



IGCSE Biology

Chapter 20: Biotechnology and Genetic modification

20.1 Biotechnology

Biotechnology involves using living organisms to carry out processes that make substances that we eat.

For example,

- Yeast has been used to make bread and alcohol.
- Lactobacillus bacteria have been used to make yoghurt and cheese
- Microorganisms can also be used to extract some enzymes
- Genetic engineering also uses microorganisms for obtaining substances such as insulin



Contents

20.1 Biotechnology

20.2 Genetic modification

Why microorganisms?

- No ethical issues** in using them.
- Share the same genetic code of **DNA**.
- Also have little loops of DNA called **plasmids** that can be used in moving genes from one organism's cells into other
- Microscopic structure- easy to store, and take up less space
- Can reproduce rapidly in laboratory
- Very versatile, able to produce wide range of substances



Chapter 20 Biotechnology

Scott C. Dulebohn



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