

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

British Journal of Nutrition
Volume 132, 2024 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 2024 comprise Volume 131, the twelve issues starting July 2024 comprise Volume 132.

Annual subscription rates:

Volumes 131/132 (24 issues):
Internet/print package £1955/\$3810
Internet only: £1296/\$2529

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: 132 Number: 7

METABOLISM AND METABOLIC STUDIES

Mating behaviour and cholesterol nutritional strategies promoted ovarian development of female swimming crab (*Portunus trituberculatus*)
Tingting Zhu, Min Jin, Jiaxiang Luo, Yuhang Yang, Xiangkai Li, Hongyu Peng, Yuedong Shen and Qicun Zhou 835

Serum concentrations of lipids, ketones and acylcarnitines during the postprandial and fasting state: the Postprandial Metabolism (PoMet) study in healthy young adults
Åslaug Matre Anfinssen, Vilde Haugen Myklebust, Christina Osland Johannesen, Jacob Juel Christensen, Johnny Laupsa-Borge, Jutta Dierkes, Ottar Nygård, Adrian McCann, Hanne Rosendahl-Riise and Vegard Lysne 851

NUTRITIONAL ENDOCRINOLOGY

Neonatal undernutrition induced by litter size expansion alters testicular parameters in adult *Wistar* rats
Ana Camila Ferreira Menezes, Ana Luiza Machado Wunderlich, Karen Gomes Luiz, Giovanna Fachetti Frigoli, Ivana Regina D Costa, Larissa Rugila dos Santos Stopa, Camila Franciele Souza, Rhauany Pelisson Guergolette, Polyana Keiko Shishido, Ana Beatriz Oliveira Aquino, Simone Forcato, Daniela Cristina Ceccatto Gerardin, Cássia Thais Bussamra Vieira Zaia, Ernane Torres Uchoa and Glaura Scantamburlo Alves Fernandes 862

Influence of N- and/or P-restriction on bone metabolism in young goats
Luisa S. Zillinger, Annette Liesegang, Karin Hustedt, Nadine Schnepel, Helga Sauerwein, Marion Schmicke, Cornelia Schwennen and Alexandra S. Muscher-Banse 874

HUMAN AND CLINICAL NUTRITION

Accuracy of the international growth charts to diagnose obesity according to the body composition analysis in US children and adolescents
Mariane Helen de Oliveira, Camila Medeiros da Silva Mazzeti, Joana Araújo, Milton Severo, Débora Borges dos Santos Pereira and Wolney Lisboa Conde 887

Overview of anti-inflammatory diets and their promising effects on non-communicable diseases
Xiaoping Yu, Haomou Pu and Margaret Voss 898

The effects of conjugated linoleic acid supplementation on cardiovascular risk factors in patients at risk of cardiovascular disease: A GRADE-assessed systematic review and dose-response meta-analysis
Maryam Esmaeilnejad, Niloufar Rasaei, Kian Goudarzi, Zahra Behrouz Dehkordi, Sina Dolatshahi, Hossein Salehi Omran, Niusha Amirani, Dameron Ashtary-Larky, Ghazaleh Shimi and Omid Asbaghi 919

DIETARY SURVEYS AND NUTRITIONAL EPIDEMIOLOGY

Association between dietary fatty acids and depressive symptoms in Chinese haemodialysis patients: a cross-sectional study
Shuang Zhang, Shu-Xin Liu, Qi-Jun Wu, Zhi-Hong Wang, Hong Liu, Ping Xiao, Yan Lu, Cui Dong and Qing-Mei Meng 935

The concentration of hemoglobin is associated with the dietary iron availability, food insecurity and the use of oral contraceptives among women in socially vulnerable areas of a capital city in northeastern Brazil
Thays Lane Ferreira dos Santos, Terezinha da Rocha Ataíde, Eduardo De Carli, Nassib Bezerra Bueno, Gabriel Soares Bádue, Telma Maria de Menezes Toledo Florêncio and Luiz Gonzaga Ribeiro Silva-Neto 946

What are the changes in mothers' diets after the birth of a child: results from the NutriNet-Santé cohort
Joséphine Brunin, Julia Baudry, Benjamin Allès, Manel Ghzal, Mathilde Touvier, Serge Hercberg, Denis Lairon, Blandine de Lauzon Guillaín and Emmanuelle Kesse-Guyot 956

Choline and betaine intakes during pregnancy in relation to risk of gestational diabetes mellitus among Chinese women
Kallie Lamkin, Lan Xu, Kaipeng Wang, Yuhong Liu, Kefeng Yang, Hui Wu, Lingpeng Lu, Xiaoxi Shen, Cassandra M. Johnson, Jie Jia and Jie Zhu 971