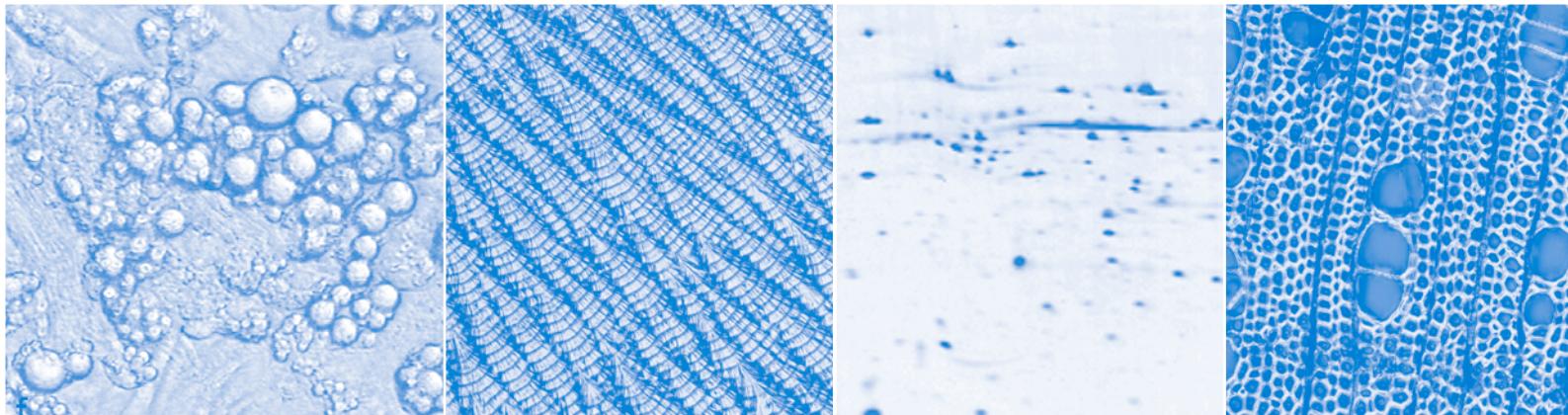


British Journal of Nutrition

BJN An International Journal of Nutritional Science

Volume 103 Number 11 14 June 2010



Published on behalf of The Nutrition Society by Cambridge University Press

ISSN 0007-1145

British Journal of Nutrition
An International Journal of Nutritional Science
Volume 103, 2010 ISSN: 0007-1145

Aims and Scope

The *British Journal of Nutrition* is an international, peer-reviewed journal publishing original papers, review articles, short communications and technical notes on human and clinical nutrition, animal nutrition and basic science as applied to nutrition. Correspondence is encouraged in a Nutrition Discussion Forum. The Journal recognizes the multidisciplinary nature of nutritional science and encourages the submission of material from all of the specialities involved in research and clinical practice. The Journal also publishes supplements on topics of particular interest.

The *British Journal of Nutrition* is published twice monthly by Cambridge University Press on behalf of
The Nutrition Society.

The *British Journal of Nutrition* is available online to subscribers at journals.cambridge.org/bjn

Tables of contents and abstracts are available free at the same website.

Editor-in-Chief

P C Calder, *School of Medicine, University of Southampton, Southampton, UK*

Deputy Editors

F Bellisle, *INRA, University of Paris, Bobigny, France*

D R Jacobs Jr, *School of Public Health, University of Minnesota, Minneapolis, MN, USA*

R J Wallace, *Gut Health Programme, Rowett Research Institute, Aberdeen, UK*

S J Whiting, *College of Pharmacy and Nutrition, University of Saskatchewan, Saskatoon, Sask., Canada*

Reviews Editor

J C Mathers, *School of Clinical Medical Sciences, University of Newcastle upon Tyne, Newcastle upon Tyne, UK*

Supplements Editor

C Seal, *School of Agriculture, Food and Rural Development, University of Newcastle upon Tyne, Newcastle upon Tyne, UK*

Book Reviews Editor

O B Kennedy, *School of Food Biosciences, University of Reading, Reading, UK*

Editorial Board

J J B Anderson, *Chapel Hill, NC, USA*

J R Arthur, *Aberdeen, UK*

S B Astley, *Norwich, UK*

D Attaix, *Ceyrat, France*

Y Bao, *Norwich, UK*

G Bell, *Stirling, UK*

M Blaut, *Bergholz-Rehbrücke, Germany*

K Botham, *London, UK*

G C Burdge, *Southampton, UK*

J Buyse, *Leuven, Belgium*

M D Carro, *León, Spain*

M S Choi, *Daegu, Korea*

A Chwalibog, *Frederiksberg, Denmark*

K Eder, *Halle/Saale, Germany*

G C Fahey Jr, *Urbana, IL, USA*

C J Field, *Edmonton, Alta., Canada*

J K Friel, *Winnipeg, MB, Canada*

S Garnett, *Sydney, Australia*

F Ginty, *Niskayuna, NY, USA*

B A Griffin, *Surrey, UK*

E Herrera, *Madrid, Spain*

M M Hetherington, *Liverpool, UK*

G Holtrop, *Aberdeen, UK*

S J Kaushik, *Saint Péé-sur-Nivelle, France*

D S Kelley, *Davis, Ca., USA*

I Kyriazakis, *Karditsa, Greece*

H J Lightowler, *Oxford, UK*

A M López-Sobaler, *Madrid, Spain*

H C Lukaski, *Grand Forks, ND, USA*

H J McArdle, *Aberdeen, UK*

N M McKeown, *Boston, MA, USA*

E L Miller, *Cambridge, UK*

C Moinard, *Paris, France*

A M Molloy, *Dublin, Ireland*

T A Mori, *Perth, Australia*

P Nestel, *Southampton, UK*

J H Y Park, *Chuncheon, Korea*

M A Pereira, *Minneapolis, MN USA*

C J Petry, *Cambridge, UK*

V Ravindran, *Palmerston North,*

New Zealand

W D Rees, *Aberdeen, UK*

G Rimbach, *Kiel, Germany*

S M Robinson, *Southampton, UK*

E Ros, *Barcelona, Spain*

S Salminen, *Turku, Finland*

M B Schulze, *Nuthetal, Germany*

C R Sirtori, *Milan, Italy*

I Tetens, *Søborg, Denmark*

K Tucker, *Boston, MA, USA*

M van Baak, *Maastricht, The Netherlands*

M W A Verstegen, *Wageningen, The Netherlands*

F Vissioli, *Paris, France*

M S Westerterp-Plantenga, *Maastricht, The Netherlands*

I S Wood, *Liverpool, UK*

B Woodward, *Guelph, Ont., Canada*

P Yaqoob, *Reading, UK*

Publications Staff

C Goodstein (*Publications Manager*), C Jackson (*Deputy Publications Manager*), J Norton, L Weeks

H Zdravics and C Isherwood (*Publications Officers*), C T Hughes (*Sub-editor*)

The Nutrition Society has as its objective the advancement of the scientific study of nutrition and its applications to the maintenance of human and animal health.

Application of membership is invited from anyone whose work has contributed to the scientific knowledge of nutrition, whether such work has been in the laboratory, the field or the clinic, and whether experimental, clinical, agricultural or statistical in nature. There is also a student membership scheme with reduced subscriptions.

Particulars of The Nutrition Society and application forms for membership are available from The Nutrition Society, 10 Cambridge Court, 210 Shepherds Bush Road, London W6 7NJ, UK. Tel: +44 (0)20 7602 0228, Fax: +44 (0)20 7602 1756, Email: office@nutsoc.org.uk

The Nutrition Society Home Page is at <http://www.nutritionssociety.org>

© Nutrition Society 2010

Contents

Review Article

- Curcumin as a therapeutic agent: the evidence from *in vitro*, animal and human studies.
J. Epstein, I. R. Sanderson & T. T. MacDonald 1545–1557
- High dietary intake of prebiotic inulin-type fructans in the prehistoric Chihuahuan Desert.
J. D. Leach & K. D. Sobolik 1558–1561
- Does stress induce salt intake?
S. J. Torres, A. I. Turner & C. A. Nowson 1562–1568

Short Communication

- Absorption of red clover isoflavones in human subjects: results from a pilot study.
R. Maul & S. E. Kulling 1569–1572
- Protection by dietary *Spirulina platensis* against D-galactosamine- and acetaminophen-induced liver injuries.
J. Lu, D.-F. Ren, J.-Z. Wang, H. Sanada & Y. Egashira 1573–1576

Molecular Nutrition

- Effect of prebiotic fibre supplementation on hepatic gene expression and serum lipids: a dose-response study in JCR:LA-cp rats.
J. A. Parnell & R. A. Reimer 1577–1584
- Inter-individual variation in DNA damage and base excision repair in young, healthy non-smokers: effects of dietary supplementation and genotype.
F. Caple, E. A. Williams, A. Spiers, J. Tyson, B. Burtle, A. K. Daly, J. C. Mathers & J. E. Hesketh 1585–1593
- Small quantities of carotenoid-rich tropical green leafy vegetables indigenous to Africa maintain vitamin A status in Mongolian gerbils (*Meriones unguiculatus*).
R. A. Ejoh, J. T. Dever, J. P. Mills & S. A. Tanumihardjo 1594–1601

Metabolism and Metabolic Studies

- Absorption, conjugation and excretion of the flavanones, naringenin and hesperetin from α-rhamnosidase-treated orange juice in human subjects.
L. Bredsdorff, I. L. F. Nielsen, S. E. Rasmussen, C. Cornett, D. Barron, F. Bouisset, E. Offord & G. Williamson 1602–1609

Nutritional Endocrinology

- Postprandial response of plasma insulin, amylin and acylated ghrelin to various test meals in lean and obese cats.
L. J. M. Martin, B. Siliart, T. A. Lutz, V. Biourge, P. Nguyen & H. J. W. Dumon 1610–1619

Nutritional Immunology

- Probiotic attributes of *Lactobacillus* strains isolated from food and of human origin.
S. B. Gaudana, A. S. Dhanani & T. Bagchi 1620–1628

Human and Clinical Nutrition

- Homocysteine-lowering vitamins do not lower plasma S-adenosylhomocysteine in older people with elevated homocysteine concentrations.
T. J. Green, C. M. Skeaff, J. A. McMahon, B. J. Venn, S. M. Williams, A. M. Devlin & S. M. Innis 1629–1634
- Combining enteral with parenteral nutrition to improve postoperative glucose control.
P. Lidder, D. Flanagan, S. Fleming, M. Russell, N. Morgan, T. Wheatley, J. Rahamin, S. Shaw & S. Lewis 1635–1641
- Glycaemic index of Indian flatbreads (rotis) prepared using whole wheat flour and ‘atta mix’-added whole wheat flour.
G. Radhika, C. Sumathi, A. Ganeshan, V. Sudha, C. J. K. Henry & V. Mohan 1642–1647
- Influence of fish oil or folate supplementation on the time course of plasma redox markers during pregnancy.
C. Franke, H. Demmelmair, T. Decsi, C. Campoy, M. Cruz, J. A. Molina-Font, K. Mueller & B. Koletzko 1648–1656

Dietary Surveys and Nutritional Epidemiology

- Adherence to the Mediterranean dietary pattern among Balearic Islands adolescents.
E. Martínez, R. Llull, M. del Mar Bibiloni, A. Pons & J. A. Tur 1657–1664

Maternal dietary patterns in pregnancy and the association with small-for-gestational-age infants. <i>J. M. D. Thompson, C. Wall, D. M. O. Becroft, E. Robinson, C. J. Wild & E. A. Mitchell</i>	1665–1673
Behaviour, Appetite and Obesity	
Effects of dietary extra-virgin olive oil on behaviour and brain biochemical parameters in ageing rats. <i>V. Pitzozzi, M. Jacomelli, M. Zaid, C. Luceri, E. Bigagli, M. Lodovici, C. Ghelardini, E. Vivoli, M. Norcini, M. Gianfriddo, S. Esposto, M. Servili, G. Morozzi, E. Baldi, C. Bucherelli, P. Dolara & L. Giovannelli</i>	1674–1683
Workshop Report	
UK Food Standards Agency Workshop Report: Diet and Immune Function. <i>P. Sanderson, R. L. Elsom, V. Kirkpatrick, P. C. Calder, J. V. Woodside, E. A. Williams, L. Rink, S. Fairweather-Tait, K. Ivory, M. Cantorna, B. Watzl & E. M. Stone</i>	1684–1687
UK Food Standards Agency Workshop Report: carbohydrate and cardiovascular risk. <i>E. Peacock, J. Stanley, P. C. Calder, S. A. Jebb, F. Thies, C. J. Seal, J. V. Woodside & T. A. B. Sanders</i>	1688–1694
Letter to the Editor	
Another approach to estimating the reliability of the glycaemic index: a different interpretation. <i>T. M. S. Wolever</i>	1695–1696
Another approach to estimating the reliability of the glycaemic index: a different interpretation – response by Williams <i>et al.</i> <i>S. M. Williams, B. J. Venn, T. Perry, R. Brown, J. I. Mann & T. J. Green</i>	1697