

CAMBRIDGE

JOURNALS

Nutrition Research Reviews

Published on behalf of The Nutrition Society

Editor-in-Chief

Graham C. Burdge, University of Southampton, 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
4.842

Ranked **4/72**
Nutrition and Dietics

2011 Journal Citation Reports®

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

Directions to Contributors can be found at journals.cambridge.org/bjn

British Journal of Nutrition
Volume 113, 2015 ISSN: 0007-1145

Publishing, Production, Marketing, and

Subscription Sales Office:

Cambridge University Press,
Journals Fulfillment Department,
UPH, Shaftesbury Road,
Cambridge CB2 8BS, UK

For Customers in North America:

Cambridge University Press
Journals Fulfillment Department
100 Brook Hill Drive
West Nyack
New York 10994-2133
USA

Publisher: Katy Christomanou

Special sales and supplements:

This Journal accepts relevant advertisements and inserts. We also provide bulk reprints of suitable papers to meet teaching or promotional requirements. The journal also publishes supplements on behalf of academic and corporate collaborators. Please contact Sarah Maddox at the Cambridge address for further details. E-mail: special_sales@cambridge.org

Subscription information:

British Journal of Nutrition is an international journal published by Cambridge University Press on behalf of The Nutrition Society. The twelve issues starting January 2015 comprise Volume 113, the twelve issues starting July 2015 comprise Volume 114.

Annual subscription rates:

Volumes 113/114 (24 issues):

Internet/print package £1575/\$3071/€2523

Internet only: £1094/\$2134/€1748

Any **supplements** to this journal published in the course of the annual volume are normally supplied to subscribers at no extra charge.

Back volumes are available. Please contact Cambridge University Press for further information.

Claims for non-receipt of journal issues will be considered on their merit and only if the claim is received within six months of publication. Replacement copies supplied after this date will be chargeable.

US POSTMASTERS: please send address corrections to *British Journal of Nutrition*, Cambridge University Press, 100 Brook Hill Drive, West Nyack, New York 10994-2133.

Directions to Contributors are available from the Society at the address below or can be found on the Society's website at <http://www.nutritionociety.org>.

Offprints: The author (or main author) of an accepted paper will receive a copy of the PDF file of their article. There will be an option to purchase paper offprints, these should be ordered at proof stage. No page charges are levied by this journal.

Copyright: As of 1 July 2000 the copyright of all articles submitted to *British Journal of Nutrition* are retained by the authors or their institutions. For articles prior to this date permission for reproduction of any part of the journal (text, figures, tables or other matter) in any form (on paper, microfiche or electronically) should be sought directly from the Society, at: The Publications Office, The Nutrition Society, 10 Cambridge Court, 210 Shepherds Bush Road, Hammersmith, London W6 7NJ, UK.

Disclaimer: The information contained herein, including any expression of opinion and any projection or forecast, has been obtained from or is based upon sources believed by us to be reliable, but is not guaranteed as to accuracy or completeness. The information is supplied without obligation and on the understanding that any person who acts upon it or otherwise changes his/her position in reliance thereon does so entirely at his/her own risk. Neither the Society nor Cambridge University Press accepts responsibility for any trade advertisement included in this publication.

This journal is printed on acid-free paper from renewable sources. Printed in the UK by Bell & Bain Ltd., Glasgow.

This journal issue has been printed on FSC-certified paper and cover board. FSC is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests. Please see www.fsc.org for information.

British Journal of Nutrition is covered in Current Contents®/Agriculture, Biology & Environmental Sciences, SciSearch®, Research Alert®, Current Contents®/Life Sciences, Index Medicus® (MEDLINE®), AGRICOLA®, CAB Abstracts™, Global Health, BIOSIS® Database, EMBASE/Excerpta Medica and Elsevier BIOBASE/Current Awareness in Biological Sciences, CINAHL, and Chemical Abstracts Service.

Review Article

- Diet, nutrients and metabolism: cogs in the wheel driving Alzheimer's disease pathology?
R. Creegan, W. Hunt, A. McManus & S. R. Rainey-Smith 1499–1517

Molecular Nutrition

- The effect of dietary arachidonic acid (ARA) on growth performance, fatty acid composition and expression of ARA metabolism-related genes in larval half-smooth tongue sole (*Cynoglossus semilaevis*).
Y. Yuan, S. Li, K. Mai, W. Xu, Y. Zhang & Q. Ai 1518–1530

Metabolism and Metabolic Studies

- Simultaneous ingestion of high-methoxy pectin from apple can enhance absorption of quercetin in human subjects.
T. Nishijima, Y. Takida, Y. Saito, T. Ikeda & K. Iwai 1531–1538
- Distribution of vitamin C is tissue specific with early saturation of the brain and adrenal glands following differential oral dose regimens in guinea pigs.
S. Hasselholt, P. Tveden-Nyborg & J. Lykkesfeldt 1539–1549
- A high-cholesterol diet enriched with polyphenols from Oriental plums (*Prunus salicina*) improves cognitive function and lowers brain cholesterol levels and neurodegenerative-related protein expression in mice.
P.-H. Kuo, C.-I. Lin, Y.-H. Chen, W.-C. Chiu & S.-H. Lin 1550–1557
- Effects of two whole-grain barley varieties on caecal SCFA, gut microbiota and plasma inflammatory markers in rats consuming low- and high-fat diets.
Y. Zhong, N. Marungruang, F. Fåk & M. Nyman 1558–1570
- Prediction of metabolisable energy concentrations of fresh-cut grass using digestibility data measured with non-pregnant non-lactating cows.
S. Stergiadis, M. Allen, X. Chen, D. Wills & T. Yan 1571–1584

Human and Clinical Nutrition

- Acute effects of calcium citrate with or without a meal, calcium-fortified juice and a dairy product meal on serum calcium and phosphate: a randomised cross-over trial.
S. M. Bristow, G. D. Gamble, A. Stewart, R. Kalluru, A. M. Horne & I. R. Reid 1585–1594

Dietary Surveys and Nutritional Epidemiology

- Whole grain intake and its association with intakes of other foods, nutrients and markers of health in the National Diet and Nutrition Survey rolling programme 2008–11.
K. D. Mann, M. S. Pearce, B. McKeivith, F. Thielecke & C. J. Seal 1595–1602

- Food consumption of adults in Germany: results of the German National Nutrition Survey II based on diet history interviews.
T. Heuer, C. Krems, K. Moon, C. Brombach & I. Hoffmann 1603–1614
- Usual coffee intake in Brazil: results from the National Dietary Survey 2008–9.
A. G. Sousa & T. H. M. da Costa 1615–1620
- Low BMI is inversely associated with arterial stiffness in Africans.
H. W. Huisman, R. Schutte, H. L. Venter & J. M. van Rooyen 1621–1627
- Midlife plasma vitamin D concentrations and performance in different cognitive domains assessed 13 years later.
K. E. Assmann, M. Touvier, V. A. Andreeva, M. Deschasaux, T. Constans, S. Hercberg, P. Galan & E. Kesse-Guyot 1628–1637
- Major food sources contributing to energy intake – a nationwide survey of Brazilians aged 10 years and older.
R. Sichieri, I. N. Bezerra, M. C. Araújo, A. de Moura Souza, E. M. Yokoo & R. A. Pereira 1638–1642
- Low whole grain intake in the UK: results from the National Diet and Nutrition Survey rolling programme 2008–11
K. D. Mann, M. S. Pearce, B. McKeivith, F. Thielecke & C. J. Seal 1643–1651

Behaviour, Appetite and Obesity

- Guiding healthier food choice: systematic comparison of four front-of-pack labelling systems and their effect on judgements of product healthiness.
C. E. Hodgkins, M. M. Raats, C. Fife-Schaw, M. Peacock, A. Gröppel-Klein, J. Koenigstorfer, G. Wasowicz, M. Stysko-Kunkowska, Y. Gulcan, Y. Kustepeli, M. Gibbs, R. Shepherd & K. G. Grunert 1652–1663

Letter to the Editor

- Understanding the role of probiotics in coeliac disease.
E. Smecuol, M. I. Pinto-Sánchez & J. C. Bai 1664–1665

Cambridge Journals Online For further information about this journal please go to the journal website at: journals.cambridge.org/bjn