

Contents

Vol. 69, No. 4, 2004

Simultaneous English language translation of the journal is available from MAIK "Nauka/Interperiodica" (Russia).
Distributed worldwide by Kluwer Academic/Plenum Publishers. *Biochemistry* (Moscow) ISSN 0006-2979.

Review	Engl./Russ.
Short Forms of Membrane Receptors: Generation and Role in Hormonal Signal Transduction <i>O. V. Smirnova and R. L. Bogorad</i>	351 437
Chimerogenesis in Estimation of Specificity and Pathway Directions for Cytochrome P45017 α Catalyzed Reactions <i>A. A. Gilep, R. W. Estabrook, and S. A. Usanov</i>	364 453
Purification and Properties of Isocitrate Lyase from Pupas of the Butterfly <i>Papilio machaon</i> L. <i>A. T. Eprintsev, M. Yu. Shevchenko, and V. N. Popov</i>	376 467
Effect of Chlorpromazine on Human and Murine Intracellular Carboxylesterases <i>L. Radenovic and G. Kartelija</i>	381 473
Purification and Properties of Exopolyphosphatase from the Cytosol of <i>Saccharomyces cerevisiae</i> Not Encoded by the <i>PPX1</i> Gene <i>N. A. Andreeva, T. V. Kulakovskaya, and I. S. Kulaev</i>	387 480
Characteristics of Non-opioid β -Endorphin Receptor <i>E. V. Navolotskaya, Yu. A. Kovalitskaya, Yu. A. Zolotarev, A. A. Kolobov, E. A. Kampe-Nemm, N. V. Malkova, V. V. Yurovsky, and V. M. Lipkin</i>	394 488
Effects of N-Terminal Deletion Mutation on Rabbit Muscle Lactate Dehydrogenase <i>Yanbin Zheng, Shuyuan Guo, Zhi Guo, and Xicheng Wang</i>	401 497
Structure of Lipid A from the Marine γ -Proteobacterium <i>Marinomonas vaga</i> ATCC 27119 T Lipopolysaccharide <i>N. V. Kapustina, I. N. Krasikova, V. V. Isakov, N. M. Gorshkova, and T. F. Solov'eva</i>	407 504
Inhibition of Gap Junction Intercellular Communications in Cell Culture by Polycyclic Aromatic Hydrocarbons (PAH) in the Absence of PAH Metabolism <i>Ju. Ju. Sharovskaja, A. V. Vaiman, N. A. Solomatina, and V. A. Kobliakov</i>	413 511

Purification and Characterization of Serine Proteinase 2 from *Bacillus intermedius* 3-19

*N. P. Balaban, A. M. Mardanova, M. R. Sharipova, L. A. Gabdrakhmanova,
E. A. Sokolova, G. N. Rudenskaya, and I. B. Leshchinskaya*

420 519

Comparative Characterization of Extracellular and Intracellular Hydrocarbons
of *Clostridium pasteurianum*

T. V. Bagaeva and E. E. Zinurova

427 527

Functional Relationship between Na/K-ATPase and NMDA-Receptors
in Rat Cerebellum Granule Cells

A. Boldyrev, E. Bulygina, O. Gerassimova, L. Lyapina, and W. Schoner

429 530

DNA Polymerase Iota-Like Activity in Crude Cell Extracts
of Different Mouse Organs

L. V. Gening, A. N. Petrochenkov, A. B. Reshetnyak, L. E. Andreeva, and V. Z. Tarantul

435 537

Cationic Inhibitors of Serine Proteinases from Buckwheat Seeds:
Study of Their Interaction with Exogenous Proteinases

T. A. Tsybina, Y. E. Dunaevsky, N. A. Popykina, N. I. Larionova, and M. A. Belozersky

441 544

Reduction of Photosystem I Reaction Center in DrgA-Mutant of the Cyanobacterium
Synechocystis sp. PCC 6803 Lacking Soluble NAD(P)H:Quinone Oxidoreductase

*I. V. Elanskaya, K. N. Timofeev, V. G. Grivennikova, G. V. Kuznetsova,
L. N. Davletshina, E. P. Lukashev, and F. V. Yaminsky*

445 549

Kinetics of Chemical Modification of Arginine Residues
in Mitochondrial Creatine Kinase from Bovine Heart:
Evidence for Negative Cooperativity

L. V. Belousova and E. L. Muizhnek

455 560

Iron, Nitric Oxide, and Myeloperoxidase in Asthmatic Patients

O. B. Ekmekci, O. Donma, E. Sardoğan, N. Yıldırım, O. Uysal, H. Demirel, and T. Demir

462 568

Book Review

Capillary Electrophoresis of Carbohydrates

G. Ya. Wiederschain

468 575

Information for Authors

469 576