

Copying. This journal is registered with the Copyright Clearance Center, 27 Congress Street, Salem, Mass. 01970. Organizations in the USA who are also registered with C.C.C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of the US copyright law) subject to payment to C.C.C. of the per-copy fee of \$5.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0007-1145/88 \$5.00 + .00.

ISI Tear Sheet Service, 3501 Market Street, Philadelphia, Pennsylvania 19104, USA, is authorized to supply single copies of separate articles for private use only.

For all other use, permission should be sought from Cambridge or the American Branch of Cambridge University Press.

The Proceedings of the Nutrition Society, published by the Cambridge University Press, in part record meetings of the Symposium type, at which experts in a particular field are invited by Council to make contributions on specific parts of it and at which general discussion follows these invited contributions. The contributions will be published *in extenso*; such summaries of the ensuing discussions as circumstances warrant may also be published. The Society also holds scientific meetings at which papers are communicated by members and others on original work carried out by them. It is proposed at present to publish summaries of the papers read at each meeting, each communication being recorded in the Society's *Proceedings* by means of an abstract not exceeding in length 400 words or the equivalent space in print. The *Proceedings* are published three times a year.

The subscription to the *Proceedings* is £69.00 net (US \$160.00 in USA and Canada). Single issues are £25.00 (US \$61.00 in the USA and Canada) each; postage extra.

SUBMITTING PAPERS

Papers should be sent to Professor M. I. Gurr, *British Journal of Nutrition*, c/o AFRC Institute of Food Research, Reading Laboratory, Shinfield, Reading, Berkshire RG2 9AT. They should be written concisely and must represent the results of original nutritional research (or exceptionally a new interpretation of existing knowledge) not previously published. Full requirements and details of how papers should be prepared are given in Directions to Contributors printed in Part 1 of each volume but authors should also consult a recent issue to acquaint themselves with the style and conventions of the Journal. Submitted papers (preferably three copies) should be accompanied by a signed statement to the effect that the author accepts the conditions laid down in Directions to Contributors.

DIRECTIONS TO CONTRIBUTORS—CHANGE IN REFERENCE STYLE

In 1989 references will appear with **full paper titles**. When submitting papers please ensure that the reference list conforms to the new style (for example, see Directions to Contributors).

The British Journal of Nutrition

Volume 60 No. 3 November 1988

CONTENTS

SUBJECT MATTER IN BRIEF	403-406
CLINICAL AND HUMAN NUTRITION papers	
STUDIES IN MAN	
SAHA N., NG T. B., TAN P. Y. & WEE K. P. Vitamin A reserve of liver in health and coronary heart disease among ethnic groups in Singapore	407-412
LEWIS JANET & BUSS DAVID H. Trace nutrients. 5. Minerals and vitamins in the British household food supply	413-424
SOARES M. J., SEQUEIRA JENNIFER & SHETTY P. S. The effect of the preceding day's protein intake on basal metabolic rates in young adults	425-431
EDMUNDSON W. C. & EDMUNDSON S. A. Food intake and work allocation of male and female farmers in an impoverished Indian village	433-439
DRIVER CHRISTOPHER J. I. The effect of meal composition on the degree of satiation following a test meal and possible mechanisms involved	441-449
ATINMO T., MBOFUNG C. M. F., EGUN G. & OSOTIMEHIN B. Nitrogen balance study in young Nigerian adult males using four levels of protein intake	451-458
ATINMO T., EGUN G. & MBOFUNG C. M. F. Long-term evaluation of the adequacy of habitual diets to provide protein needs of adult Nigerian men	459-466
TOMLIN J. & READ N. W. The relation between bacterial degradation of viscous polysaccharides and stool output in human beings	467-475
OTHER STUDIES RELEVANT TO HUMAN NUTRITION	
O'CONNOR DEBORAH L., PICCIANO MARY FRANCES & SHERMAN ADRIA R. Impact of maternal iron deficiency on quality and quantity of milk ingested by neonatal rats	477-485
BATES C. J., COWEN T. D. & TSUCHIYA HARUMI. Growth, ascorbic acid and iron contents of tissues of young guinea-pigs whose dams received high or low levels of dietary ascorbic acid or Fe during pregnancy and suckling	487-497
SOUTHON SUSAN, KECHRID Z., WRIGHT A. J. A. & FAIRWEATHER-TAIT SUSAN J. Effect of reduced dietary zinc intake on carbohydrate and Zn metabolism in the genetically diabetic mouse (C57BL/KsJ <i>db+ / db+</i>)	499-507
OKITOLONDA W., BRICHARD S. M., POTTIER A. M. & HENQUIN J. C. Influence of low- and high-protein diets on glucose homeostasis in the rat	509-516
GENERAL NUTRITION papers	
PINCHASOV Y., NIR I. & NITSAN ZAFRIRA. The synthesis in vivo of proteins in various tissues in chickens adapted to intermittent feeding	517-523
AUROSSEAU BERNARD. Effects of substitution of tricaproin for tallow and of protein concentration in milk substitutes on nitrogen and energy balance in the pre-ruminant lamb	525-538
REYNOLDS CHRISTOPHER K. & HUNTINGTON GERALD B. Partition of portal-drained visceral net flux in beef steers. 1. Blood flow and net flux of oxygen, glucose and nitrogenous compounds across stomach and post-stomach tissues	539-551
REYNOLDS CHRISTOPHER K. & HUNTINGTON GERALD B. Partition of portal-drained visceral net flux in beef steers. 2. Net flux of volatile fatty acids, D- β -hydroxybutyrate and L-lactate across stomach and post-stomach tissues	553-562
FLETCHER J. M. & MCKENZIE N. The effects of dietary fat content on the growth and body composition of lean and genetically obese Zucker rats adrenalectomized before weaning	563-569
POND K. R., ELLIS W. C., MATIS J. H., FERREIRO H. M. & SUTTON J. D. Compartment models for estimating attributes of digesta flow in cattle	571-595

continued on page facing inside back cover

© The Nutrition Society 1988

For Index of Authors see page facing inside back cover

CAMBRIDGE UNIVERSITY PRESS

The Pitt Building, Trumpington Street, Cambridge CB2 1RP

32 East 57th Street, New York, NY 10022, USA

10 Stamford Road, Oakleigh, Melbourne 3166, Australia

Printed in Great Britain by the University Press, Cambridge