Tumeh & C. R. Flowers 1323

**The epidemiology of, and risk factors for, mortality from severe sepsis and septic shock in a tertiary-care university hospital setting**

B. Khwannimit & R. Bhurayanontachai 1333

**Prospective evaluation of latent tuberculosis with interferon- $\gamma$  release assays in drug and alcohol abusers**

I. Rivas, I. Latorre, A. Sanvisens, J. Dominguez, J. Tor, C. Prat, C. Rey-Joly & R. Muga 1342

**Informing surveillance programmes by investigating spatial dependency of subclinical *Salmonella* infection**

J. Benschop, M. A. Stevenson, J. Dahl, R. S. Morris & N. P. French 1348