

INDEX OF AUTHORS

Becker, D. J.	345	Jesudian, G.	241	Patrick R. S.	171
Begum, A.	241	Jones, S.	241	Pereira, S. M.	241
Burland, W. L.	165	Kampelmacher, E. H.	157	Phillips, G. D.	377
Carnovale, E.	189	Knight, R. A.	181	Pimstone, B. L.	345
Christie, A. A.	181	Kodicek, E.	297	Pirie, R.	361
Cohen, Ph.	157	Le Clement De St Marcq, C.	189	Robertson, J.	181
Coombe, N. B.	269, 331	Lunven, P.	189	Robinson, M. F.	195
Coward, D. G.	171	Mackay, A. M.	171	Ruitenber, E. J.	157
Demeyer, D. I.	369	Martin, A. K.	251	Samuel, P. D.	165
Ellis, R. F.	277	Marty, R. J.	369	Smith, R. H.	331
Fraser, C.	361	Mason, J. B.	297	Siddons, R. C.	269
Fratoni, A.	189	McKenzie, J. M.	195	Thomson, C. D.	195
Gibson, N.	297	Murray, P. J.	345	van Noorle Jansen, L. M.	157
Grovum, W. L.	221, 231, 313, 377	Nassar, S.	277	van Rij, A. L.	195
Hansen, J. D. L.	345	O'Kelly, J. C.	211	Vercoe, J. E.	207
Hecker, J. F.	221	Ørskov, E. R.	361	Whitehead, R. G.	171
Henschel, M. J.	285, 351	Orton, C. R.	181	Williams, V. J.	231, 313

FORTHCOMING PAPERS

The next issue of the *British Journal of Nutrition* will appear in November 1973. It is hoped to publish in it the following papers:

CLINICAL AND HUMAN NUTRITION

Lactose absorption kinetics in Zambian African subjects. By G. C. COOK, N. G. ASP and A. DAHLQVIST

Kwashiorkor in western Nigeria: A study of traditional weaning foods, with particular reference to energy and linoleic acid. By D. J. NAISMITH

Iron fortification of dried skim milk and maize-soya-bean-milk mixture (CSM): availability of iron in Jamaican infants. By ANN ASHWORTH and YVETTE MARCH

Albumin metabolism in fasting, obese subjects. By FIONA C. BALLANTYNE, J. SMITH and A. FLECK

GENERAL NUTRITION

Erythrocyte transketolase activity and the percentage stimulation by thiamin pyrophosphate as criteria of thiamin status in the pig. By C.-L. PENG and H. HEITMAN JR

Digestion and absorption of dry and high-moisture maize diets in the small and large intestine of the pig. By J. H. G. HOLMES, H. S. BAYLEY and F. D. HORNEY

Metabolism of ¹⁵N-labelled Chlorella protein in growing rats, with special regard to the nutritive value. By M. YAMAGUCHI, H. G. HWANG, K. KAWAGUCHI and M. KANDATSU

The determination, by four methods, of the availability and utilization of calcium and phosphorus in rats given diets containing different amounts of the elements. By C. T. WHITEMORE, A. THOMPSON and D. ATHERTON

Methionine + cystine requirements of growing pigs. Performance, nitrogen retention and carcass composition of growing pigs given semi-purified diets supplemented with graded levels of DL-methionine. By R. BRAUDE and M. A. ESNAOLA LEWIS

Histidine catabolism in iron-deficient rats. By D. C. SHARMA

Effects of plane of nutrition and pregnancy on gluconeogenesis in sheep. 1. The kinetics of glucose metabolism. By J. W. STEEL and R. A. LENG

Effects of plane of nutrition and pregnancy on gluconeogenesis in sheep. 2. Synthesis of glucose from ruminal propionate. By J. W. STEEL and R. A. LENG

The effect of weaning on the motility of the small intestine of the calf. By Y. RUCKEBUSCH and L. BUENO

The effect of excess leucine on valine catabolism in the chick. By H. K. BOLDIZSAR, K. N. BOORMAN and P. J. BUTTERY

A preliminary study on the action of cassava on thyroid iodine metabolism in rats. By M. VAN DER WELDEN, J. KINTHAERT, S. ORTS and A. M. ERMANS

Sulphur as a nutrient for Merino sheep. 1. Storage of sulphur in tissue and wool, and its secretion in milk. By J. P. LANGLANDS and H. A. M. SUTHERLAND

Sulphur as a nutrient for Merino sheep. 2. The utilization of sulphur in forage diets. By J. P. LANGLANDS, H. A. M. SUTHERLAND and M. J. PLAYNE

The metabolism of palmitic, stearic, oleic and linoleic acids in broiler chickens. By JENNIFER M. INFIELD and E. F. ANNISON

Some factors controlling food intake by zinc-deficient rats. By J. K. CHESTERS

The British Journal of Nutrition

Volume 30 No. 2 September 1973

CONTENTS

CLINICAL AND HUMAN NUTRITION

- Response to oral administration of pteroylmonoglutamic acid or pteroylpolyglutamate in newborn infants of low birth weight. By PAMELA D. SAMUEL and W. L. BURLAND 165-169
- Experimental protein-energy malnutrition in baby baboons. 2. Liver pathology. By R. S. PATRICK, A. M. MACKAY, DOROTHY G. COWARD and R. G. WHITEHEAD 171-179
- Studies on the composition of food. 4. Comparison of the nutrient content of retail white bread made conventionally and by the Chorleywood Bread Process. By R. A. KNIGHT, A. A. CHRISTIE, C. R. ORTON and JEAN ROBERTSON 181-188
- Metabolic balance of zinc, copper, cadmium, iron, molybdenum and selenium in young New Zealand women. By MARION F. ROBINSON, JOAN M. MCKENZIE, CHRISTINE D. THOMSON and ANITA L. VAN RIJ 195-205
- Feeding trials with lysine- and threonine-fortified rice. By SHEILA M. PEREIRA, SHEILA JONES, G. JESUDIAN and ALMAS BEGUM 241-250
- A pilot study of vitamin B₁₂ in the treatment of tiredness. By R. F. ELLIS and S. NASSER 277-283
- Circulating 'big' insulin in protein-energy malnutrition. By DOROTHY J. BECKER, PENELOPE J. MURRAY, J. D. L. HANSEN and B. L. PIMSTONE 345-350

GENERAL NUTRITION

- Morphological and functional aspects of oxytetracycline administration to conventional rats. By E. J. RUITENBERG, E. H. KAMPFELMACHER, LUCRETIA M. VAN NOORLE JANSEN and PH. COHEN 157-163
- Amino acid composition of hen's egg. By P. LUNVEN, C. LE CLEMENT DE ST MARCO, E. CARNOVALE and A. FRATONI 189-194
- The energy cost of standing and lying in adult cattle. By J. E. VERCOE 207-210
- Changes in lipid metabolism in genetically different types of calves during chronic hyperthermia. By J. C. O'KELLY 211-220
- Rate of passage of digesta in sheep. 2. The effect of level of food intake on digesta retention times and on water and electrolyte absorption in the large intestine. By W. L. GROVUM and J. F. HECKER 221-230
- Rate of passage of digesta in sheep. 3. Differential rates of passage of water and dry matter from the reticulo-rumen, abomasum and caecum and proximal colon. By W. L. GROVUM and V. J. WILLIAMS 231-240
- Urinary aromatic acid excretion by fed and fasted sheep in relation to protein metabolism in the rumen. By A. K. MARTIN 251-267
- Carbohydrases of the bovine small intestine. By N. B. COOMBE and R. C. SIDONS 269-276
- Comparison of the development of proteolytic activity in the abomasum of the preruminant calf with that in the stomach of the young rabbit and guinea-pig. By M. J. HENSCHEL 285-296
- The chemical nature of the bound nicotinic acid of wheat bran: studies of nicotinic acid-containing macromolecules. By J. B. MASON, NORAH GIBSON and E. KODICEK 297-311
- Rate of passage of digesta in sheep. 4. Passage of marker through the alimentary tract and the biological relevance of rate-constants derived from the changes in concentration of marker in faeces. By W. L. GROVUM and V. J. WILLIAMS 313-329
- Absorption of glucose and galactose and digesta and absorption of lactose by the preruminant calf. By N. B. COOMBE and R. H. SMITH 331-344
- Proteolytic enzyme activity in the gut of doe-suckled and hand-reared rabbits. By M. J. HENSCHEL 351-359
- The effect of bypassing the rumen with supplements of protein and energy on intake of concentrates by sheep. By E. R. ØRSKOV, C. FRASER and R. PIRIE 361-367
- The effect of inhibitors of methane production on fermentation pattern and stoichiometry in vitro using rumen contents from sheep given molasses. By R. J. MARTY and D. I. DEMEYER 369-376
- Rate of passage of digesta in sheep. 5. Theoretical considerations based on a physical model and computer simulation. By W. L. GROVUM and G. D. PHILLIPS 377-390

© The Nutrition Society, 1973

For Index of Authors see inside back cover

CAMBRIDGE UNIVERSITY PRESS

Bentley House, 200 Euston Road, London NW1 2DB
American Branch: 32 East 57th Street, New York, N.Y.10022

Single parts £4.00 net in U.K. (US \$12.00 in U.S.A. and Canada)
1973 subscription price £18.00 net in U.K. (US \$60.00 in U.S.A. and Canada)

Printed in Great Britain at the University Printing House, Cambridge