

Directions to Contributors can be found at [journals.cambridge.org/bjn](http://journals.cambridge.org/bjn)

**British Journal of Nutrition**  
Volume 110, 2013 ISSN: 0007-1145

**Publishing, Production, Marketing, and  
Subscription Sales Office:**

Cambridge University Press  
The Edinburgh Building  
Shaftesbury Road  
Cambridge CB2 8RU, 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](mailto: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 2013 comprise Volume 109, the twelve issues starting July 2013 comprise Volume 110.

**Annual subscription rates:**

Volumes 109/110 (24 issues):  
Internet/print package £1302/\$2538/€2085  
Internet only: £956/\$1864/€1527

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.nutrition society.org> (an abbreviated Notes for Authors can be found inside the back cover).

**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](http://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 – Systematic with Meta-Analysis**

Effects of high-protein diets on body weight, glycaemic control, blood lipids and blood pressure in type 2 diabetes: meta-analysis of randomised controlled trials.  
*J.-Y. Dong, Z.-L. Zhang, P.-Y. Wang & L.-Q. Qin* 781–789

**Molecular Nutrition**

Influence of SNPs in nutrient-sensitive candidate genes and gene–diet interactions on blood lipids: the DiOGenes study.  
*L. K. Brahe, L. Ångquist, L. H. Larsen, K. S. Vimalaswaran, J. Hager, N. Viguier, R. J. F. Loos, T. Handjieva-Darlenska, S. A. Jebb, P. Hlavaty, T. M. Larsen, J. Alfredo Martinez, A. Papadaki, A. F. H. Pfeiffer, M. A. van Baak, T. I. A. Sørensen, C. Holst, D. Langin, A. Astrup & W. H. M. Saris* 790–796

*Grape seed extract triggers apoptosis in Caco-2 human colon cancer cells through reactive oxygen species and calcium increase: extracellular signal-regulated kinase involvement.*  
*S. Dinicola, M. A. Mariggiò, C. Morabito, S. Guarnieri, A. Cucina, A. Pasqualato, F. D'Anselmi, S. Proietti, P. Coluccia & M. Bizzarri* 797–809

**Metabolism and Metabolic Studies**

Identification of biomarkers for intake of protein from meat, dairy products and grains: a controlled dietary intervention study.  
*W. Altorf-van der Kuil, E. J. Brink, M. Boetje, E. Siebelink, S. Bijlsma, M. F. Engberink, P. van 't Veer, D. Tomé, S. J. L. Bakker, M. A. van Baak & J. M. Geleijnse* 810–822

**Nutritional Endocrinology**

Ontogenic expression of the amino acid transporter b<sup>0</sup>-AT in suckling Huanjiang piglets: effect of intra-uterine growth restriction.  
*W. Wang, F. Blachier, D. Fu, J. Pan, H. Yang, J. Guo, W. Chu, X. Kong & Y. Yin* 823–830

Infant neurocognitive development is independent of the use of iodised salt or iodine supplements given during pregnancy.  
*P. Santiago, I. Velasco, J. A. Muela, B. Sánchez, J. Martínez, A. Rodríguez, M. Berrio, C. Gutierrez-Repiso, M. Carreira, A. Moreno, E. García-Fuentes & F. Soriquer* 831–839

**Nutritional Immunology**

Dietary supplementation of young broiler chickens with *Capsicum* and turmeric oleoresins increases resistance to necrotic enteritis.  
*S. H. Lee, H. S. Lillehoj, S. I. Jang, E. P. Lillehoj, W. Min & D. M. Bravo* 840–847

**Human and Clinical Nutrition**

Liver and muscle glycogen repletion using <sup>13</sup>C magnetic resonance spectroscopy following ingestion of maltodextrin, galactose, protein and amino acids.  
*E. Detko, J. P. O'Hara, P. E. Thelwall, F. E. Smith, D. G. Jakovljevic, R. F. G. J. King & M. I. Trenell* 848–855

Determinants of vitamin D status in pregnant fair-skinned women in Sweden.  
*P. Brembeck, A. Winkvist & H. Olausson* 856–864

Co-administration of methyl donors along with guanidinoacetic acid reduces the incidence of hyperhomocysteinaemia compared with guanidinoacetic acid administration alone.  
*S. M. Ostojic, B. Niess, M. Stojanovic & M. Obrenovic* 865–870

Indices of fatty acid desaturase activity in healthy human subjects: effects of different types of dietary fat.  
*B. Vessby, I.-B. Gustafsson, S. Tengblad & L. Berglund* 871–879

Modulation of platelet aggregation-related eicosanoid production by dietary F-fucoidan from brown alga *Laminaria japonica* in human subjects.  
*R. Ren, Y. Azuma, T. Ojima, T. Hashimoto, M. Mizuno, Y. Nishitani, M. Yoshida, T. Azuma & K. Kanazawa* 880–890

Oral green tea catechin metabolites are incorporated into human skin and protect against UV radiation-induced cutaneous inflammation in association with reduced production of pro-inflammatory eicosanoid 12-hydroxyeicosatetraenoic acid.  
*L. E. Rhodes, G. Darby, K. A. Massey, K. A. Clarke, T. P. Dew, M. D. Farrar, S. Bennett, R. E. B. Watson, G. Williamson & A. Nicolaou* 891–900

**Dietary Surveys and Nutritional Epidemiology**

Prospective study of alcohol consumption and the incidence of the metabolic syndrome in US men.  
*M. Stoutenberg, D.-c. Lee, X. Sui, S. Hooker, V. Horigian, T. Perrino & S. Blair* 901–910

Single v. multiple measures of skin carotenoids by resonance Raman spectroscopy as a biomarker of usual carotenoid status.  
*S. Scarmo, B. Cartmel, H. Lin, D. J. Leffell, I. V. Ermakov, W. Gellermann, P. S. Bernstein & S. T. Mayne* 911–917

Carbohydrate quality is not associated with liver enzyme activity and plasma TAG and HDL concentrations over 5 years in an older population.  
*J. Goletzke, A. E. Buyken, B. Gopinath, E. Rochtchina, A. W. Barclay, G. Cheng, J. C. Brand-Miller & P. Mitchell* 918–925

The relationship between parental education and adolescents' soft drink intake from the age of 11–13 years, and possible mediating effects of availability and accessibility.  
*T. H. Totland, N. Lien, I. H. Bergh, M. Bjelland, M. K. Gebremariam, K.-I. Klepp & L. F. Andersen* 926–933

**Behaviour, Appetite and Obesity**

Polydextrose results in a dose-dependent reduction in *ad libitum* energy intake at a subsequent test meal.  
*N. M. Astbury, M. A. Taylor & I. A. Macdonald* 934–942

The impact of a 16-week dietary intervention with prescribed amounts of whole-grain foods on subsequent, elective whole grain consumption.  
*I. A. Brownlee, S. A. Kuznesof, C. Moore, S. A. Jebb & C. J. Seal* 943–948

Association between self-reported sleep duration and dietary quality in European adolescents.  
*S. Bel, N. Michels, T. De Vriendt, E. Patterson, M. Cuenca-García, K. Diethelm, B. Gutin, E. Grammatikaki, Y. Manios, C. Leclercq, F. B. Ortega, L. A. Moreno, F. Gottrand, M. Gonzalez-Gross, K. Widhalm, A. Kafatos, M. Garaulet, D. Molnar, J.-M. Kaufman, C. C. Gilbert, L. Hallström, M. Sjöström, A. Marcos, S. De Henauw & I. Huybrechts on behalf of the HELENA Study Group* 949–959

Dietary fibre fermentability but not viscosity elicited the 'second-meal effect' in healthy adult dogs.  
*P. Deng, A. N. Beloshapka, B. M. Vester Boler & K. S. Swanson* 960–968

**Letter to the Editor**

Low-carbohydrate diets impair flow-mediated dilatation: evidence from a systematic review and meta-analysis.  
*L. Schwingshackl & G. Hoffmann* 969–970

**CORRIGENDUM**

Blood profiling of proteins and steroids during weight maintenance with manipulation of dietary protein level and glycaemic index – CORRIGENDUM.  
*P. Wang, C. Holst, A. Astrup, F. G. Bouwman, S. van Otterdijk, W. K. W. H. Wodzig, M. R. Andersen, M. A. van Baak, L. G. Rasmussen, J. Alfredo Martinez, S. A. Jebb, A. F. H. Pfeiffer, A. Kafatos, T. Handjieva-Darlenska, P. Hlavaty, W. H. M. Saris & E. C. M. Mariman on behalf of Diogenes Consortium* 971

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