CONTENTS

guest editorial
1571 The value of polyunsaturated ruminant fat foods. R. E. Hodges

letters to the editor
1573 Prevalence of goiter in Canada. T. K. Murray
1574 The joule versus the calorie. C. D. Eckhert

original communications
1576 Time course study of the in vivo synthesis of avian liver pteroylpoly-γ-glutamates. R. W. Thompson and C. L. Krumdieck
1583 Alterations in the chain length of pteroylpoly-γ-glutamates and in the activity of pteroylpoly-γ-glutamate hydrolase in response to change in the steady state of one carbon metabolism. R. W. Thompson, J. Leichter, P. E. Cornwell, and C. L. Krumdieck
1591 The transketolase assay of thiamine in some diseases. B. Kjøsen and S. H. Seim
1603 Calcium balance and calcium requirements in middle-aged women. R. P. Heaney, R. R. Recker, and P. D. Saville
1612 Nutritional supplementation—whom does it benefit most? D. Hanumantha Rao and A. Nadamuni Naidu
1617 Conversion of hydroxo(aquo)cobalamin to sulfitocobalamin in the absence of light: a reaction of importance in the identification of the forms of vitamin B₁₂, with possible clinical significance. J. Farquharson and J. F. Adams
1623 Are Eskimos more or less obese than other Canadians? A comparison of skinfold thickness and ponderal index in Canadian Eskimos. O. Schaefer
1629 Effect of large amounts of vitamin E during pregnancy and lactation. M. M. Martin and L. S. Hurley
1645 Hematological and immunological effects of excess dietary leucine in the young rat. Ph. Chevalier and A. Aschkenasy

(continued on inside cover)
A comparison of three defined formula diets in normal volunteers. S. McCamman, P. L. Beyer, and J. B. Rhodes

Some effects, in baboons, of chronic ingestion of glycerol with sucrose or glucose. I. Macdonald and A. Keyser

Essential fatty acid deficiency induced by total parenteral nutrition and by medium-chain triglyceride feeding. H. Hirono, H. Suzuki, Y. Igarashi, and T. Konno

Vitamin B₆ deficiency in cancer patients. C. Potera, D. P. Rose, and R. R. Brown

Chemical interactions between thiamin and tannic acid I. Kinetics, oxygen dependence and inhibition by ascorbic acid. K. Rungruangsak, P. Tosukhowong, B. Panipan, and S. L. Vimokesant

Chemical interactions between thiamin and tannic acid II. Separation of products. T. Kositawattanakul, P. Tosukhowong, S. L. Vimokesant, and B. Panipan

Effect of repeated food restriction-refeeding on growth rate and weight. B. Szepesi and M. G. Epstein

Factors responsible for weight loss in tropical sprue. F. A. Klipstein and J. J. Corcino

Plasma free amino acid levels in human subjects after meals containing lactalbumin, heated lactalbumin, or no protein. D. A. Vaughan, M. Womack, and P. E. McClain


Binding of zinc and iron to wheat bread, wheat bran, and their components. F. Ismail-Beigi, B. Faraji, and J. G. Reinhold

perspectives in nutrition

The public health significance of fat-modulated ruminant foods. P. F. Heywood

nutrition survey

Early malnutrition and "late" adoption: a study of their effects on the development of Korean orphans adopted into American families. N. M. Lien, K. K. Meyer, and M. Winick

international nutrition

Energy expenditure, productivity, and physical work capacity of sugarcane loaders. G. B. Spurr, M. G. Maksud, and M. Barac-Nieto

announcements

erratum