

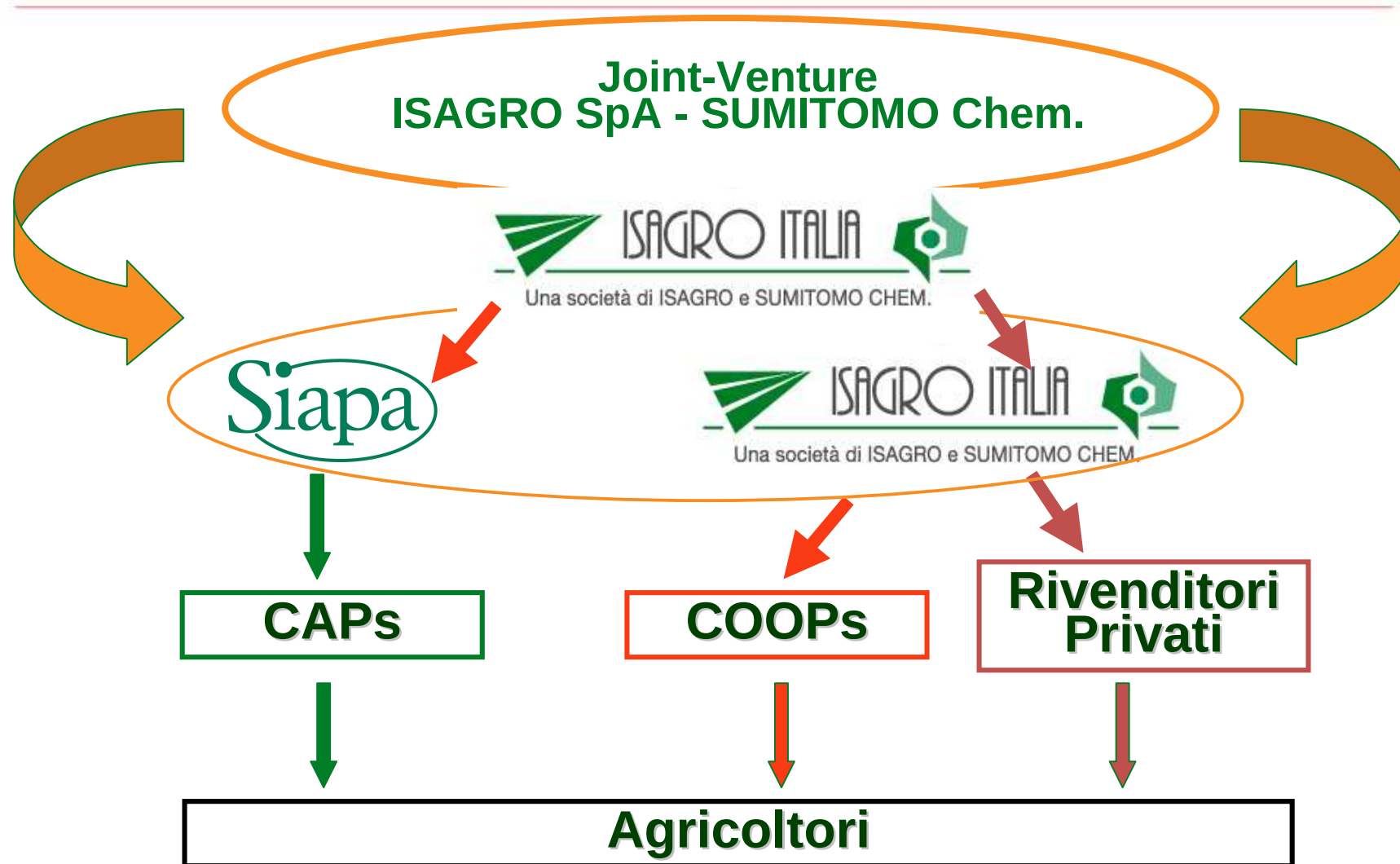
Remedier
nella strategia di difesa contro
il
Mal dell'esca

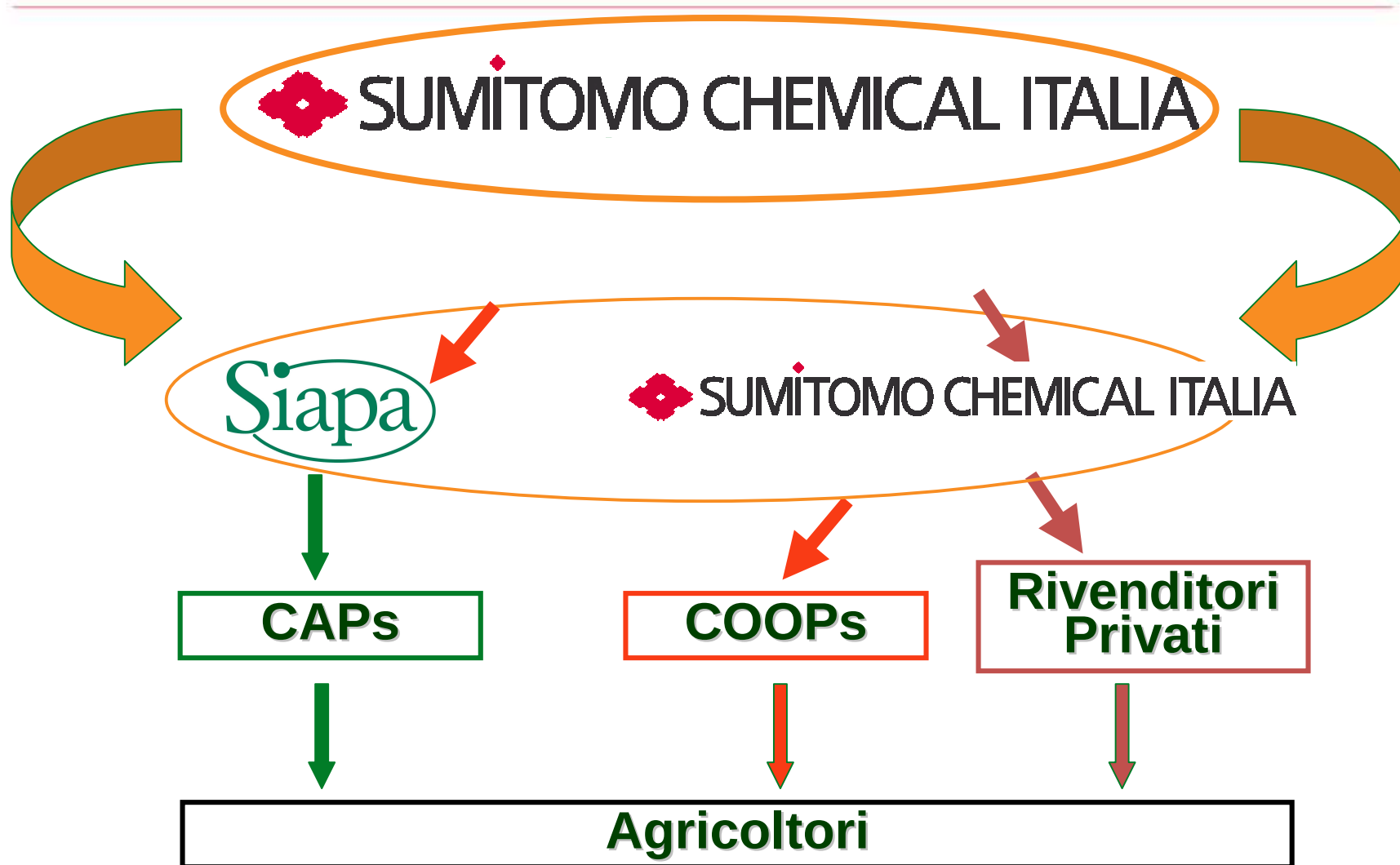
Michele Pizzi

Franca Reggiori

FORUM DI MEDICINA VEGETALE

15 Dicembre 2011







Airone[®] *più* **WG**

Domark[™] 125

L'antiodico a base di Tetraconazolo
nella nuova formulazione



ZEMIX[®]

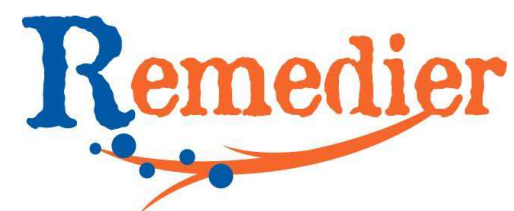
Fantic M

Remedier

Java[™]_f

 **SUMITOMO CHEMICAL ITALIA**



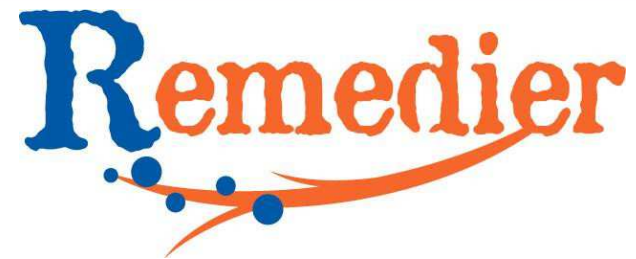


Remedier



Agrofarmaco biologico a base di
Trichoderma harzianum e ***Trichoderma viride***
ad azione antagonistica per la prevenzione
di malattie fungine del terreno

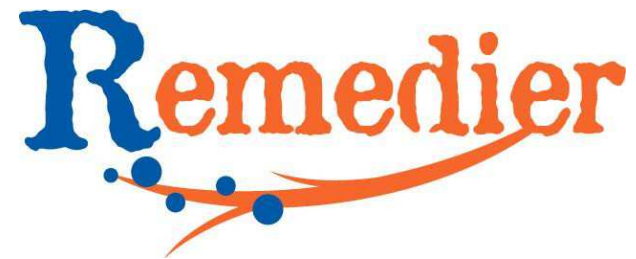




PATOGENI BERSAGLIO

- *Rhizoctonia* spp.
- *Sclerotinia* spp.
- *Sclerotium rolfsii*
- *Verticillium* spp.
- *Thielaviopsis basicola*
- *Phytophthora capsici*
- *Pythium* spp.





REGISTRAZIONI

- **Colture orticole:** pomodoro, peperone, insalate, melone, finocchio, carciofo, basilico, sedano, fagiolo, fagiolino, zucchini, melanzana, cetriolo, erbe aromatiche
- **Colture floricole e ornamentali in vaso**



CONTROLLO DEL MAL DELL'ESCA: prime esperienze in vigneto con Remedier per la protezione delle ferite da notatura



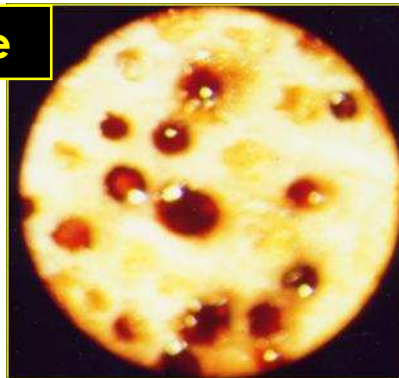
ESCA: prime esperienze in vigneto e su viti in vaso

DI MARCO S., OSTI F., CESARI A., 2004. Experiments on the control of esca by *Trichoderma*.
Phytopathologia mediterranea, 43, 108-115.

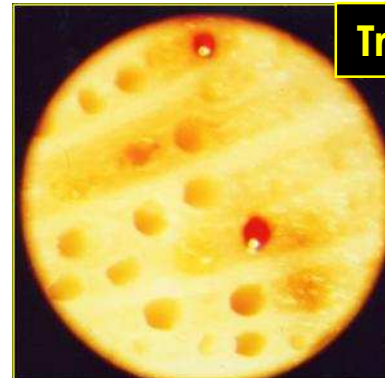
Table 3. Effect of *Trichoderma* on pruning wounds in potted vines inoculated with *Phaeomoniella chlamydospora*.

Treatment	Necrosis	Black streaking (%)	Tylosis (%)
<i>T. longibrachiatum</i> 6 + <i>P. chlamydospora</i>	No	0	10
<i>T. harzianum</i> T39 + <i>P. chlamydospora</i>	No	0	12
<i>T. longibrachiatum</i> 6	No	0	0
<i>T. harzianum</i> T39	No	0	0
<i>P. chlamydospora</i> control	Yes	54	0
Wound control	No	0	0

Testimone



Trichoderma



Potatura e inoculazioni, Prove CNR Bologna – Univ. FI



Potatura 19.04.2009



Trattamento
20.04.2009

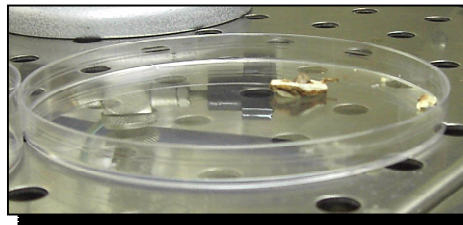
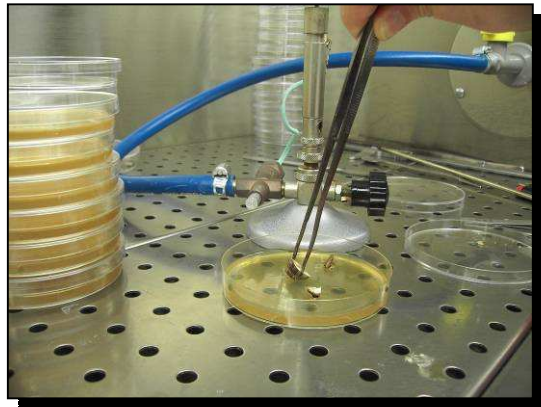
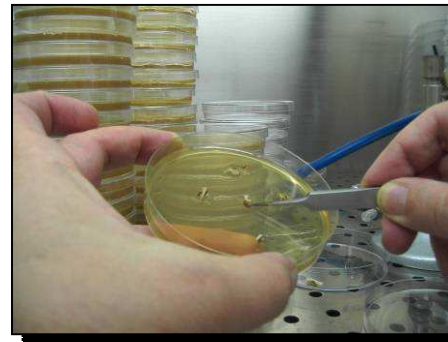
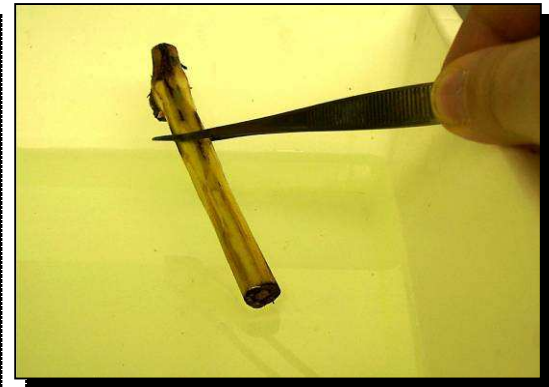
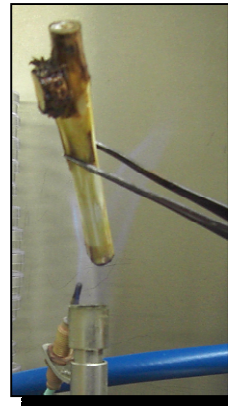
Date Inoculo

06.05.2009 (T+16)

05.06.2009 (T+46)

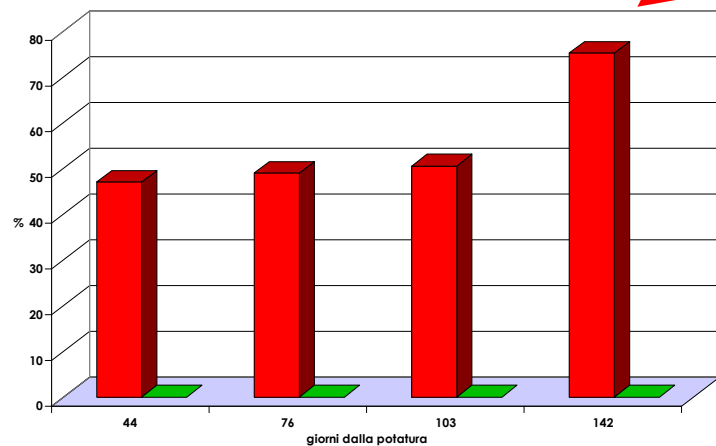
07.07.2009 (T+78)

Prelievi e isolamenti



2003. RISOLAMENTO DI FOM (trattamento termico) Emilia-Romagna

Inoculazione 6 maggio



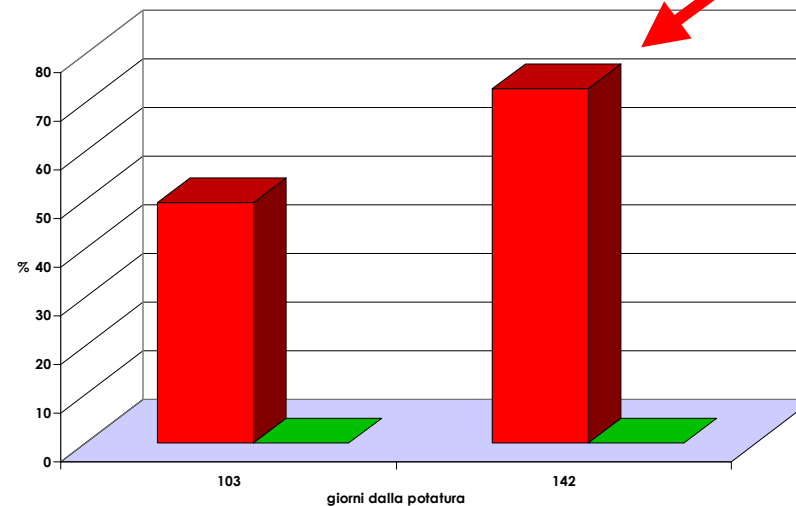
Non trattato



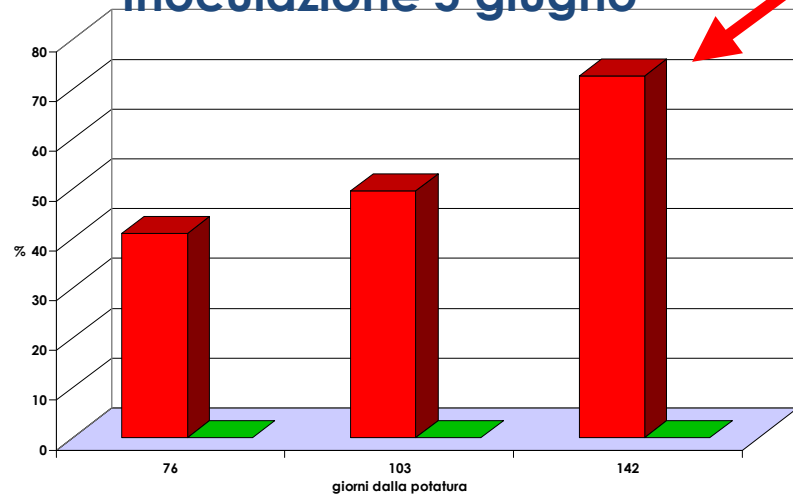
Trattato



Inoculazione 7 luglio

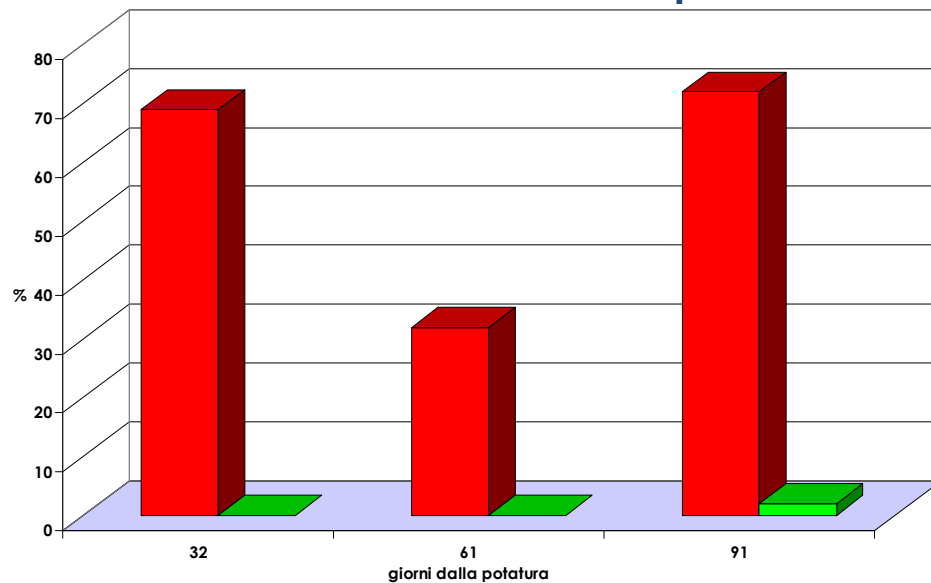


Inoculazione 5 giugno



2009: Reisolamento di Pch (frammenti fertili) Toscana

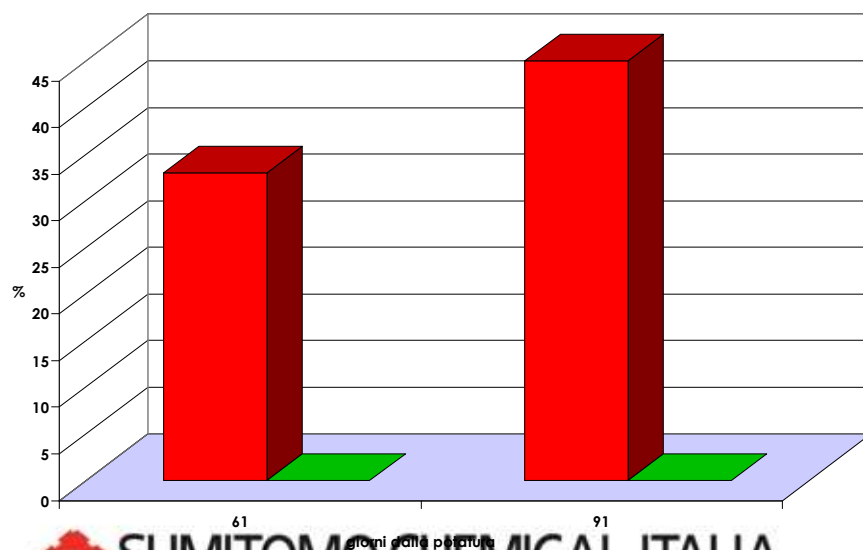
Inoculazione 23 aprile



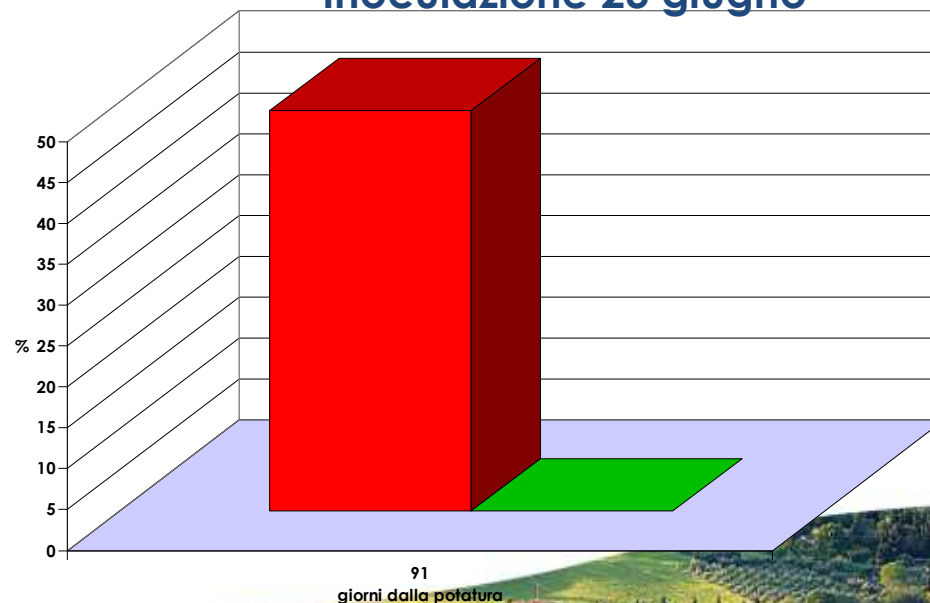
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Trattato 

Inoculazione 24 maggio

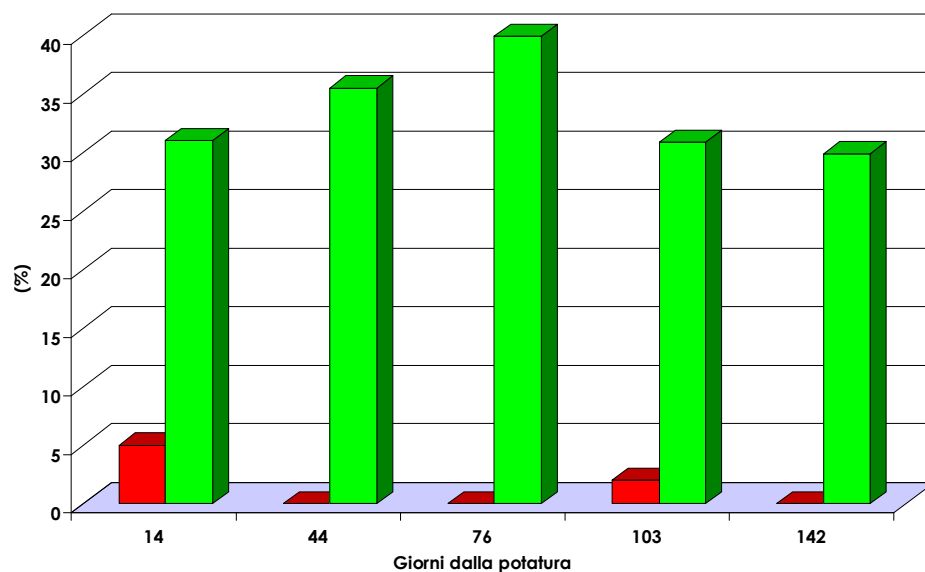


Inoculazione 23 giugno

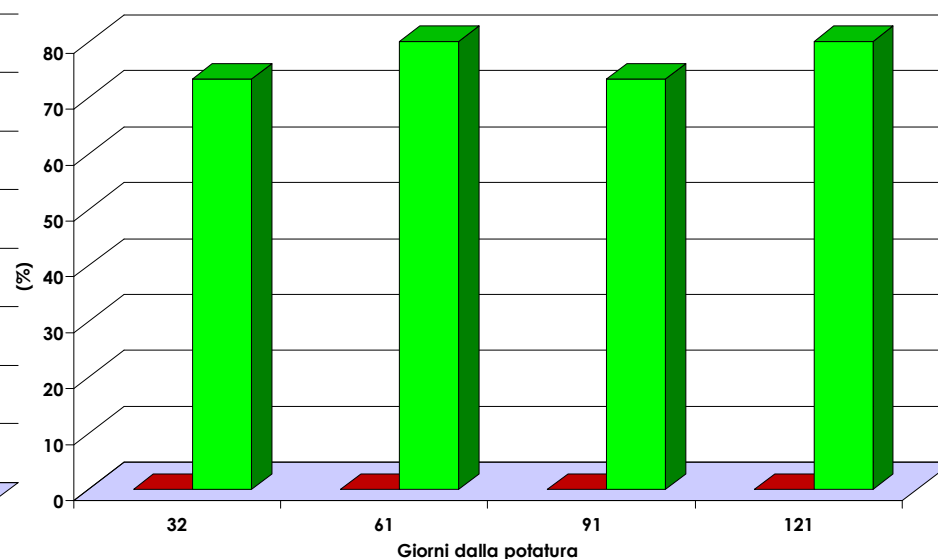


2009: Reisolamento di Trichoderma (frammenti fertili)

Emilia-Romagna



Toscana



Non trattato 

Trattato 



Prove di efficacia

Sintesi dell'attività del biennio 2010 - 2011



10 località



Scheda di rilievo

FILIARE I				FILIARE II				FILIARE III				FILIARE IV			
1	51	101	151	1	51	101	151	1	51	101	151	1	51	101	151
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PRIMI SINTOMI

MATICHE MA PRODUZIONE

ORMALE

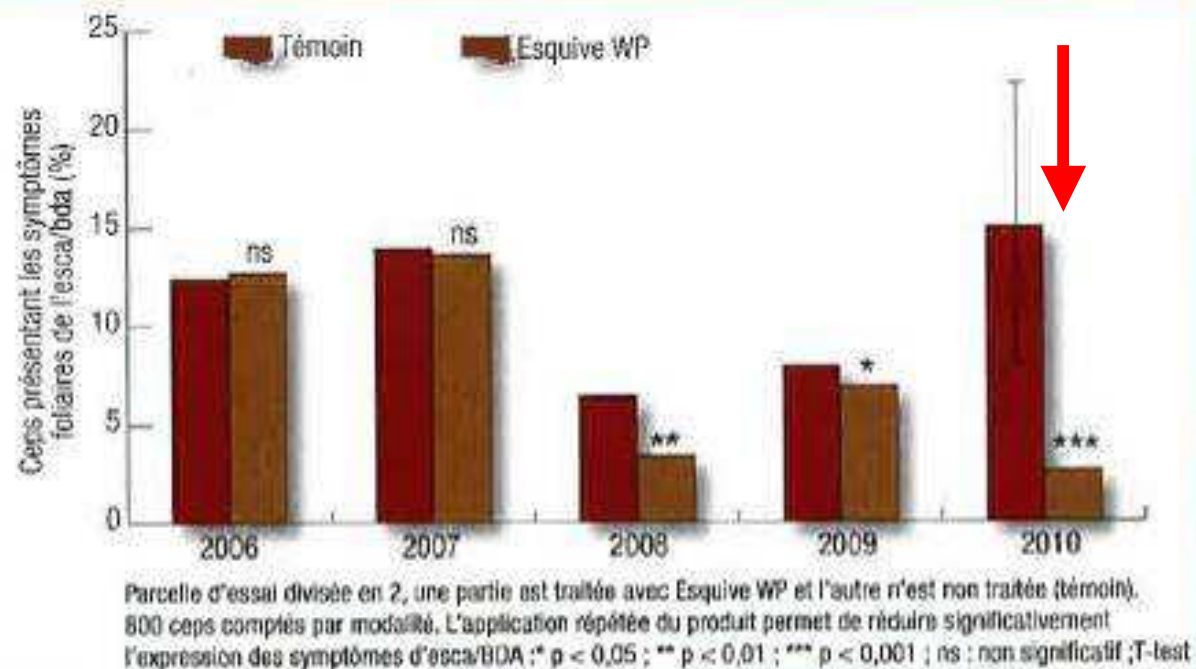
AMENTO COMPLETO

TE SANA

NTE + RIMPIAZZO

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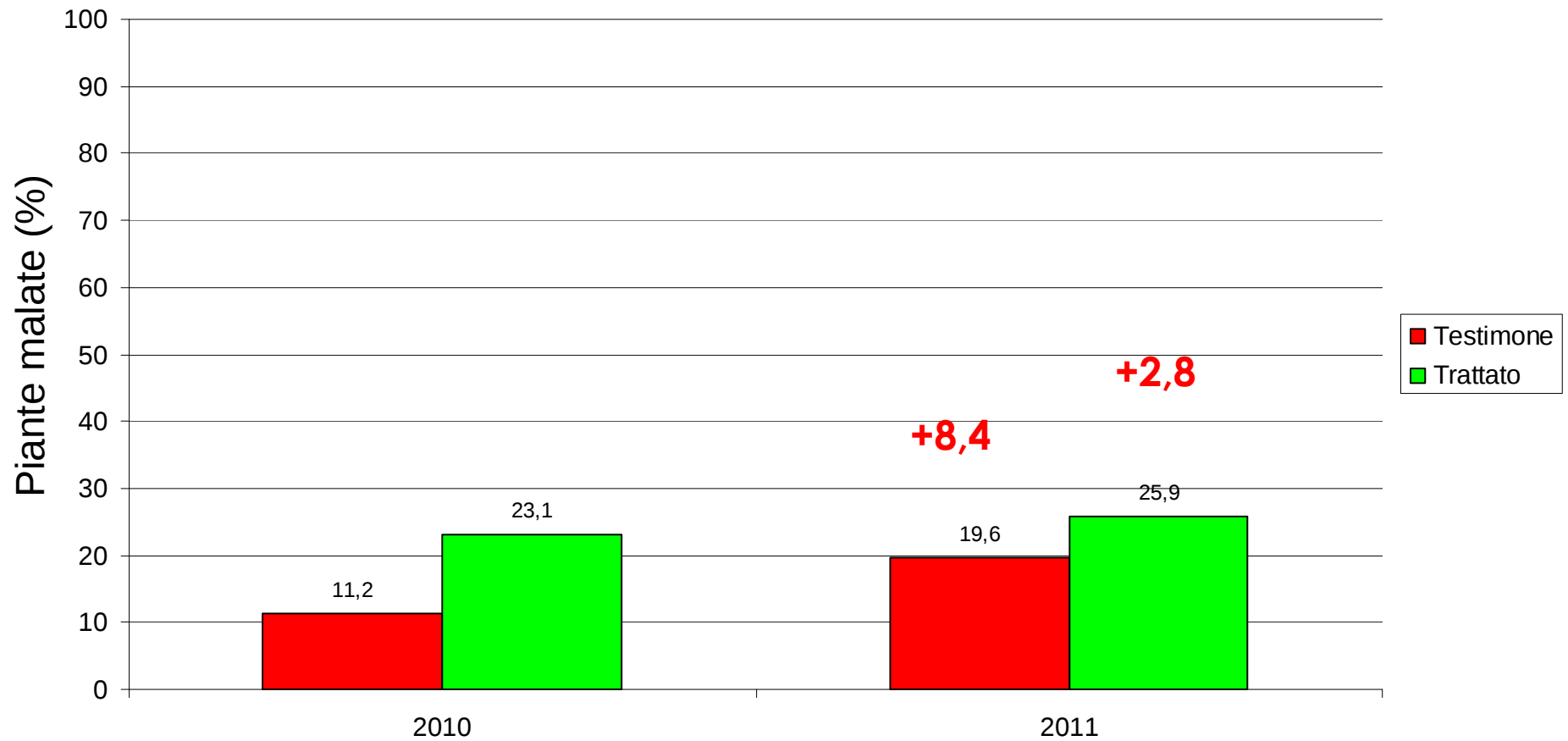
Figure 2 -
Évolution de
l'expression des
symptômes esca/
BDA entre 2006
et 2010 sur une
vigne de Cabernet
franc située dans
le Bordelais.



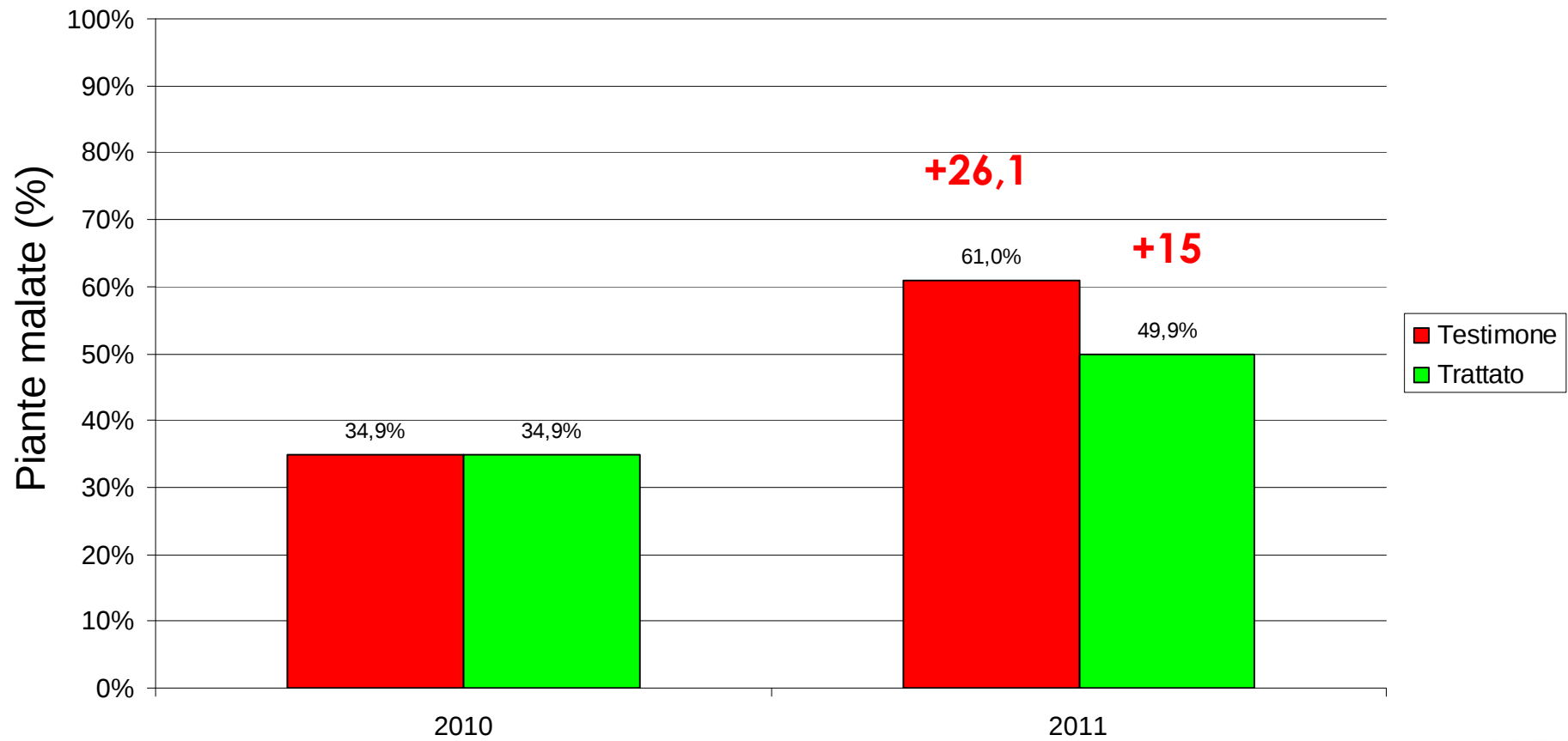
Phytoma, 2011, n. 647, pp 38-41



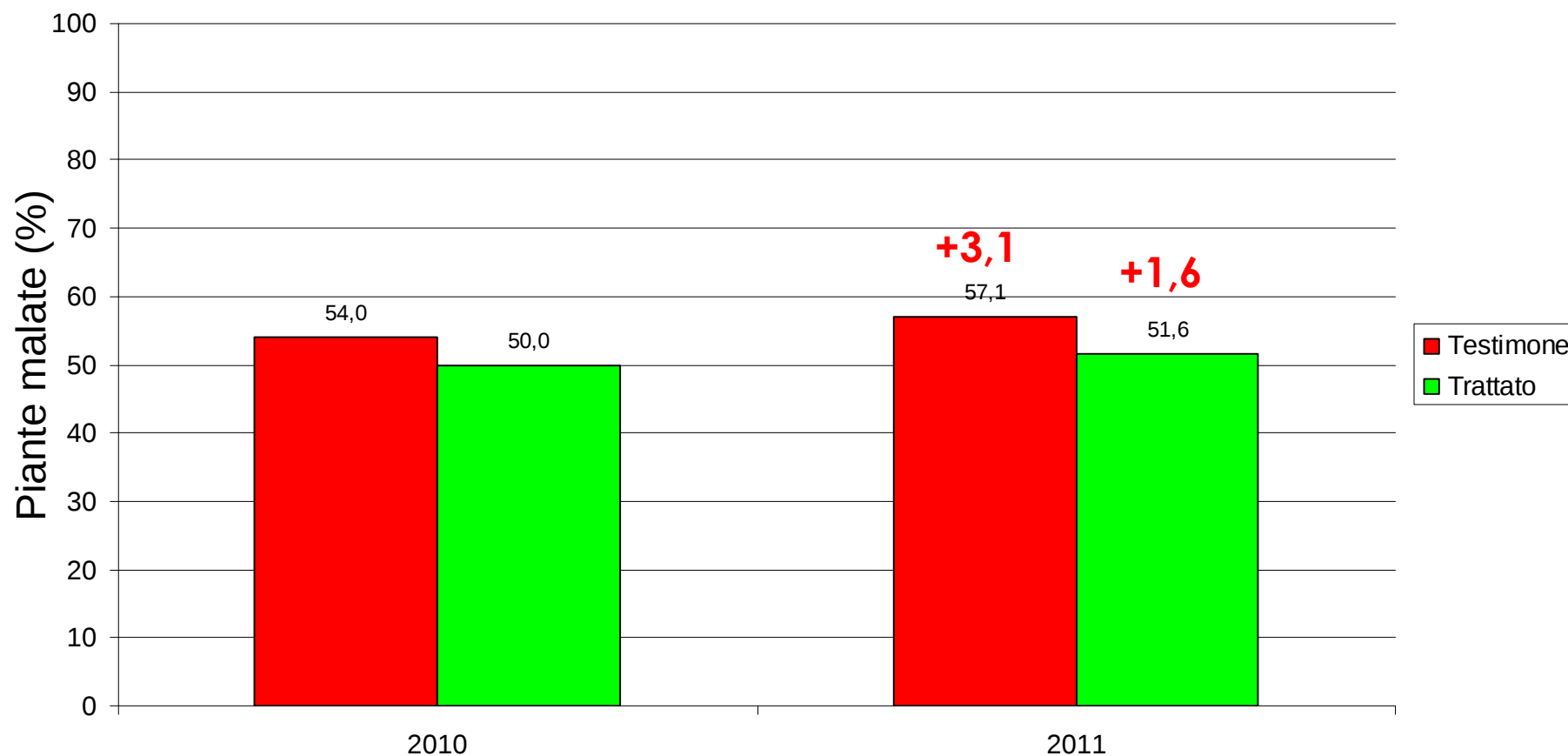
Sangiovese 2004 Montemartino (SI)
Mappatura piante malate
(piante tesi 400)



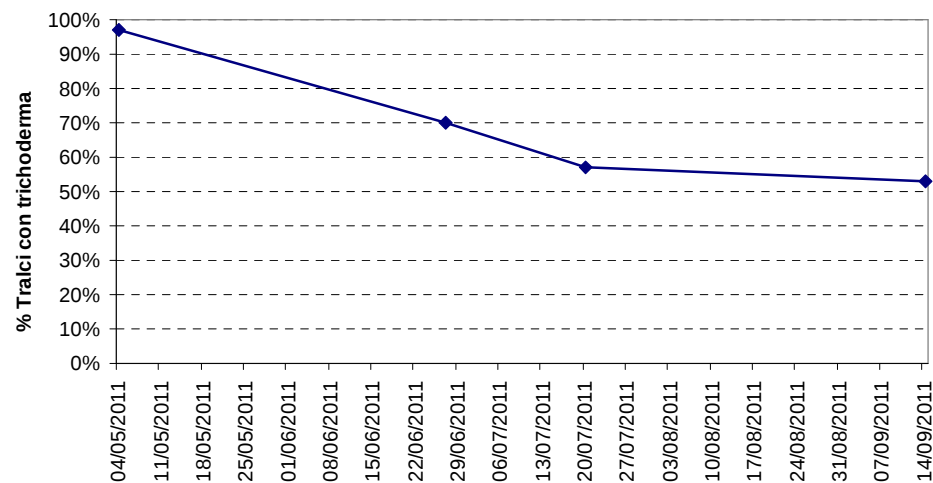
Corvina 2002 Soave (VR)
Mappatura piante malate
(piante tesi 400)



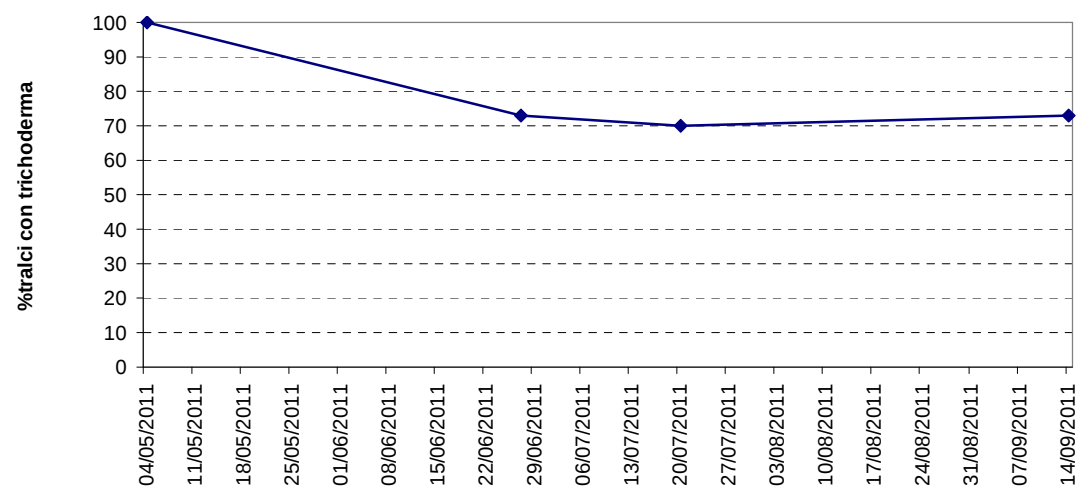
Sauvignon 1993 Cormons (GO)
Mappatura piante malate
(piante tesi 400)



**Reisolamento Remedier
Montemartino - Trattato il 12/01/2011**



**Reisolamento Remedier
Montemartino - Trattato il 10/03/2011**



Modalità applicative

- Dose: 250g/hl
- Volume H₂O: 400l/ha (1kg /ettaro)
- Intervento preventivo
- Epoca di applicazione: metà febbraio- marzo (dopo potatura)
- Compatibile con qualsiasi linea di difesa fungicida



**Grazie per la vostra
attenzione**

Buone Feste!

Franca Reggiori – freggiori@isagro.it

Michele Pizzi –

michele.pizzi@sumitomo-chem

