

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

British Journal of Nutrition
Volume 117, 2017 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 Fulfillment Department
1 Liberty Plaza
Floor 20
New York, NY 10006
USA

Publisher: Cambridge University Press

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 2017 comprise Volume 117, the twelve issues starting July 2017 comprise Volume 118.

Annual subscription rates:

Volumes 117/118 (24 issues):
Internet/print package £1547/\$3016/€2478
Internet only: £1075/\$2096/€1717

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.nutrition society.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™, 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 117 - Number 3

Molecular Nutrition

Attenuation of oxidative stress and cardioprotective effects of zinc supplementation in experimental diabetic rats
S. Barman & K. Srinivasan 335-350

Olive oil bioactive compounds increase body weight, and improve gut health and integrity in gilthead sea bream (*Sparus aurata*)
E. Gisbert, K. B. Andree, J. C. Quintela, J. A. Calduch-Giner, I. R. Ipharraguerre & J. Pérez-Sánchez 351-363

Metabolism and Metabolic Studies

Diet-induced milk fat depression is associated with alterations in ruminal biohydrogenation pathways and formation of novel fatty acid intermediates in lactating cows
L. Ventto, H. Leskinen, P. Kairenius, T. Stefariski, A. R. Bayat, J. Vilkki & K. J. Shingfield 364-376

Fetal and neonatal exposure to *trans*-fatty acids impacts on susceptibility to atherosclerosis in apo E*3 Leiden mice
L. Gates, S. C. Langley-Evans, J. Kraft, A. L. Lock & A. M. Salter 377-385

Efficacy of fibre additions to flatbread flour mixes for reducing post-meal glucose and insulin responses in healthy Indian subjects
H. M. Boers, K. MacAulay, P. Murray, R. Dobriyal, D. J. Mela & M. A. M. Spreeuwenberg 386-394

Human and Clinical Nutrition

Effects of almond consumption on the post-lunch dip and long-term cognitive function in energy-restricted overweight and obese adults
J. Dhillon, S.-Y. Tan & R. D. Mattes 395-402

Dietary fat and physiological determinants of plasma chylomicron remnant homeostasis in normolipidaemic subjects: insight into atherogenic risk
D. Irawati, J. C. L. Mamo, K. M. Slivkoff-Clark, M. J. Soares & A. P. James 403-412

Decomposition of body mass growth into linear and ponderal growth in children with application to India
A. R. Chaurasia 413-421

Dietary Surveys and Nutritional Epidemiology

Iodine intakes and status in Irish adults: is there cause for concern?
B. A. McNulty, A. P. Nugent, J. Walton, A. Flynn, C. Tlustos & M. J. Gibney 422-431

Glycaemic index, glycaemic load and risk of cutaneous melanoma in a population-based, case-control study
M. Malavolti, C. Malagoli, C. M. Crespi, F. Brighenti, C. Agnoli, S. Sieri, V. Krogh, C. Fiorentini, F. Farnetani, C. Longo, C. Ricci, G. Albertini, A. Lanzoni, L. Veneziano, A. Virgili, C. Pagliarello, C. Feliciani, P. A. Fanti, E. Dika, G. Pellacani & M. Vinceti 432-438

Global iodine status has improved: but we must not be complacent
L. Brough 439-440

Reliability of thyroglobulin in serum compared with urinary iodine when assessing individual and population iodine nutrition status
S. Andersen, P. Noahsen, L. Westergaard & P. Laurberg 441-449

The association between macronutrient intake and the metabolic syndrome and its components in type 1 diabetes
A. J. Ahola, V. Harjutsalo, L. M. Thorn, R. Freese, C. Forsblom, S. Mäkimattila & P.-H. Groop on behalf of the FinnDiane Study Group 450-456

Vitamin D deficiency and sufficiency among Canadian children residing at high latitude following the revision of the RDA of vitamin D intake in 2010
L. L. Munasinghe, Y. Yuan, N. D. Willows, E. L. Fought, J. P. Ekwaru & P. J. Veugelers 457-465

Maternal use of dietary supplements during pregnancy is not associated with coeliac disease in the offspring: The Environmental Determinants of Diabetes in the Young (TEDDY) study
J. Yang, R. N. Tamura, C. A. Aronsson, U. M. Uusitalo, Å. Lernmark, M. Rewers, W. A. Hagopian, J.-X. She, J. Toppari, A. G. Ziegler, B. Akolkar, J. P. Krischer, J. M. Norris, S. M. Virtanen & D. Agardh and The Environmental Determinants of Diabetes in The Young study group 466-472

Innovative Techniques

Methods for simulating nutritional requirement and response studies with all organisms to increase research efficiency
D. Vedenov, R. A. Alhotan, R. Wang & G. M. Pesti 473-477

Letter to the Editor

Dietary intervention and cognitive performance in patients with type 2 diabetes
T. Kawada 478-478

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