E. coli Transformation

- 1. Take 1 tube of competent cell (100µl), thaw it on ice.
- 2. Add 7µl of a ligation product or 2µl BP/LR *in vitro* recombination product to the competent cell and incubate the sample on ice for 30 min. During the incubation, check that a water bath or heat block is ready at 42°C. In addition, take an LB plate containing the right antibiotic out of the refrigerator, and keep it at room temperature.
- 3. Heat shock the cells at 42 °C for 90 seconds; put the tube on ice immediately and incubate it on ice for 2 min.
- 4. Add 500µl LB (without antibiotic) and incubate the sample at 30 °C or 37 °C for 1 hour with shaking or rotating. During this time, place the LB plate in a 37 °C incubator.
- 5. Place 15-20 autoclaved glass beads in the LB plate. Plate 200ul cells in the LB plate and spread the bacteria be gentle shaking. Incubate at 37 °C at least 12 hours. Store the leftover culture in a refrigerator till you know your plate is fine the next day.