

Lecture 1: Biotechnology: A Brief Introduction

Introduction

Plant, animal and microbes have been used by humans for nutrition and development of products for consumption such as beer or bread. Understanding of Physical phenomenon has allowed the invention of different types of electronic gadgets, machines, devices and altogether these have been used to increase the efficiency of human activities. Technological advancement has also allowed him to exploit plant, animal and microbial wealth to provide products of commercial or pharmaceutical importance. All these activities (research and development) fall under the big umbrella of biotechnology. In simpler word, Biotechnology is the summation of activities involving technological tools and living organism in such a way that it will enhance the efficiency of the production. The ultimate goal of this field is to improve the product yield from living organism either by employing principles of bio-engineering/bio-process technology or by genetically modifying the organisms. For example, production of bread or other bakery items from wheat flour after adding yeast as fermenting organism (**Figure 1.1**). In India, from ancient times wheat flour has been used to prepare “Roti” but yeast has been added to the wheat flour to make it porous by CO₂ generation during fermentation. Since then this process has been very popular in bakery industry and is responsible for preparation of bread, cakes, pizza, etc.



Figure 1.1: Making of Bread from wheat flour. (A) & (B) Dough before and after fermentation, (C) Cross section of baked Bread.

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Minjie Lin



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Lectures Presented at the EU Advanced Workshop on Dynamical Modeling in Biotechnology Franco Bagnoli, Stefano Ruffo, 2001 The power of modelization in physics and in engineering is not in doubt while in the biotechnological field many theoretical studies stop at the description level It is time for theoretical modelization to enter the field of biotechnology and that needs people with both physical and biological knowledge This book introduces interested scientists with varied backgrounds to active research in different areas broadly related to what has come to be called dynamical modeling in biology

Quick Bibliography Series, 1976

Biocatalysis and Agricultural Biotechnology: Fundamentals, Advances, and Practices for a Greener Future Anjali Priyadarshini, Prerna Pandey, 2018-10-03 This new volume Biocatalysis and Agricultural Biotechnology Fundamentals Advances and Practices for a Greener Future looks at the application of a variety of technologies both fundamental and advanced that are being used for crop improvement metabolic engineering and the development of transgenic plants The science of agriculture is among the oldest and most intensely studied by mankind Human intervention has led to manipulation of plant gene structure for the use of plants for the production of bioenergy food textiles among other industrial uses A sound knowledge of enzymology as well as the various biosynthetic pathways is required to further utilize microbes as sources to provide the desired products for industrial utility This volume provides an overview of all these aspects along with an updated review of the major plant biotechnology procedures and techniques their impact on novel agricultural development and crop plant improvement Also discussed are the use of white biotechnology and metabolic engineering as prerequisites for a sustainable development The importance of patenting of plant products world food safety and the role of several imminent organizations is also discussed The volume provides an holistic view that makes it a valuable source of information for researchers of agriculture and biotechnology as well as agricultural engineers environmental biologists environmental engineers and environmentalists Short exercises at the end of the chapters help to make the book suitable for course work in agriculture biotechnology genetics biology biotechnology and plant science

Cornell University Courses of Study Cornell University, 2003

Cell-Free Synthetic Biology Jian Li, Yong-Chan Kwon, Yuan Lu, Simon J. Moore, 2022-01-13

Catalogs of Courses University of California, Berkeley, 1995 Includes general and summer catalogs issued between 1878 1879 and 1995 1997

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Journal of Engineering Education, 1998

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Stanford Bulletin, 2004

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