**Clinical laboratory department**

**ANTIMICROBIAL AGENTS**

**Cls542**

**Projects for 2014**

**Sarah Alharbi**

**Sarralharbi@ksu.edu.sa**

**Project1: characteristics and antibiotic resistance in staphylococcus aureus**

1. Characteristics of staphylococcus aureus
2. Disc diffusion antimicrobial Susceptibility testing
3. Inducible Macrolide resistance in staphylococci- The D test
4. Penicillinase production by staphylococci ( the β-lacatamse)

**Projrct2: Antibiotic resistance in Enterobacteriacae**

1. Detection of Extended spectrum β-lacatamse (ESBL) production in Enterobacteriacease
2. The Imipenem-EDTA double-Disk Test

**Project 3: Wound infection by Enterobacteriace (wound swab) :**

* 1. Examine Blood agar, MacConkey agar plates and gram stained smear
  2. Identification by API strip
  3. Determination of MIC by E strip.