

Microbiology Lab Experiment Changes

Experiment #: none – see 3-3 for example pictures.

Title: Fungi and Yeast

Live Organisms: *Penicillium*, *Rhizopus*, *Saccharomyces cerevisiae*,
Aspergillus

Changes:

1. View the demo dissecting microscopes on ends of tables. Make drawings of *Rhizopus*, *Aspergillus*, *Penicillium* molds on SAB plates. Compare to figures in lab manual. You will not be able to see much detail.

Prepared Slides

Rhizopus zygotes, *Penicillium* conidiophores, *Aspergillus* conidiophores, *Schizosaccharomyces* ascospores,

1. Make drawings of all slides on 400x (no oil!).

- Take Home Lesson:**
1. Be able to recognize *Rhizopus* zygotes, *Penicillium* conidiospores, *Aspergillus* conidiospores, and yeast ascospores on prepared slides. Distinguish between budding yeast and yeast ascospores.
 2. Be able to recognize *Rhizopus*, *Aspergillus*, and *Penicillium* molds based their morphologies on SAB plates.
 3. Define hyphae, mycelium, and aerial hyphae. Differentiate between vegetative hyphae and reproductive hyphae in terms of function and appearance on agar.
 4. Differentiate yeasts from molds (see lecture notes).