

CONTENTS

November 1978 volume 24 number 2

- 405 EFFECTS OF YOHIMBINE ON SQUID AXONS. *Raymond John Lipicky, Daniel L. Gilbert, and Gerald Ehrenstein*
- 423 INVESTIGATION BY FOCUSED LASER BEAM SCANNING OF THE PHOTOELECTRIC ACTIVITY OF BACTERIORHODOPSIN-CONTAINING LIPID BILAYERS. *Zs. Dancsházy, P. Ormos, L. A. Drachev, and V. P. Skulachev*
- 429 RELATIVE RATES OF REPAIR OF SINGLE-STRAND BREAKS AND POSTIRRADIATION DNA DEGRADATION IN NORMAL AND INDUCED CELLS OF *ESCHERICHIA COLI*. *E. C. Pollard and James K. Fugate, Jr.*
- 439 LARGE-SCALE ROTATIONAL MOTIONS OF PROTEINS DETECTED BY ELECTRON PARAMAGNETIC RESONANCE AND FLUORESCENCE. *David D. Thomas*
- 463 THEORETICAL AND EXPERIMENTAL STUDIES ON VISCOELASTIC PROPERTIES OF ERYTHROCYTE MEMBRANE. *Shu Chien, Kuo-Li Paul Sung, Richard Skalak, Shunichi Usami, and Aydin Tözeren*
- 489 SHEAR BREAKAGE OF DNA. *Barry M. Dancis*
- 505 DYNAMIC LIGHT SCATTERING FROM SOLUTIONS OF MICROTUBULES. *Jon S. Gethner and Felicia Gaskin*
- 517 SPIN LABEL DETECTION OF INTERMOLECULAR INTERACTIONS IN CARBONMONOXY SICKLE HEMOGLOBIN. *Michael E. Johnson and Steven S. Danyluk*
- 525 ESTIMATES OF CELLULAR MECHANICS IN AN ARTERIAL SMOOTH MUSCLE. *S. P. Driska, D. N. Damon, and R. A. Murphy*
- 541 STRUCTURE-STRENGTH RELATIONS IN MAMMALIAN TENDON. *Y. Lanir*
- Brief Communications*
- 555 THE COMPENSATION OF POTENTIAL CHANGES PRODUCED BY TRIVALENT ERBIUM ION IN SQUID GIANT AXON WITH APPLIED POTENTIALS. *Michael E. Starzak and Richard J. Starzak*
- 561 A VIRIAL EXPANSION FOR DISCRETE CHARGES BURIED IN A MEMBRANE. *R. Y. Tsien*
- 569 SODIUM INACTIVATION MECHANISM MODULATES QX-314 BLOCK OF SODIUM CHANNELS IN SQUID AXONS. *Jay Z. Yeh*
- Letters to the Editor*
- 575 PROBLEMS INVOLVED IN THE COMPUTATION OF THE 10 ELEMENTARY FIRST-NEIGHBOR INTERACTION CIRCULAR DICHROISM SIGNALS OF DNA. *Christian Marck and Wilhelm Guschlbauer*
- 578 A RESPONSE TO "PROBLEMS INVOLVED IN THE COMPUTATION OF THE 10 ELEMENTARY FIRST-NEIGHBOR INTERACTION CIRCULAR DICHROISM SIGNALS OF DNA." *Fritz Allen*