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field. Ne w Delhi v Prof. Asis Datta Dec. 24, 2007 F ormer Viceayana chancellor, INU Director, NCPGR (New Delhi) Pr eface Yeasts are eukaryotic unicellular microfungi that are widely distributed in the natural environments. Page 34/90

Although yeasts V are not as ubiquitous as bacteria in the naral environments, they have been isolated from terrestrial, aquatic and atmospheric environments. Yeast communities have been found in association with plants, a- mals and Page 35/90

insects. Several V species of yeasts have also been isolated from ana specialized or extreme environments like those with low water potential (e. g. high sugar/salt concentrations), low temperature (e.g. yeasts isolated from Page 36/90

Antarctica), and  $\vee$ low oxygen availability (e. g. intestinal tracts of animals). Around 1500 species of veasts belonging to over 100 genera have been described so far. It is estimated that only 1% of the extant yeasts on earth have been Page 37/90

described till date. Therefore, global efforts are underway to ana recover new yeast species from a variety of normal and extreme environments. Yeasts play an important role in food chains, and carbon, nitrogen and sulphur cycles. Page 38/90

Yeasts can be genetically manipulated by hybridization.ana mutation, rare ming, cytoduction, spheroplast fusion, single chromosomal transfer and transfor- tion using recombinant technology. Yeasts (e. g. Page 39/90

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FOR UNIVERSITIY & COLLEGE STUDENTS IN INDIA & ABROAD Due to expanding horizon of biotechnology, it was difficult to accommodate the current information Page 79/90

of biotechnology in detail. Therefore, a separate book entitled Advanced Biotechnology has been written for the Postgraduate students of Indian University and Colleges. Therefore, the present form of A Textbook of Biotechnology is Page 80/90

totally useful for \ undergraduate students. A separate section of Probiotics has been added in Chapter 18. Chapter 27 on Experiments on Biotechnology has been deleted from the book because most of the experiments have been written in Page 81/90

High practical Microbiology' by R.C. Dubey and D.K. Maheshwari. Bibliography has been added to help the students for further consultation of resource materials.

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four disciplines: V environmental engineering, systems biology, environmental microbiology, and ecology. These disciplines are discussed in the context of their application to achieve specific environmental outcomes and to Page 84/90

avoid problems in such applications. The book begins with a discussion of the background and historical context of contemporary issues in biotechnology. It then explains the scientific principles of environmental biotechnologies: Page 85/90

environmental q v biochemodynamic processes; environmental risk assessment; and the reduction and management of biotechnological risks. It describes ways to address environmental problems caused or exacerbated by biotechnologies. It Page 86/90

also emphasizes need for professionalism in environmental biotechnological enterprises. This book was designed to serve as a primary text for two full semesters of undergraduate study (e.g., Introduction to Environmental Page 87/90

Biotechnology or Advanced Fnvironmental Biotechnology). It will also be a resource text for a graduate-level seminar in environmental biotechnology (e.g., Environmental Implications of Biotechnology). \* Page 88/90

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