

CAMBRIDGE

JOURNALS

ONLINE JOURNALS

- ▶ Over 340 titles across 48 disciplines
- ▶ Millions of linked references
- ▶ 17 journals ranked in top 5 of their respective subject categories according to 2014 Thomson Reuters™ JCR®

Explore Cambridge Journals today at journals.cambridge.org



CAMBRIDGE
UNIVERSITY PRESS

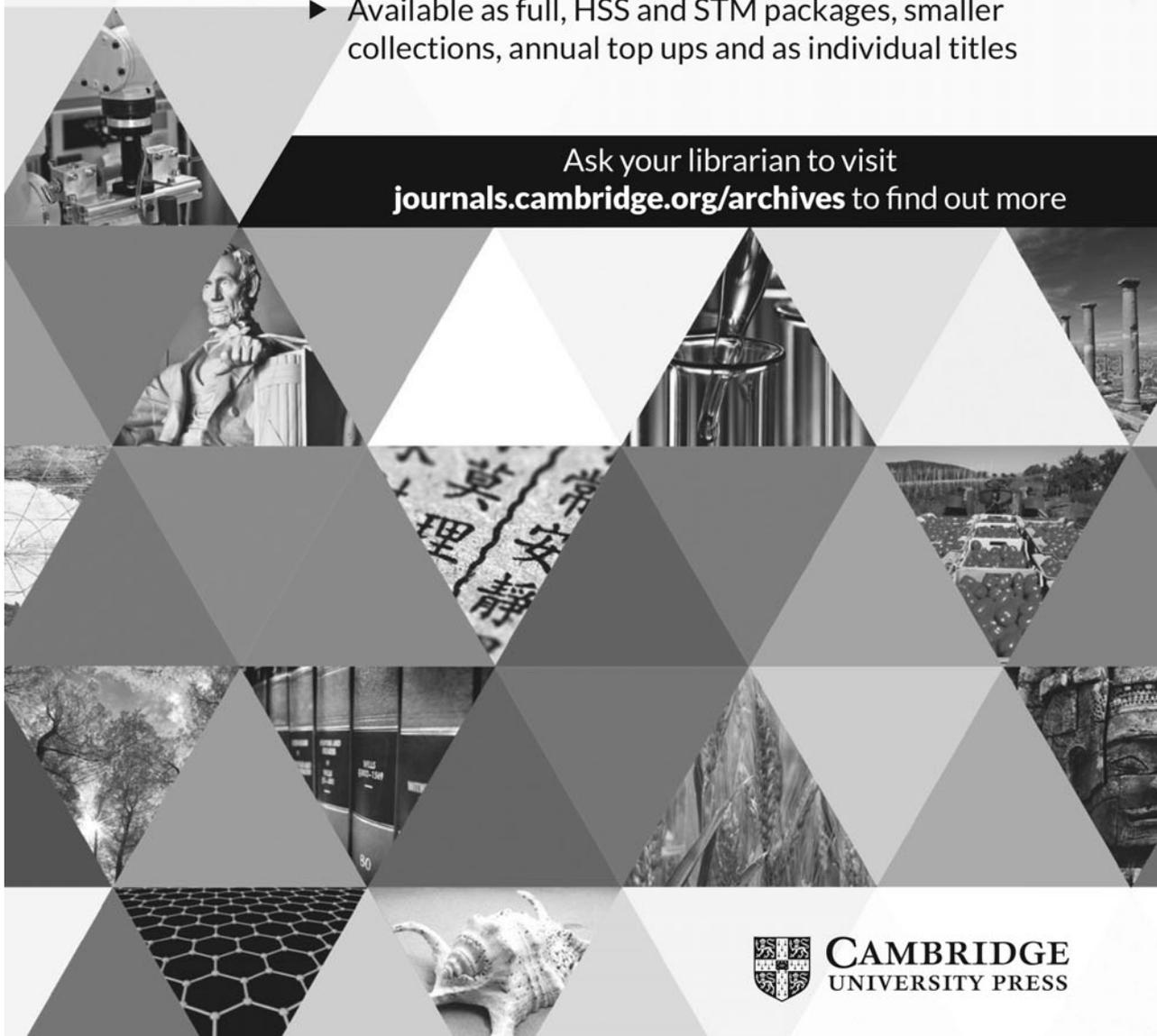
CAMBRIDGE

JOURNALS

CAMBRIDGE JOURNALS DIGITAL ARCHIVE

- ▶ Archives are available for over 250 of our journals
- ▶ Featuring content published from 1770 to 2011
- ▶ Available as full, HSS and STM packages, smaller collections, annual top ups and as individual titles

Ask your librarian to visit
journals.cambridge.org/archives to find out more



CAMBRIDGE
UNIVERSITY PRESS

CAMBRIDGE

JOURNALS

animal

Published for The Animal Consortium
www.animal-journal.eu

Editor-in-Chief

Isabelle Ortigues-Marty, *INRA, Clermont-Theix, France*

animal publishes original cutting-edge research, 'hot' topics and horizon-scanning reviews on animal-related aspects of the life sciences at the molecular, cellular, organ, whole animal and production system levels.

The main subject areas include: breeding and genetics; nutrition; physiology and functional biology of systems; behaviour, health and welfare; farming systems, environmental impact and climate change; product quality, human health and well-being.

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

Free email alerts

Keep up-to-date with new content
<http://journals.cambridge.org/anm-alerts>



animal

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

To subscribe contact Customer Services

Americas:

Phone +1 (845) 353 7500
Fax +1 (845) 353 4141
Email
subscriptions_newyork@cambridge.org

Rest of world:

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

Price Information

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



CAMBRIDGE
UNIVERSITY PRESS

CAMBRIDGE

JOURNALS

NRR

NUTRITION RESEARCH REVIEWS

Editor-in-Chief

Jayne V. Woodside, *Queen's University, Belfast, UK*

Nutrition Research Reviews offers a comprehensive overview of nutritional science today. By distilling the latest research and linking it to established practice, the journal consistently delivers the widest range of in-depth articles in the field of nutritional science and has done so for the past twenty-one years. It presents up-to-date, concise and critical reviews of key topics in nutrition science, advancing new concepts and hypotheses that encourage the exchange of fundamental ideas on nutritional well-being in both humans and animals.

Submit your article online
nrr.msubmit.net

Register for free content alerts
journals.cambridge.org/nrr-alerts



**Impact Factor
5.5**

Ranked **4/76**
Nutrition and Dietics

2012 Journal Citation Reports®
Thomson Reuters

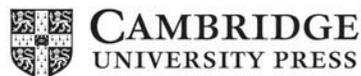
To subscribe contact
Customer Services

Cambridge:

Phone +44 (0)1223 326070
Fax +44 (0)1223 325150
journals@cambridge.org

New York:

Phone +1 (845) 353 7500
Fax +1 (845) 353 4141
subscriptions_newyork@cambridge.org



CAMBRIDGE

JOURNALS

PNS

PROCEEDINGS OF THE NUTRITION SOCIETY

Editor-in-Chief

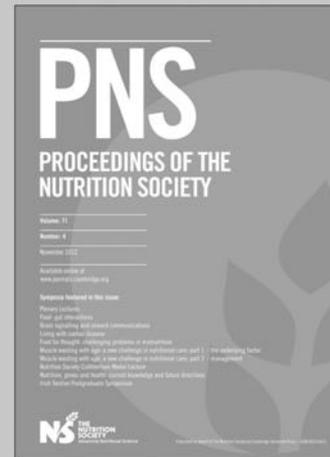
Maria O'Sullivan

Trinity College Medical Centre, Republic of Ireland

Proceedings of the Nutrition Society publishes papers and abstracts presented by members and invited speakers at the scientific meetings of The Nutrition Society. The journal provides an invaluable record of the scientific research currently being undertaken, contributing to 'the scientific study of nutrition and its application to the maintenance of human and animal health.'

journals.cambridge.org/pns

Register for free content alerts
journals.cambridge.org/pns-alerts



Impact Factor
3.674

Ranked **14/76**
Nutrition and Dietics

2012 Journal Citation Reports®
Thomson Reuters

To subscribe contact
Customer Services

Cambridge:

Phone +44 (0)1223 326070

Fax +44 (0)1223 325150

journals@cambridge.org

New York:

Phone +1 (845) 353 7500

Fax +1 (845) 353 4141

subscriptions_newyork@cambridge.org



CAMBRIDGE
UNIVERSITY PRESS

CAMBRIDGE

JOURNALS

BJN

BRITISH JOURNAL OF NUTRITION

Editor-in-Chief

G C Burdge, *University of Southampton, UK*

British Journal of Nutrition is a leading international peer-reviewed journal covering research on human and clinical nutrition, animal nutrition and basic science as applied to nutrition. The journal recognises the multi-disciplinary nature of nutritional science and includes material from all of the specialities involved in nutrition research, including molecular and cell biology, and the emerging area of nutritional genomics.

journals.cambridge.org/bjn

Submit your article online
bjn.msubmit.net

Register for free content alerts
journals.cambridge.org/bjn-alerts



Impact Factor
3.302

Ranked **18/76**
Nutrition and Dietics

2012 Journal Citation Reports®
Thomson Reuters

To subscribe contact
Customer Services

Cambridge:
Phone +44 (0)1223 326070
Fax +44 (0)1223 325150
journals@cambridge.org

New York:
Phone +1 (845) 353 7500
Fax +1 (845) 353 4141
subscriptions_newyork@cambridge.org



CAMBRIDGE

JOURNALS

The Journal of Agricultural Science

Senior Editor (Animal papers)

Julian Wiseman, *University of Nottingham, UK*

Senior Editor (Crops & Soils papers)

Paul Bilsborrow, *Newcastle University, UK*

The Journal of Agricultural Science publishes papers concerned with the advance of agriculture and the use of land resources throughout the world. It publishes original scientific work related to strategic and applied studies in all aspects of agricultural science, including: crop and animal physiology, modelling of crop and animal systems, the scientific underpinning of agronomy and husbandry, engineering solutions, decision support systems, land use, environmental impacts of agriculture and forestry, impacts of climate change, rural biodiversity, experimental design and statistical analysis, the application of new analytical and study methods (including molecular studies). The journal also publishes book reviews and letters.

Submit your research online

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

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



The Journal of Agricultural Science is available online at:
<http://journals.cambridge.org/ags>

**To subscribe contact
Customer Services**

Americas:

Phone +1 (845) 353 7500

Fax +1 (845) 353 4141

Email

subscriptions_newyork@cambridge.org

Rest of world:

Phone +44 (0)1223 326070

Fax +44 (0)1223 325150

Email journals@cambridge.org

Free email alerts

Keep up-to-date with new material – sign up at

journals.cambridge.org/ags-alerts



CAMBRIDGE
UNIVERSITY PRESS

Instructions to Contributors

Full Directions to Contributors, of which this is a summary, can be found at the following web site
http://titles.cambridge.org/journals/journal_catalogue.asp?mnemonic=dar

General

The *Journal of Dairy Research* publishes original scientific research on all aspects of the biology and technology of lactating animals and the foods they produce. Research Papers report innovative, hypothesis-driven research that is likely to have international impact. Research Communications are shorter and intended primarily for research of regional or technical impact. Reviews and Editorials are published by invitation. Material for publication should be submitted using the online submission system at www.journalofdairyresearch.org where you will also find further details of the *Journal's* scope, advice on preparing your manuscript and access to track your manuscript through Peer Review. Submission of a manuscript will be taken to imply that it reports original unpublished work, that it is not under consideration elsewhere, and that if accepted by the *Journal* it will not be published elsewhere in any language without the consent of the Editors. You will be asked to confirm that you accept these conditions. Your manuscript will be peer reviewed. If it is accepted for publication you will be asked to assign the copyright, under certain conditions, to the *Journal* to help protect your material.

Submission of manuscripts

Submission is online via www.journalofdairyresearch.org. The Editors no longer accept emailed submissions. You should first consult the online guidance and these Instructions to Contributors to ensure that your manuscript is prepared in accordance with the *Journal's* requirements. You must submit the manuscript as a single Word document that incorporates all tables and figures. If we subsequently require higher quality original files of figures or images we will ask you for them. You will also have the option to submit supplementary files.

Journal Scope

The *Journal's* ability to cover the entire dairy foods chain is a major strength. The remit spans from animal nutritional aspects of feed input through the biology of lactating animals and the mammary gland to milk quality, technological aspects of processed dairy products and healthy nutrition for the consumer. The focus is on dairy species, but we also welcome comparative research related to human lactation and lactation in non-dairy animal species. The *Journal* does not categorize published articles. Each issue will follow the dairy foods chain, starting with feeding-related research and ending with consumer-related.

Types of manuscript and general considerations

The *Journal* publishes submitted Research Papers and Research Communications. In addition, Research Reviews and Editorials are published by invitation. Research Papers report innovative hypothesis-driven research of international impact and will not normally be appropriate for research that is purely descriptive. Research Communications are shorter. In addition to international impact research, Research Communications can also report descriptive studies of Regional Interest or Technical Interest. Within the *Journal* there is no categorisation by article type, which must be briefly stated in the first line of the summary. Page limits apply to all types of manuscript. These are reported as Text Equivalents (TEQ) where one word is one TEQ and each figure or table is 250 TEQ. Research Papers should be around 6000 TEQ and should include only figures, tables and reference citations that are essential to the understanding of the research objectives. Research Communications should be around 2500 TEQ and should include only one or two tables or figures and a maximum of around 10 citations. Manuscripts that exceed these recommendations will be returned for revision.

Reviews and Editorials

These are invited, and separate guidance will be provided with the invitation. The Editors are always interested to receive suggestions for topics, with or without possible authors.

General style of all manuscripts

Please consult the online guidance and refer to a recent issue to familiarize yourself with *Journal* conventions and layout. Attention to these and other details will speed publication. Manuscripts should be written in UK English using the spelling of the Concise Oxford Dictionary and should as far as possible be comprehensible to the non-specialist reader. They should be concise and focused on the scientific objectives. Research Papers and Research Communications must contain sufficient detail or appropriate cited methodologies to allow repetition of the work. Formatting should include double spaced and consecutively numbered lines, standard margins and an appropriate font of appropriate size. Do not hyphenate words at the end of a line unless a hyphen is to appear in the printed text.

Layout of Research Paper manuscripts

The manuscript should generally be divided as follows:

- **Cover sheet** should give the title of the article, names of the authors each with one forename, together with their affiliations, a shortened version of the title suitable as a heading, and the name, address and email of the author to whom correspondence and proofs should be sent.
- **Summary**, preferably not more than 300 words, should encapsulate the whole paper, showing clearly the new knowledge acquired. Individual results should not be given. The first line of the summary should identify the article as a Research Paper and present the objectives, preferably in the form of a hypothesis (eg *This Research Paper addresses the hypothesis that...*)
- **Keywords**: up to 5 keywords may be supplied
- **Introduction** should not have a heading. It should not contain a full review of the literature, but should help the non-specialist to understand why the subject of enquiry is interesting or important, why the authors have chosen the approach described and what the likely impact of the research will be. The objectives must be clearly stated, preferably in the form of a hypothesis.
- **Materials and Methods** section should contain adequate descriptions of procedures or appropriate references; sources of all materials (including address, with postal code) and sources or strains of animals and microorganisms should be indicated. Do not give detailed descriptions of published methods; refer to the original publication.
- **Results** should be as concise as possible, without repetition or inclusion of irrelevant material. Tables and illustrations should be used efficiently. All data reported must directly relate to the understanding of the research objectives. Supporting or confirmatory data should be presented separately as Supplementary Files.
- **Discussion** should not repeat the results but discuss their significance. Refer to existing or accepted knowledge in the present tense and the authors' work in the past tense; the difference in tense should clearly show the authors' contribution. A separate conclusion is not necessary but authors should summarize their main conclusions briefly at the end of the Discussion. A combined Results and Discussion is acceptable but not preferred.
- **Acknowledgements** of financial support, technical assistance and so on are given in a separate paragraph without heading. It is the responsibility of the authors to ensure that individuals or organizations acknowledged as providing materials or otherwise are willing to be identified.
- **References** must be consistent and must use the style described below.
- **Tables** and table legends, following the style described below.
- **Figure legends** sufficient to allow the figure to be understood without reference to the text
- **Figures** should be produced using an editable software and copied into the Word document.

Please remember that the complete manuscript should be submitted as a single document.

Layout of submitted Research Communication manuscripts

In general, follow the same format and layout as for a Research Paper. The introduction will typically be shorter and the results and discussion are more likely to be combined into one section. The number of citations will be less, and presentation of data should be restricted to one or two figures and tables. Supplementary Files should be used for additional data. Published online by Cambridge University Press

The Summary should start with a sentence clearly identifying the article type and presenting the objectives (eg *This Technical Research Communication describes...*)

References

Refer to a recent issue and ensure that your reference citations comply with *Journal* style. References should be given in the text as Brown & Jones (1987) or (Schmidt, 1985; Nakamura et al. 1989); the first author with et al. is used for papers with three or more authors. Where necessary, papers are distinguished as Lenoir (1988a), (Litov et al. 1990a, b). When several references appear together in the text, cite them in chronological order, and alphabetically within years. The Reference list at the end of the paper, which should begin on a fresh page, is given in strict alphabetical order and uses the minimum of punctuation. Each reference should contain authors' names, with initials (in capitals), the year, the title of the paper, the name of the journal in full, the volume and the page range. Titles of articles originally published in another language should be given in English translation, and this indicated by the use of square brackets. References to books should include the town of publication and the publisher, with editor(s) and volume and edition number where appropriate. Unpublished work should be given in the text (use authors' initials and surname) and not in the Reference list. You are reminded that it is your responsibility to check all references.

Data presentation

Choose the most economical form of data presentation, remembering that this could include data presented briefly in the text. For investigative research, avoid large tables and figures that are comprised mainly of data that do not differ significantly between treatments. For descriptive research, consider the use of Supplementary Files for all apart from the most important observations.

Tables

Tables should be numbered and carry headings enabling them to be understood without reference to the main text. Any abbreviations should be defined. Each Table should be typed separately at the end of the main text, but their approximate position should be indicated by a marginal mark (eg *Table 1 near here*). Symbols for footnotes should avoid use of *, **, etc, which should be used to indicate levels of significance.

Figures and Illustrations

Figures should be numbered and the combination of figure and legend should be comprehensible without reference to the main text. Figures must be prepared using an editable file format and then copied into the Word document. Data points should be indicated by clearly distinguishable symbols. Illustrations such as photographic images should be accompanied by a legend as above, with scale bars if appropriate. Colour figures and artwork submitted to the *Journal* will be published online free of charge. If you request colour figures in the printed version, you will be contacted by CCC-Rightslink who are acting on our behalf to collect Author Charges. Please follow their instructions in order to avoid any delay in the publication of your article.

Colour reproduction

To optimize the online colour reproduction, you will be given the opportunity to submit a colour graphic as either TIFF or EPS file, together with further instructions. It is your responsibility to ensure that any figures provided for colour online will reproduce well when converted to black and white for the print version.

Statistical treatment

Authors should, where possible, discuss their work with a statistician at an early stage and give attention to sample size. Individual results should not normally be given. The methods of statistical analysis should be clearly described; a suitable reference is adequate. Authors should make it clear whether they are quoting SED, SEM, SD, SE and so on. Any statement that two groups of values are different should be supported by the level of significance involved. Differences should not be claimed or implied if $P > 0.05$.

Gene Sequences

Original DNA sequences reported in the *Journal* must also be submitted to GenBank. Instructions can be found at <http://www.ncbi.nlm.nih.gov/Genbank/index.html>

Ethics of experiments

All research published in the *Journal* must comply with the locally-applicable ethical legislation or codes for animal or human research, and there must be a clear statement detailing that compliance.

Units

SI and commonly-used non-SI metric units should be used whenever possible. Solutions may be reported in terms of molarity (M) or as mol/l, providing there is consistency and no ambiguity. Give compositions based on mass or volume as (e.g.) mg/l or mg/kg and not percentage. Report all details of buffers etc that would be required for repetition. Normality should not be used.

Microorganisms

The organism should be described unambiguously, with genus, species and subspecies (if any) in italic and strain number or source in roman. Usage should conform to current international rules. Shortened forms or synonyms may be used after the first mention if desired.

Chemical formulae

These should be unambiguous. It is permissible but not required to use symbols for inorganic formulae.

Enzymes

The recommendations of the International Union of Biochemistry (*Enzyme Nomenclature*, 1984, London: Academic Press) should be followed, and the EC number given where known.

Other nomenclature, symbols, abbreviations and conventions

Authors should consult a current issue for guidance. Useful information on biochemical nomenclature and permitted acronyms can be found in *Biochemical Journal* **169**, 11-14 and on nutrient nomenclature in the *British Journal of Nutrition*. If authors use other abbreviations or acronyms, they should be defined at first mention, and their number restricted to ensure that the text is readable. Always use Arabic numerals with units; otherwise use words for 1-10 and figures for more than 10, (e.g. 3 weeks, three cows, 34 sheep) but avoid mixed lists. Time should be given by the 24 h clock, e.g. 14.15, without h or hours.

Revision of papers

If a paper is returned to authors for possible amendment or revision, a period of 4 months will normally be allowed. The editors are ready to consider a revised or rewritten paper at any time, but after 4 months it will be considered a new paper and given a new submission date.

Proofs

Authors will be advised when to expect proofs, which should be returned without delay following the instructions supplied at the time. Proofs are sent for the correction of any printer's or editorial errors, not for addition of new material or revision of the text. Excessive alteration may have to be disallowed or made at the authors' expense, and may delay publication. Order forms for paid offprints are sent with proofs and should be returned directly to Cambridge University Press following the instructions supplied at the time.

Cambridge Journals Language Editing Service

Cambridge recommends that authors have their manuscripts checked by an English language native speaker before submission; this will ensure that submissions are judged at peer review exclusively on academic merit. We list a number of third-party services specialising in language editing and / or translation, and suggest that authors contact as appropriate. Use of any of these services is voluntary, and at the author's own expense. <http://journals.cambridge.org/action/stream?pagelid=8728&level=2&menu=Authors&pagelid=3608>

Journal of Dairy Research

CONTENTS

- **Editorial: Milk is good for you**
MW Griffiths 267
- **REVIEW ARTICLE**
- **Novel trends in engineered milk products**
J Chandrapala and B Zisu 268
- **ORIGINAL ARTICLES**
- **Pre-calving feeding of rumen-protected rice bran to multiparous dairy cows improves recovery of calcaemia after calving**
J Martín-Tereso, H Martens, C Deiner, H van Laar, LA den Hartog and MWA Versteegen 281
- **Polyunsaturated fatty acid supplementation: effects of seaweed *Ascophyllum nodosum* and flaxseed on milk production and fatty acid profile of lactating ewes during summer**
M Caroprese, MG Ciliberti, R Marino, A Santillo, A Sevi and M Albenzio 289
- **Lying behaviour and IgG-levels of newborn calves after feeding colostrum via tube and nipple bottle feeding**
S Bonk, A Nadalin, W Heuwieser and D Veira 298
- **Measurement of heat stress conditions at cow level and comparison to climate conditions at stationary locations inside a dairy barn**
LK Schüller and W Heuwieser 305
- **Identification of alleles and genotypes of beta-casein with DNA sequencing analysis in Chinese Holstein cow**
R Dai, Y Fang, W Zhao, S Liu, J Ding, K Xu, L Yang, C He, F Ding and H Meng 312
- **Separation and quantification of milk casein from different buffalo breeds**
S Li, L Li, Q Zeng, J Liu and D Ren 317
- **Shorter sampling periods and accurate estimates of milk volume and components are possible for pasture based dairy herds milked with automated milking systems**
C Kamphuis, JK Burke, S Taukiri, S-F Petch and S-A Turner 326
- **Modelling lactation curve for milk fat to protein ratio in Iranian buffaloes (*Bubalus bubalis*) using non-linear mixed models**
NG Hossein-Zadeh 334
- **Interferences on microbial inhibitor tests related to ivermectin treatment in lactating dairy goats**
T Romero, VJ Moya, N Fernández, R Althaus, W Reybroeck and MP Molina 341
- **Prediction efficiency by near-infrared spectroscopy of immunoglobulin G in liquid and dried bovine colostrum samples**
MJ Rivero, D Alomar, X Valderrama, YL Cozler, A Velásquez and D Haines 345
- **Early post parturient changes in milk acute phase proteins**
FC Thomas, M Waterston, P Hastie, H Haining and PD Eckersall 352
- **Leucocyte expression of genes implicated in the plasminogen activation cascade is modulated by yoghurt peptides**
G Theodorou and I Politis 360
- **A proteomics study of colostrum and milk from the two major small ruminant dairy breeds from the Canary Islands: a bovine milk comparison perspective**
LE Hernández-Castellano, AM Almeida, J Renaut, A Argüello and N Castro 366
- **Effect of season on fatty acid and terpene profiles of milk from Greek sheep raised under a semi-extensive production system**
L Papaloukas, E Sinapis, G Arsenos, G Kyriakou and Z Basdagiani 375
- **Isolation and characterisation of lactic acid bacteria from donkey milk**
M de los Dolores Soto del Rio, C Andrighetto, A Dalmasso, A Lombardi, T Civera and MT Bottero 383
- **Changes in oxidation-reduction potential during milk fermentation by wild lactic acid bacteria**
S Morandi, T Silveti, A Tamburini and M Brasca 387
- **Lactose behaviour in the presence of lactic acid and calcium**
R Wijayasinghe, T Vasiljevic and J Chandrapala 395
- **Optimisation of cheese whey enzymatic hydrolysis and further continuous production of antimicrobial extracts by *Lactobacillus plantarum* CECT-221**
N Rodríguez-Pazo, S da Silva Sabo, JM Salgado-Seara, SA Arni, RP de Souza Oliveira and JM Domínguez 402
- **Camel milk ameliorates hyperglycaemia and oxidative damage in type-1 diabetic experimental rats**
S Meena, YS Rajput, AK Pandey, R Sharma and R Singh 412

Content alerts

Register online to receive free content alerts
journals.cambridge.org/dar-alerts



MIX
Paper from
responsible sources
FSC® C007785

CAMBRIDGE
UNIVERSITY PRESS