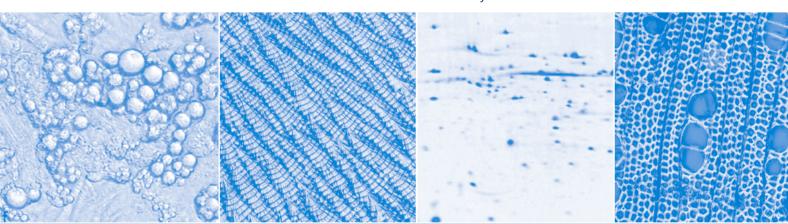
ublished online by Cambridge University Press

British Journal of Nutrition

BJN An International Journal of Nutritional Science

Volume 101 Number 3 14 February 2009



British Journal of Nutrition

An International Journal of Nutritional Science

Volume 101, 2009 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 fortnightly 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

G Alfthan, Helsinki, Finland L F Andersen, Oslo, Norway J R Arthur, Aberdeen, UK S B Astley, Norwich, UK D Attaix, Ceyrat, France Y Bao, Norwich, UK G Bell, Stirling, UK IFF Benzie, Hong Kong, SAR, China B J Bequette, College Park, MD, USA 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 Farquharson, Edinburgh, UK C J Field, Edmonton, Alta., Canada

F Ginty, Niskayuna, NY, USA B A Griffin, Surrey, UK W S Harris, Sioux Falls, SD, USA 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 E L Miller, Cambridge, UK C Moinard, Paris, France A M Molloy, Dublin, Ireland P Nestel, Southampton, UK J H Y Park, Chuncheon, Korea M A Pereira, Minneapolis, MN USA

V Ravindran, Palmerston North, New Zealand W D Rees, Aberdeen, UK J Reilly, Glasgow, UK V Rigalleau, Pessac, France E Ros, Barcelona, Spain S Salminen, Turku, Finland M B Schulze, Nuthetal, Germany C R Sirtori, Milan, Italy W Stahl, Dusseldorf, Germany A D Stein, Atlanta, GA, USA I Tetens, Søborg, Denmark K Tucker, Boston, MA, USA M van Baak, Maastricht, The Netherlands 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 and H Zdravics (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.nutritionsociety.org

British Journal of Nutrition

Contents

Invited Commentary A variety of food and drink improves CVD profile.	
L. M. Steffen	305-306
Review Article The good life: living for health and a life without risks? On a prominent script of nutrigenomics. R. H. Komduur, M. Korthals & H. te Molder	307-316
 Short Communication Threshold to N-methyl-D-aspartate-induced seizures in mice undergoing chronic nutritional magnesium deprivation is lowered in a way partly responsive to acute magnesium and antioxidant administrations. P. Maurois, N. Pages, P. Bac, M. German-Fattal, G. Agnani, B. Delplanque, J. Durlach, J. Poupaert & J. Vamecq 	317-321
 Nutritional Genomics The single nucleotide polymorphism upstream of insulin-induced gene 2 (INSIG2) is associated with the prevalence of hypercholesterolaemia, but not with obesity, in Japanese American women. K. Oki, K. Yamane, N. Kamei, T. Asao, T. Awaya & N. Kohno 	322-327
Metabolism and Metabolic Studies	322-321
Hypolipidaemic effect of maize starch with different amylose content in ovariectomized rats depends on intake amount of resistant starch. X. Liu, H. Ogawa, T. Kishida & K. Ebihara	328-339
The effect of exogenous cholesterol and lipid-modulating agents on enterocytic amyloid-β abundance.	
M. M. Pallebage-Gamarallage, S. Galloway, R. Johnsen, L. Jian, S. Dhaliwal & J. C. L. Mamo	340-347
Peripartal feeding strategy with different <i>n</i> -6: <i>n</i> -3 ratios in sows: effects on sows' performance, inflammatory and periparturient metabolic parameters. G. A. Papadopoulos, D. G. D. Maes, S. V. Weyenberg, T. A. T. G. van Kempen, J. Buyse & G. P. J. Janssens	348-357
Nutritional Endocrinology Long-term consumption of saponins derived from Platycodi radix (22 years old) enhances hepatic insulin sensitivity and glucose-stimulated insulin secretion in 90 % pancreatectomized diabetic rats fed a high-fat diet. D. Y. Kwon, Y. S. Kim, S. M. Hong & S. Park	358-366
Microbiology	
 Influence of a combination of <i>Lactobacillus acidophilus</i> NCFM and lactitol on healthy elderly: intestinal and immune parameters. A. C. Ouwehand, K. Tiihonen, M. Saarinen, H. Putaala & N. Rautonen 	367-375
Cariogenic potential of cows', human and infant formula milks and effect of fluoride supplementation.	
R. C. R. Peres, L. C. Coppi, M. C. Volpato, F. C. Groppo, J. A. Cury & P. L. Rosalen	376–382
 Human and Clinical Nutrition Herring (Clupea harengus) intake influences lipoproteins but not inflammatory and oxidation markers in overweight men. 	
H. M. Lindqvist, A. M. Langkilde, I. Undeland & AS. Sandberg	383-390
The acute impact of ingestion of breads of varying composition on blood glucose, insulin and incretins following first and second meals. A. M. Najjar, P. M. Parsons, A. M. Duncan, L. E. Robinson, R. Y. Yada & T. E. Graham	391-398
Associations between neonatal birth dimensions and maternal essential and <i>trans</i> fatty acid contents during pregnancy and at delivery. C. E. H. Dirix, A. D. Kester & G. Hornstra	399-407
Exercise of low energy expenditure along with mild energy intake restriction acutely reduces fasting and postprandial triacylglycerolaemia in young women.	222 107
M. Maraki, N. Christodoulou, N. Aggelopoulou, F. Magkos, K. P. Skenderi, D. Panagiotakos, S. A. Kavouras & L. S. Sidossis	408-416

Dietary Survey and Nutritional Epidemiology Malnutrition prevalence in The Netherlands: results of the Annual Dutch National Prevalence Measurement of Care Problems.	
J. M. M. Meijers, J. M. G. A. Schols, M. A. E. van Bokhorst-de van der Schueren, T. Dassen, M. A. P. Janssen & R. J. G. Halfens	417-423
Cut-off points for anthropometric indices of adiposity: differential classification in a large population of young women.	
S. L. Duggleby, A. A. Jackson, K. M. Godfrey, S. M. Robinson, H. M. Inskip & the Southampton Women's Survey Study Group	424-430
Analysis of the impact of fortified food consumption on overall dietary quality in Irish adults. T. Joyce, E. M. Hannon, M. Kiely & A. Flynn	431-439
Nutritional Supplementation Intervention with flaxseed and borage oil supplements modulates skin condition in women. S. D. Spirt, W. Stahl, H. Tronnier, H. Sies, M. Bejot, JM. Maurette & U. Heinrich	440-445
Innovative Techniques A novel method to remotely measure food intake of free-living individuals in real time: the remote food photography method. C. K. Martin, H. Han, S. M. Coulon, H. R. Allen, C. M. Champagne & S. D. Anton	446–456
Appetite Administration of a dietary supplement (<i>N</i> -oleyl-phosphatidylethanolamine and epigallocatechin-3-gallate formula) enhances compliance with diet in healthy overweight subjects: a randomized controlled trial.	
M. Rondanelli, A. Opizzi, S. B. Solerte, R. Trotti, C. Klersy & R. Cazzola	457-464