

Contents

Vol. 70, No. 3, 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

How Does a Cell Repair Damaged DNA?

N. P. Sharova

275

341

Accelerated Publications

Molecular Cloning of Kunitz-Type Proteinase Inhibitor Group B Genes from Potato

*A. S. Speranskaya, A. A. Krinitsina, P. Poltronieri, P. Fasano,
A. Santino, A. B. Shevelev, and T. A. Valueva*

292

360

Digestive Proteinases of Yellow Mealworm (*Tenebrio molitor*) Larvae:
Purification and Characterization of a Trypsin-Like Proteinase

*T. A. Tsybina, Y. E. Dunaevsky, M. A. Belozersky,
D. P. Zhuzhikov, B. Oppert, and E. N. Elpidina*

300

370

Cloning and Expression of Mistletoe Lectin III B-Subunit

*I. B. Pevzner, I. I. Agapov, U. Pfueller, K. Pfueller, N. V. Maluchenko,
M. M. Moisenovich, A. G. Tonevitsky, and M. P. Kirpichnikov*

306

378

Effect of Salicylic Acid on Protein Composition of Tatar Buckwheat *Fagopyrum tataricum*
Calluses with Different Ability for Morphogenesis

N. N. Maksyutova, E. I. Galeeva, N. I. Rumyantseva, and L. V. Viktorova

316

390

Inhibition of Peroxidase-Catalyzed Oxidation of 3,3',5,5'-Tetramethylbenzidine
by Aminophenols

*I. V. Naumchik, E. I. Karasyova, D. I. Metelitsa,
I. P. Edimecheva, V. L. Sorokin, and O. I. Shadyro*

322

397

Sialoside-Binding Macrophage Lectins in Phagocytosis of Apoptotic Bodies

E. M. Rapoport, Yu. B. Sapot'ko, G. V. Pazynina, V. K. Bojenko, and N. V. Bovin

330

406

Role of Thiamine Thiol Form in Nitric Oxide Metabolism

A. I. Stepuro, T. P. Piletskaya, and I. I. Stepuro

339

416

Comparative Study of Carrageenans from Reproductive and Sterile Forms of <i>Tichocarpus crinitus</i> (Gmel.) Rupr (Rhodophyta, Tichocarpaceae) <i>A. O. Barabanova, I. M. Yermak, V. P. Glazunov, V. V. Isakov, E. A. Titlyanov, and T. F. Solov'eva</i>	350	430
Engineering of Proteolytically Stable NADPH-Cytochrome P450 Reductase <i>T. A. Bonina, A. A. Gilep, R. W. Estabrook, and S. A. Usanov</i>	357	438
Study of the Hydrogen Bond in Different Orientations of Adenine–Thymine Base Pairs: an <i>ab initio</i> Study <i>M. Monajjemi, B. Chahkandi, K. Zare, and A. Amiri</i>	366	447
Chronicles		
Nobel Prize in Chemistry 2004. The Mechanism of ATP-Dependent Degradation of Proteins Involving Ubiquitin <i>Ya. E. Dunaevsky and M. A. Belozersky</i>	377	459
Book Review		
Essentials of Apoptosis. A Guide for Basic and Clinical Research <i>G. Ya. Wiederschain</i>	379	461
Obituary		
Francis Harry Compton Crick (1916-2004) <i>B. F. Vanyushin</i>	380	462
Information for Authors	382	464