

Contents

Vol. 70, No. 9, 2005

Simultaneous English language translation of the journal is available from Pleiades Publishing, Inc.
Distributed worldwide by Springer. *Biochemistry* (Moscow) ISSN 0006-2979.

Engl./Russ.

Review

The *p53* Gene Family: Control of Cell Proliferation and Developmental Programs

A. A. Morgunkova

955 1157

Programmed Cell Death in Plants: Ultrastructural Changes in Pea Guard Cells

L. E. Bakeeva, E. V. Dzyubinskaya, and V. D. Samuilov

972 1177

Accumulation of Polyphosphates and Expression of High Molecular Weight Exopolyphosphatase in the Yeast *Saccharomyces cerevisiae*

*T. V. Kulakovskaya, N. A. Andreeva, L. V. Trilisenko,
S. V. Suetin, V. M. Vagabov, and I. S. Kulaev*

980 1186

Uncoupler of Oxidative Phosphorylation Prolongs the Lifespan of *Drosophila*

V. I. Padalko

986 1193

Metabolic Activity of Macrophages Infected with Hantavirus,
an Agent of Hemorrhagic Fever with Renal Syndrome

*N. G. Plekhova, L. M. Somova, R. A. Slonova, G. G. Companets,
V. V. Luk'yanova, and N. V. Yakubovich*

990 1198

Generation of Free Radicals during Decomposition of Hydroperoxide
in the Presence of Myeloperoxidase or Activated Neutrophils

*O. M. Panasenko, A. V. Chekanov, J. Arnhold,
V. I. Sergienko, A. N. Osipov, and Yu. A. Vladimirov*

998 1209

Cloning and Expression of Small cDNA Fragment Encoding Strong Antiviral Peptide
from *Celosia cristata* in *Escherichia coli*

*A. Gholizadeh, B. Baghban Kohnehrouz, I. M. Santha,
M. L. Lodha, and H. C. Kapoor*

1005 1218

Hemolysis of Human Red Blood Cells by Riboflavin–Cu(II) System:
Enhancement by Azide

I. Ali, N. Sakhnini, and I. Naseem

1011 1226

Effect of Lactoferrin on the Ferroxidase Activity of Ceruloplasmin <i>A. V. Sokolov, M. O. Pulina, E. T. Zakharova, M. M. Shavlovski, and V. B. Vasilyev</i>	1015	1231
Influence of Osmolytes on Inactivation and Aggregation of Muscle Glycogen Phosphorylase <i>b</i> by Guanidine Hydrochloride. Stimulation of Protein Aggregation under Crowding Conditions <i>T. B. Eronina, N. A. Chebotareva, and B. I. Kurganov</i>	1020	1237
Malate Dehydrogenase from the Thermophilic Bacterium <i>Vulcanithermus medioatlanticus</i> <i>A. T. Eprintsev, M. I. Falaleeva, and N. V. Parfyonova</i>	1027	1245
Isolation and Characterization of a New Extracellular Bacteriolytic Endopeptidase of <i>Lysobacter</i> sp. XL1 <i>O. A. Stepnaya, I. M. Tsfasman, I. A. Logvina, L. P. Ryazanova, T. A. Muranova, and I. S. Kulaev</i>	1031	1250
Polyclonal Antibodies against a Structure Mimicking the Covalent Linkage Unit between Picornavirus RNA and VPg: An Immunochemical Study <i>O. A. Ivanova, A. G. Venyaminova, M. N. Repkova, and Yu. F. Drygin</i>	1038	1258
Anionic Polymers of the Cell Wall of <i>Brevibacterium linens</i> VKM Ac-2159 <i>N. V. Potekhina, A. S. Shashkov, G. M. Streshinskaya, S. N. Senchenkova, and L. I. Evtushenko</i>	1046	1267
Speculative Hypothesis		
Cancer as a Programmed Death of an Organism <i>A. V. Lichtenstein</i>	1055	1277
Short Communication		
Transcription Factor GATA-3 Is Involved in Repression of Promoter Activity of the Human Interleukin-4 Gene <i>G. T. F. Schwenger, V. A. Mordvinov, and C. J. Sanderson</i>	1065	1289
Book Reviews		
Signal Transduction Protocols <i>G. Ya. Wiederschain</i>	1070	1295
Proteasome Inhibitors in Cancer Therapy <i>G. Ya. Wiederschain</i>	1071	1296