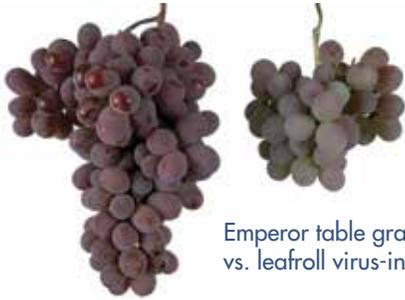




# NCPN GRAPES

National Clean Plant Network Grapes

Start clean, stay clean. [ncpngrapes.org](http://ncpngrapes.org)



Emperor table grapes from healthy vs. leafroll virus-infected vines

Many disease caused by viruses and virus-like organisms are easily spread by using infected plant material. These diseases are often difficult or impossible to notice until a vineyard is established.

## What is the NCPN-Grapes?

The National Clean Plant Network for Grapes is an association of clean plant centers, scientists, educators, state and federal regulators, and nurseries and growers from the wine, table, raisin and juice grape industry that act together to ensure that grapevine budwood and rootstock is clean and available.

It was established in 2008 and is part of the NCPN specialty crops network. The network operates under the umbrella of the United States Department of Agriculture (USDA).

## NCPN Grapes clean plant centers improve the health and productivity of vineyards in the U.S.



We provide clean, tested propagation material to grapevine nurseries and growers throughout the United States and world.



We rigorously test vines for viruses for at least two years using testing standards that are stricter than state and federal requirements.



We eliminate viruses using microshoot tip culture.



We import and quarantine new grapevine varieties and selections from overseas to reduce the risk of bringing in pests and diseases that can be difficult and costly to control.



We develop state of the art techniques for detecting pathogens.



We establish and maintain extensive Foundation Vineyards with regular disease monitoring.

A clean grapevine is one that has been tested and found free (clean) of damaging viruses and other virus-like pathogens. Clean grapevines are key to higher yields, higher quality fruit and cost-effective, sustainable grape production.

# NCPN Grapes Clean Plant Centers



## Cornell University, Geneva, New York

- » Leader in testing for *Agrobacterium vitis*, the pathogen that causes crown gall disease.
- » Manages research/evaluation quarantine plantings; has facilitated the introduction of new accessions and clones from Europe.
- » Propagates and disseminates clean plant material.
- » Virus testing and elimination.
- » Explores innovative methods to improve accuracy and sensitivity of tests for pathogens.
- » Conducts outreach programs with an emphasis on New York State and the eastern United States.

## Midwest Center of NCPN-Grapes, Missouri State University

- » Maintains Foundation Vineyard with varieties important to midwestern and eastern growers - Norton, Chambourcin, Chardonnay, Vignoles, Vidal blanc, Cayuga White and Traminette.
- » Virus testing and research.
- » Continues to research a new grapevine DNA virus associated with vein clearing and vine decline disease in the midwest.

## Center for Viticulture & Small Fruit Research, Florida A&M University

- » Maintains Foundation Vineyard of economically important southern grapes: muscadine (*Muscadinia rotundifolia*) and Florida native hybrid varieties - Noble, Carlos, Magnolia, Blanc du Bois, Stover, and Conquistador.
- » Virus testing and elimination.
- » Conducts outreach programs.

## Foundation Plant Services, University of California, Davis

- » Headquarters for the National Clean Plant Network for Grapes.
- » Maintains Foundation Vineyard with over 750 cultivars and 1500 clones from within and outside the U.S.
- » Virus testing and elimination.
- » Leader in the development of new detection techniques.
- » Importation and quarantine services for new varieties and clones since 1958.
- » Provides the germplasm for the California Department of Food and Agriculture's Grapevine Registration and Certification Program.
- » Conducts outreach programs.

## Clean Plant Center Northwest (CPCNW), Washington State University, Prosser

- » Maintains Foundation Vineyard with over 280 selections of wine, juice, table grapes and rootstocks.
- » Maintains Foundation screenhouse for added protection from insect transmitted diseases.
- » Virus testing and elimination.
- » Conducts outreach programs.



## About the National Clean Plant Network (NCPN)

Established in 2008 and supported by the US Department of Agriculture, the NCPN is a national network of clean plant centers, scientists, educators, regulators and industry representatives who are concerned with the health of vegetatively propagated specialty crops.

[nationalcleanplantnetwork.org](http://nationalcleanplantnetwork.org)