British Journal of Nutrition

Volume 108, 2012 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 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 2012 comprise Volume 107, the twelve issues starting July 2012 comprise Volume 108.

Annual subscription rates:

Volumes 107/108 (24 issues): Internet/print package £1113/\$2169/€1782 Internet only: £877/\$1710/€1401 Print only: £1060/\$2067/€1723

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 (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 and a voucher copy of the issue in which their paper has been published. 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.

CAMBRIDGE

JOURNALS

Public Health Nutrition

Published on behalf of The Nutrition Society

Editor-in-Chief

Agneta Yngve, Akershus University College, Norway



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: 2.075

2010 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



British Journal of Nutrition

Directions to Contributors - Concise Version

(Revised August 2007)

The *British Journal of Nutrition* is an international peerreviewed journal that publishes original papers, review articles, technical notes and short communications in English in all branches of nutritional science. **Prospective authors should note that they (or their institutions) now retain the copyright of their material published in the** *British Journal of Nutrition***. As a contributor you are asked to follow the guidelines set out below. For detailed information on the presentation of the technical content of your paper please see the full version of the Directions to Contributors**, which can be downloaded from the Nutrition Society website (http://www.nutritionsociety. org). Prospective authors may also contact the Publications Office directly on + 44 (0)20 7605 6555 (telephone), +44 20 7602 1756 (fax), or edoffice@nutsoc.org.uk (email).

Papers should be accompanied by a statement to the effect that the conditions laid down in the full Directions to Contributors are accepted. The statement should affirm that the submission represents original work that has not been published previously and which is not currently being considered by another journal. It should also confirm that each author has seen and approved the contents of the submitted paper. At the time of acceptance the authors should provide a completed copy of the 'Licence to Publish' (in lieu of copyright transfer). The Licence to Publish is available on the Nutrition Society website (http://www.nutrition society.org). All relevant financial interests should be declared

Text. Papers should be submitted with 1.5 line spacing and margins of at least 2 cm on each side. Text should be printed without underlining, bold or italics (except for scientific names). Standard abbreviations (e.g. Fig. and Figs.) and SI units should be used. Typescripts can be submitted as Word, WordPerfect, EPS, Text, Postscript or RTF files. A Word processing format is required for production purposes once papers have been accepted. When substantial revisions are required to typescripts, authors are given the opportunity to do this once only, the need for any further changes should at most reflect any minor issues.

Title Page. The first page should include a concise, informative title together with the names and addresses of the authors. A contact name for correspondence should be given and telephone, fax and email addresses provided. Authors should supply three or four key words or phrases (each containing up to three words). A short title of up to 45 characters is required as a running head.

Abstract. Each paper should commence with an accurate and informative abstract, written as a single paragraph. It should be complete in itself and intelligible without reference to the text or figures, and should not exceed 250 words.

Tables. Tables should be reduced to the simplest form, and should not duplicate information in the text or figures. They should be typed on separate pages, one page for each Table, at the end of the article and carry headings describing their content.

Illustrations. The original illustrations should accompany the submitted typescript. Text figures, line drawings, computergenerated figures and graphs should be of sufficient size and quality to allow for reduction by half or two-thirds. Half-tone photographs are acceptable where they clearly contribute to the text. All figures should be numbered and legends should be provided.

Note that authors will be charged 350 GBP for the publication of colour figures. Authors from countries entitled to free journal access through HINARI will be exempt from these charges.

References. References should be based on the numbered (Vancouver) system. When an article has more than ten authors, only the names of the first three should be given followed by et al.; give abbreviated journal titles and conform to the following styles:

Goel V, Cheema SK, Agellon LB, Ooraikul B & Basu TK (1999) Dietary rhubabrb (*Rheum rhaponticum*) stalk fibre stimulates cholesterol 7α-hydroxylase gene expression and bile acid excretion in cholesterol-fed C57BL/6J mice. *Br J Nutr* **81**, 65–71.

Jenkins DJ, Kendall CW, Marchie A, et al. (2003) The effect of combining plant sterols, soy protein, viscous fibres, and almonds in treating hypercholesterolemia. *Metabolism* **52**, 1478–1483.

Brandtzaeg P (2003) Role of local immunity and breastfeeding in mucosal homoeostasis and defence against infections. In *Nutrition and Immune Function*, pp. 273–320 [PC Calder, CJ Field and HS Gill, editors]. Wallingford, Oxon: CAB International.

Stock M & Rothwell NJ (1982) *Obesity and Leanness: Basic Aspects.* London: John Libbey.

Citations should be numbered consecutively in the order in which they first appear in the text using superscript Arabic numerals in parentheses, e.g. 'The conceptual difficulty of this approach has recently been highlighted^(1,2-4). If a reference is cited more than once the same number should be used each time.

Referees. Authors are asked to submit the names of up to four scientists who would be well-qualified to review the paper; however, no more than one such reviewer will be used. The email addresses and institutions of the named reviewers should be given.

Proofs. PDF page proofs will be emailed to authors for checking, and should be returned within 3 days (by fax or Express mail) to the BJN Production Editor, Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU, UK; fax +44 1223 325802, email bjnproduction@cambridge.org

Typescripts. The *British Journal of Nutrition* operates an on-line submission and reviewing system (eJournalPress). Authors should submit to the following address: http://bjn.msubmit.net/ If any difficulties are encountered please contact the Publications Office (details above) immediately.

Professor Philip Calder Editor-in-Chief British Journal of Nutrition The Nutrition Society 10 Cambridge Court 210 Shepherds Bush Road London W6 7NJ UK

Tel: +44 (0)20 7605 6555 Fax: +44 20 7602 1756

Email: edoffice@nutsoc.org.uk

BRITISH JOURNAL OF NUTRITION, VOLUME 108 - Number 2

Short Communication		Developmental Biology	
Reproducibility of 24-h post-exercise changes in energy intake in overweight and obese women using current methodology. G. L. Brown, M. E. Lean & C. R. Hankey	191–194	Maternal undernutrition during critical windows of development results in differential and sex-specific effects on postnatal adiposity and related metabolic profiles in adult rat offspring. G. J. Howie, D. M. Sloboda & M. H. Vickers	n 298–307
Molecular Nutrition			
Effect of dietary arginine on growth, intestinal enzyme activities and		Nutritional Immunology	
gene expression in muscle, hepatopancreas and intestine of juvenile Jian carp (<i>Cyprinus carpio</i> var. Jian). <i>G. Chen, L. Feng, S. Kuang, Y. Liu, J. Jiang, K. Hu, W. Jiang,</i> <i>S. Li, L. Tang & X. Zhou</i>	195–207	Daily intake of <i>Lactobacillus casei</i> Shirota increases natural killer cell activity in smokers. M. Reale, P. Boscolo, V. Bellante, C. Tarantelli, M. Di Nicola, L. Forcella, Q. Li, K. Morimoto & R. Muraro	308-314
The lipid-lowering effect of dietary proanthocyanidins in rats involves both chylomicron-rich and VLDL-rich fractions.		Human and Clinical Nutrition	
H. Quesada, S. Díaz, D. Pajuelo, A. Fernández-Iglesias, S. Garcia-Vallvé, G. Pujadas, M. J. Salvadó, L. Arola & C. Bladé	208–217	Oxidised fish oil does not influence established markers of oxidative stress in healthy human subjects: a randomised controlled trial.	
Regulation of glucose metabolism via hepatic forkhead transcription factor 1 (FoxO1) by <i>Morinda citrifolia</i> (noni) in high-fat diet-induced obese mice.		I. Ottestad, G. Vogt, K. Retterstøl, M. C. Myhrstad, JE. Haugen, A. Nilsson, G. Ravn-Haren, B. Nordvi, K. W. Brønner, L. F. Andersen, K. B. Holven & S. M. Ulven	315–326
P. V. Nerurkar, A. Nishioka, P. O. Eck, L. M. Johns, E. Volper & V. R. Nerurkar	218–228	Effect of <i>n</i> -3 fatty acids on patients with advanced lung cancer: a double-blind, placebo-controlled study.	
Luminal calcium concentration controls intestinal calcium absorption by modification of intestinal alkaline phosphatase activity. L. R. Brun, M. L. Brance & A. Rigalli	229–233	C. Finocchiaro, O. Segre, M. Fadda, T. Monge, M. Scigliano, M. Schena, M. Tinivella, E. Tiozzo, M. G. Catalano, M. Pugliese, N. Fortunati, M. Aragno, G. Muzio, M. Maggiora, M. Oraldi & R. A. Canuto	327–333
Effects of blackcurrant-based juice on atherosclerosis-related biomarkers in cultured macrophages and in human subjects after consumption of a high-energy meal. P. Huebbe, K. Giller, S. de Pascual-Teresa, A. Arkenau, B. Adolphi,	220 200	The effect of lutein- and zeaxanthin-rich foods ν . supplements on macular pigment level and serological markers of endothelial activation, inflammation and oxidation: pilot studies in healthy volunteers. R. Graydon, R. E. Hogg, U. Chakravarthy, I. S. Young & J. V. Woodside	334–342
S. Portius, C. N. Arkenau & G. Rimbach	234–244	Validation of the Malnutrition Universal Screening Tool (MUST) in cancer. C. Boléo-Tomé, I. Monteiro-Grillo, M. Camilo & P. Ravasco	343–348
Metabolism and Metabolic Studies		Pi-land Community of the Community of th	
Effects of added PGX®, a novel functional fibre, on the glycaemic index of starchy foods. J. C. Brand-Miller, F. S. Atkinson, R. J. Gahler, V. Kacinik, M. R. Lyon & S. Wood	245–248	Dietary Surveys and Nutritional Epidemiology Association between major patterns of dietary intake and weight status in adolescents. G. J. Cutler, A. Flood, P. J. Hannan, J. L. Slavin & D. Neumark-Sztainer	349–356
Effects of grape seed extract supplementation on exercise-induced oxidative stress in rats.	240-240	Survey of anaemia and <i>Helicobacter pylori</i> infection in adolescent girls in Suihua, China and enhancement of iron intervention effects	343-300
M. Belviranlı, H. Gökbel, N. Okudan & K. Başaralı High-dose supplemental selenite to male Syrian hamsters fed	249–256	by <i>H. pylori</i> eradication. W. Xia, X. Zhang, J. Wang, C. Sun & L. Wu	357–362
hypercholesterolaemic diets alters <i>LdIr</i> , <i>Abcg8</i> and <i>Npc1I1</i> mRNA expression and lowers plasma cholesterol concentrations.		Behaviour, Appetite and Obesity	
J. Poirier, K. A. Cockell, K. A. Scoggan, W. M. Nimal Ratnayake, H. Rocheleau, H. Gruber, E. Swist, P. Griffin, C. Gagnon & S. Kubow	257–266	Impact of age on leptin and adiponectin independent of adiposity. B. Schautz, W. Later, M. Heller, A. Peters, M. J. Müler & A. Bosy-Westphal	363–370
Manganese source affects manganese transport and gene expression of divalent metal transporter 1 in the small intestine of broilers. SP. Bai, L. Lu, RL. Wang, L. Xi, LY. Zhang & XG. Luo	267–276	European adolescents' level of perceived stress is inversely related to their diet quality: the Healthy Lifestyle in Europe by Nutrition in Adolescence study.	
Dietary nutrient composition affects digestible energy utilisation for growth: a study on Nile tilapia (<i>Oreochromis niloticus</i>) and a literature comparison across fish species.		T. De Vriendt, E. Ćlays, I. Huybrechts, I. De Bourdeaudhuij, L. A. Moreno, E. Patterson, D. Molnár, M. I. Mesana, L. Beghin, K. Widhalm, Y. Manios & S. De Henauw on behalf of the HELENA Study Group	371–380
J. W. Schrama, S. Saravanan, I. Geurden, L. T. N. Heinsbroek, S. J. Kaushik & J. A. J. Verreth	277–289		
Non-extractable proanthocyanidins from grapes are a source of bioavailable (epi)catechin and derived metabolites in rats. M. L. Mateos-Martín, J. Pérez-Jiménez, E. Fuguet & J. L. Torres	290–297	Cambridge Journals Online For further information about this journal please go to the journal website at: journals.cambridge.org/bjn	







