

INDEX OF AUTHORS

Armstrong, D. G.	449, 459, 483	Gupta, R. P.	421	Paradine, J.	509, 545
Bannister, D. W.	535	Halvorsen, S.	349	Paul, A. A.	373
Barry, T. N.	521	Hämäläinen, M. M.	493	Pittman, R. J.	437
Beever, D. E.	509	Heger, J.	499	Potter, B. J.	367
Belling, G. B.	367	Hetzel, B. S.	367	Rooke, J. A.	483
Bender, A. E.	343	Holm, H.	349	Rookus, M. A.	335
Burema, J.	335	Janes, A. N.	449, 459	Sales, D. I.	535
Carroll, K. K.	355	Kasper, H.	389	Siddons, R. C.	509, 545
Cooke, J.	401	Kindt, E.	349	Siebert, G.	389
Cornell, P. R.	509	Lee, A.	535	Stanley, J. C.	415
Deurenberg, P.	335	Lie, S. O.	349	Taylor, T. G.	429
Dyson, P. A.	373	Lindberg, J. E.	473	Van der Wiel-Wetzels, W. A.	
Elliott, R. J.	437	Low, A. G.	437	M.	335
Evans, R. T.	545	Mäkinen, K. K.	493	Varvikko, T.	473
Fairweather-Tait, S. J.	401	Manley, T. R.	521	Verma, P. C.	421
Franklin, J.	401	Mano, M. T.	367	Weekes, T. E. C.	449, 459
Fritz, M.	389	Morton, I. D.	343	Williams, P. J.	429
Frydrych, Z.	499	Nelson, M.	373	Woodward, C. J. H.	355
Gale, D. L.	545	Newsholme, E. A.	415	Woodward, D. R.	325
Greife, H. A.	483	Oyeleke, O. A.	343	Wright, A. J. A.	401
Gupta, R. K. P.	421				

Copying. This journal is registered with the Copyright Clearance Center, 21 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 \$05.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0007-1145/85/0053-0054 \$05.00.

ISI Tear 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 the Cambridge or New York offices of the 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 £55.00 net (US \$140.00 in USA and Canada). Single issues are £20.00 (US \$52.00 in the USA and Canada) each; postage extra.

continued from back cover

BARRY T. N. & MANLEY T. R. Glucose and protein metabolism during late pregnancy in triplet-bearing ewes given fresh forages <i>ad lib</i> .	521-533
BANNISTER D. W., SALES D. I. & LEE ALISON. Biotin deficiency and susceptibility to fatty liver and kidney syndrome in broiler chicks: reduced 6-phosphofructokinase (<i>EC</i> 2.7.1.11) activity but normal fructose 2,6-bisphosphate content in birds with hepatomegaly	535-543
SIDDONS R. C., PARADINE J., GALE D. L. & EVANS R. T. Estimation of the degradability of dietary protein in the sheep rumen by <i>in vivo</i> and <i>in vitro</i> procedures	545-561

The British Journal of Nutrition

Volume 54 No. 2 September 1985

CONTENTS

Papers of direct relevance to CLINICAL AND HUMAN NUTRITION

- WOODWARD DAVID R. What sort of teenager has high intakes of energy and nutrients? 325-333
- ROOKUS MAARTJE A., BUREMA JAN, DEURENBERG PAUL & VAN DER WIEL-WETZELS WILHELMINA A. M. The impact of adjustment of a weight-height index (W/H²) for frame size on the prediction of body fatness 335-342
- OYELEKE OYUS A., MORTON I. D. & BENDER A. E. The use of cowpeas (*Vigna unguiculata*) in improving a popular Nigerian weaning food 343-347
- KINDT ELISABETH, HOLM HALVOR, HALVORSEN SVERRE & LIE SVERRE O. Net protein utilization determined by rat bioassay of a protein hydrolysate and a diet for children with phenylketonuria 349-353
- WOODWARD CHRISTOPHER J. H. & CARROLL KENNETH K. Digestibilities of casein and soya-bean protein in relation to their effects on serum cholesterol in rabbits 355-366
- MANO M. T., POTTER B. J., BELLING G. B. & HETZEL B. S. Low-iodine diet for the production of severe I deficiency in marmosets (*Callithrix jacchus jacchus*) 367-372
- NELSON M., DYSON P. A. & PAUL A. A. Family food purchases and home food consumption: comparison of nutrient contents 373-387
- FRITZ MARTIN, SIEBERT GÜNTHER & KASPER HEINRICH. Dose dependence of breath hydrogen and methane in healthy volunteers after ingestion of a commercial disaccharide mixture, Palatinit[®] 389-400
- FAIRWEATHER-TAIT SUSAN J., WRIGHT A. J. A., COOKE JACQUI & FRANKLIN J. Studies of zinc metabolism in pregnant and lactating rats 401-413
- STANLEY JOHN C. & NEWSHOLME ERIC A. The effect of dietary bagasse on the activities of some key enzymes of carbohydrate and lipid metabolism in mouse liver 415-420

Papers on GENERAL NUTRITION

- GUPTA R. P., VERMA P. C. & GUPTA R. K. PAUL. Experimental zinc deficiency in guinea-pigs: clinical signs and some haematological studies 421-428
- WILLIAMS P. J. & TAYLOR T. G. A comparative study of phytate hydrolysis in the gastrointestinal tract of the golden hamster (*Mesocricetus auratus*) and the laboratory rat 429-435
- LOW A. G., PITTMAN R. J. & ELLIOTT ROSEMARY J. Gastric emptying of barley-soya-bean diets in the pig: effects of feeding level, supplementary maize oil, sucrose or cellulose, and water intake 437-447
- JANES A. N., WEEKES T. E. C. & ARMSTRONG D. G. Absorption and metabolism of glucose by the mesenteric-drained viscera of sheep fed on dried-grass or ground, maize-based diets 449-458
- JANES A. N., WEEKES T. E. C. & ARMSTRONG D. G. Insulin action and glucose metabolism in sheep fed on dried-grass or ground, maize-based diets 459-471
- VARVIKKO T. & LINDBERG J. E. Estimation of microbial nitrogen in nylon-bag residues by feed ¹⁵N dilution 473-481
- GREIFE H. A., ROOKE J. A. & ARMSTRONG D. G. The digestion by cattle of silage-containing diets fed at two dry matter intakes. 2. Digestion of total amino acids and of D-alanine and D-glutamic acid 483-492
- HÄMÄLÄINEN MAURI M. & MÄKINEN KAUKO K. Duodenal xanthine oxidase (EC 1.2.3.2) and ferroxidase activities in the rat in relation to the increased iron absorption caused by peroral xylitol 493-498
- HEGER J. & FRYDRYCH Z. Efficiency of utilization of essential amino acids in growing rats at different levels of intake 499-508
- SIDDONS R. C., PARADINE J., BEEVER D. E. & CORNELL P. R. Ytterbium acetate as a particulate-phase digesta-flow marker 509-519

continued on inside back cover

© The Nutrition Society 1985

For Index of Authors see 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