

## **Sampling Protocol for G2F Microbiomes**

2017 & 2018 Collaboration with Indigo Ag

*Note: Tools do not have to be sterilized before or between collecting samples*

### **Plant samples (tissue & rhizosphere)**

- Choose 5 plants from the field border (ideally in an early developmental stage, such as V3-V5)
- Dig around the plant and put the entire plant and rhizosphere (=soil near the root) into a sample bag.
  - Rhizosphere should include ~1 inch of soil around the roots
  - If plants are at later development stages, include a sample of leaf, stalk, root, and rhizosphere in the bag.
- Place into a cooler with ice packs and mail overnight for processing.

### **Soil samples**

- Choose 5 locations around the planted field
- Use a trowel (or similar) to put one scoop from each location into individual bags. (=5 bags with 1 scoop each for the entire field.)
- Place into a cooler with ice packs and mail overnight for processing.

### **Metadata**

- Record sample location, date, growth stage, and GPS coordinates for each sample, plus any additional notes.
  - 2018 also requested the plant variety, seed treatment, any stress treatments, name of farm owner, and previous crop.