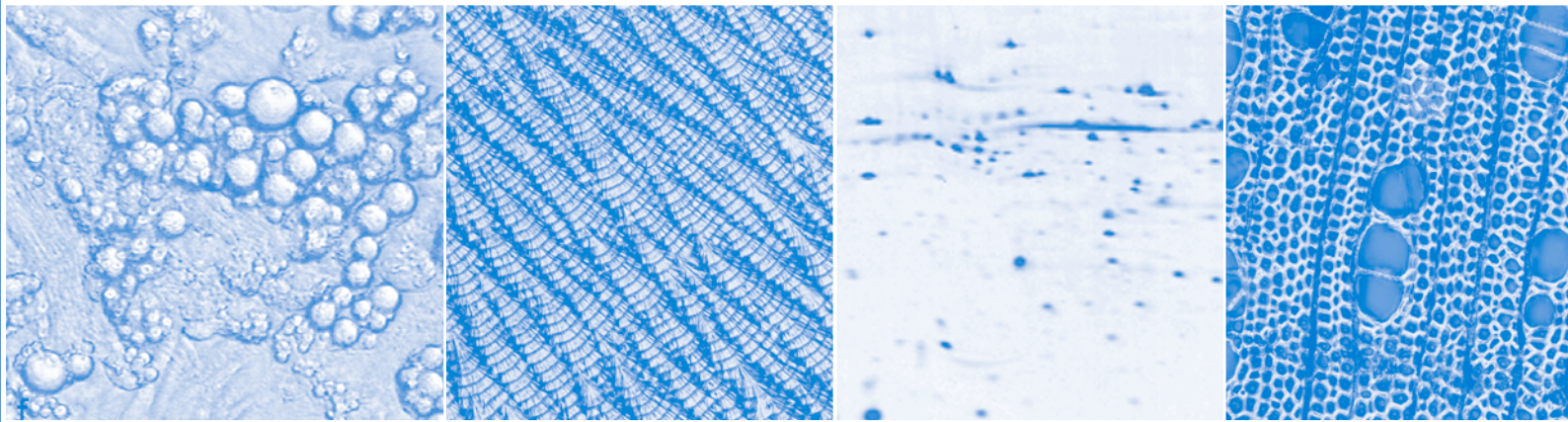


British Journal of Nutrition

Published online by Cambridge University Press

BJN An International Journal of Nutritional Science

Volume 102 Number 4 28 August 2009



Published on behalf of The Nutrition Society by Cambridge University Press

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 Pée-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 Visioli, *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>

Contents

Invited Commentary

- Ethnicity and the BMI–body fat relationship.
A. Luke 485–487

Short Communication

- Adaptive reduction in thermogenesis and resistance to lose fat in obese men.
A. Tremblay & J.-P. Chaput 488–492
- Body composition at age 9 years, maternal folate intake during pregnancy and methyltetrahydrofolate reductase (MTHFR) C677T genotype.
S. J. Lewis, S. Leary, G. D. Smith & A. Ness 493–496
- In vitro* fatty acid enrichment of macrophages alters inflammatory response and net cholesterol accumulation.
S. Wang, D. Wu, S. Lamon-Fava, N. R. Matthan, K. L. Honda & A. H. Lichtenstein 497–501
- Neuroprotection of soyabean isoflavone co-administration with folic acid against β -amyloid 1-40-induced neurotoxicity in rats.
W.-w. Ma, L. Xiang, H.-L. Yu, L.-H. Yuan, A.-M. Guo, Y.-X. Xiao, L. Li & R. Xiao 502–505
- Mushroom intolerance: a novel diet–gene interaction in Crohn's disease.
I. Petermann, C. M. Triggs, C. Huebner, D. Y. Han, R. B. Geary, M. L. Barclay, P. S. Demmers, A. McCulloch & L. R. Ferguson 506–508
- Cholesterol profile in people with newly diagnosed coeliac disease: a comparison with the general population and changes following treatment.
N. R. Lewis, D. S. Sanders, R. F. A. Logan, K. M. Fleming, R. B. Hubbard & J. West 509–513

Metabolism and Metabolic Studies

- Long-term maternal high-fat feeding from weaning through pregnancy and lactation predisposes offspring to hypertension, raised plasma lipids and fatty liver in mice.
M. M. Elahi, F. R. Cagampang, D. Mukhtar, F. W. Anthony, S. K. Ohri & M. A. Hanson 514–519

Nutritional Immunology

- Effects of parenteral glutamine supplementation on modulating the immune response in rats undergoing a total gastrectomy.
M.-T. Lin, S.-Y. Chou, S.-S. Tsou, M.-Y. Wang, M.-H. Wu & S.-L. Yeh 520–525
- Vaccenic acid favourably alters immune function in obese JCR:LA-*cp* rats.
H. J. Blewett, C. A. Gerdung, M. R. Ruth, S. D. Proctor & C. J. Field 526–536

Gene Expression

- A multi-gene analysis strategy identifies metabolic pathways targeted by *trans*-10, *cis*-12-conjugated linoleic acid in the liver of hamsters.
V. Navarro, M. P. Portillo, A. Margotat, J.-F. Landrier, M. T. Macarulla, D. Lairon & J.-C. Martin 537–545

Human and Clinical Nutrition

- An oily fish diet increases insulin sensitivity compared to a red meat diet in young iron-deficient women.
S. Navas-Carretero, A. M. Pérez-Granados, S. Schoppen & M. P. Vaquero 546–553
- Blackcurrant seed press residue increases tocopherol concentrations in serum and stool whilst biomarkers in stool and urine indicate increased oxidative stress in human subjects.
D. Helbig, A. Wagner, M. Gleis, S. Basu, R. Schubert & G. Jahreis 554–562
- The ability of the Geriatric Nutritional Risk Index to assess the nutritional status and predict the outcome of home-care resident elderly: a comparison with the Mini Nutritional Assessment.
E. Cereda, C. Pusani, D. Limonta & A. Vanotti 563–570
- Adult malnutrition screening, prevalence and management in a United Kingdom hospital: cross-sectional study.
C. A. Lamb, J. Parr, E. I. M. Lamb & M. D. Warren 571–575

Dietary Surveys and Nutritional Epidemiology

- Cross-sectional association of dietary patterns with insulin-resistant phenotypes among adults without diabetes in the Framingham Offspring Study.
E. Liu, N. M. McKeown, P. K. Newby, J. B. Meigs, R. S. Vasan, P. A. Quatromoni, R. B. D'Agostino & P. F. Jacques 576–583
- Changes in food advertisements during 'prime-time' television from 1991 to 2006 in the UK and Canada.
J. Adams, K. Hennessy-Priest, S. Ingimarsdóttir, J. Sheeshka, T. Østbye & M. White 584–593

Is serum ferritin within the reference range a risk predictor of cardiovascular disease? A population-based, long-term study comprising 2874 subjects. <i>N. Friedrich, N. Milman, H. Völzke, A. Linneberg & T. Jørgensen</i>	594–600
Reproducibility and relative validity of dietary glycaemic index and glycaemic load assessed by the food-frequency questionnaire used in the Dutch cohorts of the European Prospective Investigation into Cancer and Nutrition. <i>H. Du, D. L. van der A, M. M. E. van Bakel, L. D. M. Verberne, M. Ocké & E. J. M. Feskens</i>	601–604
Longitudinal decrements in iron status during military training in female soldiers. <i>J. P. McClung, J. P. Karl, S. J. Cable, K. W. Williams, A. J. Young & H. R. Lieberman</i>	605–609
HuSKY: a healthy nutrition score based on food intake of children and adolescents in Germany. <i>C. Kleiser, G. B. M. Mensink, C. Scheidt-Nave & B.-M. Kurth</i>	610–618
Food patterns associated with blood lipids are predictive of coronary heart disease: the Whitehall II study. <i>S. A. McNaughton, G. D. Mishra & E. J. Brunner</i>	619–624
<i>Appetite</i>	
A high-protein, moderate-energy, regular cheesy snack is energetically compensated in human subjects. <i>M. Potier, G. Fromentin, J. Calvez, R. Benamouzig, C. Martin-Rouas, L. Pichon, D. Tomé & A. Marsset-Baglieri</i>	625–631
<i>Obesity</i>	
Body size, body composition and fat distribution: comparative analysis of European, Maori, Pacific Island and Asian Indian adults. <i>E. C. Rush, I. Freitas & L. D. Plank</i>	632–641
Corrigendum	642
Erratum	643