CAMBRIDGE

JOURNALS



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

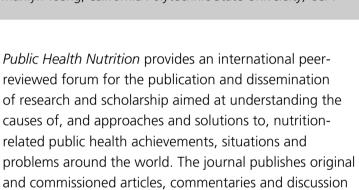
JOURNALS



Editor-in-Chief

papers for debate.

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

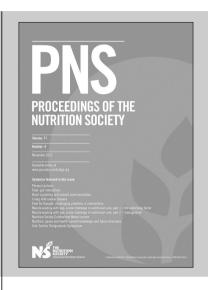
Editor-in-Chief

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





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.

Invited Commentary		Vitamin D status is associated with cardiometabolic markers in	
How healthy is a gluten-free diet? H. M. Staudacher & P. R. Gibson	1539-1541	8—11-year-old children, independently of body fat and physical activity R. A. Petersen, SM. Dalskov, L. B. Sørensen, M. F. Hjorth, R. Andersen, I. Tetens, H. Krarup, C. Ritz, A. Astrup, K. F. Michaelsen, C. Mølgaard &	
Molecular Nutrition		C. T. Damsgaard	1647-1655
The beneficial effects of berries on cognition, motor behaviour and neuronal function in ageing B. Shukitt-Hale, D. F. Bielinski, F. C. Lau, L. M. Willis, A. N. Carey & J. A. Joseph	1542-1549	The effect of macronutrients on glycaemic control: a systematic review of dietary randomised controlled trials in overweight and obese adults with type 2 diabetes in which there was no difference in weight loss between treatment groups	
Metabolism and Metabolic Studies		A. Emadian, R. C. Andrews, C. Y. England, V. Wallace & J. L. Thompson	1656-1666
Digestibility of new dietary fibre materials, resistant glucan and		Dietary Surveys and Nutritional Epidemiology	
hydrogenated resistant glucan in rats and humans, and the physical effects in rats T. Oku, K. Tanabe, S. Morita, N. Hamaguchi, F. Shimura & S. Nakamura	1550-1559	Egg and cholesterol intake and incident type 2 diabetes among French women	
Nutritional Immunology		M. Lajous, A. Bijon, G. Fagherazzi, B. Balkau, MC. Boutron-Ruault & F. Clavel-Chapelon	1667-1673
Vitamin D inhibits lipopolysaccharide-induced inflammatory response potentially through the Toll-like receptor 4 signalling pathway in the intestine and enterocytes of juvenile Jian carp (<i>Cyprinus carpio</i> var. Jian) J. Jiang, D. Shi, XQ. Zhou, L. Yin, L. Feng, WD. Jiang, Y. Liu, L. Tang,	1500 1500	High serum carotenoids associated with lower risk for the metabolic syndrome and its components among Japanese subjects: Mikkabi cohort study M. Sugiura, M. Nakamura, K. Ogawa, Y. Ikoma & M. Yano	1674-1682
P. Wu & Y. Zhao	1560-1568	Comparative analysis of the Cancer Council of Victoria and the online Commonwealth Scientific and Industrial Research Organisation FFQ	
Nutritional Toxicity		S. L. Gardener, S. R. Rainey-Smith, S. L. Macaulay, K. Taddei, A. Rembach,	
Soyabean glycinin depresses intestinal growth and function in juvenile Jian carp (<i>Cyprinus carpio</i> var Jian): protective effects of glutamine WD. Jiang, K. Hu, JX. Zhang, Y. Liu, J. Jiang, P. Wu, J. Zhao, SY. Kuang,		P. Maruff, K. A. Ellis, C. L. Masters, C. C. Rowe, D. Ames, J. B. Keogh, R. N. Martins & The AIBL Research Group Urinary isoflavonoids and risk of type 2 diabetes: a prospective	1683-1693
L. Tang, WN. Tang, YA. Zhang, XQ. Zhou & L. Feng Dietary carbohydrate and lipid sources affect differently the oxidative status of European sea bass (<i>Dicentrarchus labrax</i>) juveniles	1569-1583	investigation in US women M. Ding, A. A. Franke, B. A. Rosner, E. Giovannucci, R. M. van Dam, S. S. Tworoger, F. B. Hu & Q. Sun	1694-1701
C. Castro, A. Peréz-Jiménez, F. Coutinho, P. Díaz-Rosales, C. A. dos Reis Serra, S. Panserat, G. Corraze, H. Peres & A. Oliva-Teles	1584-1593	Prospective association between cancer risk and an individual dietary index based on the British Food Standards Agency Nutrient Profiling	2001 2702
Human and Clinical Nutrition		System M. Donnenfeld, C. Julia, E. Kesse-Guyot, C. Méjean, P. Ducrot, S. Péneau,	
Women's work in farming, child feeding practices and nutritional status		M. Deschasaux, P. Latino-Martel, L. Fezeu, S. Hercberg & M. Touvier	1702-1710
among under-five children in rural Rukwa, Tanzania S. Nordang, T. Shoo, G. Holmboe-Ottesen, J. Kinabo & M. Wandel A pilot duplicate diet study on manganese, selenium and chromium	1594-1603	Low-fat and low-protein diets are associated with hearing discomfort among the elderly of Korea	
intakes in institutionalised children and adolescents from Guatemala		S. Y. Kim, S. Sim, HJ. Kim & H. Geun Choi	1711-1717
C. Cabrera-Vique, M. Briones, J. J. Muros, I. Seiquer, J. A. Sánchez, G. Rodríguez & R. Giménez	1604-1611	Innovative Techniques	
Factors associated with nutritional decline in hospitalised medical and surgical patients admitted for 7 d or more: a prospective cohort study J. P. Allard, H. Keller, A. Teterina, K. N. Jeejeebhoy, M. Laporte, D. R. Duerksen,		Absorption and initial metabolism of ⁷⁵ Se-L-selenomethionine: a kinetic model based on dynamic scintigraphic data M. Große Ruse, L. R. Søndergaard, S. Ditlevsen, M. Damgaard, S. Fuglsang, J. T. Ottesen & J. L. Madsen	1718-1723
L. Gramlich, H. Payette, P. Bernier, B. Davidson & W. Lou Diet-induced changes in iron and n-3 fatty acid status and associations	1612-1622	Behaviour, Appetite and Obesity	
with cognitive performance in 8—11-year-old Danish children: secondary analyses of the Optimal Well-Being, Development and Health for Danish Children through a Healthy New Nordic Diet School Meal Study L. B. Sørensen, C. T. Damsgaard, SM. Dalskov, R. A. Petersen, N. Egelund, C. B. Dyssegaard, K. D. Stark, R. Andersen, I. Tetens, A. Astrup, K. F. Michaelsen & L. Lauritzen		Lean and obese dietary phenotypes: differences in energy and substrate metabolism and appetite L. Clamp, A. P. J. Hehir, E. V. Lambert, C. Beglinger & J. H. Goedecke	1724-1733
	1623-1637	Dietary protein ingested before and during short photoperiods makes an impact on affect-related behaviours and plasma composition of amino acids in mice	
Effect of the probiotic strain <i>Bifidobacterium animalis</i> subsp. <i>lactis</i> , BB-12®, on defecation frequency in healthy subjects with low defecation frequency and abdominal discomfort: a randomised, double-blind,		T. Otsuka, R. Goda, A. Iwamoto, M. Kawai, S. Shibata, Y. Oka, W. Mizunoya, M. Furuse & S. Yasuo	1734-1743
placebo-controlled, parallel-group trial D. Eskesen, L. Jespersen, B. Michelsen, P. J. Whorwell, S. Müller-Lissner & C. M. Morberg	1638-1646	Cambridge Journals Online For further information about this journal please go to the journal website at: journals.cambridge.org/bjn	







