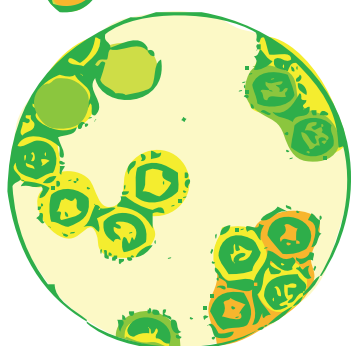
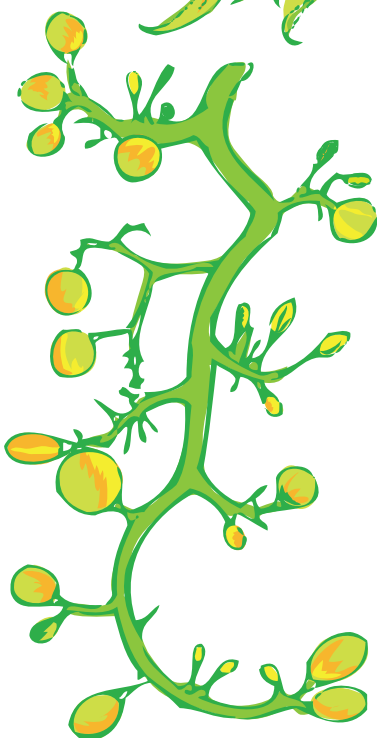




17th Congress of the  
International Council for  
the Study of Virus and  
Virus-like Diseases of  
the Grapevine (ICVG)

October 2012



**Program Guide**

# Our Thanks to our ICVG Supporters

We would like to acknowledge the special support of many who have made the 17th meeting of the ICVG possible. Because of their generosity, this meeting will be a memorable one.





# Welcome

It is a pleasure to welcome back all of our colleagues and friends from around the world to the University of California at Davis for the 17<sup>th</sup> Congress of the International Council for the Study of Virus and Virus-like Diseases of the Grapevine (ICVG). ICVG has not meet in Davis since the early days for our organization in 1965. We feel honored to host this meeting celebrating 50 years of progress for ICVG. We hope that you will enjoy the scientific presentations, opportunities to make new connections, and our beautiful state of California.

I would like to thank all of the attendees for coming, our sponsors for their financial support and the staff at Foundation Plant Services for their many hours spent organizing the meeting and field trips.

Deborah Golino Chair,  
17<sup>th</sup> ICVG Organizing Committee

*ICVG Steering Committee*

Giuseppe Belli (I)  
Johan T. Burger (RSA)  
Fiona Constable (AUS)  
Marc Fuchs (USA)  
Deborah A. Golino (USA)  
Paul Gugerli (CH)  
Nuredin Habili (AUS)  
Raymond Johnson (CA)  
Nikos Katis (G)  
Michael Maixner (D)  
Giovanni P. Martelli (I)  
Gustavo Nolasco (P)  
Edna Tanne (IL)

René Bovey (CH), Honorary Secretary

*Honorary Committee Members*

Antoine Caudwell (F)  
Oscar A. De Sequeira (P)  
Dennis Gonsalves (USA)  
Hans H. Kassemeyer (D)  
Gawrie Kriel (RSA)  
Guenther Stellmach (D)  
Ali Rezaian (AUS)  
Iannis Rumbos (GR)  
Daniel Teliz (Mex)  
André Vuittenez (F)  
Bernard Walter (F)

*ICVG XVII Organizing Committee*

Maher Al Rwahnih, (FPS, UC Davis, USA)  
Nick Dokoozlian, (E&J Gallo Winery, USA)  
Bev Ferguson (FPS, UC Davis, USA)  
Deborah A. Golino (FPS, UC Davis, USA)  
Marc Fuchs (Plant Pathology, Cornell, USA)  
Richard Hoenisch (Plant Pathology, UC Davis, USA)  
Vicki Klaassen (FPS, UC Davis, USA)  
Judit Monis, (Eurofins & STA Laboratories, USA)  
Fatima Osman (FPS, UC Davis, USA)  
Adib Rowhani (FPS, UC Davis, USA)  
Naidu Rayapati, (Washington State Univ. USA)  
Sue Sim (FPS, UC Davis, USA)  
Alan Wei (Agri-Analysis USA)

*ICVG XVII Conference Correspondent*

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17<sup>th</sup> Congress website: <http://ucanr.org/sites/ICVG/>

Foundation Plant Services website:  
<http://fps.ucdavis.edu/>

*ICVG XVII Invited Speakers*

Rodrigo Almeida  
Maher Al Rwahnih  
Marc Fuchs  
Nuredin Habili  
Raymond Johnson  
Giovanni P. Martelli  
Bob Martin  
Neil McRoberts  
Pasquale Salderelli



## *General Information*

Restaurants in Davis usually close at 9 or 10 PM. Much of the city of Davis and campus are within a 15 to 20 minutes walk. Bicycling is popular in Davis and daily bicycle rentals are available. Buses within Davis are red Unitrans buses. Schedules are available at <http://Unitrans.ucdavis.edu> Village Cab taxi service can be reached at 530-753-8294. For maps, more information or assistance of any kind please ask at the registration desk. We want your meeting experience to be comfortable and fun!

## *Poster Set-Up and Hours*

Posters are available for viewing in the Alumni Center from Monday to Wednesday 8:00 AM to 5:00PM. Posters should be mounted Monday, October 8 between 8:00 to 9:45 AM. Tacks will be provided. Authors should be present at their posters on Monday, October 8 from 4:15 to 5:00 PM. Posters should be taken down on Wednesday between 4:00 and 5:00 PM.

## *Emergencies*

A first aid kit with band-aids and ointment is available at the registration desk. Call 911 for a life-threatening medical emergency or fire or police emergency. The UC Davis campus police phone number is 530-752-1230 for non-emergency situations.

## *Companion Tours*

On Monday October 8, those who signed up for the companion tours will see Sacramento; meet in front of the UCD Conference Center at 8:30 AM. On Thursday October 11, they will tour San Francisco; meet in front of the UCD Conference Center at 8:00 AM.

## *Post-conference Tour*

On Friday October 12, people who signed up for the 3 day post-conference tour should meet in front of the UCD Conference Center at 8:30AM. Buses will return to the Conference Center the evening of Sunday, October 14.



## *Daily Schedule -All sessions are at the UCD Conference Center Ballroom*

**Sunday Oct 7, 2012**

4:00 to 6:00 PM **Registration and Welcoming Reception**, UC Davis Conference Center

**Monday Oct 8, 2012 (morning)**

8:00 to 9:30 **Registration**, UC Davis Conference Center

8:00 to 9:30 **Poster Mounting**, Alumni Center

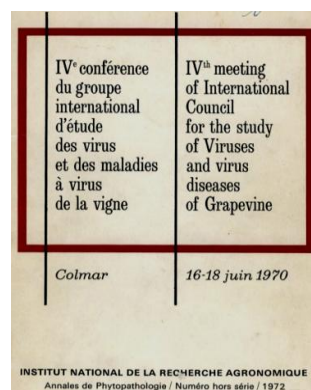
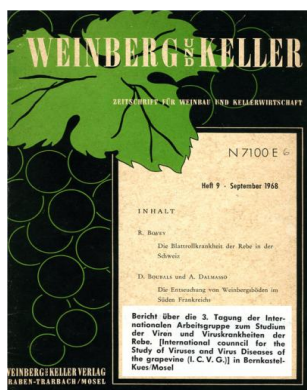
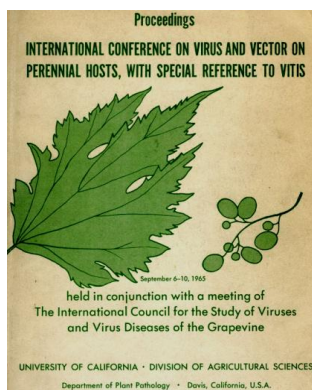
9:15 **Moderator Orientation**, UC Davis Conference Center Ballroom

### Welcoming Session

9:30	<b>Welcome to the 17th ICVG 2012</b>	Deborah Golino
9:45	<b>Plenary lecture: Grapevine Virology Highlights: 2010-2012</b>	Giovanni Martelli
10:30	<b>Break</b>	

### Session 1: Nepoviruses Moderators: Marc Fuchs & Mysore Sudarshana

10:45	<b>Invited Lecture: Fanleaf and other spherical viruses: So much progress and so much more to learn!</b>	Marc Fuchs
11:15	Grapevine Deformation Virus: Completion of its Sequence Reveals an Origin from Recombination Events Between <i>Grapevine Fanleaf Virus</i> and <i>Arabidopsis Mosaic Virus</i>	Toufic Elbeaino
11:30	A novel approach for engineering resistance to <i>Grapevine fanleaf virus</i>	Marc Fuchs
11:45	Molecular Characterization of South African Isolates of <i>Grapevine Fanleaf Virus</i> and an Associated New Satellite RNA	Renate Lamprecht
12:00	Symptom determinants of <i>Grapevine fanleaf virus</i> in <i>Nicotiana</i> species.	Corinne Schmitt-Keichinger
12:15PM	<b>Lunch at the Alumni Center patio</b>	



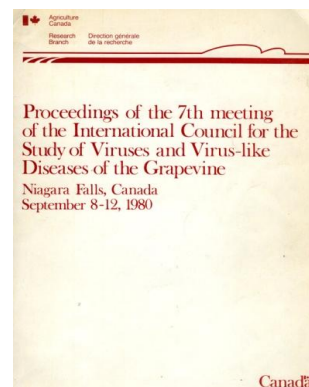
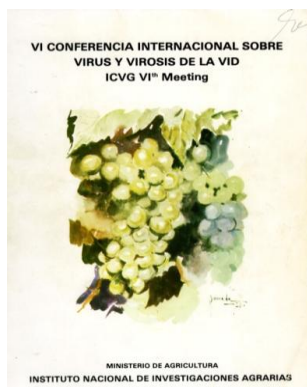
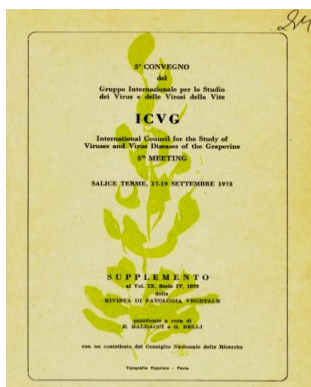
**Monday Oct 8, 2012 (afternoon)**

**Session 2: Leafroll and related viruses**  
**Moderators: Adib Rowhani & Edna Tanne**

- |      |   |                  |
|------|---|------------------|
| 1:15 | <b>Invited Lecture: Transmission Biology of the Leafroll Viruses</b>  | Rodrigo Almeida  |
| 1:45 | New progress in the study of grapevine leafroll disease in France   | Etienne Herrbach |
| 2:00 | Characterization of the <i>Grapevine leafroll associated-virus 3</i> RNA silencing suppressor encoded in the p19.7 gene                                 | Gustavo Nolasco  |
| 2:15 | Development of a LAMP technique for control of <i>grapevine leafroll associated virus type 3 (GLRaV-3)</i> in infected white cultivar vines by roguing. | Helen Walsh      |
| 2:30 | Nucleotide sequence at the beginning of the 5' nontranslated region is critical for replication of <i>Grapevine leafroll -associated virus 3</i>        | Naidu Rayapati   |
| 2:45 | <i>Grapevine Leafroll-associated Viruses</i> Effects on Yield, Vine Performance and Grape Quality   | Adib Rowhani     |
| 3:00 | <b>Break</b>  |                  |

**Session 3: Rugose Wood and related viruses**  
**Moderators: Vicki Klaassen & Pasquale Salderelli**

- |              |   |                      |
|--------------|---|----------------------|
| 3:15         | <b>Invited Lecture: Rugose Wood-associated Viruses and Similia: 2010-2012</b>                                   | Pasquale Salderelli  |
| 3:45         | Infectivity assays of second generation cDNA clones of <i>Grapevine rupestris stem pitting-associated virus</i> | Baozhong Meng        |
| 4:00         | <i>Grapevine Vein Necrosis</i> is not Exclusively Associated to GRSPaV Group 2 Molecular Variants               | Anne-Sophie Spilmont |
| 4:15 to 5:00 | <b>Poster viewing</b> - Authors present 4:30 - 5:00, Alumni Center  |                      |
| 4:15 to 5:00 | <b>ICVG Steering Committee Meeting</b> Conference Room B  |                      |



**Tuesday Oct 9, 2012 (morning)**

**Session 4: New Viruses, Disease of Unknown Etiology and Viroids**  
**Moderators: Paul Gugerli & Jerry Uyemoto**

8:30AM	<b>Invited Lecture: Grapevine virus analysis, and what's Next with Next Generation Sequencing</b>	Maher Al Rwahnih
9:00	A study of Shiraz disease etiology using next-generation sequencing technology	Hano Maree
9:15	Association of a Circular DNA Virus in Grapevines Affected by Red Blotch Disease in California	Mysore Sudarshana
9:30	Complete Genome Sequence of a New Circular DNA Virus from Grapevine	Keith Perry
9:45	The first DNA virus Grapevine vein clearing virus exists as genetically diverse populations in seven grape varieties at three states in Midwest of USA	Qiang Guo
10:00	<i>Grapevine yellow speckle-1 type 4</i> ; a new proposed type of <i>Grapevine yellow speckle- 1</i>	Nemat Sokhandan-Bashir
10:15	<b>Break</b>	

**Session 5: Diagnostics**  
**Moderators: Johan Burger & Fatima Osman**

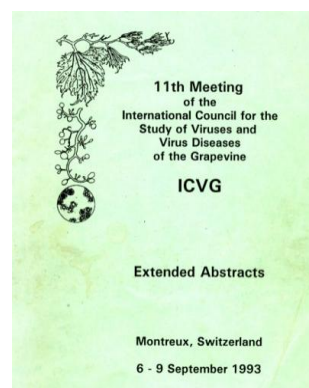
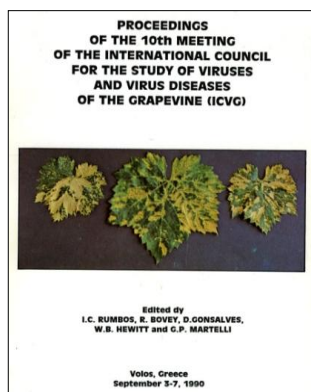
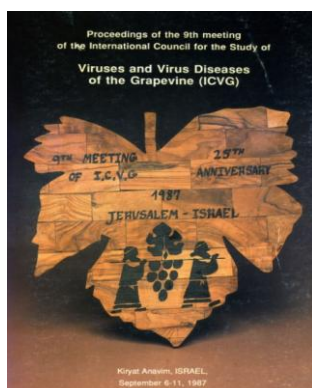
10:30	<b>Invited Lecture: Virus detection in grapevines: is biological indexing still the gold standard?</b>	Bob Martin
11:00	Detection of New Strains of GLRaV-3 in New Zealand Using Elisa and RT-PCR	Daniel Cohen
11:15	First report on the detection of grapevine virus and viroid RNA in bottled wines	Nuredin Habili
11:30	A survey of red and white cultivars to test an improved detection technique for <i>grapevine leafroll-associated virus 3 (GLRaV-3)</i> variants identified in South African vineyards	Elize Jooste
11:45	Evaluating FPS diagnostic test performance using Receiver Operating Characteristic Curve Analysis	Vicki Klaassen
12:00PM	<b>Lunch at the Alumni Center patio</b>	



**Tuesday, Oct 9, 2012 (afternoon)**

**Session 5: Diagnostics (Continued)**  
**Moderators: Dan Cohen & Giovanni Martelli**

- |              |  |                   |
|--------------|--|-------------------|
| 1:00         | Comparative Study of TaqMan® and RT-PCR Combined with ELISA for the Detection of Grapevine Viruses   | Judit Monis       |
| 1:15         | Development and Validation of a Multiplex Quantitative PCR Assay for the Rapid Detection of Grapevine Vitivirus A, B and D   | Fatima Osman      |
| 1:30         | Detection and discrimination of grapevine leafroll-associated viruses by real-time PCR and amplicon melting curve analysis   | Sudarsana Poojari |
| 1:45         | Multiplex detection of grapevine viruses using a randomly primed RT-PCR/Microarray platform  | Jeremy Thompson   |
| 2:00         | Nanobodies as an Emerging Technology for Grapevine Virus Diagnostics and Prevention  | Alan Wei          |
| 2:15         | Study on the time and tissue for reliable detection of <i>Grapevine leafroll-associated virus 3</i> in Cabernet Gernischt  | Meilong Xu        |
| 2:30         | <b>Break</b>   |                   |
| 2:45 to 5:00 | <b>Field Trip</b> to Foundation Plant Services, Rowhani Leafroll Research Vineyard, Robert Mondavi Institute (RMI), all on the UC Davis campus. Meet in front of Conference Center to board buses. |                   |
| 5:00 to 7:00 | <b>UC Davis campus/ICVG Reception Conference Center</b>  |                   |



**Wednesday Oct 10, 2012 (morning)**

**Session 6: Virus Effects**

Moderators: Laurent Audeguin & Franco Maninni

8:30AM	<b>Invited Lecture: Effects of Virus Diseases on Grapevines</b>	Nuredin Habili
9:00	High-throughput sequence analysis of small RNAs in grapevine ( <i>Vitis vinifera</i> L.) affected by grapevine leafroll disease	Olufemi Alabi
9:15	GLRaV-2 : Sanitation and performances of emblematic French clones of Cabernet-Sauvignon	Laurent Audeguin
9:30	Field performances and wine quality modification in a clone of 'Nebbiolo' ( <i>Vitis vinifera</i> L.) after <i>grapevine fleck virus</i> (GFkV) elimination	Franco Mannini
9:45	Small RNAs Profiling in Virus-Infected Grapevines	Pasquale Saldarelli
10:00	RNA expression analysis in virus infected <i>Vitis vinifera</i> cv Chardonnay	Dirk Stephan
10:15	Effect of irrigation on Leafroll symptoms development in Cabernet sauvignon vines.	Tirtza Zahavi
10:30	<b>Break</b>	

**Session 7: Epidemiology**

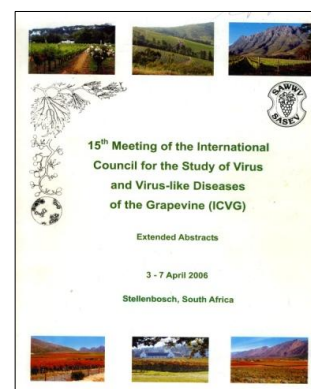
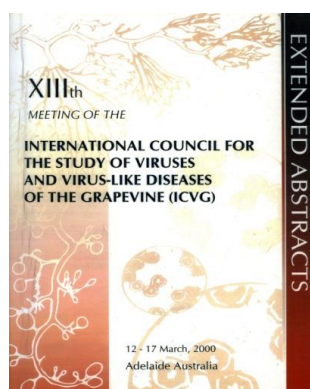
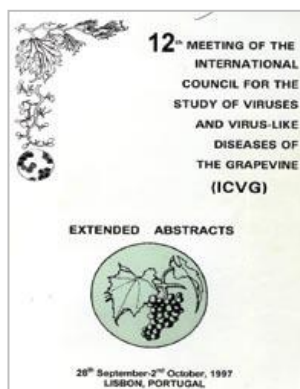
Moderators: Naidu Raypati & Alan Wei

10:45	<b>Invited Lecture: Spatial patterns and temporal dynamics in the spread of visual leafroll symptoms through vine blocks</b>	Neil McRoberts
11:15	Patterns of Virus Transmission from Hosts with Mixed Infections	G. Kai Blaisdell
11:30	Monitoring Distribution of Grapevine Leafroll Associated Viruses in Turkey	Filiz Ertunc
11:45	The combined effect of preliminary infested vines, spatial spread pattern and the VMB population level on the Grapevine leafroll disease infestation rate.	Rakefet Sharon
12:00PM	Documentation of grapevine leafroll-associated virus-2, -3, and grapevine fleck virus in wine grape varieties and native grape species in Virginia	Taylor Jones
12:15	'Grapevine viruses' in muscadines	Sead Sabanadzovic
12:30	<b>Lunch at the Alumni Center patio</b>	

# Session 8: Phytoplasmas

Moderators: Nuredin Habili & Michael Maixner

1:30	Microscopic localization of grapevine phytoplasmas: an exciting challenge or a losing battle?	Franco Faoro
1:45	Multilocus Analyses on Grapevine Bois Noir Phytoplasmas From Italy And Serbia	Nicoletta Contaldo
2:00	Stolbur type II phytoplasma in North Israel vineyards. What is the plant source of infection?	Mery Dafny-Yelin
2:15	Transmission of 16SrIII-J phytoplasma by <i>Paratanus exitiosus</i> leafhopper	Nicola Fiore
2:30	Spatial and temporal distribution of the infection potential of stolbur phytoplasma on a fallow vineyard	Michael Maixner
2:45	<b>Break</b>	
3:00	Looking for resistance to the Flavescence doree disease among <i>Vitis vinifera</i> cultivars and other <i>Vitis</i> species.	Sylvie Malembic-Maher
3:15	Strain Differentiation in Flavescence Dorée Phytoplasmas on SECY and TUF Genes	Bojan Duduk
3:30	Field Treatment With Resistance Inducers on the Canopy of Bois Noir Infected Vines: Effects on the Disease Symptoms and on Grape Production	Gianfranco Romanazzi
3:45	Deep sequencing analysis reveals modulated gene expression in response to Aster yellows phytoplasma infection in <i>Vitis vinifera</i> cv. Chardonnay	Marius Snyman
4:00	<b>Break and Poster Take-down</b>	
4:15 to 5:15	<b>ICVG General Assembly</b> , Conference Center Ballroom	
7:00 to 11:00	<b>Dinner and Dancing to Hits of the Decades</b> , Freeborn Hall, UC Davis	



**Thursday Oct. 11, 2012**

**Session 9: Grapevine Certification and Clean Stock**

Moderators: Deborah Golino & Ray Johnson

- |               |  |                    |
|---------------|--|--------------------|
| 8:30          | The North America Plant Protection Organization Guidelines for the Movement of Stone and Pome Fruit Trees and Grapevines into a NAPPO Member Country                 | Raymond Johnson    |
| 9:15          | French regulation, registration and certification Procedures, controls and perspectives  | Laurent Audeguin   |
| 9:30          | Validation of diagnostic protocols for the detection of grapevine viruses covered by phytosanitary rules   | Francesco Faggioli |
| 9:45          | Virus Elimination From Grape Selections Using Tissue Culture At Foundation Plant Services, University Of California, Davis   | Susan Sim          |
| 10:00         | <b>Break</b>   |                    |
| 10:15         | Biology of crown gall disease and its management in grape nurseries and vineyards  | Tom Burr           |
| 11:15         | <b>Group Photo</b> , meet at fountain in front of Conference Center  |                    |
| 11:30 to 5:00 | <b>Field Trip</b> , meet at Conference center front door for bus to lunch and field trip to Wolfskill USDA Germplasm Repository, Martinez Orchards and Russell Ranch |                    |
| 12:00 to 5:00 | <b>Lunch and Workshop</b> - Grape Certification meeting for NCPN Participants (U. S. only), Conference Center  |                    |

**Friday October 12, 2012**

**8:30 AM Post-conference Tour**, meet at Conference Center front door for bus

