CAMBRIDGE JOUR





Editor-in-Chief G C Burdge, University of Southampton, UK



Cambridge Open

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







JOURNALS

PUBLIC HEALTH NUTRITION

Editor-in-Chief Marilyn Tseng, California Polytechnic State University, USA

Public Health Nutrition provides an international peerreviewed forum for the publication and dissemination of research and scholarship aimed at understanding the causes of, and approaches and solutions to, nutritionrelated public health achievements, situations and problems around the world. The journal publishes original and commissioned articles, commentaries and discussion papers for debate.

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



CAMBRIDGE

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 116, 2016 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 1 Liberty Plaza Floor 20 New York, NY 10006 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 2016 comprise Volume 115, the twelve issues starting July 2016 comprise Volume 116.

Annual subscription rates:

Volumes 115/116 (24 issues): Internet/print package £1654/\$3225/€2649 Internet only: £1149/\$2241/€1836 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, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA.

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 AbstractsTM, 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 116 - Number 2

Molecular Nutrition	
Preventive effects of citrulline on Western diet-induced non-alcoholic	
fatty liver disease in rats P. Jegatheesan, S. Beutheu, K. Freese, AJ. Waligora-Dupriet, E. Nubret, MJ. Butel, I. Bergheim & JP. De Bandt	191-203
Acute dairy milk ingestion does not improve nitric oxide-dependent vasodilation in the cutaneous microcirculation B. K. Alba, A. E. Stanhewicz, W. L. Kenney & L. M. Alexander	204-210
Metabolism and Metabolic Studies	
Whole-body and splanchnic amino acid metabolism in sheep during an acute endotoxin challenge	
C. J. McNeil, S. O. Hoskin, D. M. Bremner, G. Holtrop & G. E. Lobley	211-222
Reversibility of endothelial dysfunction in diabetes: role of polyphenols N. Suganya, E. Bhakkiyalakshmi, D. V. L. Sarada & K. M. Ramkumar	223-246
Nutritional Endocrinology	
The combined effects of soya isoflavones and resistant starch on equol production and trabecular bone loss in ovariectomised mice Y. Tousen, Y. Matsumoto, C. Matsumoto, Y. Nishide, Y. Nagahata, I. Kobayashi & Y. Ishimi	247-257
Nutritional Toxicity Effect of long-term ingestion of weakly oxidised flaxseed oil on	
biomarkers of oxidative stress in LDL-receptor knockout mice M. S. Nogueira, M. C. Kessuane, A. A. B. Lobo Ladd, F. V. Lobo Ladd, B. Cogliati & I. A. Castro	258-269
Microbiology	
Combinational effects of prebiotic oligosaccharides on bifidobacterial growth and host gene expression in a simplified mixed culture model and neonatal mice T. Ehara, H. Izumi, M. Tsuda, Y. Nakazato, H. Iwamoto, K. Namba & Y. Takeda	270-278
Human and Clinical Nutrition	
L-Citrulline supplementation attenuates blood pressure, wave reflection and arterial stiffness responses to metaboreflex and cold stress in overweight men A. Figueroa, S. Alvarez-Alvarado, S. J. Jaime & R. Kalfon	279-285
The effects of vitamin D, K and calcium co-supplementation on carotid intima-media thickness and metabolic status in overweight type 2 diabetic patients with CHD 2. Asemi, F. Raygan, F. Bahmani, Z. Rezavandi, H. R. Talari, M. Rafiee,	
S. Poladchang, M. Darooghegi Mofrad, S. Taheri, A. A. Mohammadi & A. Esmaillzadeh	286-293
Sialylated galacto-oligosaccharides and 2' -fucosyllactose reduce necrotising enterocolitis in neonatal rats C. A. Autran, M. H. C. Schoterman, E. Jantscher-Krenn, J. P. Kamerling & L. Bode	294-299
Dietary Surveys and Nutritional Epidemiology	
Dietary patterns in the French adult population: a study from the second French national cross-sectional dietary survey (INCA2) (2006–2007) R. Gazan, C. Béchaux, A. Crépet, V. Sirot, P. Drouillet-Pinard, C. Dubuisson &	

300-315

Pre-diagnostic meat and fibre intakes in relation to colorectal cancer survival in the European Prospective Investigation into Cancer and Nutrition H. A. Ward, T. Norat, K. Overvad, C. C. Dahm, H. B. Bueno-de-Mesquita, M. Jenab, V. Fedirko, F. J. B. van Duijnhoven, G. Skeie, D. Romaguera-Bosch, A. Tjønneland, A. Olsen, F. Carbonnel, A. Affret, M.-C. Boutron-Ruault, V. Katzke, T. Kühn, K. Aleksandrova, H. Boeing, A. Trichopoulou, P. Lagiou, C. Bamia, D. Palli, S. Sieri, R. Tumino, A. Naccarati, A. Mattiello, P. H. Peeters, E. Weiderpass, L. A. Åsli, P. Jakszyn, J. Ramón Quirós, M.-J. Sánchez, M. Dorronsoro, J.-M. Huerta, A. Barricarte, K. Jirström, U. Ericson, I. Johansson, B. Gylling, K. E. Bradbury, K.-T. Khaw, N. J. Wareham, M. Stepien, H. Freisling, N. Murphy, A. J. Cross & E. Riboli 316-325 Midlife moderation-quantified healthy diet and 40-year mortality risk from CHD: the prospective National Heart, Lung, and Blood Institute Twin Study J. Dai, R. E. Krasnow & T. Reed 326-334 Adherence to Alternative Healthy Eating Index in relation to depression and anxiety in Iranian adults P. Saneei, M. Hajishafiee, A. H. Keshteli, H. Afshar, A. Esmaillzadeh & P. Adibi 335-342 Cereal fibre intake and risk of mortality from all causes, CVD, cancer and inflammatory diseases: a systematic review and meta-analysis of prospective cohort studies M. Hajishafiee, P. Saneei, S. Benisi-Kohansal & A. Esmaillzadeh 343-352 Dietary patterns and benign breast diseases: a case-control study Z. Tiznobeyk, Z. S. Mobarakeh, M. Qorbani, F. Koohdani, G. Sotoudeh, F. Khajehnasiri, S. Khosravi & F. Doostan 353-359

Behaviour, Appetite and Obesity

Mycoprotein reduces energy intake and postprandial insulin release without altering glucagon-like peptide-1 and peptide tyrosine-tyrosine concentrations in healthy overweight and obese adults: a randomised- controlled trial	
J. H. Bottin, J. R. Swann, E. Cropp, E. S. Chambers, H. E. Ford, M. A. Ghatei & G. S. Frost	360-374
Letter to the Editor	
Importance of strain subgroup analysis in probiotic meta-analyses L. V. McFarland	375-376
Corrigendum	
Does prenatal exposure to vitamin D-fortified margarine and milk alter birth weight? A societal experiment – CORRIGENDUM	
C. B. Jensen, M. Stougård, T. I. A. Sørensen & B. L. Heitmann	377-379
Cambridge Journals Online For further information about this journal please go to the journal website at: journals.cambridge.org/bjn	



S. Havard



MIX Paper from responsible sources FSC[®] C007785

