

Volume 61, Issue 2

April 2025

24 articles in this issue

Methods of Investigation of Antibacterial Activity and the Mechanism of Antimicrobial Action of Drug Molecules Encapsulated in Delivery Systems

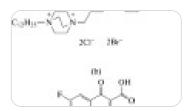
A. A. SkuredinaN. G. BelogurovaE. V. Kudryashova **ReviewPaper** | 13 June 2025 | Pages: 211 - 227



Ribosome Disorganization and Other Effects of Artifitial RNAse DL₄12 on *Salmonella enterica* Cells

A. E. Grigor'evaA. V. TupitsynaE. I. Ryabchikova

OriginalPaper | 13 June 2025 | Pages: 228 - 237



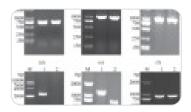
Biosynthesis of Suberic Acid from Glucose through Inverted Fatty Acid β-Oxidation by Recombinant *Escherichia coli* Strains

A. Yu. GulevichA. Yu. SkorokhodovaV. G. Debabov OriginalPaper | 13 June 2025 | Pages: 238 - 246

Combining Transcriptome Analysis and Phenotype Assay Reveal the Indirect Role of Lysine Deacetylase CobB Through its Acetylation Regulation in *Vibrio alginolyticus*

X. TangR. DingY. Ding

OriginalPaper | 18 April 2025 | Pages: 247 - 257



Efficient Production of *Bacillus flexus* β-amylase in *Brevibacillus* choshinensis and its Potential as an Industrial Catalyst

K. XuX. QiX. Qiao

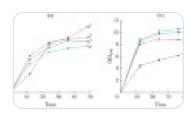
OriginalPaper | 18 April 2025 | Pages: 258 - 265



<u>Untargeted Metabolomics Analysis on the Effect of Ventilation on</u> the Production of 1,3-Propanediol by *Klebsiella pneumoniae*

J. DongZ. XuY. Tian

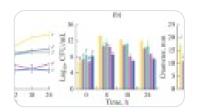
OriginalPaper | 18 April 2025 | Pages: 266 - 276



Screening, Expression, and Characterization of Recombinant Phytase from Bacillus subtilis KM-BS for Bio-hydrolysis of Phytic Acid in Animal Feeds

H. H. HoT. N. P. HuynhA. Q. Nguyen

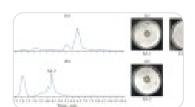
OriginalPaper | 18 April 2025 | Pages: 277 - 289



Characterization and Safety Evaluation of Surfactin from Bacillus methylotrophicus Effective against Streptomyces scabies, the Causative Agent of Potato Common Scab

J. LiL. MaD. Wu

OriginalPaper | 18 April 2025 | Pages: 290 - 301



Efficient Cloning and Expression of *Is*PETase in the *E. coli* SHuffle Cells; Activity Analysis using HR-LC/MS

B. AytanM. OztugS. Ari

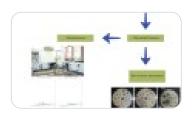
OriginalPaper | 18 April 2025 | Pages: 302 - 311



Actinomycetes from Sulphur-rich Reservoirs: Pioneering Healthcare Innovations

S. Sachdeval. P. Sarethy

OriginalPaper | 18 April 2025 | Pages: 312 - 320



Postbiotic S-layer Protein 2 from Human Lactobacillus crispatus 2029 Strain is a Natural Perforator of the Outer Membrane of Multi-drug Resistant Salmonella Enteritidis and a Protector of Intestinal Homeostasis in Humans and Animals

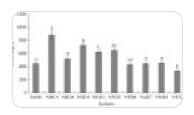
V. M. Abramovl. V. KosarevA. V. Karlyshev

OriginalPaper | 13 June 2025 | Pages: 321 - 337

<u>Characterization and Probiotic Assessment</u> of *Lactobacillus* Isolates from Saurashtra, Gujarat, India

N. SaxenaS. JoshiS. Patel

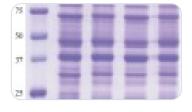
OriginalPaper | 18 April 2025 | Pages: 338 - 347



Effect of Fermentation with Different Lactobacilli on the Organoleptic Properties of Pea Protein Isolate

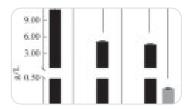
I. V. KravchenkoV. A. FuralyovV. O. Popov

OriginalPaper | 13 June 2025 | Pages: 348 - 353



Sustainable Sweeteners: Unveiling Biotechnological Promise of Novel Yeast Strains for Low-Calorie Sweetener Production

M. S. de Brito de PaulaN. A. T. FernandesD. R. Dias **OriginalPaper** | 18 April 2025 | Pages: 354 - 361



Enhanced Growth and Development of IAA-mutant dek18 Maize Variety and Alleviation of Abiotic Stresses Through the Synergistic effect of Penicillium roqueforti and Trichoderma reesei

M. IkramN. AliN. Khan

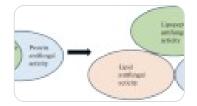
OriginalPaper | 18 April 2025 | Pages: 362 - 371



Culture Optimization of Endophytic and Rhizosphere Bacteria and Exploration of Antifungal Substances

Y. ShengX. LiG. Zhang

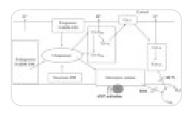
OriginalPaper | 18 April 2025 | Pages: 372 - 384



Respiratory Activity and Biosynthesis of Alkaloids by the Fungus *Penicillium citrinum* Thom

A. Yu. ArinbasarovaT. V. AntipovaA. G. Medentsev

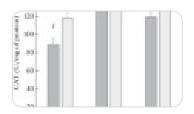
OriginalPaper | 13 June 2025 | Pages: 385 - 389



Modulation of Antioxidant Enzyme Activity Levels and Chaperone Levels in Different *Cucurbitaceae* Genotypes under Heat Stress

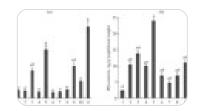
N. P. YurinaN. D. Murtazina

OriginalPaper | 13 June 2025 | Pages: 390 - 398



Growth-Regulating Activity of Brassinosteroid Compositions with Ferulic Acid on Spring Wheat Plants

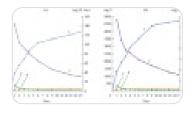
R. P. LitvinovskayaN. E. ManzhalesavaV. A. Khripach OriginalPaper | 13 June 2025 | Pages: 399 - 409



Effect of the Mineral Composition of Sulfide Raw Materials on the Bioleaching of Nonferrous Metals

A. G. BulaevM. I. MuravyovN. V. Fomchenko

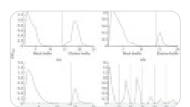
OriginalPaper | 13 June 2025 | Pages: 410 - 417



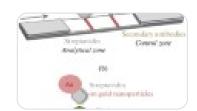
A Comparative Analysis of Chromatography Approaches for the Purification of Immunoglobulin from Fish Serum for Serodiagnostic Application

S. G. SatkarA. SudhagarU. K. Sarkar

OriginalPaper | 18 April 2025 | Pages: 418 - 428



Combined Systems of Recombinase Polymerase Amplification and Membrane Immunochromatography or Enzyme-Linked Immunoassay for Quantitative Determination of Salmonella enterica Bacterial DNA



T. S. SerchenyaK. U. AkhremchukO. V. Sviridov OriginalPaper | 13 June 2025 | Pages: 429 - 440

Erratum to: A Comparative Analysis of Chromatography Approaches for the Purification of Immunoglobulin from Fish Serum for Serodiagnostic Application

S. G. SatkarA. SudhagarU. K. Sarkar

Erratum | 13 June 2025 | Pages: 441 - 441

Erratum to: Combining Transcriptome Analysis and Phenotype Assay Reveal the Indirect Role of Lysine Deacetylase CobB Through its Acetylation Regulation in Vibrio alginolyticus

X. TangR. DingY. Ding

Erratum 13 June 2025 | Pages: 442 - 442