**Quantitative systems s2013**

**Antibiotic resistance lab**

**Week #3: Laboratory preparations – antibiotic sensitivity testing**

Kate - Please have the following materials available to the students during the lab period of laboratory #3.

Per Person

* 21 Mueller-Hinton plates (or Luria broth)
  + 21 x 20 students per class x 2 classes = 840 plates
* 21 sterile swabs
* 21 1.5 ml microcentrifuge tube containing 1ml isotonic solution
* 21 disposable sticks

Available at each set of desks

* pipetteman and tips (for antibiotic solutions)
* vortex
* parafilm
* markers (sharpies)
* prepared antibiotic solutions (cipro, tet, ampicillin and kanamycin)
* sterile discs (for antibiotics)
* several extra sterile swabs, loops and extra plates
* sterile forceps
* gloves
* trash container

Available for the entire class

* shelf in an incubator
* shelf in a refrigerator
* clear rulers

The students may need additional plates due to poor lawns. Though there is no way to know the exact number, about 5 plates per person would suffice.

Chris – Please have the following materials available to the students during lab period of laboratory #2.

* Controls
* examples