

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

British Journal of Nutrition

Volume 133, 2025 ISSN: 0007-1145

Publishing, Production, Marketing, and Subscription Sales Office:

Cambridge University Press & Assessment
Journals Fulfillment Department
University Printing House, Shaftesbury Road
Cambridge CB2 8EA, UK

For Customers in North America:

Cambridge University Press & Assessment
Journals Fulfillment Department
1 Liberty Plaza
Floor 20
New York, NY 10006
USA

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 2025 comprise Volume 133, the twelve issues starting July 2025 comprise Volume 134.

Annual subscription rates:

Volumes 133/134 (24 issues):
Internet/print package £2111/\$4115
Internet only: £1377/\$2687

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 & Assessment, 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.nutritionociety.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 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, published by Cambridge University Press on behalf of the Nutrition Society

Printed and bound by CPI Group (UK) Ltd, Croydon, CR0 4YY

Volume: 133 Number: 2

MOLECULAR NUTRITION

Effects of *n*-3 very-long-chain PUFA on bone mineralisation
Martina Torrisen, Elisabeth Ytteborg, Harald Svensen,
Tone-Kari Østbye, Gerd Berge, Sjur Reppe, Aleksei Krasnov
and Bente Ruyter

145

METABOLISM AND METABOLIC STUDIES

Effects of multi-species synbiotic supplementation
on circulating miR-27a, miR-33a levels and lipid
parameters in adult men with dyslipidaemia; a randomised,
double-blind, placebo-controlled clinical trial
Shekoufeh Salamat, Alireza Jahan-Mihan, Mohammad Reza
Tabandeh and Anahita Mansoori

161

Skinny fat model of metabolic syndrome induced by a
high-salt/sucrose diet in young male rats
Keilah Valéria Naves Cavalcante, Marcos Divino
Ferreira-Junior, Marina Conceição dos Santos Moreira,
Stefanne Madalena Marques, James Oluwagbamigbe
Fajemiroye, Rosiane Aparecida Miranda, Patrícia Cristina
Lisboa, Egberto Gaspar de Moura, Carlos Henrique Xavier,
Eduardo Colombari, Rodrigo Mello Gomes, and
Gustavo Rodrigues Pedrino

171

Nutrient digestion efficiency: a comparison between broiler
chickens and growing pigs fed maize, barley and oats-based
diets with an emphasis on starch

Lucas S. Bassi, Marcin Hejdysz, Ewa Pruszyńska-Oszmałek,
Paweł A. Kołodziejwski, Aaron J. Cowieson, Sebastian
A. Kaczmarek and Birger Svihus

182

Fetal dependency on maternal fatty acids: a pilot study in
human pregnancies using the natural abundance variation
of ¹³C

Simonato Manuela, Verlatto Giovanna, Visentin Silvia,
Erich Cosmi, Anna Sartori, Pieter Sauer, Alessio Correani,
Cogo Paola and Carnielli Virgilio

194

Relationship between the ratio of increase in lean tissue
to body weight gain and energy required to gain body
weight in growing rats

Kiyora Obikawa, Mizuki Kitaguchi, Emi Kondo and Koji Okamura

202

NUTRITIONAL TOXICITY

Comment on 'Sarcopenic obesity in patients with head
and neck cancer is predictive of critical weight loss during
radiotherapy'

Erkan Topkan, Efsun Somay, Duriye Ozturk and Ugur Selek

211

HUMAN AND CLINICAL NUTRITION

The effect of coenzyme Q10 pretreatment on ovarian reserve in
women undergoing hysterectomy with bilateral salpingectomy:
a randomised, double-blind, placebo-controlled trial

Kanockpetch Micaraseth, Siriluk Tantanavipas,
Woradej Hongsakorn and Artitaya Singwongsa

213

The role of *n*-3 fatty acids in acute pancreatitis
Binbin Tang, Wenyang Zhang, Ajun Gu, Yangde Miao
and Guang Yu

221

Turkish version of the renal inpatient nutrition screening
tool: validity and reliability for haemodialysis patients
Nursena Ersoy Söke, Emine Karademir, Ebru Bayrak,
Muslu Kazım Körez and Hülya Yardımcı

231

Evaluation of serum total antioxidant level, nutritional
status and Mediterranean diet adherence of adult
women with rheumatoid arthritis: a case-control study
Cansu Bekar, Berkan Armagan, Alper Sari and Aylin Ayaz

239

Prognostic value of the Global Leadership Initiative on
Malnutrition criteria including systemic inflammation in
patients with advanced cancer

Bruna M. M. Rocha, Josh McGovern, Carlos E. Paiva,
Ross D. Dolan, Bianca S. R. Paiva, Daniel D. Preto,
Barry J. Laird, Yara C. P. Maia and Donald C. McMillan

246

DIETARY SURVEYS AND NUTRITIONAL EPIDEMIOLOGY

Foods provided at shelters during a heavy rain disaster:
comparison of weighed food records between different
numbers of days

Hiroka Sato, Noriko Sudo, Sayaka Nagao-Sato and
Nobuyo Tsuboyama-Kasaoka

253

Diet quality from mid-life and body composition in
older age: findings from a British birth cohort

Leo D. Westbury, Ruth Durdin, Sian M. Robinson,
Cyrus Cooper, Rachel Cooper and Kate A. Ward

262

BEHAVIOUR, APPETITE AND OBESITY

Tryptophan regulates food intake in growing pigs by
modulating hypothalamic AMPK-mTOR signalling pathway

Juexin Fan, Yuezhou Yao, Leli Wang, Feiyue Chen,
Zhenguo Hu, Kaihuan Xie, Shuzhong Jiang and
Xiongzhuo Tang

269

Effects of a six-day, whole-diet sweet taste intervention
on pleasantness, desire for and intakes of sweet foods:
a randomised controlled trial

Aleksandra D. Bielat, Peter J. Rogers and
Katherine M. Appleton

277