

	PAGE
Vitamin B <sub>12</sub> and its analogues in the gut contents of germ-free and conventional chicks. By M. E. COATES, M. E. GREGORY, J. W. G. PORTER and A. P. WILLIAMS ..	xxvii
An inquiry into nutritional status in the Aden Protectorate. By B. T. SQUIRES ..	xxviii
Transverse trabeculae in the bones of malnourished children. By H. S. PLATT, R. J. C. STEWART and B. S. PLATT ..	xxix
The interaction of protein and calcium on the growth and composition of bones in young rats. By N. R. H. EL-MARAGHI and R. J. C. STEWART ..	xxx
Nutritional knowledge and food preferences of students of teacher training colleges. By J. C. MCKENZIE and JOHN YUDKIN ..	xxxi
The effect of non-ionic surface-active agent on the digestibility of triglycerides and free fatty acids in the pig. By H. S. BAYLEY and D. LEWIS ..	xxxii
The effect of feeding individual amino acids on adrenocortical activity. By H. N. MUNRO, MARIAN H. STEELE and W. C. HUTCHISON ..	xxxiii
Total amount of iron in the pregnant mouse and her offspring. By P. V. J. HEGARTY and G. R. WADSWORTH ..	xxxiv

### INDEX OF AUTHORS

Anastasijević, V. ..	xxvi	Hegarty, P. V. J. ..	xxxiv	Platt, B. S. ..	xxix
Armstrong, D. G. ..	xxiv, xxv	Hawthorn, J. ..	159	Platt, H. S. ..	xxix
		Hemingway, R. G. ..	xvi	Porter, J. W. G. ..	xxvii
Bayley, H. S. ..	xxxii	Hutchison, W. C. ..	xxxiii	Proudfoot, R. ..	xv
Black, A. E. ..	xxi	Hyttén, F. E. ..	xiii, xix		
Blain, J. A. ..	162			Rowell, J. G. ..	xxvi
Blaxter, K. L. ..	xiv, xx	Johnston, M. J. ..	xxiv	Self, R. ..	176
Boyne, E. B. ..	xxiii	Jones, N. R. ..	172	Sharman, I. M. ..	xviii
Braude, R. ..	xxvi	Joyce, J. P. ..	xx	Shearer, G. ..	162
				Smith, G. M. ..	182
Carpenter, K. J. ..	xxii	Khosla, T. ..	xiii	Squires, B. T. ..	xxviii
Cheyne, G. A. ..	xix			Steele, M. H. ..	xxxiii
Coates, M. E. ..	xxvii	Lewis, D. ..	xxxii	Stewart, R. J. C. ..	xxix, xxx
Cuthbertson, D. P. ..	119	Loutit, J. F. ..	140	Stroud, C. E. ..	153
Cuthbertson, W. F. J. ..	146, xxi			Swain, T. ..	176
		Mac Keith, R. C. ..	128		
Darroch, R. A. ..	xv	McKenzie, J. C. ..	xxxi	Wadsworth, G. R. ..	xxxiv
Duckworth, R. B. ..	182	Martin, A. K. ..	xiv	Waite, R. ..	xxiv
		Milner, C. K. ..	xxii	Widdowson, E. M. ..	121
Ellinger, G. M. ..	xxiii	Moore, T. ..	xvii	Williams, A. P. ..	xxvii
El-Maraghi, N. R. H. ..	xxx	Munro, H. N. ..	xxxiii		
				Yudkin, J. ..	xxxi
Gregory, M. E. ..	xxvii	Owen, E. C. ..	xv		
Gunther, M. ..	134				

### FORTHCOMING ISSUE

It is hoped to publish in the next issue of the *Proceedings of The Nutrition Society* reports of symposia on Interrelationships of Nutrients (27 July 1963) and The Utilization of Grass by Ruminants (5 December 1963) and abstracts of communications to be presented at the meeting for original communications on 5 October 1963.

# CONTENTS OF VOLUME 22, No. 2, 1963

(All rights reserved)

## SYMPOSIUM PROCEEDINGS

### *One Hundred and Fifty-sixth Scientific Meeting*

#### NUTRITIONAL PROBLEMS IN INFANCY AND CHILDHOOD

	PAGE
Nutritional problems in infancy and childhood: Chairman's opening remarks. By D. P. CUTHBERTSON .. .. .	119
The experimental approach to some paediatric problems. By ELSIE M. WIDDOWSON .. .. .	121
Is a big baby healthy? By R. C. MAC KEITH .. .. .	128
The comparative merits of breast and bottle feeding. By MAVIS GUNTHER .. .. .	134
Calcium, strontium and osteogenesis. By J. F. LOUTIT .. .. .	140
Vitamin D activity of plasma in idiopathic hypercalcaemia. By W. F. J. CUTHBERTSON .. .. .	146
Nutritional problems in the immigrant population in London. By C. ERIC STROUD .. .. .	153

### *One Hundred and Fifty-seventh Scientific Meeting*

#### ASPECTS OF CHEMICAL CHANGE DURING THE PROCESSING AND STORAGE OF FOOD

Foodstuffs as unstable chemical systems. By J. HAWTHORN .. .. .	159
Catalytic destruction of vitamin A and carotene. By J. A. BLAIN and G. SHEARER .. .. .	162
Chemical change in fish muscle during storage. By N. R. JONES .. .. .	172
Flavour in potatoes. By R. SELF and T. SWAIN .. .. .	176
The environment for chemical change in dried and frozen foods. By R. B. DUCKWORTH and G. M. SMITH .. .. .	182

#### ABSTRACTS OF COMMUNICATIONS

### *One Hundred and Fifty-fifth Scientific Meeting*

Daily variation in human body-weight. By T. KHOSLA and F. E. HYTEN .. .. .	xiii
The specific dynamic effect of protein. By A. K. MARTIN and K. L. BLAXTER .. .. .	xiv
Effect of a carotene-free diet on the metabolic rate of the goat. By E. C. OWEN, R. A. DARROCH and R. PROUDFOOT .. .. .	xv
Experimental production of phosphorus-deficient rickets in young lambs. By R. G. HEMINGWAY .. .. .	xvi
Further observations on copper deficiency in rats fed upon meat. By T. MOORE .. .. .	xvii
Vitamin A and carotenoids in the blood of British men and women during 1962. By I. M. SHARMAN .. .. .	xviii
Iron loss during menstruation. By G. A. CHEYNE and F. E. HYTEN .. .. .	xix
The loss of methane and carbon dioxide by belching in sheep. By J. P. JOYCE and K. L. BLAXTER .. .. .	xx

### *One Hundred and Fifty-eighth Scientific Meeting*

The limiting amino acids of groundnut flour and meal as the sole protein source for the rat. By ALISON E. BLACK and W. F. J. CUTHBERTSON .. .. .	xxi
The limiting amino acids of groundnut flour and meal as the sole protein source for the chick. By C. K. MILNER and K. J. CARPENTER .. .. .	xxii
Limiting amino acids in cereal : groundnut-meal diets for chicks. By GABRIELLE M. ELLINGER and ELIZABETH B. BOYNE .. .. .	xxiii
The digestibility of the carbohydrate constituents of artificially dried ryegrass, cocksfoot and timothy at various stages of growth. By R. WAITE, M. J. JOHNSTON and D. G. ARMSTRONG .. .. .	xxiv
Net energy values for artificially dried ryegrass, cocksfoot and timothy. By D. G. ARMSTRONG .. .. .	xxv
The effect of age of the pig and season of the year on the response to antibiotic and copper sulphate. By V. ANASTASIJEVIĆ, R. BRAUDE and J. G. ROWELL .. .. .	xxvi

[Continued on p. iii of wrapper]