LETTERS
Healthy Frogs: E. L. Gibbs; Thinking Metric: W. H. Calhoun; Pollution Taxation: E. Gottschalk; R. Wilson; Artifacts or Geofacts?: F. Brewer; Health and Technology: M. G. Marmot and W. Winkelstein, Jr.; E. N. Peters; C. D. Scott; Safety and Efficacy of New Drugs: E. R. Pincockey

EDITORIAL
Computing in Transition: M. Greenberger

ARTICLES
Electron-Phonon Interactions and Superconductivity: J. Bardeen
Biogenesis of Messenger RNA: Genetic Regulation in Mammalian Cells: J. E. Darnell, W. R. Jelinek, G. R. Molloy
Japanese Educational Patterns in Science and Engineering: H. Birnbaum

NEWS AND COMMENT
Sakharov: Survival Teeters on a Delicate Balance
Sakharov: How NAS Stepped into Crisis over Soviet Dissenter
Energy R & D: Slicing the Promised Pie

RESEARCH NEWS
Molecular Biology: A Better Artificial Gene
Microtubules: Versatile Organelles

BOOK REVIEWS
A Diversity of Textbooks: Ecology Comes of Age, reviewed by G. H. Orians; Nature Conservation in the Pacific: P. Q. Tomich; Aversive Maternal Control, M. J. Goldstein; New Journals Received; Books Received
REPORTS

The Earth’s Mantle: Evidence of Non-Newtonian Flow: R. L. Post, Jr., and
D. T. Griggs ............................................ 1242

Response of the Equatorial Countercurrent to the Subtropical Atmosphere:
J. Namias .................................................. 1244

N-Nitrosation by Nitrite Ion in Neutral and Basic Medium: L. K. Keefer and
P. P. Roller .................................................. 1245

Chromatographic Separation of Odorants by the Nose: Retention Times Measured
across in vivo Olfactory Mucosa: M. M. Mozell and M. Jagodowicz ........... 1247

Recombinant Inbred Lines: Value in the Genetic Analysis of Biochemical
Variants: R. T. Swank and D. W. Bailey ............................................. 1249

Biosynthesis of a Vasotocin-Like Peptide in Cell Cultures from Pineal Glands
of Human Fetuses: S. Pavel et al. ........................................................... 1252

Thyroid Hormone Action: A Cell-Culture System Responsive to Physiological
Concentrations of Thyroid Hormones: H. H. Samuels, J. S. Tsai, R. Cintron ..... 1253

Behavior of Free-Ranging Macaques after Intraventricular 6-Hydroxydopamine:
D. E. Redmond, Jr., et al. ................................................................. 1256

PRODUCTS AND MATERIALS

Crystal Structure Analyzer; Water Treatment with Ozone; Measurements and
Chemistry; Acoustic Radar; Microhardness Tester; Precision Sieves and
Screens ............................................................. 1259

COVER

Tattooing of monkeys in the first year of life and regular census observations at the Caribbean Primate Research Center allow long-term family and social relationships and normal social behavior to be studied in free-ranging individuals after specific brain biochemical lesions. Unlike some of the treated monkeys, this captured, cannulated, and sham-treated female returned immediately to her infant and social group and thereafter appeared entirely normal. See page 1256. [D. E. Redmond, National Institute of Mental Health]