ROMEO[®] – An efficient and competitive solution against crop diseases.

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ABIM 2013



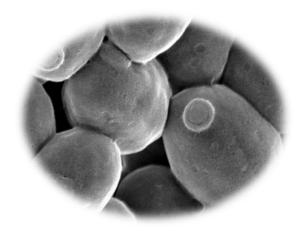


Company



1. Agro-Levures et Dérivés

- An independent French company,
- Which specialises in yeasts for plants ("Ag'yeasts").



- We develop, register, and commercialise,
- Innovative Plant Protection Products and Biostimulants.

Company



2. Our Business Model

- We focus on R&D, IPs, registration and marketing.
- Industrial production : by a partner leader in yeast production
 High quality, steady and cost effective production.
- International distribution : by firms, and national distributors.

ROMEO® – Profile



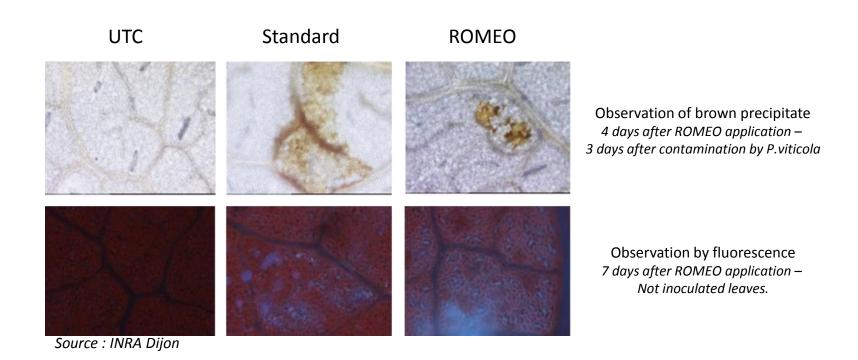
- Composition: Inert selected fraction of S.cerevisiae strain LAS117
- Mode of action: Systemic Resistance Inducer
- Patented worldwide
- Registration in progress: Full EU data package
- Risk evaluation
 - No residues
 - Non-target organisms & environment friendly
 - Organic farming compatible
- **⊙ Formulation : WP**
- Shelf life: 3 years, no constraint

ROMEO® – Mode of action (1/2)



• ROMEO[®] significantly induces the production of :

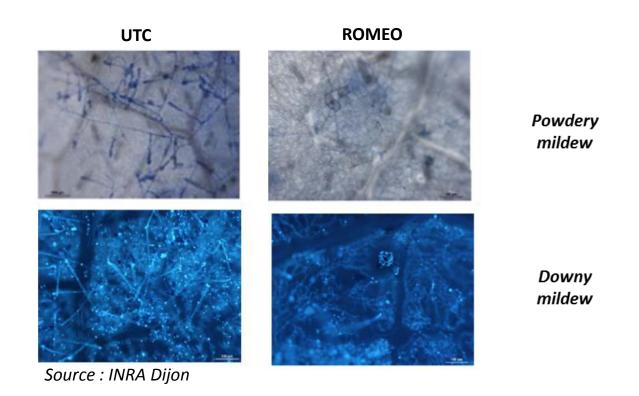
- H₂O₂ (oxydative metabolism)
- Phenolic compounds (stilbens)



ROMEO® – Mode of action (2/2) Agro-Levures



 ROMEO[®] significantly reduces the mycelial growth and the sporulation of fungi: here *E.necator* and *P. viticola*.





ROMEO® - RESULTS

Several hundred trials

- > 10 countries (EU and others)
- > 10 crops

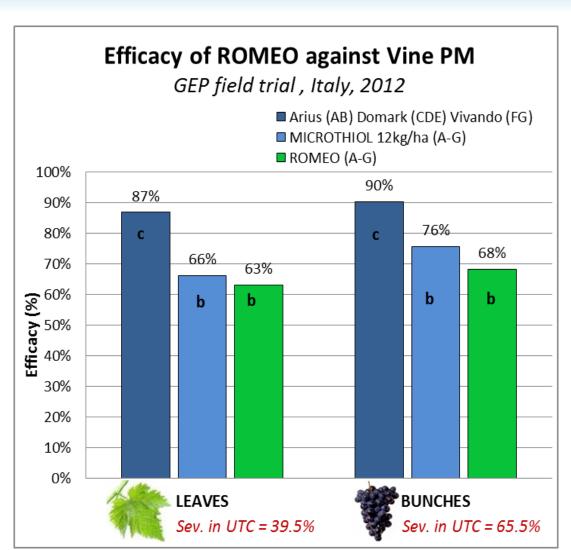
Examples

VINE – Powdery mildew



ROMEO – ALONE

- GEP field trial, 2012, Bari Italy.
- Variety: Nero di troia.
- 7 applications, every week, preventive.
- Comparison with sulfur & chemical program (quinoxyfen / tetraconazol / metrafenone).



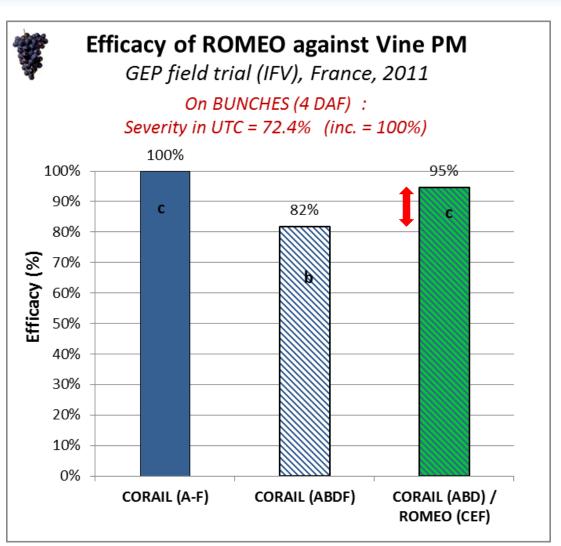
VINE – Powdery mildew



ROMEO – IN PROGRAM

- •GEP field trial, 2011, Rodilhan France.
- •Variety: Carignan.
- •6 applications, every 14 days, preventive.
- •Program with tebuconazol reference.



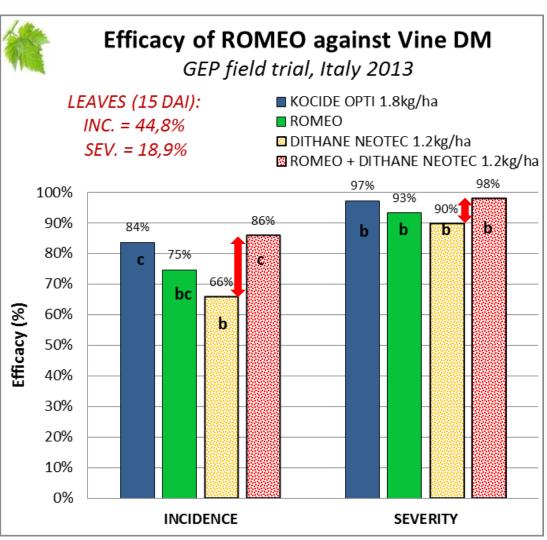


VINE – Downy mildew



ROMEO – ALONE & MIXTURE WITH MANCOZEB

- •GEP field trial, 2013, Trento Italy.
- •Variety : Chardonnay.
- •9 applications, every week, preventive.
- •Mixture with reduced dose of mancozeb
- Comparison with Copper reference



VINE – Downy mildew



ROMEO – IN A COPPER PROGRAM

- •GEP field trial, 2013, Montespertoli Italy
- Variety : Colorino

- . 9 applications, every 7-10 days, preventive
- . Integration in a copper program.



UTC

INC = 75,5% SEV = 57,6%

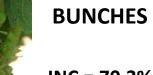












INC = 70,3% SEV = 24,1%

Copper (6kg Cu/ha)







ROMEO + Copper (5,3kg Cu/ha)



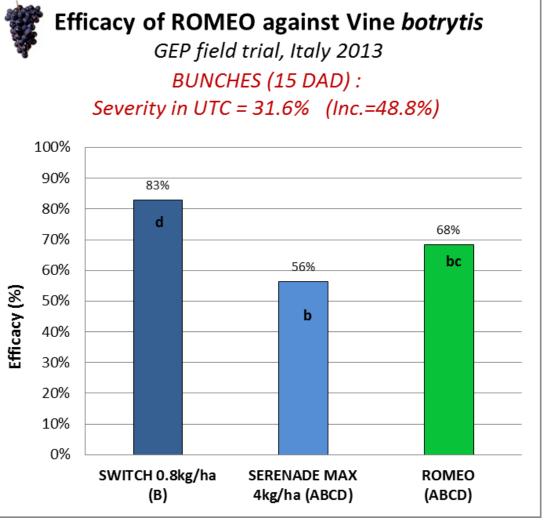


VINE – Grey Mould



ROMEO – GREY MOULD

- •GEP field trial, 2013, Treviso Italy.
- Variety: Pinot grigio.
- •4 applications at classical stages.
- •Comparison with references : Cyprodinyl + fludioxonil and Bacillus subtilis str QST 713.



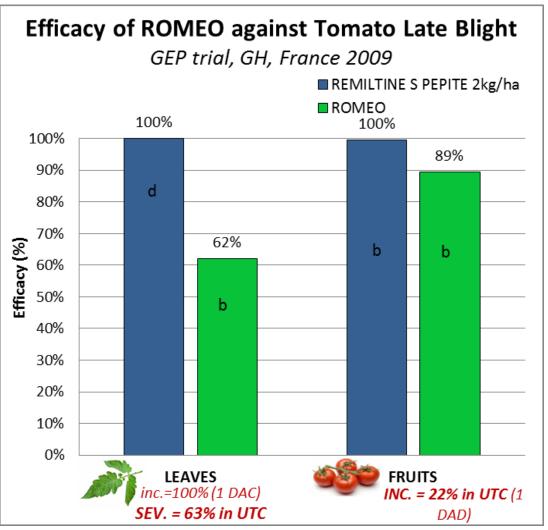
TOMATO – Late blight



ROMEO – LATE BLIGHT

- GEP greenhouse trial, 2009, France.
- Variety : Alexia.
- 4 applications, every 7 days, preventive.
- Artificial contamination (2 DAA).
- Comparison with cymoxanil + mancozeb reference.





TOMATO – Botrytis cinerea

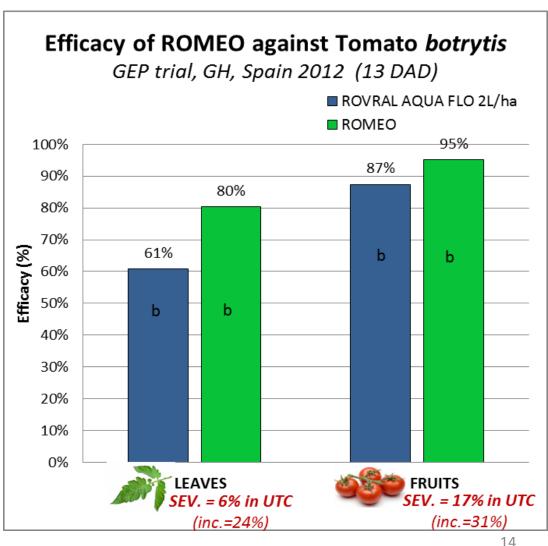


ROMEO – BOTRYTIS

- GEP greenhouse trial, 2012, Spain.
- Variety: Anairis.
- 5 applications, every 14 days, preventive.
- Natural contamination.
- Comparison with iprodione reference.







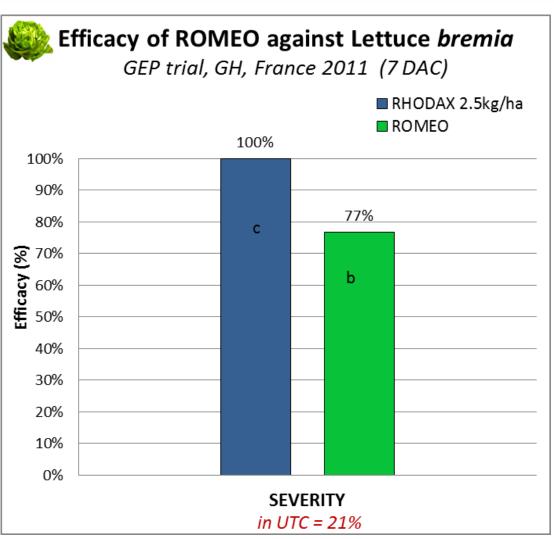
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LETTUCE – Bremia lactucae



ROMEO – BREMIA

- GEP greenhouse trial, 2011, France.
- Variety : Cocktail.
- 4 applications, every 7-10 days, preventive.
- Artificial contamination (2 DAB).
- Comparison with fosetyl-Al + mancozeb reference

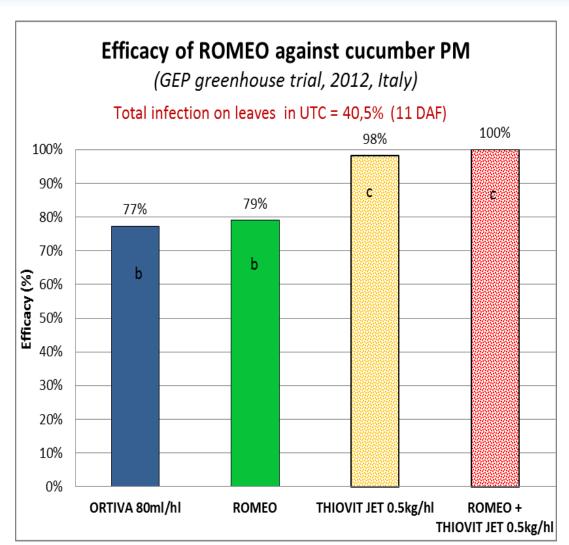


CUCURBITS – Powdery mildew



ROMEO – ALONE & MIXTURE WITH SULFUR

- GEP trial, 2012, Italy.
- Variety : Marketmore.
- 6 applications, preventive, every7 days.
- Natural contamination.
 Comparison with azoxystrobin & sulfur references.

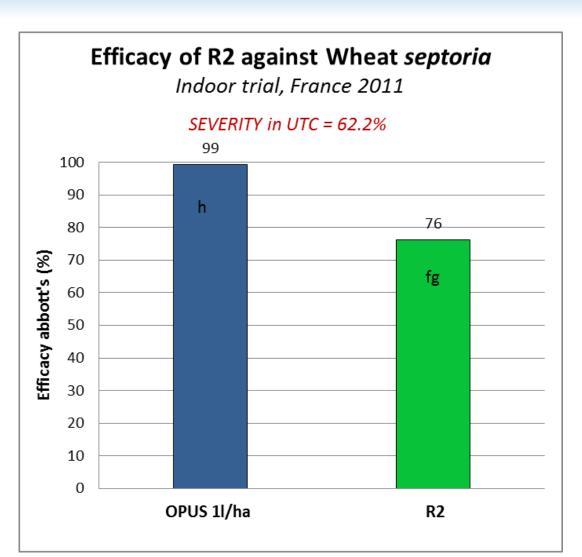


WHEAT – Septoria tritici



R2 - SEPTORIA

- Indoor trial on potted plants,
 2011, France.
- Variety : Scorpion.
- 1 application at 4 leaves stage.
- Artificial contamination 2 days after application.
- Comparison with epoxiconazol reference.



ROMEO® – Targets



Broad spectrum of action against fungal diseases.
 Presented examples :

GRAPEVINE TABLE GRAPE	Powdery mildew
	Downy mildew
	Grey mould
CUCURBITS	Powdery mildew
TOMATO	Late blight
	Botrytis cinerea
LETTUCE	Downy mildew

 Many other uses in development (others diseases, others crops: arable crops, fruit trees, etc...)

ROMEO ®— BENEFITS



In a nutshell:

- •ROMEO® proves a great potential :
 - Good efficacy
 - Programs matching the standard
 - Flexible positioning
 - Broad spectrum of action

●ROMEO® allows chemical inputs and residues to be significantly reduced.

