

Advances in various industries using enzymes by biotechnological methods

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ABSTRACT

Biotechnology is a broad area of biology, involving the use of living systems and organisms to develop or make products. The objective is to develop biotechnology approaches that will yield 'green' industrial processes that are cost effective and sustainable. Industrial biotechnology can be simply defined as the exploitation of enzymes, microorganisms, and plants to produce energy, industrial chemicals and consumer goods. Therefore, this review focuses on the various advances in biotechnological methods used in industries like Paper and Pulp, Leather, Textile by using different enzymes like Cellulose Acetate, Protease, Carbohydrase, Lipase, Amylase, Proteoglycan. It also emphasizes on the changes that can be made after implementing biotechnological methods like minimizing energy and water consumption, reducing operational costs, increasing efficiency for certain processes.

Keywords: Industrial Biotechnology, enzymes, energy consumption.

