

CONTENTS

Review Article

1. Biodegradable Industry Waste: A Potential Source of Bioenergy and Biopolymers
P. Kumar · S. Mehariya · S. Ray · A. Mishra · V.C. Kalia

1

Original Articles

2. Isolation, Characterization and Assessment of *Pseudomonas* sp. VITDM1 for Electricity Generation in a Microbial Fuel Cell
R. Manogari · D.K. Daniel
- 8
3. Antioxidant Activity of Bacteria Associated with the Marine Sponge *Tedaria anhelans*
D. Balakrishnan · A.S. Bibiana · A. Vijayakumar · R.S. Santhosh · K. Dhevendaran · P. Nithyanand
- 13
4. Identification and Characterization of *Lactobacillus brevis* P68 with Antifungal, Antioxidant and Probiotic Functional Properties
M.V. Arasu · N.A. Al-Dhabi · T.S. Rejiniemon · K.D. Lee · V.A.J. Huxley · D.H. Kim · V. Duraiapandiyan · P. Karuppiah · K.C. Choi
- 19
5. Anthrax Outbreak Among Cattle and its Detection by Extractable Antigen 1 (EA1) Based Sandwich ELISA and Immuno PCR
J.J. Kingston · S. Majumder · S.R. Uppalapati · S.S. Makam · R.M. Urs · H.S. Murali · H.V. Batra
- 29
6. The Effect of Dextranase Gene Inactivation on Mannitol Production by *Leuconostoc mesenteroides*
Z. Zhang · W.-Y. Cheng · X.-Y. Ju · H.-X. Jin
- 35
7. Membrane Biosynthesis Gene Disruption in Methicillin-Resistant *Staphylococcus aureus* (MRSA) as Potential Mechanism for Reducing Antibiotic Resistance
N.M. Alipiah · M.N. Shamsudin · F.M. Yusoff · A. Arshad
- 41
8. Structural Features of a Highly Conserved Omp16 Protein of *Pasteurella multocida* Strains and Comparison with Related Peptidoglycan-associated Lipoproteins (PAL)
A. Kumar · N.N. Mohanty · N. Chacko · R. Yogisharadhy · S.B. Shivachandra
- 50
9. Identification of Periplasmic α -Amylase from Cow Dung Metagenome by Product Induced Gene Expression Profiling (Pigex)
S. Pooja · M. Pushpanathan · S. Jayashree · P. Gunasekaran · J. Rajendran
- 57
10. Simultaneous Production of Antifungal and Keratinolytic Activities by Feather-Degrading *Bacillus subtilis* S8
T.-H. Go · K.-S. Cho · S.-M. Lee · O.-M. Lee · H.-J. Son
- 66
11. Role of Lytic Enzymes Secreted by *Lysobacter capsici* YS1215 in the Control of Root-Knot Nematode of Tomato Plants
Y.S. Lee · X.H. Nguyen · K.W. Naing · Y.S. Park · K.Y. Kim
- 74
12. Dietary *Saccharomyces cerevisiae* Boosts Growth and Immunity of IMC *Labeo rohita* (Ham.) Juveniles
P. Bandyopadhyay · S. Mishra · B. Sarkar · S.K. Swain · A. Pal · P.P. Tripathy · S.K. Ojha
- 81
13. Pan-Genome of *Bacillus* Species
J. Sankarasubramanian · U.S. Vishnu · J. Sridhar · P. Gunasekaran · J. Rajendran
- 88

14. Comparative Genome Analysis of *Lactobacillus casei*: Insights into Genomic Diversification for Niche Expansion 102
S. Yu · Y. Peng · Y. Zheng · W. Chen
15. Molecular Diversity and Mating Type Distribution of the Rice Blast Pathogen *Magnaporthe oryzae* in North-East and Eastern India 108
J. Imam · S. Alam · N.P. Mandal · D. Maiti · M. Variar · P. Shukla

Short Communications

16. Creation of Functionally Diverse Chimerical α -Glucosidase Enzymes by Swapping Homologous Gene Fragments Retrieved from Soil DNA 114
X. Yin · L. Ma · X. Pei · P. Du · C. Li · T. Xie · L. Yu · L. Yu · Q. Wang
17. Gene Diversity of *H. pylori cagPAI* Genes in Patients with Gastroduodenal Diseases in a Region at High Risk of Gastric Cancer 118
M. Wang · C. Shao · J. Li · X. Wang · S. Wang · S. Shao

The copies of the journal to members of the association are sent by ordinary post. If any of the member wishes to receive the copies by registered post or courier, kindly contact the journal's/publisher's office. Membership or subscription copies returned due to incomplete, incorrect or changed address for two consecutive occasions, would force us to delete the names from the mailing list of the journal. Providing complete, correct and up-to-date address is the responsibility of the members. The editorial board, association or publisher will not be responsible for non-receipt of copies due to incorrect or incomplete address. The copy received for personal use by a member of the association/society, should not be sold or given away for commercial or library use. It is also illegal to acquire copies from any other source without subscribing to the journal.