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

British Journal of Nutrition

Volume 125, 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 Fullfillment 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.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 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 TM, Global Health, BIOSIS® Database, EMBASE/Excerpta Medica and Elsevier BIOBASE/Current Awareness in Biological Sciences, CINAHL, and Chemical Abstracts Service.

BRITISH JOURNAL OF NUTRITION, VOLUME 125 - Number 6

Association of fibre degradation with ruminal dissolved hydrogen in growing beef bulls fed with two types of forages Rong Wang, Min Wang, Bo Lin, Zhi Yuan Ma, Emilio M. Ungerfeld, Ting Ting Wu, Jiang Nan Wen, Xiu Min Zhang, Jin Ping Deng and Zhi Liang Tan The interaction between energy intake, physical activity and UCP2 -866G/A gene variation on weight gain and changes in adiposity: an Indonesian Nutrigenetic Cohort (INDOGENIC) Harry Freitag Luglio Muhammad, Dian Caturini Sulistyoningrum, Emy Huriyati, Yi Yi Lee and Wan Abdul Manan Wan Muda Selenium and viral infection: are there lessons for COVID-19? Giovanna Bermano, Catherine Méplan, Derry K. Mercer and John E. Hesketh Obesity, COVID-19 and innate immunometabolism Laura E. Gleeson, Helen M. Roche and Frederick J. Sheedy Metabolism and Metabolic Studies 1H NMR metabolomic and transcriptomic analyses reveal urinary metabolites as biomarker candidates in response to protein undernutrition in adult rats Yosuke Komatsu, Yasuaki Wada, Hirohisa Izumi, Takashi Shimizu, Yasuhiro Takeda and Tomoyasu Aizawa Human and Clinical Nutrition The effect of magnesium supplementation on anthropometric indices: a systematic review and dose—response meta-analysis of clinical trials Masoumen Rafiee, Abed Ghavami, Ali Rashidian, Amir Hadi and Gholamreza Askari	
and Zhi Liang Tan The interaction between energy intake, physical activity and UCP2-866G/A gene variation on weight gain and changes in adiposity: an Indonesian Nutrigenetic Cohort (INDOGENIC) Harry Freitag Luglio Muhammad, Dian Caturini Sulistyoningrum, Emy Huriyati, Yi Yi Lee and Wan Abdul Manan Wan Muda Selenium and viral infection: are there lessons for COVID-19? Giovanna Bermano, Catherine Méplan, Derry K. Mercer and John E. Hesketh Obesity, COVID-19 and innate immunometabolism Laura E. Gleeson, Helen M. Roche and Frederick J. Sheedy Metabolism and Metabolic Studies 1H NMR metabolomic and transcriptomic analyses reveal urinary metabolites as biomarker candidates in response to protein undernutrition in adult rats Yosuke Komatsu, Yasuaki Wada, Hirohisa Izumi, Takashi Shimizu, Yasuhiro Takeda and Tomoyasu Aizawa Human and Clinical Nutrition The effect of magnesium supplementation on anthropometric indices: a systematic review and dose—response meta-analysis of clinical trials Masoumeh Rafiee, Abed Ghavami, Ali Rashidian, Amir Hadi	
UCP2-866G/A gene variation on weight gain and changes in adiposity: an Indonesian Nutrigenetic Cohort (INDOGENIC) Harry Freitag Luglio Muhammad, Dian Caturini Sulistyoningrum, Emy Huriyati, Yi Yi Lee and Wan Abdul Manan Wan Muda Selenium and viral infection: are there lessons for COVID-19? Giovanna Bermano, Catherine Méplan, Derry K. Mercer and John E. Hesketh Obesity, COVID-19 and innate immunometabolism Laura E. Gleeson, Helen M. Roche and Frederick J. Sheedy Metabolism and Metabolic Studies 1H NMR metabolomic and transcriptomic analyses reveal urinary metabolites as biomarker candidates in response to protein undernutrition in adult rats Yosuke Komatsu, Yasuaki Wada, Hirohisa Izumi, Takashi Shimizu, Yasuhiro Takeda and Tomoyasu Aizawa Human and Clinical Nutrition The effect of magnesium supplementation on anthropometric indices: a systematic review and dose—response meta-analysis of clinical trials Masoumeh Rafiee, Abed Ghavami, Ali Rashidian, Amir Hadi	601
Selenium and viral infection: are there lessons for COVID-19? Giovanna Bermano, Catherine Méplan, Derry K. Mercer and John E. Hesketh Obesity, COVID-19 and innate immunometabolism Laura E. Gleeson, Helen M. Roche and Frederick J. Sheedy Metabolism and Metabolic Studies 1H NMR metabolomic and transcriptomic analyses reveal urinary metabolites as biomarker candidates in response to protein undernutrition in adult rats Yosuke Komatsu, Yasuaki Wada, Hirohisa Izumi, Takashi Shimizu, Yasuhiro Takeda and Tomoyasu Aizawa Human and Clinical Nutrition The effect of magnesium supplementation on anthropometric indices: a systematic review and dose—response meta-analysis of clinical trials Masoumeh Rafiee, Abed Ghavami, Ali Rashidian, Amir Hadi	611
Obesity, COVID-19 and innate immunometabolism Laura E. Gleeson, Helen M. Roche and Frederick J. Sheedy Metabolism and Metabolic Studies H NMR metabolomic and transcriptomic analyses reveal urinary metabolites as biomarker candidates in response to protein undernutrition in adult rats Yosuke Komatsu, Yasuaki Wada, Hirohisa Izumi, Takashi Shimizu, Yasuhiro Takeda and Tomoyasu Aizawa Human and Clinical Nutrition The effect of magnesium supplementation on anthropometric indices: a systematic review and dose—response meta-analysis of clinical trials Masoumeh Rafiee, Abed Ghavami, Ali Rashidian, Amir Hadi	618
Laura É. Gleeson, Helen M. Roche and Frederick J. Sheedy Metabolism and Metabolic Studies H NMR metabolomic and transcriptomic analyses reveal urinary metabolites as biomarker candidates in response to protein undernutrition in adult rats Yosuke Komatsu, Yasuaki Wada, Hirohisa Izumi, Takashi Shimizu, Yasuhiro Takeda and Tomoyasu Aizawa Human and Clinical Nutrition The effect of magnesium supplementation on anthropometric indices: a systematic review and dose—response meta-analysis of clinical trials Masoumeh Rafiee, Abed Ghavami, Ali Rashidian, Amir Hadi	010
¹ H NMR metabolomic and transcriptomic analyses reveal urinary metabolites as biomarker candidates in response to protein undernutrition in adult rats Yosuke Komatsu, Yasuaki Wada, Hirohisa Izumi, Takashi Shimizu, Yasuhiro Takeda and Tomoyasu Aizawa **Human and Clinical Nutrition** The effect of magnesium supplementation on anthropometric indices: a systematic review and dose—response meta-analysis of clinical trials Masoumeh Rafiee, Abed Ghavami, Ali Rashidian, Amir Hadi	628
metabolites as biomarker candidates in response to protein undernutrition in adult rats Yosuke Komatsu, Yasuaki Wada, Hirohisa Izumi, Takashi Shimizu, Yasuhiro Takeda and Tomoyasu Aizawa Human and Clinical Nutrition The effect of magnesium supplementation on anthropometric indices: a systematic review and dose—response meta-analysis of clinical trials Masoumeh Rafiee, Abed Ghavami, Ali Rashidian, Amir Hadi	
undernutrition in adult rats Yosuke Komatsu, Yasuaki Wada, Hirohisa Izumi, Takashi Shimizu, Yasuhiro Takeda and Tomoyasu Aizawa Human and Clinical Nutrition The effect of magnesium supplementation on anthropometric indices: a systematic review and dose—response meta-analysis of clinical trials Masoumeh Rafiee, Abed Ghavami, Ali Rashidian, Amir Hadi	
Yasuhiro Takeda and Tomoyasu Aizawa **Human and Clinical Nutrition** The effect of magnesium supplementation on anthropometric indices: a systematic review and dose—response meta-analysis of clinical trials Masoumeh Rafiee, Abed Ghavami, Ali Rashidian, Amir Hadi	
The effect of magnesium supplementation on anthropometric indices: a systematic review and dose—response meta-analysis of clinical trials Masoumeh Rafiee, Abed Ghavami, Ali Rashidian, Amir Hadi	633
indices: a systematic review and dose—response meta-analysis of clinical trials Masoumeh Rafiee, Abed Ghavami, Ali Rashidian, Amir Hadi	
	644
Influence of <i>n</i> -3 fatty acid supplementation on inflammatory and oxidative stress markers in patients with polycystic ovary syndrome: a systematic review and meta-analysis	
Jéssica A. G. Tosatti, Michelle T. Alves, Ana L. Cândido, Fernando M. Reis, Vânia E. Araújo and Karina B. Gomes	

Nocturnal whey protein ingestion impairs post-prandial glucose tolerance at breakfast Eleanor S. Smith, Emmanuel Adama, Keeley Clayton, James Holbrey, Gabriel Palubiski, Harry A. Smith, Javier T. Gonzalez and James A. Betts	669
utritional status of micronutrients as a possible and modifiable sk factor for COVID-19: a UK perspective avid P. Richardson and Julie A. Lovegrove	678
Dietary Surveys and Nutritional Epidemiology	
Longitudinal dimensions of alcohol consumption and dietary intake in the Framingham Heart Study Offspring Cohort (1971–2008) Niyati Parekh, Yong Lin, Melany Chan, Filippa Juul and Nour Makarem	685
Association between coffee consumption and functional disability in older US adults Tong Wang, Yili Wu, Weijing Wang and Dongfeng Zhang	695
Association of organic food consumption with obesity in a nationally representative sample Corentin J. Gosling, Aurélie Goncalves, Mickaël Ehrminger and Richard Valliant	703
Association between consumption frequency of honey and non-alcoholic fatty liver disease: results from a cross-sectional analysis based on the Tianjin Chronic Low-grade Systemic Inflammation and Health (TCLSIH) Cohort Study Shunming Zhang, Xiaohui Wu, Shanshan Bian, Qing Zhang, Li Liu, Ge Meng, Zhanxin Yao, Hongmei Wu, Yeqing Gu, Yawen Wang,	, , , ,
Shaomei Sun, Xing Wang, Ming Zhou, Qiyu Jia, Kun Song and Kaijun Niu	712

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







