

SQG 1212

Chapter 1

INTRODUCTION TO BIOTECHNOLOGY



What is biotechnology?

- The use of live organisms or its product to solve a problem
- Involves several ancient practice
- Rapidly changed and exciting area of science
- Not new (Chinese, Greeks, Romans, Babylonians, Egyptian etc since 2000BC)
- Involved microbiology practices

History of Biotechnology

- Not a new science
- Many application represents old practices with new methodologies
- Involved Chinese, Greeks, Romans, Babylonians, Egyptian etc since 2000BC
- Fermentation to make bread

Ethics in Biotechnology

- A wide range of ethical, legal and social implications of biotechnology are a cause of great debate and discussion
- How do you feel about this idea?

Type of Biotechnology

- Fermentation Technology
- Microbial Biotechnology
- Agricultural Biotechnology (Green Biotechnology)
- Animal Biotechnology
- Forensic Biotechnology
- White Biotechnology
- Aquatic Biotechnology