

BIOPHYSICAL JOURNAL

CONTENTS

July 1979 volume 27 number 1

- 1 MAGNETIC RESONANCE STUDIES OF THE SPATIAL ARRANGEMENT OF GLUCOSE-6-PHOSPHATE AND CHROMIUM (III)-ADENOSINE DIPHOSPHATE AT THE CATALYTIC SITE OF HEXOKINASE. *Richard L. Petersen and Raj K. Gupta*
- 15 OPTICAL STUDIES OF THE PHASE BEHAVIOR OF MONODOMAIN SAMPLES OF DIPALMITOYL PHOSPHATIDYLCHOLINE CONTAINING CALCIUM CHLORIDE. *C. D'Ambrosio and L. Powers*
- 21 COMPUTER SIMULATION OF FLOW-DEPENDENT ABSORPTION IN MICROPERFUSED SHORT HENLE'S LOOP OF RATS. *A. D. Baines, D. Basmadjian, and B. C. Wang*
- 39 INTERACTIONS BETWEEN QUATERNARY LIDOCAINE, THE SODIUM CHANNEL GATES, AND TETRODOTOXIN. *M. D. Cahalan and W. Almers*
- 57 BLOCK OF SODIUM CONDUCTANCE AND GATING CURRENT IN SQUID GIANT AXONS POISONED WITH QUATERNARY STRYCHNINE. *M. D. Cahalan and W. Almers*
- 75 CHANGES IN REPAIR COMPETENCY AFTER 5-BROMODEOXYURIDINE PULSE LABELING AND NEAR-ULTRAVIOLET LIGHT. *M. P. Hagan and M. M. Elkind*
- 87 NULL SPACE IN THE HODGKIN-HUXLEY EQUATIONS. A CRITICAL TEST. *E. N. Best*
- 105 PHOTOCHEMISTRY OF RHODOPSIN AND ISORHODOPSIN INVESTIGATED ON A PICOSECOND TIME SCALE. *T. G. Monger, R. R. Alfano, and R. H. Callender*
- 117 LIGHT SCATTERING VS. MICROSCOPY FOR MEASURING AVERAGE CELL SIZE AND SHAPE. *Paul Latimer*
- 127 RELATIONSHIP BETWEEN Na^+ -DEPENDENT RESPIRATION AND $\text{Na}^+ + \text{K}^+$ -ADENOSINE TRIPHOSPHATASE ACTIVITY IN THE ACTION OF THYROID HORMONE ON RAT JEJUNAL MUCOSA. *Uri A. Liberman, Yasushi Asano, Chu-Shek Lo, and Isidore S. Edelman*
- 145 NUMERICAL RECONSTRUCTION OF THE QUANTAL EVENT AT NICOTINIC SYNAPSES. *John C. Wathey, Menasche M. Nass, and Henry A. Lester*