Pear Rootstock Breeding Program

**Problem:** The pear industry needs **dwarfing** rootstocks to enable modern, high-density and profitable orchard systems.

**Project Goal:** Breed and select new dwarfing pear rootstocks for the PNW

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**Germplasm Collection**

**Genotyping**

**Propagation**

**Grafting with standard scion(s)**

**Marker-Trait Association**

**DNA-based Tool Development**

**Parent & Seedling Selection**

**Corvallis Accessions**

**BxA & BxC**

**SNP Genotyping Assay**

**1. Diverse Germplasm**

**2. Replicated Selected Seedlings**

**3. Aneuploid Populations**

**4. Seedling Populations**

**Selection**

**Traditional Crosses**

**Marker-Trait Association**

**Bi-parental seedling populations at Columbia View**

**Replicated selected seedlings at Columbia View**

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