

# BIOPHYSICAL JOURNAL

## CONTENTS

January 1974 volume 14 number 1

- 1 AN APPROACH TO THE CURRENT-VOLTAGE CHARACTERISTICS OF NERVE MEMBRANES BASED ON ADSORPTION PHENOMENA. *M. Amin*
  - 8 EFFECT OF STRUCTURE ON FUNCTION IN MODEL NERVE NETS. *Photios A. Anninos and Rafael Elul*
  - 20 ELECTRON SPIN RESONANCE ANALYSIS OF THE NITROXIDE SPIN LABEL 2,2,6,6-TETRAMETHYLPYRIDONE-*N*-OXYL (TEMPONE) IN SINGLE CRYSTALS OF THE REDUCED TEMPONE MATRIX. *Wallace Snipes, James Cupp, Gerald Cohn, and Alec Keith*
  - 33 PROBABILITY DENSITY FUNCTION OF THE RED CELL MEMBRANE PERMEABILITY COEFFICIENT. *Jack T. Saari and James S. Beck*
  - 46 ELECTROCHEMICAL PROPERTIES OF HYDRATED CATION-SELECTIVE GLASS MEMBRANE. A MODEL OF  $K^+$  AND  $Na^+$  TRANSPORT. *Chin Ok Lee and Harry A. Fozzard*
- Research Communications*
- 69 REPLY TO LETTERS ON "CALORIC CATASTROPHE." INADEQUACY OF THE ENERGY AVAILABLE FROM ATP FOR MEMBRANE TRANSPORT. *Lawrence Minkoff and Raymond Damadian*