

# Contents

---

**Vol. 64, No. 4, 1999**

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

---

**Engl./Russ.**

## Reviews

Phenol Hydroxylases: An Update

*I. P. Solyanikova and L. A. Golovleva*

365 437

---

## Accelerated Publication

PCR Fragmentation of DNA

*L. A. Zhelez'naya, V. G. Kosykh, I. V. Svad'bina, T. S. Oshman, and N. I. Matvienko*

373 447

Co-expression of Gene 31 and 23 Products of Bacteriophage T4

*L. P. Kurochkina and V. V. Mesyanzhinov*

379 454

Isolation and Primary Characterization of an Amidase from *Rhodococcus rhodochrous*

*E. K. Kotlova, G. G. Chestukhina, O. B. Astaurova,  
T. E. Leonova, A. S. Yanenko, and V. G. Debabov*

384 459

---

Proteinaceous Complexes from Mitochondrial Contact Sites

*M. Yu. Vyssokikh, N. Yu. Goncharova, A. V. Zhuravlyova, L. D. Zorova, V. V. Kirichenko,  
B. F. Krasnikov, A. E. Kuzminova, K. Ch. Melikov, N. S. Melik-Nubarov,  
A. V. Samsonov, V. V. Belousov, A. E. Prischepova, and D. B. Zorov*

390 466

Inhibition of Peroxidase, Trypsin, and  $\alpha$ -Chymotrypsin  
by Platinum (II) and Platinum (IV) Complexes

*S. V. Muginova, E. V. Vil'ms, T. N. Shekhotova, and V. B. Ivanov*

399 476

Feruloyl Esterase from *Aspergillus* sp.: Purification, Properties, and Action  
on Natural Substrates

*E. I. Dzedzulya, E. G. Becker, O. N. Okunev, and A. P. Sinitsyn*

405 483

Limited Proteolysis Study of the Structure of Chloroplast Coupling Factor CF<sub>1</sub>

*A. N. Malyan, O. I. Vitseva, O. N. Gubanova, and T. A. Muranova*

411 490

Purification and Some Properties of Tyrosinase from *Aspergillus flavipes* 56003

*G. S. Gukasyan*

417 497

## Kinetic Model for Bifunctional Multisubstrate Enzymes. Steady-state Approximation

*P. V. Vrzheshch*

421 502

## Dehydrogenase Activity of Infected Cells and Biological Properties of HIV-1 Variants

*M. Yu. Shechelkanov, V. F. Eremin, I. B. Sakhuriya, V. V. Burunova,  
T. V. Pavlova, G. V. Kornilaeva, and E. V. Karamov*

431 513

Content and Structure of Ceramide and Sphingomyelin  
and Sphingomyelinase Activity in Mouse Hepatoma-22*S. N. Ryllova, O. G. Somova, E. S. Zubova, L. B. Dudnik, L. S. Kogtev,  
A. M. Kozlov, A. V. Alesenko, and E. V. Dyatlovitskaya*

437 520

Extracellular Oxidases from Solid-State Culture of the Ligninolytic Fungus  
*Panus tigrinus* 8/18*N. N. Pozdnyakova, A. A. Leontievsky, and L. A. Golovleva*

442 526

Proteolytic Enzymes in Human Leukemic Lymphoid Cells. III. Aminopeptidases,  
Angiotensin-Converting Enzyme, and Its Inhibitor in Cells  
of Different Immunological Phenotype*L. A. Lokshina, T. A. Gureeva, Yu. E. Elisseeva, N. V. Golubeva,  
E. V. Kugaevskaya, O. N. Lubkova, and R. S. Samojlova*

448 533

Effect of 3-Substituted  $\Delta$ 8(14)-15-Ketosterols on Cholesterol Metabolism  
in Hepatoma Hep G2 Cells*A. F. Kisseeleva, L. E. Goryunova, N. V. Medvedeva,  
C. Alquier, and A. Yu. Misharin*

456 543

Kinetics of Thermal Inactivation of *Penaeus penicillatus* Acid Phosphatase*P.-Z. Yang, Q.-X. Chen, Z.-X. Xie, S.-L. Chen,  
Y. Yang, Y.-D. Park, and H.-M. Zhou*

464 553

## Molecular Mechanisms of the Antiproliferative Effect of Vitamin K3 on Jurkat Cells

*D. V. Kovalenko and A. V. Zelenin*

468 558

Human Nuclear Matrix Contains a Protein Complex Which Can Specifically  
Recognize  $\alpha$ -Satellite DNA *in vitro**N. I. Enukashvily, I. B. Lobov, and O. I. Podgornaya*

473 564

**Short Communications***PsiI*, a Novel Restriction Endonuclease Recognizing the DNA Sequence 5'-TTA↓TAA-3'*M. A. Abdurashitov, O. A. Belichenko, N. A. Lebedeva, and S. Kh. Degtyarev*

481 574