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 Fullfillment 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.nutritionsociety.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 FSCTM-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.

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: 12

MOLECULAR NUTRITION		Sex-specific association between later circadian timing of	
Minimally processed foods have a higher total antioxidant content compared to processed and ultra-processed foods: results from an analysis of 1946 food items Anthony J. Basile, Anaissa Ruiz-Tejada, Alex E. Mohr, Steven Stanley, Ellinor Hjelm and Karen L. Sweazea	1555	food intake and adiposity among Chinese young adults living in real-world settings Yan Huang, Yu-xiang Xu, Yu-ting Shen, Yi Zhou, Yu-hui Wan, Fang-biao Tao and Ying Sun	1629
		DIETARY SURVEYS AND NUTRITIONAL EPIDEMIOLOGY	
METABOLISM AND METABOLIC STUDIES		Prospective association between the Cardiovascular Health	
Exploring the impact of caloric restriction on molecular mechanisms of liver damage induced by sucrose intake in the drinking water Morena Wiszniewski, Lilian Caldareri, Diego Mori, Camila Martinez Calejman, Cora B. Cymeryng and Esteban M. Repetto	1562	Diet Index and subclinical atherosclerosis: the Brazilian Longitudinal Study of Adult Health (ELSA-Brasil) cohort study Leandro Teixeira Cacau, Mariane de Almeida Alves, Itamar de Souza Santos, Giuliano Generoso, Márcio Sommer Bittencourt, Paulo Andrade Lotufo, Isabela Martins Benseñor and Dirce Maria Lobo Marchioni	1637
NUTRITIONAL ENDOCRINOLOGY		Coffee consumption with different additives and types, genetic variation in caffeine metabolism and new-onset	
Association between total vitamin C intake and hypothyroidism among Hashimoto thyroiditis: National Health and Nutrition Examination Survey, 2007–2012 Lin Chen, Yaqian Mao and Gang Chen	1575	acute kidney injury Ziliang Ye, Mengyi Liu, Sisi Yang, Yanjun Zhang, Yuanyuan Zhang, Panpan He, Chun Zhou, Xiaoqin Gan, Hao Xiang, Yu Huang, Fan Fan Hou and Xianhui Qin	1645
Association of dietary manganese intake and the <i>IL1R1</i> rs3917225 polymorphism with thyroid cancer risk: a prospective cohort study in Korea Tao Thi Tran, Ha Thi Mien Nguyen, Madhawa Gunathilake, Jeonghee Lee and Jeongseon Kim		Prevalence of cardiometabolic diseases in underweight: a nationwide cross-sectional study Meng Chen, Shuxiao Shi, Sujing Wang, Yue Huang, Feng Zhou and Victor W. Zhong	1654
	1584	Relative validity of three diet quality scores derived from the Brief-type Self-administered Diet History Questionnaire	
HUMAN AND CLINICAL NUTRITION		and Meal-based Diet History Questionnaire in Japanese adults	
Associations of linear growth with body composition of perinatally HIV-infected African adolescents Suzanne Filteau, Victoria Simms, Molly Chisenga, Cynthia Kahari, Nyasha Dzavakwa, Cassandra Namukonda, Kate A. Ward, Lackson Kasonka, Celia L. Gregson and Jonathan Wells	1593	Fumi Oono, Kentaro Murakami, Nana Shinozaki, Nana Kimoto, Shizuko Masayasu and Satoshi Sasaki Dietary total antioxidant capacity is closely associated with skeletal muscle mass: a cross-sectional study Jie Zhang, Wendong Fang, Shuiping Chen and Lu Wang	1663 1674
Probiotics' supplementation alleviates disease severity and		BEHAVIOUR, APPETITE AND OBESITY	
improves postural balance by repairing intestinal leak in patients suffering from osteoarthritis: a double-blinded clinical trial Asima Karim, Haroon Ahmed Khan, M. Shahid Iqbal, Firdos Ahmad and Rizwan Qaisar Comparison of weight loss induced by dietary and pharmaceuticals in individuals with overweight and obesity: a retrospective study	1602	Temporal patterns of energy intake and physical activity and cross-sectional associations with body weight status in children and adolescents: results from the Portuguese National Food, Nutrition and Physical Activity Survey 2015–2016 Sofia Cardoso, Inês Sanches, Daniela Correia and Sofia Vilela	1684
Lei-lei Wang, Ling-ling Wang, Xiao-chen Liu, Hai-ying Hu, Hong-xia Li, Wei Wei, Qin Du and Hui-hui Yan	1611	CORRIGENDUM	
Associations of fat and fat-free mass at birth and accretion from 0 to 5 years with cognitive function at later childhood: the Ethiopian infant anthropometry and body composition birth cohort Rahma Ali, Beakal Zinab, Bikila S. Megersa, Daniel Yilma, Tsinuel Girma, Bitiya Admassu, Suzanne Filteau, Henrik Friis, Jonathan C. K. Wells, Akanksha A. Marphatia,		Causal associations of tea consumption on risk of pancreatic adenocarcinoma and the mediating role of vascular endothelial growth factor D levels – CORRIGENDUM Yonghao Ouyang, Beini Zhou, Lihua Chu, Xin Chen, Qiang Hao and Jiajia Lei	1698
Mette F. Olsen, Rasmus Wibaek and Mubarek Abera	1621		





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