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| King Saud University  College of Science  Department of Botany and Microbiology |  |

Workshop

MBI 493 - Training in Medical Microbiology Laboratories

“General Mycology”

**Contents**:

1. Mycology – The Study of Fungi
2. Role of Fungi in the Economy
3. Plant and Human Pathology
4. Importance of Medical Mycology
5. Basic Terms in Mycology
6. Classifications of Fungi
7. Saprophytes
8. Yeast
9. Bacteria – Like Fungi
10. Dimorphic Fungi
11. Mycoses

* Superficial Mycoses
* Cutaneous Mycoses
* Subcutaneous Mycoses
* Systemic Mycoses

1. Laboratory Methods in Medical Mycology

* Collection, Handling and Processing of Specimens
* Preparation of Specimens for Transport to Laboratory
* Appropriate Processing of Specimen to Recover Fungus
* Direct Examination of Specimens
  1. Type of Stains Used in Mycology
  2. Fungal Culturing
  3. Media Used for Isolation of Fungi
  4. Colony Morphology (macroscopic features)
  5. Microscopic Evaluation of Fungi
  6. Biochemical Studies Used to ID Yeast and Yeast-like Organisms
  7. Other Tests of Importance