

THE JOURNAL OF NUTRITION

OFFICIAL PUBLICATION OF
THE AMERICAN INSTITUTE OF NUTRITION

Official publication of the American Institute of Nutrition. Officers of the Institute for 1985-1986: M. C. Nesheim, *president*; J. A. Olson, *president-elect*; H. P. Broquist, *past president*; C. D. Berdanier, *secretary*; R. O. Nesheim, *treasurer*. Councilors: W. J. Visek, D. A. Roe, E. A. Young, G. F. Combs. *Ex officio*: A. E. Harper, R. E. Olson. Executive officer: R. G. Allison.

Contents

VOLUME 115
NUMBER 6

June 1985

ARTICLES

- Dietary Self-Selection Patterns of Rats with Mild Diabetes. *Beverly J. Tepper and Robin B. Kanarek* 699
- Determinants of Copper-Deficiency Anemia in Rats. *Nancy L. Cohen, Carl L. Keen, Lucille S. Hurley and Bo Lönnerdal* 710
- Effects of Low Protein Diets or Feed Restriction on Rat Lung Glutathione and Oxygen Toxicity. *Susan M. Deneke, Berkley A. Lynch and Barry L. Fanburg* 726
- Effect of Selenium Deficiency on Hydroperoxide-Induced Glutathione Release from the Isolated Perfused Rat Heart. *Yiming Xia, Kristina E. Hill and Raymond F. Burk* 733
- Antagonism of Arginine by Excess Dietary Lysine in the Growing Dog. *Gail L. Czarnecki, Diane A. Hirakawa and David H. Baker* 743
- Growth and Estrous Activity of Rats Fed Adequate and Deficient Levels of Phosphorus. *L. Wayne Greene, Paul G. Harms, Gerald T. Schelling, Floyd M. Byers, William C. Ellis and David J. Kirk* 753
- The Effect of 2,3,7,8-Tetrachlorodibenzo-*p*-Dioxin (TCDD) on the Uptake, Distribution and Excretion of a Single Oral Dose of [11,12-³H]Retinyl Acetate and on the Vitamin A Status in the Rat. *Helen Håkansson and Ulf G. Ahlberg* 759
- Inorganic Constituents of Breast Milk from Vegetarian and Nonvegetarian Women: Relationships with Each Other and with Organic Constituents. *Dorothy Ann Finley, Bo Lönnerdal, Kathryn G. Dewey and Louis E. Grivetti* 772
- Influence of Selected Amino Acid Deficiencies on Somatomedin, Growth and Glycosaminoglycan Metabolism in Weanling Rats. *M. Sue Bolze, Robert D. Reeves, Frederick E. Lindbeck and M. Joycelyn Elders* 782

(Continued on inside back cover)

Contents

(Continued from back cover)

Effects of Fasting on Luteinizing Hormone Dynamics in the Male Rat. <i>Thomas M. Badger, Elizabeth A. Lynch and Patrice H. Fox</i>	788
Effects of Total Parenteral Nutrition on Luteinizing Hormone Dynamics in the Male Rat. <i>Thomas M. Badger</i>	798
Oral α -Tocopherol Supplements Decrease Plasma γ -Tocopherol Levels in Humans. <i>Garry J. Handelman, Lawrence J. Machlin, Karlotta Fitch, John J. Weiter and Edward A. Dratz</i>	807
Comparison of Folate Conjugase Activities in Human, Pig, Rat and Monkey Intestine. <i>Thomas T. Y. Wang, Ann M. Reisenauer and Charles H. Halsted</i>	814
BRIEF COMMUNICATIONS	
Decreased Zinc Concentration Does Not Lead to Atrophy of Rat Oral Epi- thelium. <i>Stanley J. Gerson, Julia Meyer and Daniel Gandor</i>	820
Essentiality of Histidine in Adult Mice. <i>Charles J. Parker, Jr., Gerald T. Riess and Vishwanath M. Sardesai</i>	824
Book Review	827
Announcements	834
Invitation for Nominations for 1986 American Institute of Nutrition Awards	829