

Directions to Contributors can be found at [journals.cambridge.org/bjn](http://journals.cambridge.org/bjn)

## British Journal of Nutrition

Volume 123, 2020 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](mailto: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 2020 comprise Volume 123, the twelve issues starting July 2020 comprise Volume 124.

### Annual subscription rates:

Volumes 123/124 (24 issues):  
Internet/print package £1627/\$3172  
Internet only: £1130/\$2204

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.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 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](http://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.

**Molecular Nutrition**

Effect of glucose, soya oil and glutamine on protein expression and mammalian target of rapamycin complex 1 pathway of jejunal crypt enterocytes in weaned piglets  
Xia Xiong, Ding-Hong Lv, Yan-Hong Liu, Min-Ho Song, Li-Jun Zou, Ding-Fu Xiao and Yu-Long Yin 481

Seryl-tRNA synthetase is involved in methionine stimulation of  $\beta$ -casein synthesis in bovine mammary epithelial cells  
Wenting Dai, Fengqi Zhao, Jianxin Liu and Hongyun Liu 489

Arginine promotes porcine type I muscle fibres formation through improvement of mitochondrial biogenesis  
Xiaoling Chen, Xiaoming Luo, Daiwen Chen, Bing Yu, Jun He and Zhiqing Huang 499

**Metabolism and Metabolic Studies**

Crude extract of *Camellia oleifera* pomace ameliorates the progression of non-alcoholic fatty liver disease via decreasing fat accumulation, insulin resistance and inflammation  
Wan-Ju Yeh, Jung Ko, Wen-Chih Huang, Wei-Yi Cheng and Hsin-Yi Yang 508

The effects of myo-inositol and probiotic supplementation in a high-fat-fed preclinical model of glucose intolerance in pregnancy  
J. F. Plows, J. M. Ramos Nieves, F. Budin, K. Mace, C. M. Reynolds, M. H. Vickers, I. Silva-Zolezzi, P. N. Baker and J. L. Stanley 516

Circadian misalignment imposed by nocturnal feeding tends to increase fat deposition in pigs  
Rik J. J. van Erp, Sonja de Vries, Theo A. T. G. van Kempen, Leo A. Den Hartog and Walter J. J. Gerrits 529

Hydrogen produced in rat colon improves *in vivo* reduction-oxidation balance due to induced regeneration of  $\alpha$ -tocopherol  
Yosuke Ishida, Shingo Hino, Tatsuya Morita, Saiko Ikeda and Naomichi Nishimura 537

**Human and Clinical Nutrition**

The glycation level of milk protein strongly modulates post-prandial lysine availability in humans  
Jean Nyakayiru, Glenn A. A. van Lieshout, Jorn Trommelen, Janneau van Kranenburg, Lex B. Verdijk, Marjolijn C. E. Bragt and Luc J. C. van Loon 545

Increased consumption of calcium from fat-free milk, energy-restricted diet and educational activities improves metabolic control in overweight type 2 diabetic patients  
Jorge de Assis Costa, Júnia Maria Geraldo Gomes, Priscila Vaz de Melo Ribeiro and Rita de Cássia Gonçalves Alfenas 553

**Dietary Surveys and Nutritional Epidemiology**

Legume consumption and risk of hypertension in a prospective cohort of Chinese men and women  
Fang Guo, Qiang Zhang, Yue Yin, Yan Liu, Hong Jiang, Ni Yan, Jing Lin, Xiao-hong Liu and Le Ma 564

Association of supplemental calcium and dairy milk intake with all-cause and cause-specific mortality in the UK Biobank: a prospective cohort study  
L. C. Stasinopoulos, A. Zhou and E. Hyppönen 574

Metabolically healthy general and abdominal obesity are associated with increased risk of hypertension  
Yang Zhao, Pei Qin, Haohang Sun, Yu Liu, Dechen Liu, Qionggui Zhou, Chunmei Guo, Quanman Li, Gang Tian, Xiaoyan Wu, Dongsheng Hu, Xizhuo Sun and Ming Zhang 583

**Behaviour, Appetite and Obesity**

Post-moderate-intensity exercise energy replacement does not reduce subsequent appetite and energy intake in adolescents with obesity  
D. Thivel, J. Roche, M. Miguet, A. Fillon, M. Khammassi, K. Beaulieu, G. Finlayson, B. Pereira, M. Miyashita, A. E. Thackray, J. Masurier, M. Duclos and Y. Boirie 592

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