



Volume 61, Issue 1

February 2025

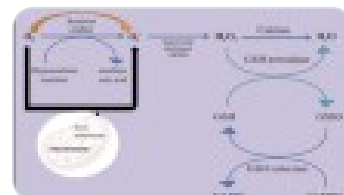


20 articles in this issue

## **Microbial Antioxidative Enzymes: Biotechnological Production and Environmental and Biomedical Applications**

V. M. SongireR. H. Patil

**ReviewPaper** | 20 January 2025 | Pages: 1 - 26



## **Rhodococcus erythropolis A-27 as a Biocatalyst for Enantioselective Reduction of Ketones in the Presence of High Concentrations of Isopropanol**

N. I. PetukhovaA. V. MityaginaV. V. Zorin

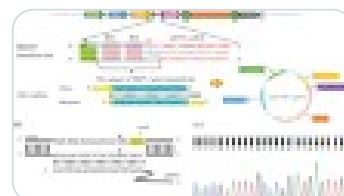
**OriginalPaper** | 07 April 2025 | Pages: 27 - 35



## **Tyrosinase-related Protein 1 Gene Knockout by CRISPR/Cas9 System Induces Apoptosis in Human Fibrosarcoma Cells**

Natchanok TalapphetMoon-Moo Kim

**OriginalPaper** | 20 January 2025 | Pages: 36 - 48



## **Molecular Cloning and Biochemical Characterization of a Novel Disulfide Bond-Reductase from Feather-Degrading Stenotrophomonas sp. Yang-5**

M. JiangX. QiaoZ. Chen

**OriginalPaper** | 20 January 2025 | Pages: 49 - 57



## **The ABC Transport Protein PotC Plays a Crucial Role in Antibiotic Resistance in Escherichia coli**

Q. ZhaoY. WuS. Gu

**OriginalPaper** | 20 January 2025 | Pages: 58 - 67



## **Colorimetric Assessment of Extracellular Electron Transfer in Bacteria: a Novel Approach for Evaluating Antibiotic Efficacy**

M. Khedri

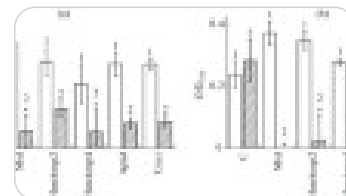
**OriginalPaper** | 20 January 2025 | Pages: 68 - 75



## **Method for Analyzing the Antimicrobial Activity of Peptides via the *Escherichia coli* Expression System**

E. N. GraftskaiaD. D. KharlampievaV. A. Manuvera

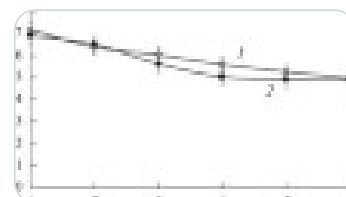
**OriginalPaper** | 07 April 2025 | Pages: 76 - 83



## **Catalytic Properties of Immobilized Phytase of *Silvania hatchlandensis* FG 3.9.1**

K. G. SemenovaYu. G. Maksimova

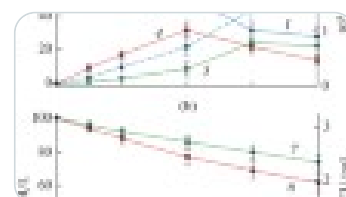
**OriginalPaper** | 07 April 2025 | Pages: 84 - 91



## **Chlordimeform Degradation by a Mixed Culture of *Bacillus* sp., *Acinetobacter* sp. and *Rhodococcus rhodochrous***

H. D. DucN. T. ThanhT. T. Xuan

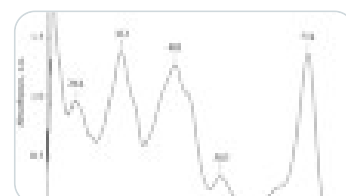
**OriginalPaper** | 20 January 2025 | Pages: 92 - 100



## **Simultaneous Production of Hydrophobic Bioactive Compounds from Biomass of Purple Non-sulfur Bacterium *Cereibacter sphaeroides***

O. O. AshikhminaA. A. AshikhminA. A. Tsygankov

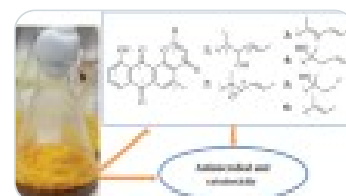
**OriginalPaper** | 20 January 2025 | Pages: 101 - 109



## **Pluramycinone Metabolites from *Streptomyces* sp. SA0215, Isolated from the Saudi Red Sea Sediments with Antimicrobial and Cytotoxic Activity**

M. Ghandourah

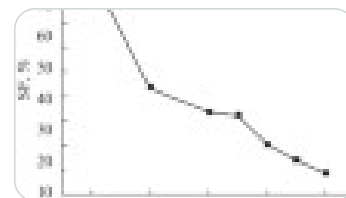
**OriginalPaper** | 20 January 2025 | Pages: 110 - 116



## **Enhanced Cobalt Tolerance of *Saccharomyces cerevisiae* by Engineering the Cytoprotection System**

Y. YangG. SunZ. Wang

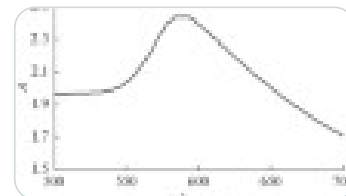
**OriginalPaper** | 20 January 2025 | Pages: 117 - 124



## **A Bioavailable Nanocomposition of Chitosan–Copper Nanoparticles as an Alternative to Antibiotics in Broiler Feed**

K. V. Apryatinal. A. EgorovV. G. Frolov

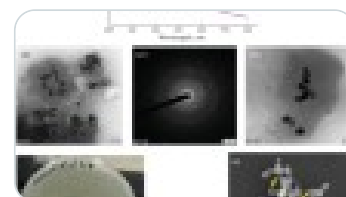
**OriginalPaper** | 07 April 2025 | Pages: 125 - 136



## **Amphotericin B-conjugated Silica-Capped Gold Nanoparticles as Antifungal Agents with improved Cellular Uptake**

S. NagarajS. Narayan

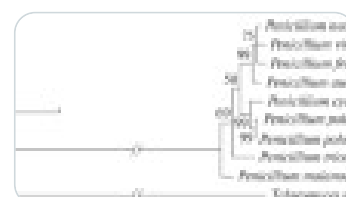
**OriginalPaper** | 20 January 2025 | Pages: 137 - 155



## **Biologically Active Quinolinone Alkaloid from the Marine Fungus *Penicillium polonicum* KMM 4719**

S. S. StarnovskayaN. N. KirichukE. A. Yurchenko

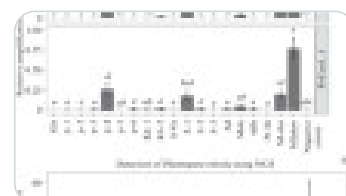
**OriginalPaper** | 07 April 2025 | Pages: 156 - 164



## **Identification of the Causal Agent of Grapevine Downy Mildew *Plasmopara viticola* Based on Quantitative PCR**

N. N. NityagovskyA. A. DneprovskayaO. A. Aleynova

**OriginalPaper** | 07 April 2025 | Pages: 165 - 172



## **Phytostimulating Activity of *Methylobacterium dichloromethanicum* subsp. *dichloromethanicum* DM4 and Its *groEL2* Gene Knockout Mutant**

N. V. AgafonovaG. A. EkimovaM. L. Torgonskaya

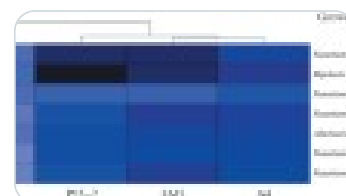
**OriginalPaper** | 07 April 2025 | Pages: 173 - 183



## **New Agronomically Valuable Strains of the Genus *Streptomyces* and Their Biochemical Characteristics**

I. G. ShirokikhYa. I. NazarovaA. A. Shirokikh

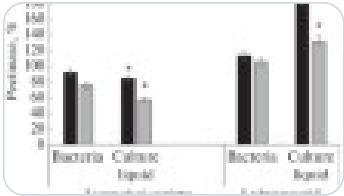
**OriginalPaper** | 07 April 2025 | Pages: 184 - 193



**New Peculiarities in the Virulence Factors of *Pectobacterium atrosepticum***

L. A. LomovatskayaA. M. Goncharova

**OriginalPaper** | 07 April 2025 | Pages: 194 - 199



**Feeding Impact on the Gut Microbiome of *Hermetia illucens* Larvae**

M. V. VecherskiiT. A. KuznetsovaN. A. Ushakova

**OriginalPaper** | 20 January 2025 | Pages: 200 - 210

