

CONTENTS

August 1979 volume 27 number 2

- 165 ELECTROLYTE TRANSPORT ACROSS A SIMPLE EPITHELIUM. STEADY-STATE AND TRANSIENT ANALYSIS. *Alan M. Weinstein and John L. Stephenson*
- 187 MOTILITY EVALUATION OF HUMAN SPERMATOZOA BY PHOTON CORRELATION SPECTROSCOPY. *R. Finsy, J. Peetermans, and H. Lekkerkerker*
- 193 MODIFICATIONS OF SODIUM CHANNEL GATING IN *MYXICOLA* GIANT AXONS BY DEUTERIUM OXIDE, TEMPERATURE, AND INTERNAL CATIONS. *C. L. Schauf and J. O. Bullock*
- 209 ELECTROCHEMICAL PROPERTIES OF Na^+ - AND K^+ -SELECTIVE GLASS MICROELECTRODES. *Chin Ok Lee*
- 221 ZEAXANTHIN ([3R,3'R]- β,β -CAROTENE-3-3'DIOL) AS A RESONANCE RAMAN AND VISIBLE ABSORPTION PROBE OF MEMBRANE STRUCTURE. *R. Mendelsohn and R. W. Van Holten*
- 237 PHOTINITIATED MEDIATED TRANSPORT OF H_3O^+ AND/OR OH^- ACROSS GLYCEROL MONOOLEATE BILAYERS DOPED WITH MAGNESIUM OCTAETHYLPORPHYRIN. *Roger C. Young and Stephen W. Feldberg*
- 257 CONDITIONING HYPERPOLARIZATION-INDUCED DELAYS IN THE POTASSIUM CHANNELS OF MYELINATED NERVE. *Ted Begenisich*
- 267 A SIMPLE CASE OF THE WILSON-COWAN EQUATIONS. *A. Muir*
- 277 A MATHEMATICAL MODEL FOR THE MOTION OF MECHANORECEPTOR HAIRS IN FLUID ENVIRONMENTS. *Bob L. Henson and Lon A. Wilkens*
- 287 STRUCTURE OF THE REPLICATION FORK IN ULTRAVIOLET LIGHT-IRRADIATED HUMAN CELLS. *Marila Cordeiro-Stone, Robert I. Schumacher, and Rogerio Meneghini*
- 301 DO CARDIAC ANEURYSMS BLOW OUT? *Daniel K. Bogen and Thomas A. McMahon*
Brief Communication
- 317 VOLTAGE TRANSIENTS FROM PHOTO-ISOMERIZING AZO DYE IN BILAYER MEMBRANES. *J. R. Duchek and J. S. Huebner*