Shared resources available to the NCPN

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About UC Integrated Viticulture Online

This website is designed and maintained by the University of California (UC) Division of Agricultural and Natural Resources (ANR) Integrated Grape Production Workgroup to increase accessibility to the work of UC researchers, including faculty, Cooperative Extension (CE) specialists, CE advisors, and staff.

The Integrated Grape Production Workgroup integrates the knowledge of Agricultural and Environmental Science (AES) researchers, CE specialists, CE advisors, and affiliated USDA scientists working in wine grape, table grape or raisin production, with the goal of ensuring a beneficial and productive collaboration in research and extension to clientele throughout California.

Your suggestions for this website are appreciated. Please contact Deborah Golino dagolini@ucdavis.edu or Bever Ferguson beverferguson@ucdavis.edu.
UC Researchers

Contact information for viticultural specialists at the University of California is listed under 'All UC Viticultural Researchers.' Faculty, farm advisors, and researchers with areas of expertise in grape growing or related pests, diseases and practices are listed.

All UC Viticulture Researchers

Note to the specialists listed: if your contact information is incomplete or inaccurate, please log on to your ANR portal and update your profile. It can be accessed at https://my.ucanr.org. If you are a specialist in one of these areas and would like to be added, contact Bev Ferguson.

Contact the Webmaster at: bevferguson@ucdavis.edu
Agriculture and Natural Resources, University of California.
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Viticultural topics are arranged by general category. Please click on a category to display further options. Detailed information, photographs, articles and links to researchers and websites are provided as they become available.

**Breeding**  
**Cultural Practices**  
**Disorders and Injuries**  
**Grape Varieties**  
**Insects and Mites**  
**Irrigation**  
**Nutrition**  
**Plant Materials**  
**Raisin Grape Production**  
**Rootstock**  
**Soil Microbes**  
**Table Grape Production**  
**Vineyard Floor Management**  
**Weeds**  

**Cover Crops**  
**Diseases**  
**General Viticulture**  
**Graphic Information Systems (GIS)**  
**Integrated Pest Management**  
**Nematodes**  
**Pesticide Application and Safety**  
**Postharvest Information**  
**Resources within UC**  
**Rootstock Varieties**  
**Statistics**  
**Vineyard Economics**  
**Water Management**  
**Worker Health and Safety**

This website is a work in progress of the University of California (UC) Division of Agricultural and Natural Resources (ANR) Integrated Grape Production Workgroup. It is designed to increase accessibility to the work of UC researchers, including faculty, Cooperative Extension (CE) specialists, CE advisors, and staff. UC Researchers interested in contributing content are invited to contact Deborah Golino dagolino@ucdavis.edu to discuss possible contributions.
Plant Materials

Foundation Plant Services
Grapevine Importation and Quarantine
National Grape Registry

Grapevine Clean Plant Workshop June 20, 2006
Microshoot Tissue Culture
The California Grapevine Registration and Certification Program
Vine Selection and Clones

This website is a work in progress of the University of California (UC) Division of Agricultural and Natural Resources (ANR) Integrated Grape Production Workgroup. It is designed to increase accessibility to the work of UC researchers, including faculty, Cooperative Extension (CE) specialists, CE advisors, and staff. UC Researchers interested in contributing content are invited to contact Deborah Golino dagolino@ucdavis.edu to discuss possible contributions.
A workshop was offered on Jun 20, 2006, by UC Davis Extension. This workshop was recorded with Breeze technology and may be viewed on line at the links below. At this time, the California Grapevine Registration and Certification (R&C) program is undergoing a review. These regulations serve both California grape growers and grape producers. The workshop was organized to introduce attendees to some of the technical issues which will need to be considered as the revised regulations are developed by the California Department of Food and Agriculture (CDFA).

Lecture included speakers from UC Davis who are currently working to improve the California R&C Program. Dr. Deborah Gnilo, Director of Foundation Plant Services (FPS) in the College of Agriculture and Environmental Sciences at University of California, Davis, presented background information about the effects of the grapevine viruses on vineyard productivity and quality. Dr. Adrii Rowhani, Plant Pathologist, Foundation Plant Services, UC Davis discussed the usage of different grapevine testing strategies in clean stock programs and for samples from field sites. Dr. Christian Leutenegger, Director, Lucy Whittaker Molecular and Diagnostic Core Facility, School of Veterinary Medicine, talked about exciting progress in the use of real-time PCR for grapevine virus testing which may greatly reduce the turn around time for testing and improve the accuracy results.

Bill Ogden, CDFA, outlined the process necessary for updating the Grapevine R&C Program and shared his experience with this and similar programs.

An important part of any certification scheme is the professional identification of the grapevine varieties in the program. Dr. Andy Walker, Department of Viticulture and Enology, UC Davis, one of the premier scientists in the world, talked about the techniques which can be used for this key step in clean plant programs.

There are a number of disease problems that affect grape planting stock that are not currently addressed in the California Grapevine R&C Program. Tom Burr, Professor of Plant Pathology, Cornell University, discussed strategies for controlling crown gall in nursery stock. Jerry Uyemoto, USDA-ARS/Research Plant Pathologist, Davis, reviewed the biology of some of the new agents which he has discovered.

The day ended with a panel discussion of the benefits and difficulties of field diagnosis using laboratory testing led by UC Grape Advisor Steve Vasquez.

Links:
Adobe/Macromedia Breeze Presenter modules provide on-demand viewing of previously recorded PowerPoint presentations with streaming video and audio on the Web. They feature large, high-quality still images with synchronized audio and video; automatic linear playback or manual random Powerpoint-like navigation; and a keyword search of slide text and notes. As Flash movies they are platform independent, but they do require Flash Player 6 or higher, which is currently installed on most computers. These modules were produced by UC Davis IET Multimedia.

Speakers and their presentations may be viewed in video on the following links:

Grapevine Virus Diseases - The Primary Reason for Clean Stock Programs.
- Dr. Deborah Gnilo, Director, Foundation Plant Services, UC Davis.
- Dr. Andy Walker, Department of Viticulture and Enology, UC Davis.

Detecting Grapevine Viruses and Other Diseases.
- Dr. Adrii Rowhani, Plant Pathologist, Foundation Plant Services, UC Davis.

The Application of Molecular Diagnostics and Real-Time PCR to Grape Clean Stock.
- Dr. Christian Leutenegger, Director, Lucy Whittaker Molecular and Diagnostic Core Facility, School of Veterinary Medicine, UC Davis.

Classical and Molecular Methods to Identify Grapevines.
- Dr. Andy Walker, Department of Viticulture and Enology, UC Davis.

The CDFA Grapevine Registration and Certification Program.
- Bill Ogden, Associate Agricultural Biologist, California Department of Food and Agriculture.

Strategies for Controlling Crown Gall in Nursery Stock.
- Dr. Tom Burr, Professor of Plant Pathology, Cornell University.

Ethical GTA - Work for the Future.
- Dr. Jerry Uyemoto, USDA-ARS/Research Plant Pathologist, Davis.

The Benefits and Difficulties of Field Diagnosis Using Laboratory Testing.
- Steve Vasquez, UC Viticulture Advisor.

Panel Discussion - Questions and Answers.
THE DANGERS OF SAMSONONITE IMPORTATION

PPV on nectarine

Pierce’s Disease
http://www.ngr.ucdavis.edu

Flash Player or QuickTime Player required. [Enter Site]
Welcome to NGR

The National Grape Registry (NGR) contains information about varieties of wine, juice, and table grapes, raisins, and grape rootstocks available in the United States. Growers, nurseries, winemakers and researchers can find background information and source contacts for those grape varieties in this single convenient location.

NGR is supported by University of California Agriculture and Natural Resources, Foundation Plant Services, and the National Clonal Germplasm Repository of the USDA Agricultural Research Service.

Home Page
List of Grapevine Varieties

Click on first letter of desired variety

Many grape growers, wine makers, and researchers want to increase the diversity of grape varieties used for wine, food, juices and raisins. They seek new or unique grape material for both established and emerging wine regions. There are questions as to whether a variety or clone is suitable for a certain area and whether there is clean plant material available locally for desirable clones. Until now, there has been no central site to answer these and other questions about all the grape material in the United States.

-A-
Adobe Giant 44
Aglianico
Albania
Albariño
Albilla Mayor

You can access information for all grape varieties available in the United States through this site. Each grape variety is profiled by origin, identity, and characteristics. A detailed list of synonyms is provided, allowing you to clarify your search for the grape you want. References to source information for the data allow you to explore your grape variety of interest in further detail, should you wish to do that. To locate a particular wine, juice, table or raisin grape variety or grape rootstock, please click above on the first letter of the variety name or below on the entire name.
Aglianico

Prime Name: Aglianico
All synonyms: Aglianichello, Aglianico di Castellaneta, Aglianico Femminile, Aglianico Mascolino, Aglianico Zerpuloso, Aglianicone, Aglianicuccia, Agliano, Agliatica, Ellanico, Ellenico, Fiano Rosso, Gagliano, Gnanica, Granica, Prie blanc, Uva Catellaneta, Uva dei Cani, Uva nera
Countries of Origin: most commonly associated with Italy
Species: *V. vinifera*
TTB Prime Name: Aglianico
References: 2 6 8 15
Berry Color: Black
Uses: Wine
Comments: 6-Origin could be Greece

Details of entry on Aglianico

This variety is available at:
- Foundation Plant Services
- Grey Creek Viticultural Services Inc.
- Novavine, Inc.
- USDA-ARS - National Clonal Germplasm Repository
Commercial Grapevine Nurseries

The commercial nurseries on this site sell grape plant material for wine, table, juice, jelly, raisin, and rootstock purposes. You will see that the listed nursery sources are generally equipped to handle large orders (hundreds or thousands of vines) on a wholesale basis to growers in other commercial interests. Certain outlets require the purchase of a minimum number of vines. Please be advised that our nurseries welcome everyone to explore their websites but do not sell finished plants to the general public. Information for the retail purchase of grapevine materials may be obtained through local retail nursery outlets.

This page contains the links that will take you to the contact information for each source of grapevine material. You can see all the nurseries located within a particular state by clicking on the state abbreviation located after the name of any individual nursery. You can access a particular nursery by either clicking on the first initial of the name of the desired nursery (above) or by clicking on the actual name of the source (below). Each business is responsible for the content of its own link, and this website makes no representation as to the accuracy of information presented there.

On the link for each source, you will find information on how to contact the nursery and order the plant material and a description of what grape products are offered. Any commercial nursery that wishes to be added to this website should contact the website coordinator, Nancy Sweet, at (530) 752-8646 or nlswed@ucdavis.edu.

Directory of Commercial Grape Nurseries

Can search by name

Or click on state......
Directory of Commercial Grape Nurseries

List of nurseries by state: ‘OR’ (view all states)

-A-
  Advanced Vineyard Systems, Inc. (OR)
  top of page

-B-
  Brigadoon Vineyards (OR)
  Broadacres Nursery (OR)
  top of page

-C-
  Char-Dor Ranch (OR)
  top of page

-L-
  Lon Rombough (OR)
  top of page

-M-
  Meyer Nursery & Orchards, Inc. (OR)
  top of page

-N-
  Northwoods Nursery, Inc. (OR)
  top of page

-W-
  Witness Tree Vineyard (OR)
There are several public collections in the United States which provide grape plant material to the public. Those collections are associated with the United States Department of Agriculture and/or three Experiment Station universities located in California, Missouri and Washington State.

The USDA has two large grape collections, one in Geneva, New York, and one in Davis, California. Plant material is provided to researchers and commercial horticulturists from both locations. The Geneva location operates in conjunction with Cornell University and specializes in grapes which thrive in colder climates. The Davis repository has a climate which allows for a large collection of grape material from all over the world. Both sites contain material from nearby breeding programs at Cornell University and the University of California at Davis, respectively. The plant lists available at the two public sites include grapes which are commercially useful at the present time, as well as species and breeder material which might be of interest to researchers, breeders and academic programs.

The public programs associated with the major public universities (Foundation Plant Services at UC Davis, the Missouri Grape Importation and Certification Program at M.S.U.- Mountain Grove, and the Northwest Grape Foundation Service at Washington State University) are focused on providing clean stock to grape growers. Plant material obtained from those sources is the subject of testing and research designed to detect and prevent viruses and other grape plant diseases. The plant lists available at these public sites include plant material of commercial interest to growers throughout the United States.

You can access each public site by clicking on the name of the public site of interest. There you will find contact information and a list of the varieties available at the site. If there are any
The Davis NCGR on the Public Collection Page

The following varieties are available from this collection:

- Adobe Giant 44
- Aglianico
- Albania
- Albany Surprise
- Alden
- Aleatico
- Alicante Bouschet
- Alice
- Alicante
**Cabernet Sauvignon**

**Prime Name:** Cabernet Sauvignon

**All synonyms:** Budeos Tintos, Bidure, Bordeaux, Bordo, Bouschet, Bouschet Sauvignon, Breton, Budeos Tinto, Cabernet Petit, Carbonet, Carmenet, Castet, Kaberne Sovinjon, Lafet, Lafit, Marchacpet, Navare, Petit Bouschet, Petit Cabernet, Petit Vidure, Petite Cabernet, Petite-Eouschet, Petite-Vidure, Sauvignon Rouge, Vauclus, Veron, Vidure

**Selections:** View Clone List

**Countries of Origin:** France

**Species:** V. vinifera

**Pedigree:** Cabernet franc × Sauvignon blanc

**TTB Prime Name:** Cabernet Sauvignon

**References:** 2 3 6 8 15 32

**Berry Color:** Black

**Uses:** Wine

This variety is available at:
- [Concord Nurseries, Inc. - Foster Grapevines](#)
- [Duarte Nursery, Inc.](#)
- [Foundation Plant Services](#)
- [Grey Creek Viticultural Services Inc.](#)
- [Guillaume Grapevine Nursery, Inc.](#)
Species: Vitis vinifera  
Country of origin: France  
Usage: Wine  
Common synonyms: Petite  
Cabernet, Vignon, Petite-Viognier,  
Bouche, Petite-Bouche, Bouchet  
Sauvignon, Sauvignon Rouge,  
Burdeos Tintos  
Comments: The TTB-approved prime name is Cabernet Sauvignon  
Cabernet Sauvignon is the most important variety in the Bordeaux region of southwest France, but it is increasingly important in the Languedoc region of southern France. It is also grown widely in eastern Europe, Australia, Chile, Argentina, and in the United States, in California and Washington. In California the variety has increased dramatically in the past 20 years in moderately warm regions, especially in high-irrigation Region I to high Region II, such as central Napa Valley, as well as in Region IV, such as Lodi in the northern San Joaquin Valley. Recently Cabernet Sauvignon was shown to be a cross between Cabernet franc and Sauvignon blanc.  
Cabernet Sauvignon often produces blind buds typically in the mid-cane region, nodes 6 through 10 on a 12-node cane. This is a particular problem in the training phase when long canes are laid out on the training wire to become cordons. Blind buds on these canes preclude normal spacing of spurs.  
Lateral shoot production is prodigious, and shoot thinning removes unwanted shoots at the base of two-node spurrs or at the head of cane-pruned vines.  
Cabernet Sauvignon is used exclusively for high-quality to middle-quality, dry table-wines. Small amounts may be blended into Merlot or Cabernet Franc wines to provide more tannin structure. Grapes grown in areas too cool for the variety can develop a highly undesirable hebecious or “green bell pepper” aroma in very shaded conditions. In areas too warm for the variety, fruit will not develop normal varietal character.

People  
Peter Christensen  
Matthew Fidelibus  
Paul Verdelho  
James A. Wolpert

Links  
Foundation Plant Services at UC Davis is the source of Foundation grapevine material for the nursery industry, and the staff can provide information about possible sources for obtaining this stock.

The National Grape Registry (NGR) contains information about varieties of wine, juice, and table grapes, raisins, and grape seed stocks available in the United States. Growers, nurseries, winemakers and researchers can find background information and source contacts for those grape varieties in this single convenient location.

Publications  


Glossary of Terms


Accession
The word 'accession' is used in certain grape collections, such as those of the USDA/ARS repository collections in Davis CA and Geneva NY, to indicate a single vine contained within the collection.

Agricultural Research Service
The ARS is the USDA's chief scientific research agency, dedicated to finding solutions to agricultural problems. ARS provides information access and dissemination to ensure high-quality, safe food and other agricultural products. [http://www.ars.usda.gov]

Agro-Hula Nursery
This is a nursery in Portugal.

Alcohol and Tobacco Tax and Trade Bureau
The Alcohol and Tobacco Tax and Trade Bureau (TTB) is a unit within the U.S. Department of the Treasury. One of the stated missions of the TTB is to ensure that alcohol products are labelled, advertised and marketed in accordance with law. The TTB is responsible for approving grape vine names and synonyms which are used on wine labels in the United States. [http://www.ttb.gov/]

Animal and Plant Health Inspection Service
APHIS is a federal agency within the USDA. APHIS facilitates domestic and international marketing of U.S. agricultural products and ensures the health and care of plants. [http://www.aphis.usda.gov/]

Armstrong block
The Armstrong block refers to a vineyard on the University of California, Davis, campus.

ARS
The Agricultural Research Service (ARS) is the USDA's chief scientific research agency, dedicated to finding solutions to agricultural problems. ARS provides information access and dissemination to ensure high-quality, safe food and other agricultural products. [http://www.ars.usda.gov]

Top of page
B.

Budding
Budding is a propagative technique where one unites a single bud and a rootstock cutting or growing grapevine so that both parts produce tissue and form a union that allows the bud to survive and grow.

Top of page
C.

California Department of Food & Agriculture
CDFA is the state agency that oversees the California Grapevine Registration & Certification Program.

California Grapevine Registration & Certification Program
The concept of maintaining a foundation stock planting of disease-tested grapevine nursery stock was developed in California in the 1950's. In 1956, the California Department of Food & Agriculture (CDFA) established the California Grapevine Registration & Certification Program, which provided for voluntary participation by nurseries and licensed propagators and targeted the elimination of specific grapevine virus diseases. Foundation Plant Sanctions was created in 1986 to maintain virus-tested propagating sources of foundation materials for distribution to grapevine nursery participants and other members of the public. The program was one of the first clean stock programs in the world.
FPS WEB-BASED DATABASE
A NCPN WEBSITE? MINUTES, AGENDAS, AND A LOGO?

GRAPES

FRUIT & NUT TREES

STRAWBERRIES
Thank you!