

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

British Journal of Nutrition
Volume 126, 2021 ISSN: 0007-1145

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

Cambridge University Press
Journals Fulfillment Department
University Printing House, 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 2021 comprise Volume 125, the twelve issues starting July 2021 comprise Volume 126.

Annual subscription rates:

Volumes 125/126 (24 issues):
Internet/print package £1676/\$3268
Internet only: £1164/\$2271

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 Great Britain 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.

Metabolism and Metabolic Studies

Inulin alleviates adverse metabolic syndrome and regulates intestinal microbiota composition in Nile tilapia (*Oreochromis niloticus*) fed with high-carbohydrate diet
Tong Wang, Ning Zhang, Xiao-Bo Yu, Fang Qiao, Li-Qiao Chen, Zhen-Yu Du and Mei-Ling Zhang 161

DHA from microalgae *Schizochytrium* spp. (Thraustochytriaceae) modifies the inflammatory response and gonadal lipid profile in domestic cats
Suellen Scheibel, Carlos Antônio Lopes de Oliveira, Marianne de Alvarenga Boyd, Layne Carolina Pereira, Darilha Mariana Rodrigues, Mariana Regina Lingardi Barion, Fabiana Carbonera, Jesuí Virgílio Visentainer, Rafael Ricardo Huppes, Leonir Bueno Ribeiro and Ricardo Souza Vasconcellos 172

The effect of cranberry consumption on lipid metabolism and inflammation in human apo A-I transgenic mice fed a high-fat and high-cholesterol diet
Christian Caceres, Mi-Bo Kim, Minkyung Bae, Tho X. Pham, Yoojin Lee, Siqi Hu, Edward N. O'Neill, Bohkyung Kim, Young-Ki Park and Ji-Young Lee 183

Nutritional Immunology

Vitamin K metabolism as the potential missing link between lung damage and thromboembolism in Coronavirus disease 2019
Rob Janssen, Margot P. J. Visser, Anton S. M. Dofferhoff, Cees Vermeer, Wim Janssens and Jona Walk 191

Nutritional Toxicity

Ginger and turmeric lipid-solubles attenuate heated oil-induced cardio-hepatic oxidative stress via the up-regulation of nuclear factor erythroid 2-related factor 2 and decrease blood pressure in rats
Mehrddad Zarei, Pooja Acharya and Ramaprasad Ravichandra Talahalli 199

Human and Clinical Nutrition

Screening dietary fibres for fermentation characteristics and metabolic profiles using a rapid *in vitro* approach: implications for irritable bowel syndrome
Daniel So, Chu K. Yao, Paul A. Gill, Naresh Pillai, Peter R. Gibson and Jane G. Muir 208

Mechanisms linking the human gut microbiome to prophylactic and treatment strategies for COVID-19
Gemma E. Walton, Glenn R. Gibson and Kirsty A. Hunter 219

Changes in human milk fatty acid composition and maternal lifestyle-related factors over a decade: a comparison between the two Ulm Birth Cohort Studies
Linda P. Siziba, Leonie Lorenz, Hermann Brenner, Prudence Carr, Bernd Stahl, Marko Mank, Tamás Marosvölgyi, Tamás Decsi, Éva Szabó, Dietrich Rothenbacher and Jon Genuneit 228

Dietary diversity scores, nutrient intakes and biomarkers vitamin B₁₂, folate and Hb in rural youth from the Pune Maternal Nutrition Study
A. V. Ganpule-Rao, D. Bhat, C. S. Yajnik and E. Rush 236

A novel *n-3* glyceride mixture enhances enrichment of EPA and DHA after single dosing in healthy older adults: results from a double-blind crossover trial
Helena L. Fisk, Grete M. Kindberg, Svein O. Hustvedt and Philip C. Calder 244

Dietary strawberry improves cognition in a randomised, double-blind, placebo-controlled trial in older adults
Marshall G. Miller, Nopporn Thangthaeng, Grant A. Rutledge, Tammy M. Scott and Barbara Shukitt-Hale 253

Dietary Surveys and Nutritional Epidemiology

Identification of psychological correlates of dietary misreporting under laboratory and free-living environments
Mark Hopkins, Joanna Michalowska, Stephen Whybrow, Graham W. Horgan and R. James Stubbs 264

Skipping breakfast is associated with the presence of cardiometabolic risk factors in adolescents: Study of Cardiovascular Risks in Adolescents – ERICA
Marielly Rodrigues de Souza, Morgana Egle Alves Neves, Amanda de Moura Souza, Ana Paula Muraro, Rosângela Alves Pereira, Márcia Gonçalves Ferreira and Paulo Rogério Melo Rodrigues 276

Factors associated with the inflammatory potential of the Brazilian population's diet
Natália Oliveira Pereira, Carolina Abreu de Carvalho, Naiara Sperandio, Karla Danielle Silva Marques, Poliana Cristina de Almeida Fonseca Viola, Nitin Shivappa, James R. Hébert and Ana Karina Teixeira da Cunha França 285

Predictors of vegetable consumption in children and adolescents: analyses of the UK National Diet and Nutrition Survey (2008–2017)
Liam R. Chawner, Pam Blundell-Birtill and Marion M. Hetherington 295

Relative validity and reliability of a novel diet quality assessment tool for athletes: the Athlete Diet Index
Louise Capling, Janelle A. Gifford, Kathryn L. Beck, Victoria M. Flood, Fiona Halar, Gary J. Slater and Helen T. O'Connor 307

Erratum

Dietary strawberry improves cognition in a randomised, double-blind, placebo-controlled trial in older adults – ERRATUM
M. G. Miller, N. Thangthaeng, G. A. Rutledge, T. M. Scott and B. Shukitt-Hale 320

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