

## Microbiology Lab Experiment Changes

**Experiment #:** 3-6

**Title:** Gram Stain

**Live Organisms:** *Escherichia coli*, *Bacillus cereus*, *Staphylococcus aureus*,  
*Micrococcus luteus*, *Enterococcus faecalis*,  
*Corynebacterium xerosis*

**Changes:**

1. Each student will gram stain all six organisms.
2. Draw all 6 organisms **in color at 1000x**.
3. Save slides in your slide box.
4. You will pick your best slide and **turn it in for credit**.

**Take Home Lesson:** Gram stain tells you not only morphology and arrangement but also the cell wall structure [i.e., gram (+) or gram (-)]. You should know how the gram stain relates to the cell wall of the bacterium. You need to be able to recognize gram positive and gram negative rods, cocci, spirals and whether they occur in chains, clusters, single etc. by their appearance under the microscope. You should begin to associate particular organisms with their gram stain morphologies. You must know the reagents and the function of each in the staining procedure.