



# ArborBioKaps and Petri Disease Grape Vine

(Verdicchio grape vine)

rev. 0



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## Introduction

- Description of Petri Disease
- Description of ArborBioKaps Trunk Injection
- Imagines of Results



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## Description of Petri Disease

Petri disease is caused by several fungi which affect vines 1-10 years old (Del Río Conesa and et al., 2002; Fourie and Halleen, 2002) . Decline of young vines has been found in vineyards worldwide (Ferreira et al., 1994; Mugnai et al., 1999; Pascoe and Cottral, 2000) . External symptoms include stunted growth, shortened internodes, interveinal chlorosis, leaf necrosis, decline and possibly dieback (Fourie and Halleen, 2002; Scheck et al., 1998).

Petri (1912) described the internal symptoms of this disease as dark brown or black streaks in the vascular tissue, as well as tyloses and gums in the xylem. When the vine is cut in cross section the streaking can be seen as dark spots close to the pith or in the annual growth rings. The host is likely predisposed to the pathogenic phase of this fungus by stress (Ferreira et al., 1994) . Pathogenicity studies have shown that *P. chlamydospora* as well as *P. aleophilum* and *P. inflatipes* are able to induce a decline in young grapevines (Scheck et al., 1998) . *Phaeomoniella chlamydospora* is consistently isolated in the rootstock of vines showing symptoms of Petri grapevine decline (Morton, 1999; Mugnai et al., 1999) .

Leslie Long (from: <http://extension.psu.edu/plants/tree-fruit/fruit-diseases/grapes/petri-disease> )

More info from: [http://www.lodiwine.com/Canker\\_Diseases.pdf](http://www.lodiwine.com/Canker_Diseases.pdf)



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## Description of ArborBioKaps Trunk Injection

From 2012 we injected Inducing Fertilizer inside 5 Verdicchio grape vine with high level infection of Petri Disease.

On 2013 all 5 grape vine arrive to vine time with grape vine fruits, from 2013 this 5 grape vine never take a Petri Disease.

After 2013 results we injected more 40 grape vine in three different Vine Farman, till today all more 40 grape vine haven't signal of Petri Disease.

Into follow presentation we put only representative result obtained in 2013, one of 5 grape vine injected.

We put pictures of big infest Petri Disease grape vine in 2012.



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