CAMBRIDGE

JOURNALS

JNS JOURNAL OF NUTRITIONAL SCIENCE

Editor-in-Chief

G C Burdge, University of Southampton, UK





Journal of Nutritional Science encompasses the full spectrum of nutritional science including public health nutrition, epidemiology, dietary surveys, nutritional requirements, metabolic studies, body composition, energetics, appetite, obesity, ageing, endocrinology, immunology, neuroscience, microbiology, genetics and molecular and cell biology. The Nutrition Society fully engages with the Open Access model of publishing.

journals.cambridge.org/jns

Submit your article online **jnutsci.msubmit.net**

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







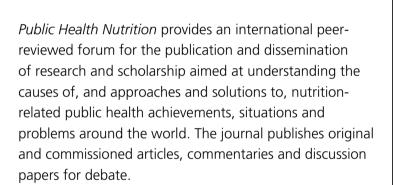
CAMBRIDGE

JOURNALS

PUBLIC HEALTH NUTRITION

Editor-in-Chief

Marilyn Tseng, California Polytechnic State University, USA



journals.cambridge.org/phn

Submit your article online **phn.msubmit.net**

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





Impact Factor 2.25

Ranked **47/158**Public,
Environmental and
Occupational Health

Ranked **34/76**Nutrition and Dietics

2012 Journal Citation Reports® Thomson Reuter

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



JOURNALS

PROCEEDINGS OF THE NUTRITION SOCIETY

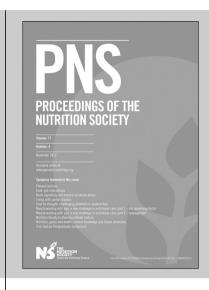
Editor-in-Chief

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

JOURNALS

NRR

NUTRITION RESEARCH REVIEWS

Editor-in-Chief

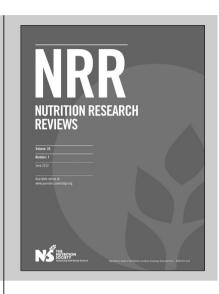
Jayne V. Woodside, Queen's University, Belfast, UK

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



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

British Journal of Nutrition

Volume 114, 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 Fullfillment 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.nutritionsociety.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 TM, Global Health, BIOSIS® Database, EMBASE/Excerpta Medica and Elsevier BIOBASE/Current Awareness in Biological Sciences, CINAHL, and Chemical Abstracts Service.

BRITISH JOURNAL OF NUTRITION, VOLUME 114 - Number 11

Molecular Nutrition	
Supplementation of sodium butyrate protects mice from the development of non-alcoholic steatohepatitis (NASH) C. J. Jin, C. Sellmann, A. J. Engstler, D. Ziegenhardt & I. Bergheim	1745-1755
Metabolism and Metabolic Studies	
Could the beneficial effects of dietary calcium on obesity and diabetes control be mediated by changes in intestinal microbiota and integrity? J. M. G. Gomes, J. A. Costa & R. C. Alfenas	1756-1765
Synergic hypocholesterolaemic effect of <i>n</i> -3 PUFA and oestrogen by modulation of hepatic cholesterol metabolism in female rats Y. Oh, Y. Jin & Y. Park	1766-1773
Supplemental epilactose prevents metabolic disorders through uncoupling protein-1 induction in the skeletal muscle of mice fed high-fat diets	
Y. Murakami, T. Ojima-Kato, W. Saburi, H. Mori, H. Matsui, S. Tanabe & T. Suzuki	1774-1783
Nutritional Toxicity	
Rapid effects of essential fatty acid deficiency on growth and development parameters and transcription of key fatty acid metabolism genes in juvenile barramundi (<i>Lates calcarifer</i>)	
M. J. Salini, G. M. Turchini, N. M. Wade & B. D. Glencross	1784-1796
Human and Clinical Nutrition	
Contribution of dietary advanced glycation end products (AGE) to circulating AGE: role of dietary fat K. E. Davis, C. Prasad, P. Vijayagopal, S. Juma, B. Adams-Huet & V. Imrhan	1797-1806
Randomised controlled trial of the effect of long-term selenium supplementation on plasma cholesterol in an elderly Danish population F. Cold, K. H. Winther, R. Pastor-Barriuso, M. P. Rayman, E. Guallar, M. Nybo, B. A. Griffin, S. Stranges & S. Cold	1807-1818
Dietary proteins improve endothelial function under fasting conditions but not in the postprandial state, with no effects on markers of low-grade inflammation	
K. F. M. Teunissen-Beekman, J. Dopheide, J. M. Geleijnse, S. J. L. Bakker, E. J. Brink, P. W. de Leeuw, C. G. Schalkwijk & M. A. van Baak	1819-1828
lodine status of young Burkinabe children receiving small-quantity lipid-based nutrient supplements and iodised salt: a cluster-randomised trial	
S. Y. Hess, S. Abbeddou, E. Y. Jimenez, JB. Ouédraogo & K. H. Brown Relation of serum 25-hydroxyvitamin D status with skeletal muscle	1829-1837
mass by sex and age group among Korean adults M. J. Ko, S. Yun, K. Oh & K. Kim	1838-1844
Effect of co-ingestion of amino acids with rice on glycaemic and insulinaemic response Y. Y. Soong, J. Lim, L. Sun & C. J. Henry	1845-1851
Derivation and validation of simple anthropometric equations to predict adipose tissue mass and total fat mass with MRI as the reference	
method	

Acute effects of calcium supplements on blood pressure and blood coagulation: secondary analysis of a randomised controlled trial in post-menopausal women S. M. Bristow, G. D. Gamble, A. Stewart, A. M. Horne & I. R. Reid 1868-1874 Dietary Surveys and Nutritional Epidemiology Intake of total and added sugars and nutrient dilution in Australian children and adolescents J. C. Y. Louie & L. C. Tapsell 1875-1886 Longitudinal association of dairy consumption with the changes in blood pressure and the risk of incident hypertension: the Framingham Heart 1887-1899 H. Wang, C. S. Fox, L. M. Trov. N. M. Mckeown & P. F. Jacques Predicted vitamin D status during pregnancy in relation to offspring forearm fractures in childhood: a study from the Danish National Birth S. B. Petersen, M. Strøm, E. Maslova, C. Granström, P. Vestergaard, C. Mølgaard & S. F. Olsen 1900-1908 A Western dietary pattern is associated with overweight and obesity in a national sample of Lebanese adolescents (13–19 years): a cross-sectional study 1909-1919 F. Naja, N. Hwalla, L. Itani, S. Karam, A. M. Sibai & L. Nasreddine Calcium requirements from dairy foods in France can be met at low energy and monetary cost A. Drewnowski, W. Tang & R. Brazeilles 1920-1928 Association of food consumption with total volumes of visceral and subcutaneous abdominal adipose tissue in a Northern German D. Rüttgers, K. Fischer, M. Koch, W. Lieb, H.-P. Müller, G. Jacobs, J. Kassubek & U. Nöthlings 1929-1940 Behaviour, Appetite and Obesity Associations between the use of social networking sites and unhealthy eating behaviours and excess body weight in adolescents H. Sampasa-Kanyinga, J.-P. Chaput & H. A. Hamilton 1941-1947 Erratum Probiotic strain Lactobacillus plantarum 299v increases iron absorption from 2 an iron-supplemented fruit drink: a double-isotope cross-over single-blind 3 study in women of reproductive age - ERRATUM 1948-1948 M. Hoppe, G. Önning, A. Berggren & L. Hulthén Cambridge Journals Online For further information about this journal please go to the journal website at: journals.cambridge.org/bjn



Y. Y. Al-Gindan, C. R. Hankey, L. Govan, D. Gallagher, S. B. Heymsfield &

M. E. J. Lean



1852-1867



