

Objectives

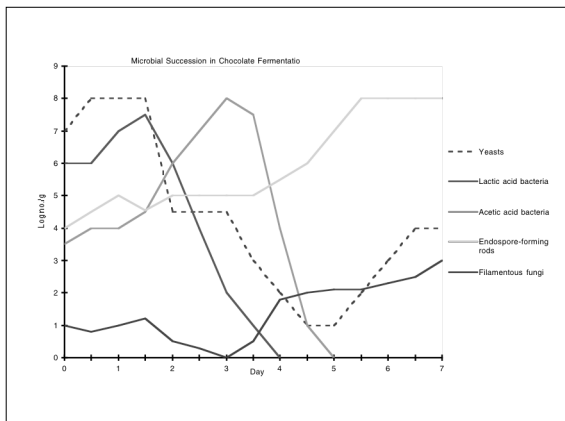
1. Define the following terms: applied microbiology, biotechnology, fermentation.
2. List the microorganisms most commonly used in industrial processes.
3. Describe the source(s) of microbes in natural fermentations.
4. List an example of each of the following types of cultures: pure culture, succession, consortia.
5. Identify an advantage and disadvantage of each of the following: continuous culture; batch fermentation; solid-state fermentation; immobilized cells.
6. List 10 microbial products.

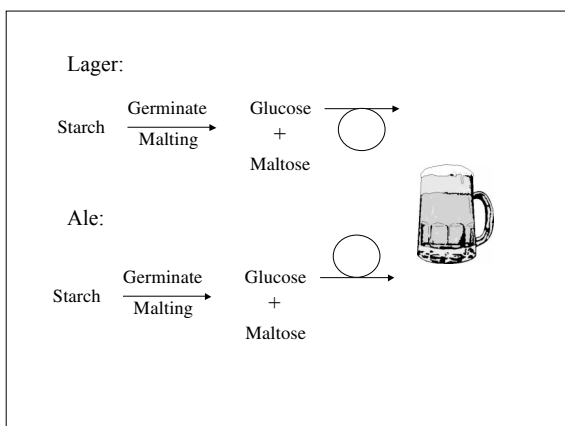
Definitions

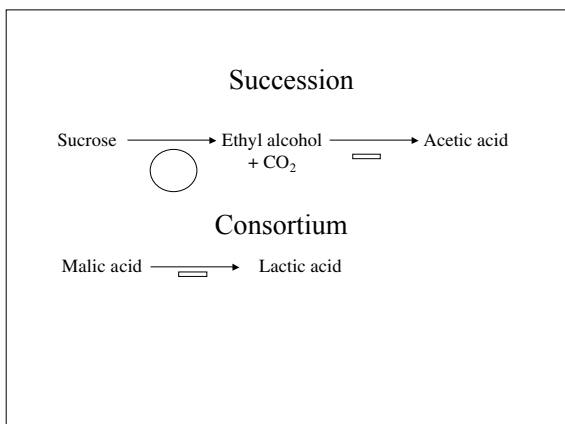
- Industrial Microbiology
- Biotechnology
- Fermentation

World History

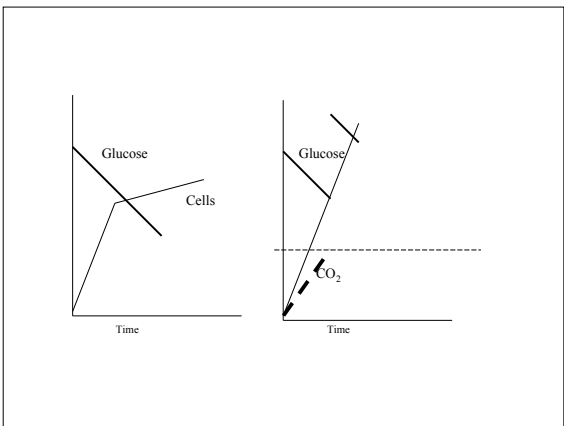
- 20,000+ years ago
- 1502
- 1620
- 1849
- 1912
- 1914
- 1939
- Now








- Primary metabolite
- Secondary metabolite
- Batch fermentation
- Continuous culture
- Fed-batch fermentation
- Solid-state fermentation



	Blue Jeans	Designer Jeans
<ul style="list-style-type: none">• Cotton• Bleaching• Sizing• Dyeing• Washing	<ul style="list-style-type: none">• <i>Gossypium</i>• Chlorine• Starch• <i>Indigofera</i>• Soap, water, washing machine	

