

Maggiore frequenza di ritrovamenti nei nostri areali di casi di fillossera ed erinosi

- facciamo il punto sul *Colomerus vitis* -

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Università di Bari Aldo Moro

Bari, 12 dicembre 2017

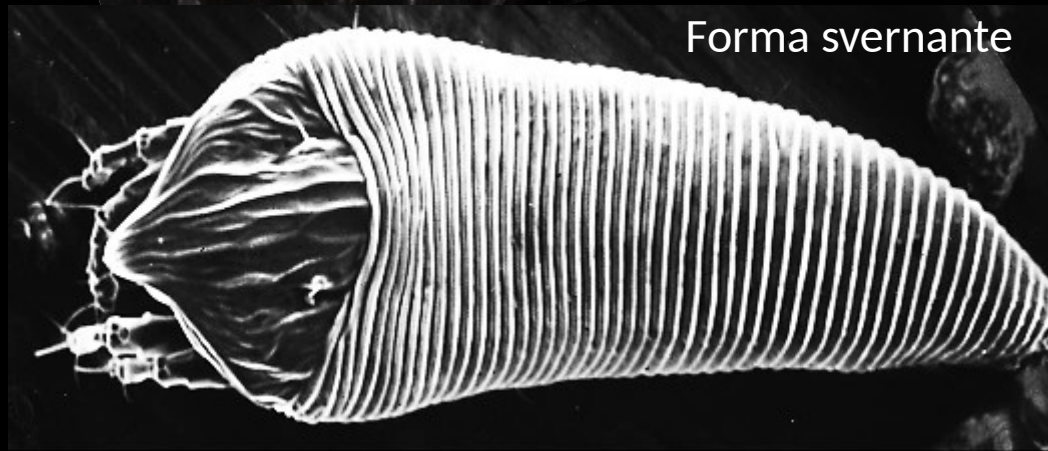


**29° Forum di
Medicina Vegetale**

Calepitrimerus vitis

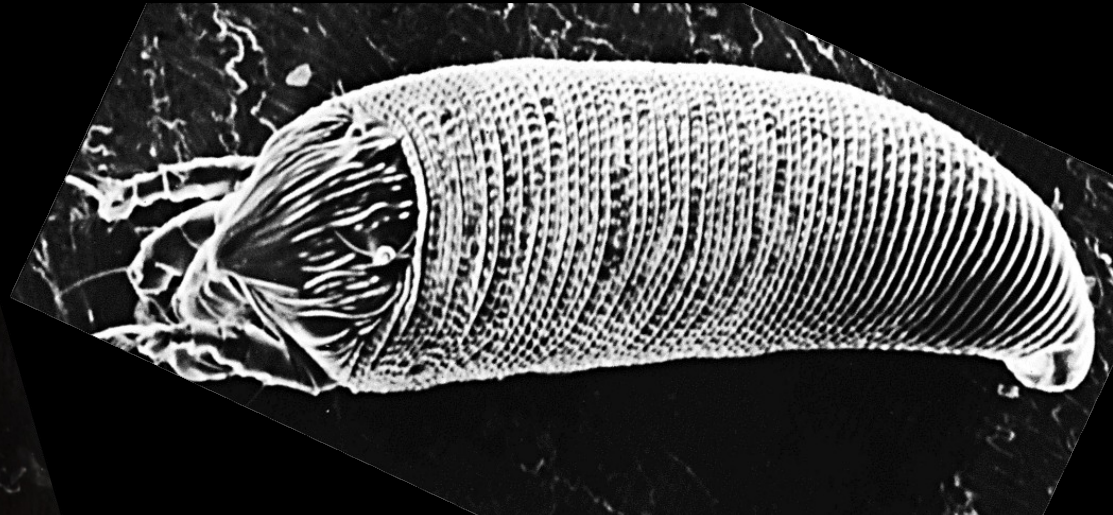


Forma primaverile estiva



Forma svernante

Colomerus vitis



Strain	Sintomi	Distribuzione geografica
dell'erinosi	erinosi e bollosità fogliare	Ampia distribuzione mondiale
delle gemme	dipendenti dalle anomalie di crescita dei germogli	Australia, California, Cile, Crimea, Egitto, Israele, Spagna, Sud Africa
dell'arrotolamento fogliare	anormalità fogliari	California, Cile, Egitto, Romania, Sud Africa, Ungheria



*eriofide
dell'erinosi*

*eriofide delle
gemme*



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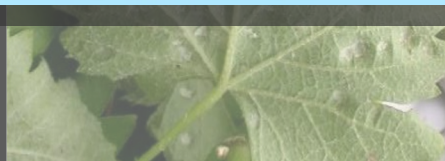
Species status and population genetic structure of grapevine eriophyoid mites

Melissa E. Carew¹, Micheal A. D. Goodisman² & Ary A. Hoffmann¹

¹Center for Environmental Stress and Adaptation Research, La Trobe University, Victoria 3084, Australia; ²Department of Biochemistry and Molecular Biophysics, University of Arizona, Tucson, Arizona 85721-0088, USA

Accepted: 22 December 2003

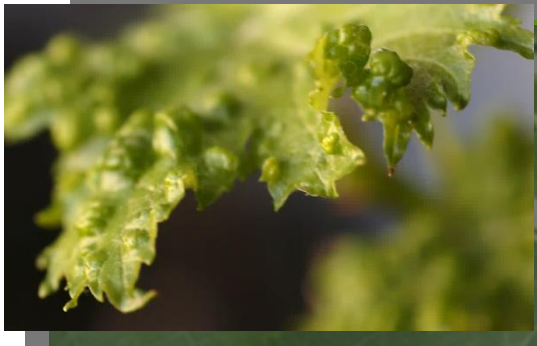
Key words: eriophyoids, mites, microsatellites, PCR-RFLP, species markers, *Colomerus vitis*, *Calepitrimerus vitis*, Acari, Eriophyoidae



*eriofide
dell'erinosi*







Resistance of grapevine to the erineum strain of *Colomerus vitis* (Acari: Eriophyidae) in western Iran and its correlation with plant features

Saeid Javadi Khederi · Enrico de Lillo · Mohammad Khanjani · Mansur Gholami



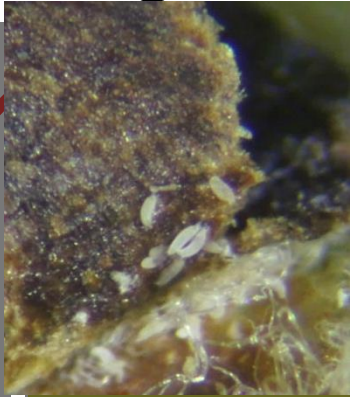
Impact of the erineum strain of *Colomerus vitis* (Acari: Eriophyidae) on the plant development of some grapevine cultivars of West and South Iran

Saeid Javadi Khederi¹, Mohammad Khanjani^{1*}, Mansur Gholami² and Enrico de Lillo³

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Ciclo biologico

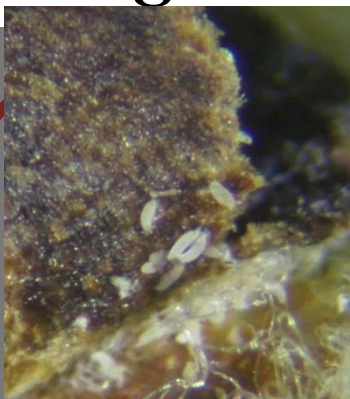


1

Femmine svernanti in gemme
e altri ricoveri (luglio - aprile)



Ciclo biologico

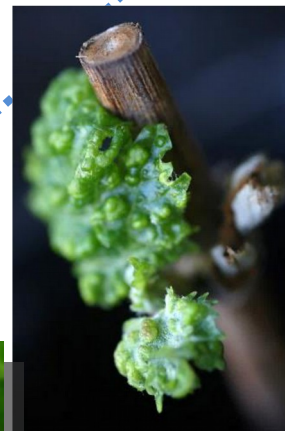


1

Femmine svernanti in gemme
e altri ricoveri (luglio - aprile)

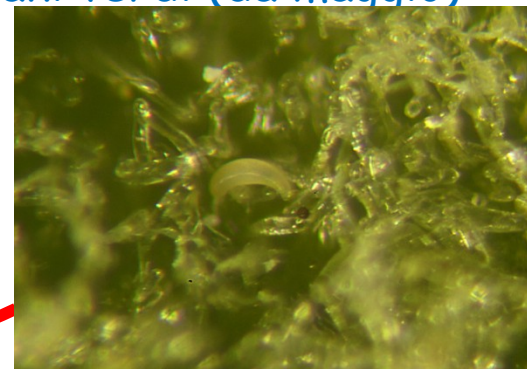
Femmine svernanti su foglie
giovani al germogliamento - prime
erinosi

2

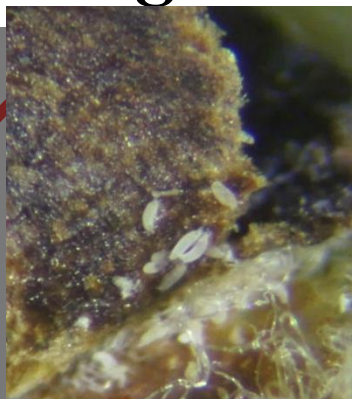


Femmine primaverili-estive
e maschi in erinosi su
organi verdi (da maggio)

3



Ciclo biologico

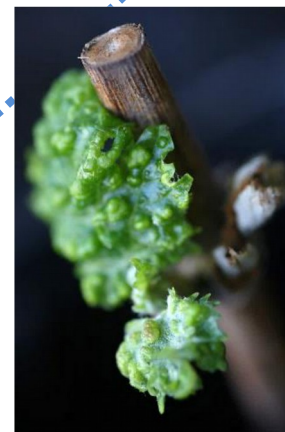


1

Femmine svernanti in gemme e altri ricoveri (luglio - aprile)

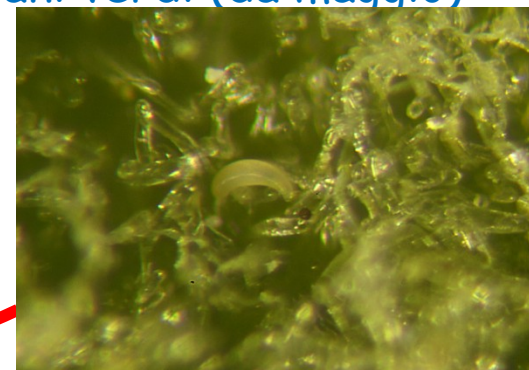
Femmine svernanti su foglie giovani al germogliamento - prime erinosi

2



Femmine primaverili-estive e maschi in erinosi su organi verdi (da maggio)

3



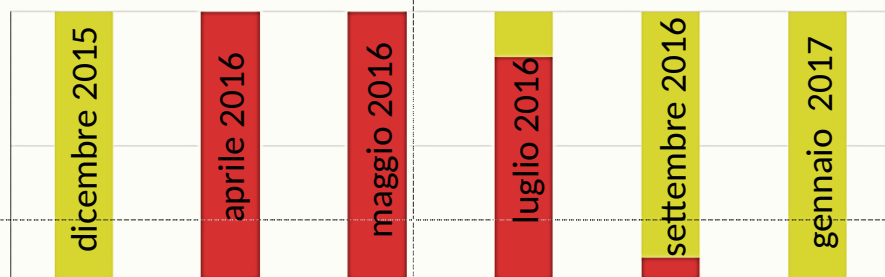
Femmine svernanti (da luglio)

%

100

50

0



cv Luisa, tendone, Noicattaro

Pinot gr. - Maculature clorotiche e deformazione

A

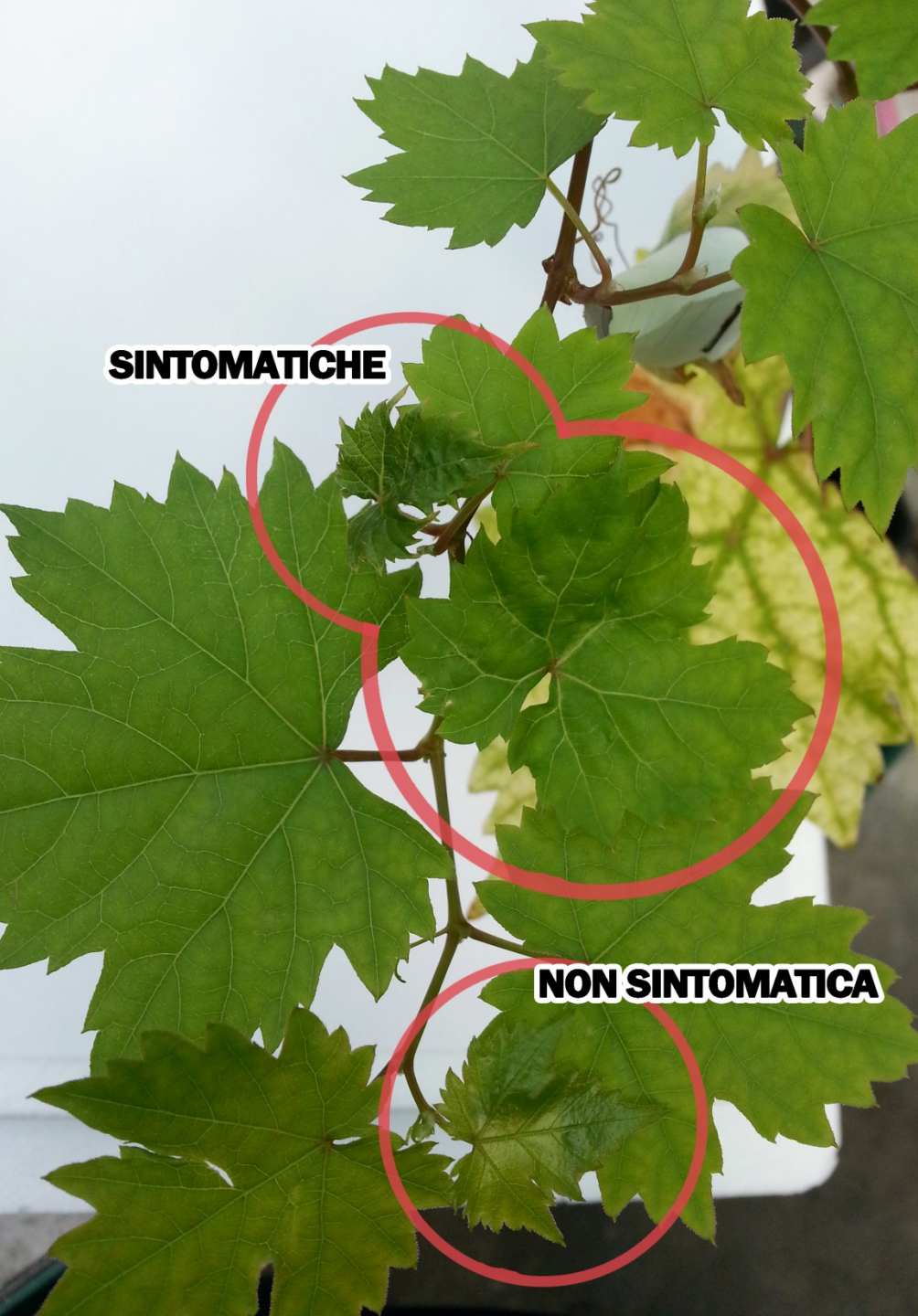
B

GRAPEVINE LEAF MOTTLING AND DEFORMATION

C

D

Traminer - Maculature e raccorciamento internodi



Pinot blanc, Pinot noir, Traminer
(Giampetruzzi et al., 2012)

Pinot gris, Traminer, Friulano (Tocai),
Glera (Bianchi et al., 2015)

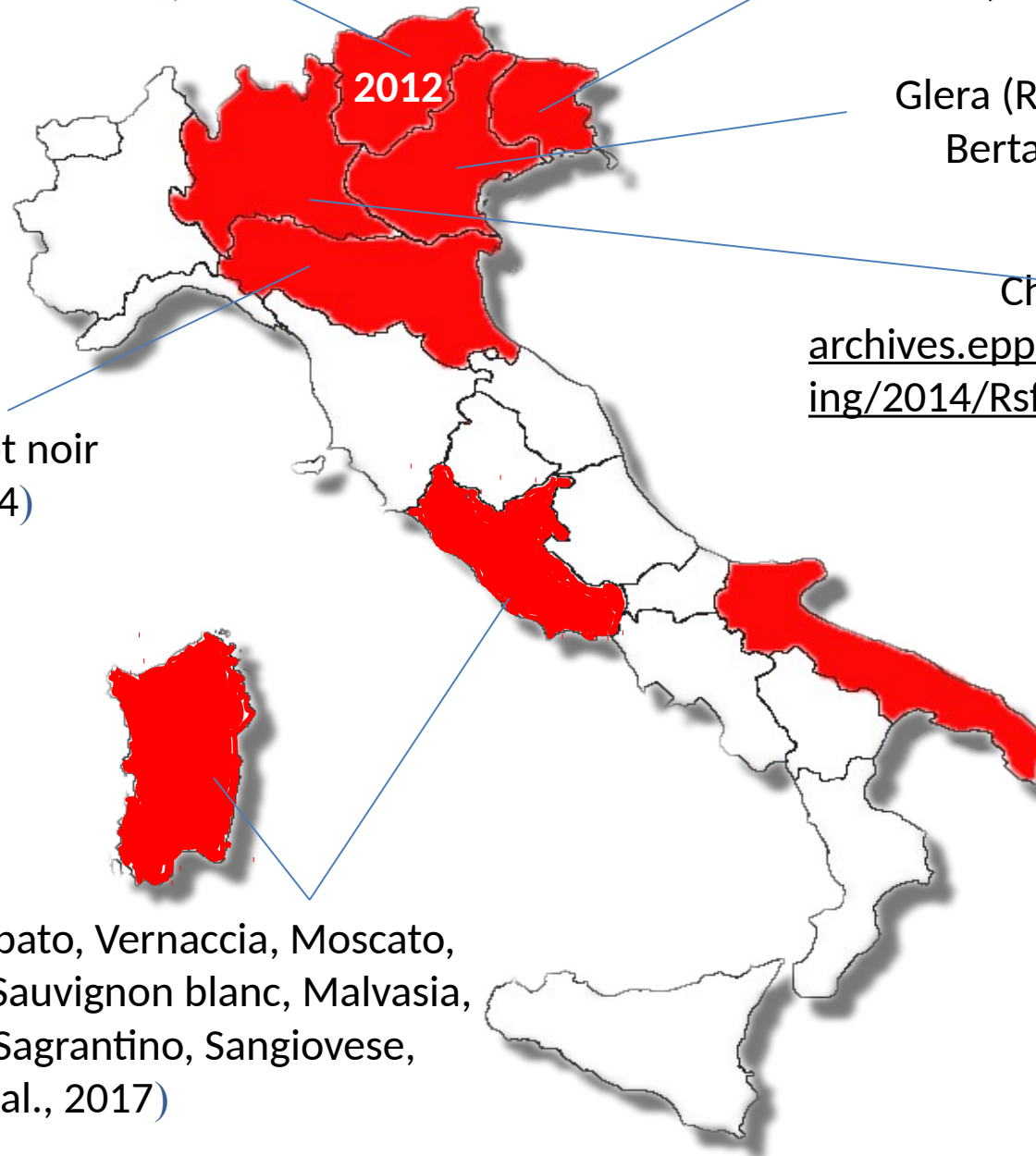
Glera (Raiola et al., 2013;
Bertazzon et al., 2016)

Chardonnay ([http://
archives.eppo.int/EPPOReport
ing/2014/Rsf-1401.pdf](http://archives.eppo.int/EPPOReporting/2014/Rsf-1401.pdf))

Chardonnay, Pinot noir
(Casati et al., 2014)

Vermentino, Torbato, Vernaccia, Moscato,
Nasco, Monica, Sauvignon blanc, Malvasia,
Cabernet franc, Sagrantino, Sangiovese,
Fiano (Gentili et al., 2017)

Supernova, Black
Magic (Morelli et
al., 2014)

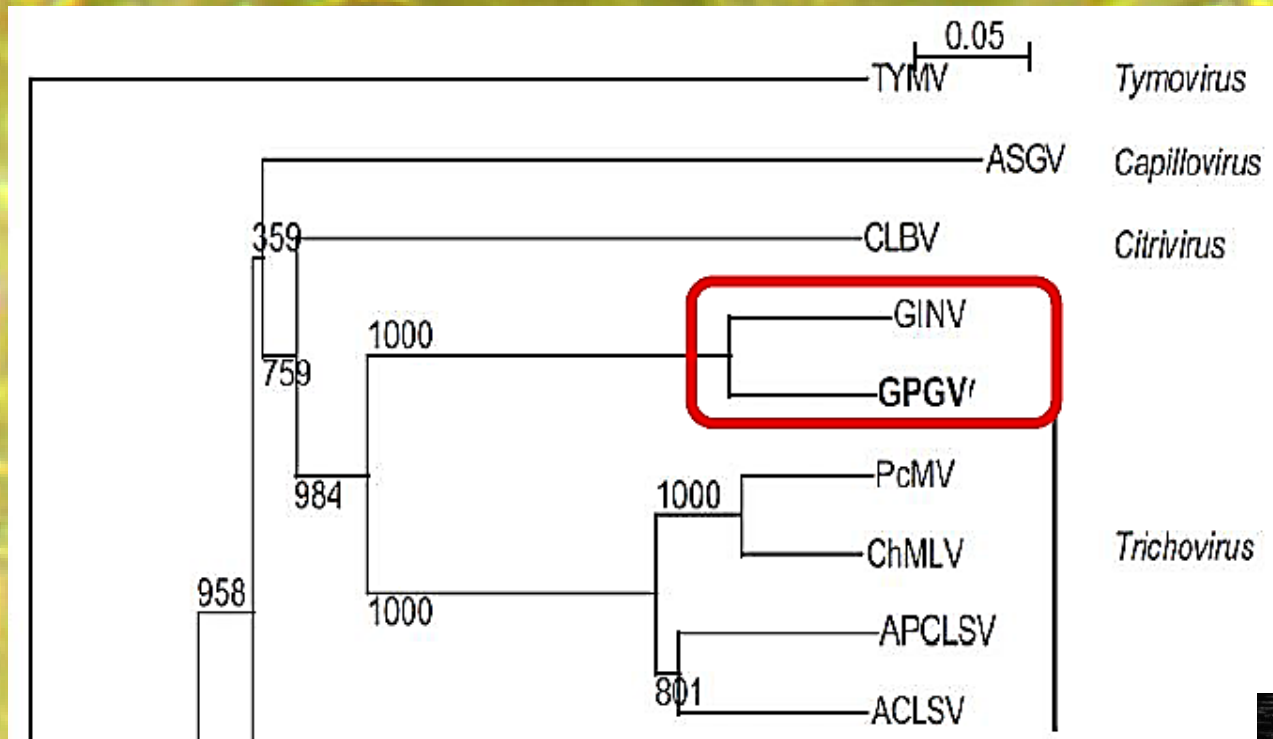


Stato	Cultivar	Bibliografia
Croazia	Jarbola, Sansigot, Zlahtina	Voncina et al., 2017
Repubblica Ceca	Laurot (ibrido interspecifico); Kodrjanka, Pamjati Negrula, Muller Thurgau, Chardonnay	Glasa et al., 2014; Eichmeier et al., 2016
Francia	Merlot, Carignan	Beuve et al., 2015
Georgia	Cultivar locali	Casati et al., 2016
Grecia	ignota	V. Maliogka, pers. comm.
Polonia	Jutrzenka, Solaris	Eichmeier et al., 2017
Slovacchia	Veltliner, Dornfelder, Muller Thurgau, Welschriesling, André, Alibernet	Glasa et al., 2014
Slovenia	Pinot gris, Sauvignonasse	Mavric-Plesko et al., 2014
Svizzera	Chasselas	Reynard, 2015
Turchia	Pinot noir, Chardonnay, Muscat di Hamburg e due cultivar locali	Gazel et al, 2016
Cina	Red Globe, Merlot, Muscat Hamburg, Cabernet Franc, Moldova, Beta (portainnesto)	Fan et al., 2015
Canada	Cabernet Franc, Riesling; Pinot gris	Xiao et al. 2016; Poojari et al., 2016
USA	Touriga Nacional; Cabernet Franc, Cabernet Sauvignon, Chardonnay	Al Rwahnih et al. 2016; Angelini et al., 2016
Uruguay	Tannat	Jo et al., 2015
Australia	Tempranillo, Fiano, Riesling, Graciano, Moscato Giallo, Cabernet Sauvignon, Malbec	Wu & Habili, 2017
Sud Corea	Tamnara (<i>V. vinifera</i> x <i>V. labrusca</i>)	Cho et al. 2013



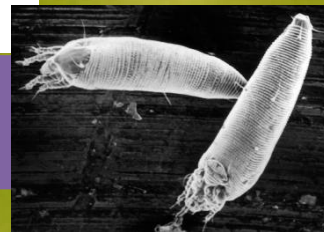
GINV

*Grapevine berry
inner necrosis virus*



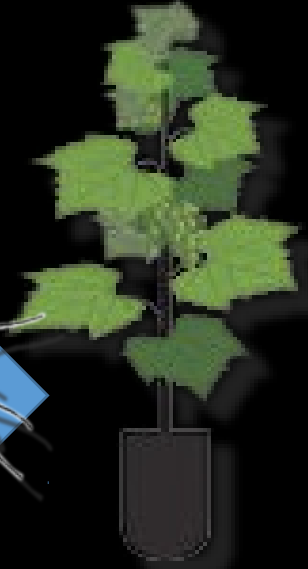
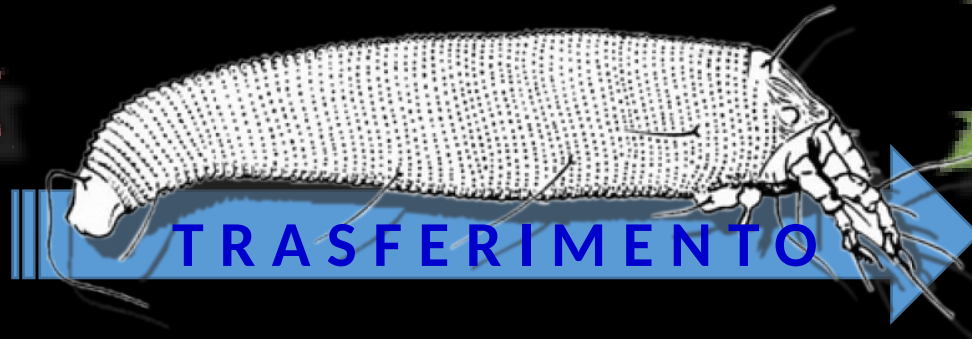
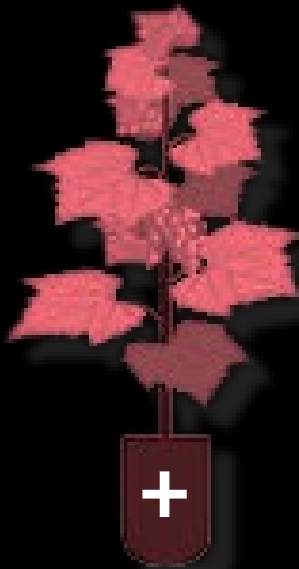
A. Giampetruzzi et al. / Virus Research 2012

(Kunugi et al., 2000) **Trasmesso da *Colomerus vitis***

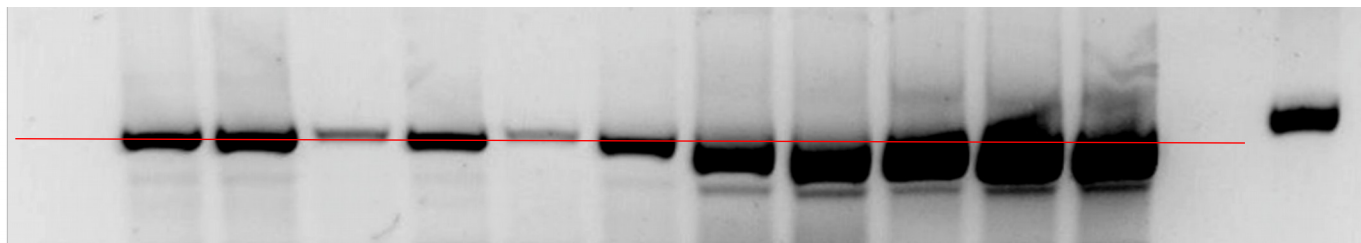


Prove di trasmissione

Erinosi
Gemme



GPGV coat
protein
535 bp



n. mites

5 6 5 6 5 5 7 11 10 11 11 5 wc Mk

← 564nt

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- Annalisa **Giampetruzzi**
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- Domenico **Valenzano**



DIPARTIMENTO DI
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- Valeria **Malagnini**
- Umberto **Malossini**



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