

Advances in Fermentation Technology (BT645)

TOPICS
Introduction to Fermentation Processes. Aerobic and Anaerobic respiration.
The Range of Fermentation Processes Primary Metabolites and secondary metabolites
Microbial Growth Kinetics - I Batch cultures, Continuous cultures, Fed-Batch Cultures
Microbial Growth Kinetics - II Batch cultures, Continuous cultures, Fed-Batch Cultures
Isolation and Improvement of Industrially Important Microorganisms
Media for Industrial Fermentation
Sterilization Techniques Employed in Fermentation Technology
Midterm Exam
Culture Preservation and Inoculum Development
Fermenter Design - I
Fermenter Design - II
Instrumentation and Control in Fermentation Technology -I
Instrumentation and Control in Fermentation Technology -II
The Recovery and Purification of Fermentation Products
The Production of Heterologous Proteins