

## INDEX OF AUTHORS

<b>Annison, E. F.</b>	...	...	<b>9</b>	<b>Infield, J. M.</b>	...	...	<b>9</b>	<b>Parsonage, S. R.</b>	...	...	<b>6A</b>
<b>Bender, A. E.</b>	...	...	<b>45</b>	<b>Jefferys, D. B.</b>	...	...	<b>11A</b>	<b>Randles, J.</b>	...	...	<b>2A</b>
<b>Berry, W. T. C.</b>	...	...	<b>59</b>	<b>Kang, S. S.</b>	...	...	<b>4A</b>	<b>Richardson, D. P.</b>	...	...	<b>21A</b>
<b>Brooke, J. D.</b>	...	...	<b>12A</b>	<b>Leng, R. A.</b>	...	...		<b>Ruck, N.</b>	...	...	<b>17A</b>
<b>Bruckdorfer, K. R.</b>	...	...	<b>3A, 4A</b>	<b>Land, H.</b>	...	...	<b>39</b>	<b>Soerjodibroto, W. S.</b>	...	...	<b>19A</b>
<b>Campbell, J. K.</b>	...	...	<b>15A</b>	<b>Leathwood, P. D.</b>	...	...	<b>20A</b>	<b>Stewart, A. M.</b>	...	...	<b>18A</b>
<b>Carpenter, K. J.</b>	...	...	<b>13A</b>	<b>Linzell, J. L.</b>	...	...	<b>1</b>	<b>Stewart, J. B.</b>	...	...	<b>75</b>
<b>Cohen, C.</b>	...	...	<b>51</b>	<b>MacDonald, M. T.</b>	...	...	<b>17</b>	<b>Stewart, R. J. C.</b>	...	...	<b>19A</b>
<b>Dent, D. A.</b>	...	...	<b>6A</b>	<b>McGregor, L.</b>	...	...	<b>75</b>	<b>Thivend, P.</b>	...	...	<b>7A</b>
<b>Evans, C. C.</b>	...	...	<b>10A</b>	<b>McKenzie, J.</b>	...	...	<b>1A</b>	<b>Thompson, C. E.</b>	...	...	<b>5A</b>
<b>Flint, D. M.</b>	...	...	<b>21A</b>	<b>MacRae, J. C.</b>	...	...	<b>67</b>	<b>Tothill, P.</b>	...	...	<b>31</b>
<b>Ford, J. E.</b>	...	...	<b>15A</b>	<b>Mann, J. I.</b>	...	...	<b>10A</b>	<b>Truswell, A. S.</b>	...	...	<b>2A</b>
<b>Fraser, C.</b>	...	...	<b>9A</b>	<b>Manning, E. B.</b>	...	...	<b>2A</b>	<b>Turner, M. R.</b>	...	...	<b>5A</b>
<b>Garrow, J. S.</b>	...	...	<b>25</b>	<b>Mauron, J.</b>	...	...	<b>20A</b>	<b>Mills, C. F.</b>	...	...	<b>15A</b>
<b>Green, L. F.</b>	...	...	<b>12A</b>	<b>Munday, K. A.</b>	...	...	<b>5A</b>	<b>Veall, N.</b>	...	...	<b>37</b>
<b>Heard, C. R. C.</b>	...	...	<b>19A</b>	<b>Nolan, J. V.</b>	...	...	<b>1</b>	<b>Worcester, N. A.</b>	...	...	<b>3A</b>
<b>Horsfield, S.</b>	...	...	<b>9</b>	<b>Ørskov, E. R.</b>	...	...	<b>9A</b>	<b>Yudkin, J.</b>	...	...	<b>3A</b>

# Proceedings of the Nutrition Society

CONTENTS OF VOL. 33, NO. 1, MAY 1974

## SYMPOSIUM PROCEEDINGS

### *Two Hundred and Sixtieth Scientific Meeting*

### *One Hundred and Third Scottish Meeting*

*Animal Breeding Research Organization, West Mains Road, Edinburgh*

12 OCTOBER 1973

### TRACER TECHNIQUES IN NUTRITION

Chairman: PROFESSOR N. VEALL, Radioisotopes Division, Clinical Research Centre, Harrow, Middlesex

	PAGE
Isotope techniques for studying the dynamics of nitrogen metabolism in ruminants. By J. V. NOLAN and R. A. LENG	1
Compartmental analysis and model building in the study of glucose kinetics in the lactating cow. By S. HORSFIELD, JENNIFER M. INFIELD and E. F. ANNISON	9
The use of isotopes in the study of milk secretion. By J. L. LINZELL	17
Isotope techniques in the measurement of human body composition. By J. S. GARROW	25
The use of radionuclides in the study of calcium metabolism in man. By P. TOTHILL	31
Chairman's closing remarks. By N. VEALL	37

### *Two Hundred and Sixty-first Scientific Meeting*

### *One Hundred and Fourth Scottish Meeting*

*Glasgow and West of Scotland College of Domestic Science, Glasgow G3 6LP*

9 NOVEMBER 1973

### SOCIAL AND ECONOMIC FACTORS IN HUMAN NUTRITION\*

Chairman: PROFESSOR A. M. THOMPSON, Princess Mary Maternity Hospital, Newcastle upon Tyne NE2 3BD

Poverty and welfare policies. By HILARY LAND	39
Nutritional status of schoolchildren. By A. E. BENDER	45
Social and economic factors in the nutrition of the elderly. By CYRIL COHEN	51
Social and economic implications of nutrition surveys and other epidemiological evidence. By W. T. C. BERRY	59
The impact of economic and social status on food choice. By JOHN MCKENZIE	67
Nutrition and low-income families. By MAIRI T. MACDONALD and J. B. STEWART	75

## ABSTRACTS OF COMMUNICATIONS

### *Two Hundred and Fifty-ninth Scientific Meeting*

*Atkins Building, Queen Elizabeth College, Campden Hill, London*

28 SEPTEMBER 1973

Effect of feeding with hydrogenated coconut oil on platelet function in rats. By LILIAN McGREGOR	1A
Effects of omitting dietary sucrose and isoenergetic substitution of starch in primary type IV hyperlipoproteinaemia. By J. I. MANN, A. S. TRUSWELL, E. B. MANNING and J. RANDLES	2A
The effect of dietary sucrose on plasma lipids and on the liver of the spiny mouse ( <i>Acomys cahirinus</i> ). By K. R. BRUCKDORFER, NANCY ANN WORCESTER and JOHN YUDKIN	3A
Insulin sensitivity of adipose tissue of rats fed with various carbohydrates. By K. R. BRUCKDORFER, S. S. KANG and JOHN YUDKIN	4A
Interactions between amino acids in the stimulation of insulin secretion in rabbits. By M. R. TURNER, C. E. THOMPSON and K. A. MUNDAY	5A
A study of 'refractory' obesity. By DOROTHY A. DENT and SALLY R. PARSONAGE	6A
Digestion of starch in the intestine of sheep. By P. THIVEND	7A
Effect of changes in the glucogenic energy on yield of milk and milk fat in lactating goats. By E. R. ØRSKOV and C. FRASER	9A
The use of inert ruthenium-phenanthroline as a digesta particulate marker in sheep. By J. C. MACRAE and C. C. EVANS	10A
The effect of dietary fibre on the response to orally administered glucose. By D. B. JEFFERY	11A
Carbohydrate availability in human recovery from physical work exhaustion. By J. D. BROOK and L. F. GREEN	12A
Contrasting results for the reactive lysine content of heat-damaged materials. By R. F. HURRELL and K. J. CARPENTER	13A
Observations on the possible nutritional significance of vitamin-binding proteins in milk. By J. E. FORD	15A
Effects of dietary cadmium and zinc on rats maintained on diets low in copper. By J. K. CAMPBELL and C. F. MILLS	15A
An individual dietary survey of schoolchildren in Birmingham. By NICOLA RUCK	17A
Muscle cell size as an index of potential for growth in rats. By A. M. STEWART	18A
The effect of an orally administered L-thyroxine supplement on reproduction in protein-deficient rats. By W. S. SOERJODIBROTO, R. J. C. STEWART and C. R. C. HEARD	19A
Effects of early undernutrition on avoidance learning in mice. By P. D. LEATHWOOD and J. MAURON	20A
The effect of oral administration of sodium phenobarbitone on nitrogen balance in the rat. By DELIA M. FLINT and D. P. RICHARDSON	21A

© The Nutrition Society, 1974

CAMBRIDGE UNIVERSITY PRESS

Bentley House, 200 Euston Road, London NW1 2DB

American Branch: 32 East 57th Street, New York, N.Y. 10022

Single parts £4.50 net in U.K. (U.S. \$13.50 in U.S.A. and Canada).

Subscription price £11.00 net in U.K. (U.S. \$34.50 in U.S.A. and Canada).

Lampert Gilbert Printers Ltd, Reading, England.

\*Copies of this complete symposium may be obtained from: Professor T. G. Taylor (The Nutrition Society) c/o Dept. of Physiology & Biochemistry, Medical & Biological Sciences Building, The University, Southampton, SO9 3TU.  
The cost is £1.00 (\$2.50). Remittance should be sent with the order. Cheques or Postal Orders should be made payable to 'The Nutrition Society'.