

CAMBRIDGE

JOURNALS

# Animal Health Research Reviews

Published in collaboration with the Conference of Research  
Workers in Animal Diseases

**Editor-in-Chief**

C. Gyles, *University of Guelph, Canada*

*Animal Health Research Reviews* provides an international forum for the publication of reviews and commentaries on all aspects of animal health. Papers include in-depth analyses and broader overviews of all facets of health and science in both domestic and wild animals. Major subject areas include physiology and pharmacology, parasitology, bacteriology, food and environmental safety, epidemiology and virology. The journal will be of interest to researchers involved in animal health, parasitologists, food safety experts and academics interested in all aspects of animal production and welfare.

**For free online content visit:**

<http://journals.cambridge.org/ahrsample>

**Free email alerts**

Keep up-to-date with new content

<http://journals.cambridge.org/ahr-alerts>

**Animal Health Research Reviews**

is available online at:

<http://journals.cambridge.org/ahr>

**To subscribe contact  
Customer Services****Americas:**

Phone +1 (845) 353 7500

Fax +1 (845) 353 4141

Email

[subscriptions\\_newyork@cambridge.org](mailto:subscriptions_newyork@cambridge.org)

**Rest of world:**

Phone +44 (0)1223 326070

Fax +44 (0)1223 325150

Email [journals@cambridge.org](mailto:journals@cambridge.org)

**Price Information**

is available at:

<http://journals.cambridge.org/ahr>



CAMBRIDGE  
UNIVERSITY PRESS

# Go Mobile

CJO Mobile (CJOm) is a streamlined  
Cambridge Journals Online (CJO)  
for smartphones and other  
small mobile devices



- Use CJOm to access all journal content including *FirstView* articles which are published online ahead of print
- Access quickly and easily thanks to simplified design and low resolution images
- Register for content alerts or save searches and articles – they will be available on both CJO and CJOm
- Your device will be detected and automatically directed to CJOm via: [journals.cambridge.org](http://journals.cambridge.org)



**CAMBRIDGE**  
UNIVERSITY PRESS

# THE JOURNAL OF AGRICULTURAL SCIENCE

## CLIMATE CHANGE AND AGRICULTURE RESEARCH PAPERS

- Emissions of nitrous oxide and ammonia from a sandy soil following surface application and incorporation of cauliflower leaf residues  
L. NETT, R. FUß, H. FLESSA AND M. FINK 1341
- Differences in warming impacts on wheat productivity among varieties released in different eras in North China  
C.Y. ZHENG, J. CHEN, Z.W. SONG, A.X. DENG, L.N. JIANG, B.M. ZHANG AND W.J. ZHANG 1353
- Impact of climate change and carbon dioxide fertilization effect on irrigation water demand and yield of soybean in Serbia  
M. JANCIC, B. LALIC, D.T. MIHAILOVIC AND G. JACIMOVIC 1365
- Assessing climate risks in rainfed farming using farmer experience, crop calendars and climate analysis  
U.B. NIDUMOLU, P.T. HAYMAN, Z. HOCHMAN, H. HORAN, D.R. REDDY, G. SREENIVAS AND D.M. KADIYALA 1380
- The soybean yield gap in Brazil – magnitude, causes and possible solutions for sustainable production  
P.C. SENTELHAS, R. BATTISTI, G.M.S. CÂMARA, J.R.B. FARIAS, A.C. HAMPF AND C. NENDEL 1394

## CROPS AND SOILS RESEARCH PAPERS

- Impact of depth of placement of mineral fertilizer micro-dosing on growth, yield and partial nutrient balance in pearl millet cropping system in the Sahel  
A. IBRAHIM, D. PASTERNAK AND D. FATONDI 1412

## ERRATUM

- Impact of depth of placement of mineral fertilizer micro-dosing on growth, yield and partial nutrient balance in pearl millet cropping system in the Sahel – ERRATUM  
A. IBRAHIM, D. PASTERNAK AND D. FATONDI 1422

## CROPS AND SOILS RESEARCH PAPERS

- The effects of treading by two breeds of dairy cow with different live weights on soil physical properties, poaching damage and herbage production on a poorly drained clay-loam soil  
P. TUOHY, O. FENTON, N.M. HOLDEN AND J. HUMPHREYS 1424
- Characterization of culm morphology, anatomy and chemical composition of foxtail millet cultivars differing in lodging resistance  
B.H. TIAN, L.Y. LIU, L.X. ZHANG, S.X. SONG, J.G. WANG, L.F. WU AND H.J. LI 1437
- Carbon and nitrogen reserves in marandu palisade grass subjected to intensities of continuous stocking management  
S.C. DA SILVA, L.E.T. PEREIRA, A.F. SBRISSIA AND A. HERNANDEZ-GARAY 1449
- Maize yield response to a phosphorus-solubilizing microbial inoculant in field trials  
M. LEGGETT, N.K. NEWLANDS, D. GREENSHIELDS, L. WEST, S. INMAN AND M.E. KOIVUNEN 1464
- Population dynamics of Western corn rootworm beetles on different varieties of maize identified using pheromone and floral baited traps  
P.K. BERES, S. DRZEWIECKI, M. NAKONIECZNY, M. TARNAWSKA, J. GUZIK AND P. MIGULA 1479

## ANIMAL RESEARCH PAPERS

- The use of multiple restriction enzymes in terminal restriction fragment length polymorphism analysis and identification of performance-related caecal bacterial groups in growing broiler chickens  
R. RUIZ, A. BARROSO-DELJESÚS, L. LARA AND L.A. RUBIO 1491
- Effect of Ca-butyrate and Oleobiotec (a flavouring agent) supplemented starter on the performance of Holstein dairy calves  
A.R. DAVARIMANESH, M.H. FATHI NASRI, A.R. KALANTARI FIROUZABAD AND M.B. MONTAZER-TORBATI 1506
- Influence of cellulase addition to dairy goat diets on digestion and fermentation, milk production and fatty acid content  
R. ROJO, A.E. KHOLIF, A.Z.M. SALEM, M.M.Y. ELGHANDOUR, N.E. ODONGO, R. MONTES DE OCA, N. RIVERO AND M.U. ALONSO 1514

Submit your paper online

<http://mc.manuscriptcentral.com/jagricsci>

Register to receive the latest news and content from the journal

<http://journals.cambridge.org/ags-alerts>

Cambridge Journals Online

For further information about this journal

please go to the journal web site at:

[journals.cambridge.org/ags](http://journals.cambridge.org/ags)

<https://doi.org/10.1017/S0021859615000891> Published online by Cambridge University Press



MIX  
Paper from  
responsible sources  
FSC® C007785

CAMBRIDGE  
UNIVERSITY PRESS