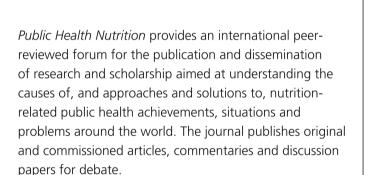
CAMBRIDGE

# **JOURNALS**

# PUBLIC HEALTH NUTRITION

# **Editor-in-Chief**

Marilyn Tseng, California Polytechnic State University, USA



# journals.cambridge.org/phn

Submit your article online **phn.msubmit.net** 

Register for free content alerts journals.cambridge.org/phn-alerts





# Impact Factor 2.25

Ranked **47/158**Public,
Environmental and
Occupational Health

Ranked **34/76**Nutrition and Dietics

2012 Journal Citation Reports® Thomson Reuter

To subscribe contact Customer Services

# Cambridge:

Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 journals@cambridge.org

### **New York:**

Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 subscriptions\_newyork@cambridge.org





CAMBRIDGE

# **JOURNALS**

# NRR

# NUTRITION RESEARCH REVIEWS

# **Editor-in-Chief**

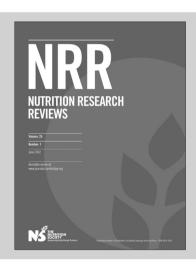
Jayne V. Woodside, Queen's University, Belfast, UK

Nutrition Research Reviews offers a comprehensive overview of nutritional science today. By distilling the latest research and linking it to established practice, the journal consistently delivers the widest range of in-depth articles in the field of nutritional science and has done so for the past twenty-one years. It presents up-to-date, concise and critical reviews of key topics in nutrition science, advancing new concepts and hypotheses that encourage the exchange of fundamental ideas on nutritional well-being in both humans and animals.

Submit your article online **nrr.msubmit.net** 

Register for free content alerts journals.cambridge.org/nrr-alerts





# Impact Factor 5.5

Ranked **4/76**Nutrition and Dietics

2012 Journal Citation Reports® Thomson Reuters

To subscribe contact Customer Services

# Cambridge:

Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 journals@cambridge.org

# **New York:**

Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 subscriptions\_newyork@cambridge.org



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

# **British Journal of Nutrition**

Volume 114, 2015 ISSN: 0007-1145

# Publishing, Production, Marketing, and Subscription Sales Office:

Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge CB2 8BS, UK

# For Customers in North America:

Cambridge University Press Journals Fullfillment Department 100 Brook Hill Drive West Nyack New York 10994-2133 USA

Publisher: Katy Christomanou

# **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 2015 comprise Volume 113, the twelve issues starting July 2015 comprise Volume 114.

# **Annual subscription rates:**

Volumes 113/114 (24 issues):

Internet/print package £1575/\$3071/€2523

Internet only: £1094/\$2134/€1748

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, 100 Brook Hill Drive, West Nyack, New York 10994-2133.

**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 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 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 114 - Number 4

Invited Commentary
Comment on Choi et al.: High-fat diet decreases energy
expenditure and expression of genes controlling lipid metabolism,
mitochondrial function and skeletal system development in the
adipose tissue, along with increased expression of extracellular
matrix remodelling- and inflammation-related genes.
A. Sobolewska, M. Włodarczyk, K. Włodarczyk,
M Wiéniewska-Jarosińska & I Fichna

A. Sobolewska, M. Włodarczyk, K. Włodarczyk,
M. Wiśniewska-Jarosińska & J. Fichna 497–498

Measuring iodine status in diverse populations.
K. A. Cockell 499–500

Flour fortification as a strategy to prevent anaemia.

# Systematic Review

R. F. Hurrell

Is there an association of vitamin B<sub>12</sub> status with neurological function in older people? A systematic review.

Retinoic acid induces macrophage cholesterol efflux and inhibits

L. M. Miles, K. Mills, R. Clarke & A. D. Dangour 503–508

## **Molecular Nutrition**

maternal nutrition.

atherosclerotic plaque formation in apoE-deficient mice.
W. Zhou, J. Lin, H. Chen, J. Wang, Y. Liu & M. Xia
509–518
Induction of autophagy through the activating transcription
factor 4 (ATF4)-dependent amino acid response pathway in
maternal skeletal muscle may function as the molecular memory
in response to gestational protein restriction to alert offspring to

H. Wang, G. J. Wilson, D. Zhou, S. Lezmi, X. Chen, D. K. Layman & Y.-X. Pan 519–532

Threonine affects digestion capacity and hepatopancreatic gene expression of juvenile blunt snout bream (*Megalobrama amblycephala*).

H.-M. Habte-Tsion, M. Ren, B. Liu, J. Xie, X. Ge, R. Chen,

Q. Zhou & L. Pan 533–543

# Metabolism and Metabolic Studies

Fluctuation of potential zinc status biomarkers throughout a reproductive cycle of primiparous and multiparous sows. M. M. J. van Riet, S. Millet, E. Nalon, K. C. M. Langendries, A. Cools, B. Ampe, G. Du Laing, F. A. M. Tuyttens, D. Maes & G. P. J. Janssens

544–552

501-502

# Nutritional Immunology

Asparagine attenuates intestinal injury, improves energy status and inhibits AMP-activated protein kinase signalling pathways in weaned piglets challenged with *Escherichia coli* lipopolysaccharide.

X. Wang, Y. Liu, S. Li, D. Pi, H. Zhu, Y. Hou, H. Shi & W. Leng 553–565

Probiotic fermented milk consumption modulates the allergic

process induced by ovoalbumin in mice. E. M. M. Velez, C. M. Galdeano, E. Carmuega, R. Weill,

M. E. Bibas Bonet & G. Perdigón 566–576

Increased intake of vegetable oil rich in *n*-6 PUFA enhances allergic symptoms and prevents oral tolerance induction in whey-allergic mice.

L. W. J. van den Elsen, B. C. A. M. van Esch, G. M. Dingjan, G. A. Hofman, J. Garssen & L. E. M. Willemsen

577-585

# Microbiology

Influence of galacto-oligosaccharide mixture (B-GOS) on gut microbiota, immune parameters and metabonomics in elderly persons.

J. Vulevic, A. Juric, G. E. Walton, S. P. Claus, G. Tzortzis,

R. E. Toward & G. R. Gibson

586-595

# Human and Clinical Nutrition

A comparison of plasma and prostate lycopene in response to typical servings of tomato soup, sauce or juice in men before prostatectomy.

E. M. Grainger, C. W. Hadley, N. E. Moran, K. M. Riedl, M. C. Gong, K. Pohar, S. J. Schwartz & S. K. Clinton

596-607

608-623

624-634

635-644

# Dietary Survey and Nutritional Epidemiology

Whole-grain products and whole-grain types are associated with lower all-cause and cause-specific mortality in the Scandinavian HELGA cohort.

N. F. Johnsen, K. Frederiksen, J. Christensen, G. Skeie, E. Lund,

R. Landberg, I. Johansson, L. M. Nilsson, J. Halkjær, A. Olsen, K. Overvad & A. Tjønneland

Estimation of habitual iodine intake in Japanese adults using 16 d diet records over four seasons with a newly developed food

composition database for iodine. R. Katagiri, K. Asakura, S. Sasaki, N. Hirota, A. Notsu, A. Miura, H. Todoriki, M. Fukui & C. Date

Accuracy of self-reported intake of signature foods in a school meal intervention study: comparison between control

and intervention period.

A. Biltoft-Jensen, C. T. Damsgaard, R. Andersen, K. H. Ygil,

E. W. Andersen, M. Ege, T. Christensen, L. B. Sørensen, K. D. Stark, I. Tetens & A.-V. Thorsen

Adherence to the food-based Japanese dietary guidelines in

relation to metabolic risk factors in young Japanese women.

T. Nishimura, K. Murakami, M. B. E. Livingstone, S. Sasaki,
K. Uenishi & the Japan Dietetic Students' Study for Nutrition
and Biomarkers Group

645–653

# Behaviour, Appetite and Obesity

Bovine serum albumin as the dominant form of dietary protein reduces subcutaneous fat mass, plasma leptin and plasma corticosterone in high fat-fed C57/BL6J mice.

B. L. McManus, R. Korpela, J. R. Speakman, J. F. Cryan,
P. D. Cotter & K. N. Nilaweera

654-662

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







