

THE JOURNAL OF NUTRITION

OFFICIAL ORGAN OF THE AMERICAN INSTITUTE OF NUTRITION

Official organ of the American Institute of Nutrition. Officers of the Institute for 1975-76: G. K. Davis, *president*; E. L. R. Stokstad, *president-elect*; J. G. Bieri, *past president*; G. A. Leveille, *secretary*; M. R. S. Fox, *treasurer*. Councilors: L. M. Henderson, W. G. Hoekstra, H. N. Munro, A. L. Forbes. O. L. Kline, *executive officer*.

Contents

VOLUME 106
NUMBER 9

September 1976

- George Raymond Cowgill—A Biographical Sketch. *James M. Orten* 1227
- Effects of Early Severe Malnutrition on Heart and Skeletal Muscle Lactate Dehydrogenase. *David Penney, Debra Anderson and John Dongas* . . . 1235
- Dietary Influence on Bile Acid Conjugation in the Cat. *B. Rabin, R. J. Nicolosi and K. C. Hayes* 1241
- Decreased Plasma Insulin But Normal Glucagon in Rats Fed Low Protein Diets. *Udaya M. Kabadi, Albert B. Eisenstein and Inge Strack* 1247
- Teratogenic Effects of Magnesium Deficiency in Rats. *Lucille S. Hurley, Gladys Cosens and Linda L. Theriault* 1254
- Magnesium, Calcium and Zinc Levels of Maternal and Fetal Tissues in Magnesium Deficient Rats. *Lucille S. Hurley, Gladys Cosens and Linda L. Theriault* 1261
- Enhancement of Ca^{++} Uptake by Lactose in the Rat Small Intestine. *H. J. Armbrrecht and R. H. Wasserman* 1265
- Factors Affecting the Rate of Gluconeogenesis from L-Cysteine in the Perfused Rat Liver. *Ronald C. Simpson and Richard A. Freedland* 1272
- Effect of Dietary Fat on Hepatic Metabolism of ^{14}C -Oleic Acid and Very Low Density Lipoprotein Triglyceride in the Gerbil. *R. J. Nicolosi, M. G. Herrera, M. el Lozy and K. C. Hayes* 1279
- Nitrogen Retention in Men Fed Isolated Soybean Protein Supplemented with L-Methionine, D-Methionine, N-Acetyl-L-Methionine, or Inorganic Sulfate. *Allison Yates Zezulka and Doris Howes Calloway* . . . 1286
- Comparison of the Binding of Various Bile Acids and Bile Salts In Vitro by Several Types of Fiber. *Jon A. Story and David Kritchevsky* 1292

Contents

(Continued from back cover)

Changes in Patterns of Feeding Activity, Parotid Secretory Enzymes and Plasma Corticosterone in Developing Rats. <i>Robert S. Redman and Leo M. Sreebny</i>	1295
Plasma Amino Acids of Infants Consuming Soybean Proteins With and Without Added Methionine. <i>George G. Graham, William C. MacLean, Jr. and Robert P. Placko</i>	1307
Effects in the Rat of Environmental Temperature, Diet Dilution and Treadmill Running on Voluntary Food Intake, Body Composition and Endocrine Organ Mass: A Multiple Regression Analysis. <i>Elmer W. Hartsook and John C. M. Nee</i>	1314
Effects in the Rat of Environmental Temperature, Diet Dilution, and Treadmill Running on Liver and Adipose Enzymes and Metabolism of ¹⁴ C-Glucose: A Multiple Regression Analysis. <i>Elmer W. Hartsook and Roy J. Martin</i>	1326
Regulation of Intestinal Calcium Absorption in the Laying Quail: Independent of Kidney Vitamin D Hydroxylation. <i>Arie Bar, Uri Eisner, Giulia Montecuccoli and Shmuel Hurwitz</i>	1336
Controlling Factors in the Development of Ceruloplasmin in Pigs during the Neonatal Growth Period. <i>Irene C. Chang, Dan C. Milholland and Gennard Matrone</i>	1343
Adipose Tissue Cell Size and Lipolysis in the Rat: Response to Exercise Intensity and Food Restriction. <i>E. Wayne Askew and Arthur L. Hecker</i>	1351
Amino Acid Requirements of the Growing Mouse. <i>Ann-Marie John and J. Milton Bell</i>	1361
Optimum Dietary Protein to Energy Ratio for Channel Catfish Fingerlings, <i>Ictalurus punctatus</i> . <i>Donald L. Garling, Jr. and Robert P. Wilson</i> ..	1369
Letters to the Editor	1376
Invitations for Nominations	1379