

TABLE OF CONTENTS

i	Table of Contents	i
1	Assessment of Agricultural Microbiology on Soil Agricultural Importance Dhananjay Kumar, Priyanka, Alpana Kusum, Pankaj Kumar Yadav, Janardan Prasad and Tapan Gorai	1
2	Impact of Soil Microorganisms on Soil Properties Praveen Kumar M. B. and Spoorthishankar K. S.	5
3	Trichoderma: A Potent Biological Control Agent for Plant Disease Management Bhavanasi Sai Meghana, Raja Naik M., Vinod Kumar N. and Asma Siddiqua	8
4	Importances of Mushroom and Cultivation of Oyster Mushroom (<i>Pleurotus Spp.</i>) Raghavendra J., Vinayak Upadhya and Karthik H. N.	11
5	Unravelling the Intricacies of Succession and Transformation of Microorganisms J. Surya Mithra Nair, S. Anu Rajan, N. Chitra and V.I. Soumya. S	15
6	Biological Pesticides for Control of Crop Pests Pydi Mohini Kumari, S. Anu Rajan, N. Chitra, and V.I. Soumya. S	18
7	Importance of Biofertilizers in Organic Farming Mahantesh M. Nekar	20
8	Unveiling the Hidden World Beneath our Feet: The Marvels of Soil Enzymes Ancy G. Martin, S. Anu Rajan and Chinmaya Sahoo	22
9	Diversity of Soil Microorganisms: The Molecular Approach V. Anu, S. Anu Rajan, N. Chitra and V.I. Soumya	26
10	Plant Growth Promoting Rhizobacteria: The Stress Busters in Nature N. Sravya and S. Anu Rajan, N. Chitra and V.I. Soumya	30
11	Underground Allies: The Crucial Role of Mycorrhizae in Fruit Crop Success Sangeeth Shyam Sundar S. S., C Rajamanickam, S. Rajesh, and D. Sarvesh ⁴	32
12	Development of Home-Made Cereal Based Probiotic Drink with Brown Rice Luxita Sharma and Ananya Rajpoot	34
13	Valorisation of Grape Pomace: Transforming Winemaking Waste in to Nutritional and Economic Opportunities Ramya C. S., Parvathy Nayana N., Prajwal R. and Sripriyanka S. Nalla	37
14	Rice False Smut Interaction: Understanding the Mode of Infection, Pathogenomics and Management MD Thabrez and Vineeth M.	40
15	Role of Microorganisms in Agriculture Anju Rani, Preeti, Priyanka and Sarita Devi	43
16	Advanced Techniques in Detecting Food Borne Pathogens and Toxins G. Aswani, S. Anu Rajan, N. Chithra and V.I. Soumya	45
17	Empowering Farmers: The Role of Extension Education in Promoting Agricultural Microbiological Innovations Priyanka	49