Fruit tree twigs

- Extract molecules (DNA, RNA, protein, chemicals)
- Wet final product
- Sample sizes: 50 to 150 mg.

Notes on the protocol: This protocol does not specify a particular buffer - you may choose which is most appropriate for your downstream application (nucleic acid isolation, protein extraction, etc.).

Materials Required

One of these Bullet Blenders

- **Bullet Blender 5E** (BBY5E)
- **Bullet Blender 5 Gold** (BB5E-AU)

Reagents

Homogenization buffer
        500 µL

Bead choices

- **5.6 mm stainless steel UFO beads** (SSUFO56) use 6 beads

Procedure
1. Select a 3-4 cm. long section of stem. Cross-cut into pieces approx. 1 cm. long
2. Add the sample, buffer and beads to the tube in the amounts shown above. Sample volume may be approximated by sample weight.
3. Set the controls for Speed 12 and Time 5. Press Start.
4. After the run, remove the tubes from the instrument and visually inspect the samples. If homogenization is incomplete, repeat the homogenization step at a higher speed.
5. Proceed with your downstream application.