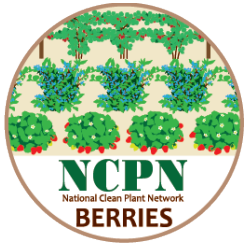
# What is the National Clean Plant Network (NCPN)?

- A national network of clean plant centers, scientists, educators, state and federal regulators, and growers and nurseries.

- Focused on providing healthy planting stock of vegetatively propagated specialty crops to nurseries and growers.







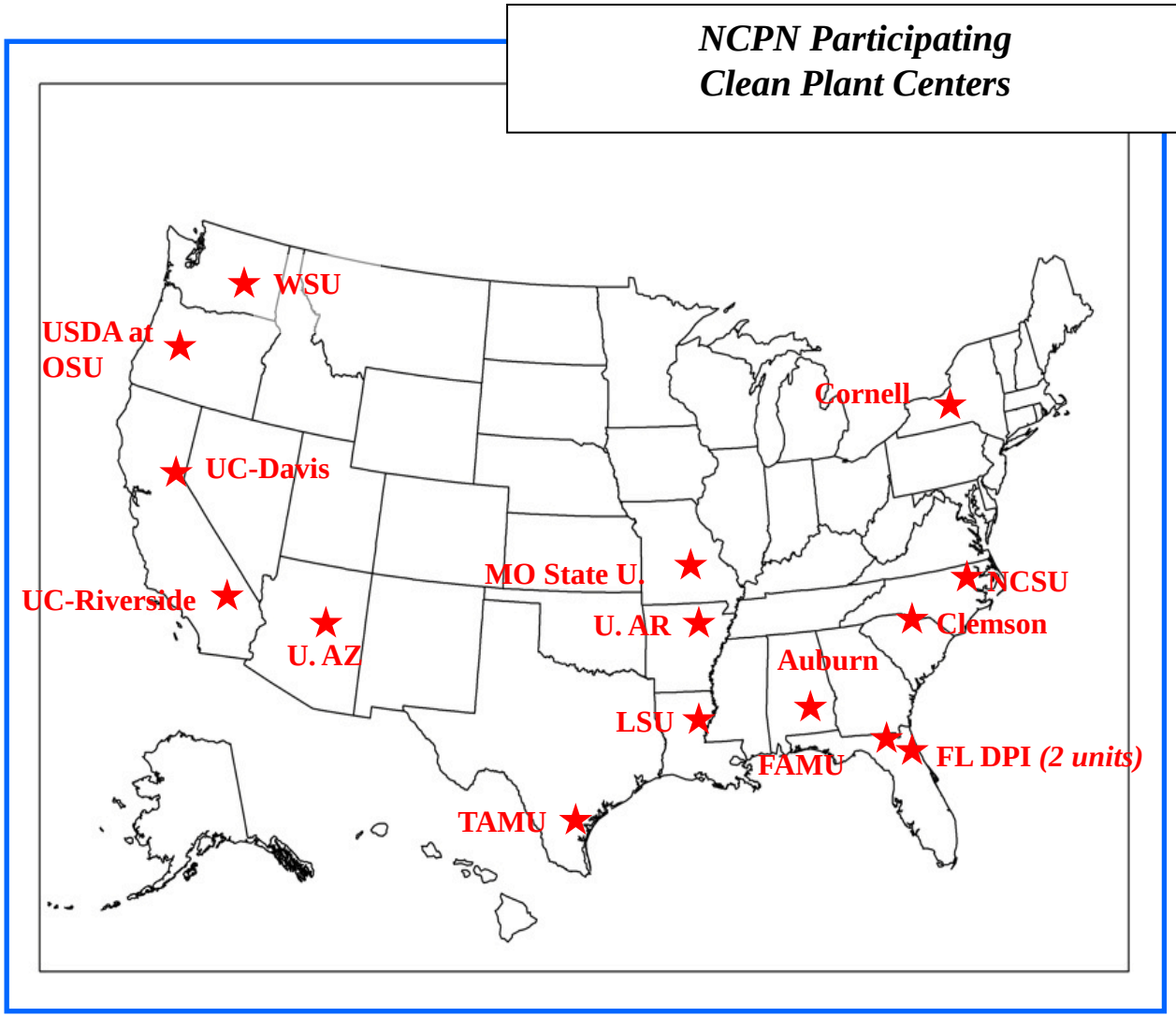

# Participating Crops:


1. Fruit Trees
2. Grapes
3. Berries
4. Hops
5. Citrus

Others interested in joining

***www.nationalcleanplantnetwork.org***

# Clean Plant Centers

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- Clean Plant Centers provide clean, tested propagation stock to nurseries throughout the United States and world.

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- Clean Plant Centers rigorously test mother plants using standards that are often stricter than state and federal requirements.

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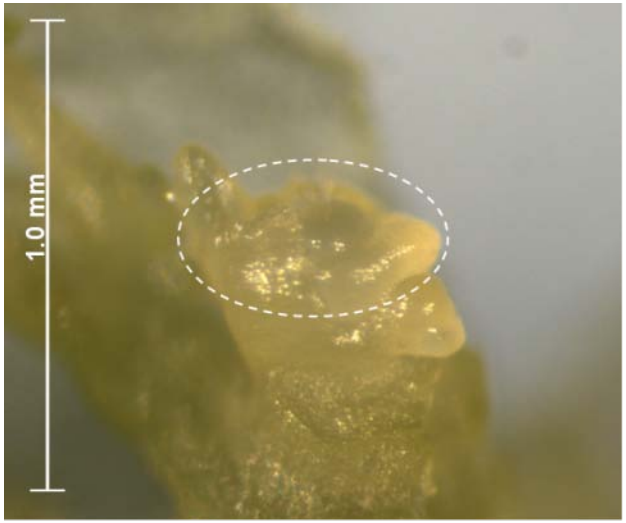


- Clean Plant Centers eliminate viruses using heat therapy and/or microshoot tip culture.

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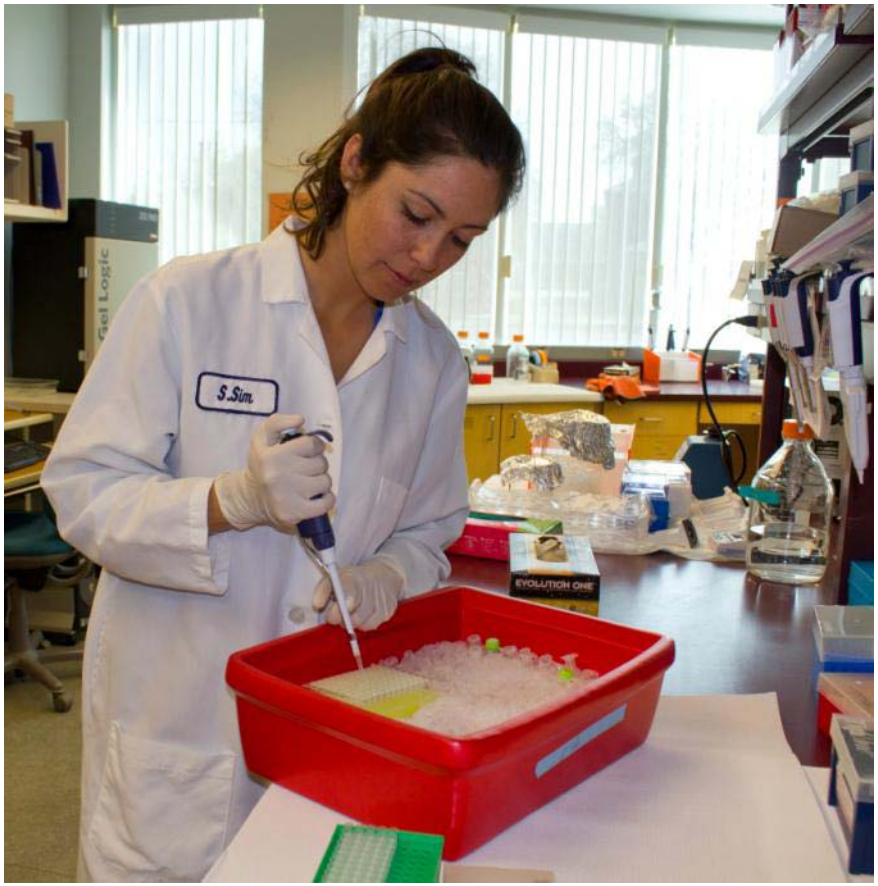


- Clean Plant Centers develop state of the art techniques for detecting pathogens.

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- Clean Plant Centers import and quarantine new varieties of interest to growers.

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- Clean Plant Centers establish and maintain extensive Foundation Mother blocks with regular disease monitoring.





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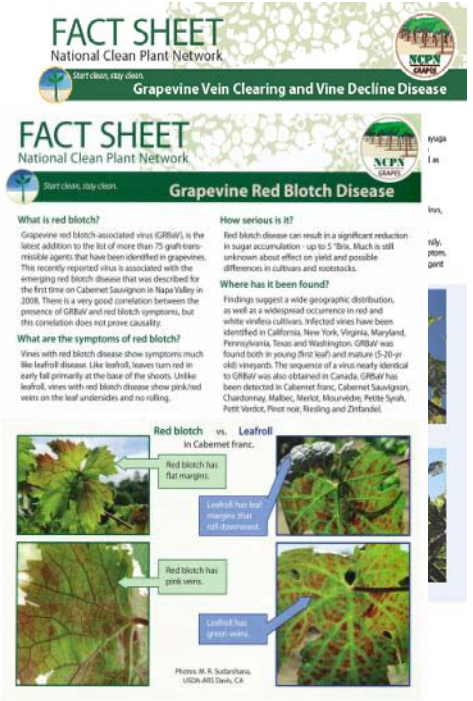
# NCPN Publications



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# Foundation Plant Services

## DNA ID Testing & Profiling Services

http://fps.ucdavis.edu/IDTesting.html

Foundation Plant Services offers DNA-based varietal identification and profiling on a fee-for-service basis for the fruit and nut tree types listed on the right. The services make "DNA Fingerprinting" technology available to nursery managers, growers, breeders and fruit tree enthusiasts. Varieties are identified by comparing the DNA profile of a sample to DNA Identification Reference Databases, which are specific to each crop. The databases contain DNA profiles of most important varieties of the past and present and includes many rootstocks. FPS offers two different services listed below. Both domestic clients and clients from outside the U.S. may submit samples for analysis. Results are typically ready in three to four weeks.

**Available Tests:**

-Grape -Almond
-Apple -Apricot
-Cherry -Peach
-Plum-Walnut
-Strawberry

**Service 1: DNA Identification of Varieties**

This service determines or confirms the varietal identity of a particular plant. A sample from the plant in question is typed with microsatellite DNA markers. The resulting DNA profile (the DNA Fingerprint) is compared with Foundation Plant Services' Databases of Reference Profiles. Leaves are the standard sample, but other tissues including fruit, roots and dormant cuttings can also be fingerprinted. Sample collection materials and instructions are provided as part of the service.

**Price: 1-5 samples $345 per sample**
**6 or more samples $265 per sample**

(There is a $50 per sample surcharge for all sample types other than leaves.)

**Service 2: DNA Profiling of Varieties** (not available for strawberry)

This service provides a unique DNA profile (DNA Fingerprint) of a variety. Two separate samples of the variety are typed at a number of microsatellite DNA markers sufficient to ensure to an extremely high degree of confidence that the profile is unique to the variety. The resulting profile is provided to the client.

**Price: DNA Profiling $1000 per sample**

(Only leaf samples are accepted for the DNA Profiling Service.)