

Group exercise on experimental design

1. You will determine microbial community patterns along tomato roots (rhizosphere) using denaturing gradient gel electrophoresis (DGGE)
2. You have two treatments: soil management (organic versus conventional) and sampling depth along roots (10 depths)
3. A DGGE gel has 16 lanes; you need 4 of them for markers.
4. You have 3 plants for each treatment
5. How will you arrange the treatments on the gels?
6. Which statistical analysis will you do?

Make a drawing of the treatments on the gels. Don't forget to randomize!

A random number table will be handed out.