

# CONTENTS

## Surveys

- MOROZOV V. I., SAKUTA G. A., KALINSKI M. I.  
Sphingosine-1-phosphate: distribution, metabolism and role in the regulation of cellular functions ..... 5

## Experimental Works

- KIBIREV V. K., OSADCHUK T. V., KOZACHENKO O. P., VADZYUK O. B., BROVARETS V. S.  
Non-peptide furin inhibitors based on amidinohydrazones of diarylaldehydes ..... 22
- AKOPOVA O. V., NOSAR V. I., KOLCHINSKAYA L. I., MANKOVSKA I. N.,  
MALYSHEVA M. K., SAGACH V. F.  
The effect of potential-dependent potassium uptake on membrane potential in rat brain mitochondria ..... 33
- KASIAN N. A., VASHCHENKO O. V., ZAVORA L. N., SOPHRONOV D. S., LISETSKI L. N.  
Membranothropic properties of the urocanic acid ..... 42
- PUSHKAREV V. M., KOVZUN O. I., PUSHKAREV V. V., TRONKO M. D.  
Biochemical effects of combined action of  $\gamma$ -irradiation and paclitaxel on anaplastic thyroid cancer cells ..... 51
- GUZYK M. M., DYAKUN K. O., YANITSKA L. V., KUCHMEROVSKA T. M.  
Influence of poly(ADP-ribose)polymerase inhibitors on some parameters of oxidative stress in blood leukocytes of rats with experimental diabetes ..... 62
- MAKARCHUK V. A., USHAKOVA G. O., KRYLOVA O. O.  
The glutathione system in the blood of rats and morphological changes of the pancreas under experimental acute and chronic pancreatitis ..... 71
- GROMOV L. A., BELENICHEV I. F., GONCHAR-CHERDAKLI L. G., ZHERNOVAJA G. A.  
Effect of anticonvulsants on the nitric oxide system ..... 79

## The History of Biochemistry

- Laureates of the Palladin Prize of the National Academy of Sciences of Ukraine (1983–1984) ..... 84
- The 50th anniversary of Specialized Scientific Council at the Palladin Institute of Biochemistry, NAS of Ukraine ..... 92

## News Items

ROMANYUK S. I., KOMISARENKO S. V. Stem cells and receptors connected with G-proteins – in the vanguard of science again .....	96
SAUL BENTSIONOVYCH SEREBRYANY On the 100th anniversary of his birth .....	107
Directions for authors (in Ukrainian) .....	109
Directions for authors (in Russian) .....	114
Directions for authors (in English) .....	119
License agreement for the manuscript use (in Ukrainian) .....	123
License agreement for the manuscript use (in Russian) .....	125