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Nota di contenuto

Isolation of Cellulose-Degrading Bacteria and to Use Their Cellulolytic Potential for Production of Bio-Ethanol from Paper Waste -- Bio-Conversion of Mandarin Orange Peels by *Aspergillus oryzae* and by *Penicillium* sp -- Utilization of Low Cost Fatty Acid Sources by Bacterial Isolate for Improved Production of Valuable Prodigiosin -- Simplified Detection of Serotonin by FET-based Sensor -- Production of lactose free cheese using partially purified -galactosidase from *Enterobacter aerogenes* st KCTC2190 -- Fungal Production of Single Cell oil Using Defatted oil Seed Meal as Feedstock -- Synergistic Effect of Quercetin with Allicin from the Ethanolic Extract of *Allium cepa* as a Potent Anti-Quorum Sensing and Anti-Biofilm Agent against Oral Biofilm -- Development of micellized antimicrobial thiosulfinate: A contemporary way of drug stability enhancement -- Production and Characterization of Functional Lipid and Micronutrient Rich Health Beneficial Mayonnaise -- Computer Aided Drug Design against Dopamine D2 Receptor for Anti-Schizophrenia Drug development -- Biodegradation of Dyes by Laccase from isolated strain *Aspergillus flavus* PUF5 -- Effect of *Saccharomyces Cerevisiae* Fermentation Process on the Phenolic Content, Flavonoid Content and Antioxidant Properties of Flax Seed. .

Sommario/riassunto

This book presents the select peer-reviewed proceedings of the International Conference on Advances in Bioprocess Engineering and Technology (ICABET 2020). The book covers all aspects of bioprocesses, especially related to fermentation technology, food technology, environmental biotechnology, and sustainable energy. Along with this primary theme, the focus is on recent advances in bioprocessing research such as biosensors, micro-reactors, novel separation techniques, bioprocess control, bio-safety, advanced techniques for waste to wealth generation, and nanobiotechnology. This contents are divided according to the major themes of the conference: (i) Fermentation Technology and Bioreactor, (ii) Food Pharmaceuticals and Health care, (iii) Environment and Agriculture, and (iv) Sustainable Energy. This book is intended to help students, researchers, and industry professionals acquire knowledge on innovative technologies and recent advancements in the field of bioprocess engineering and technology.