





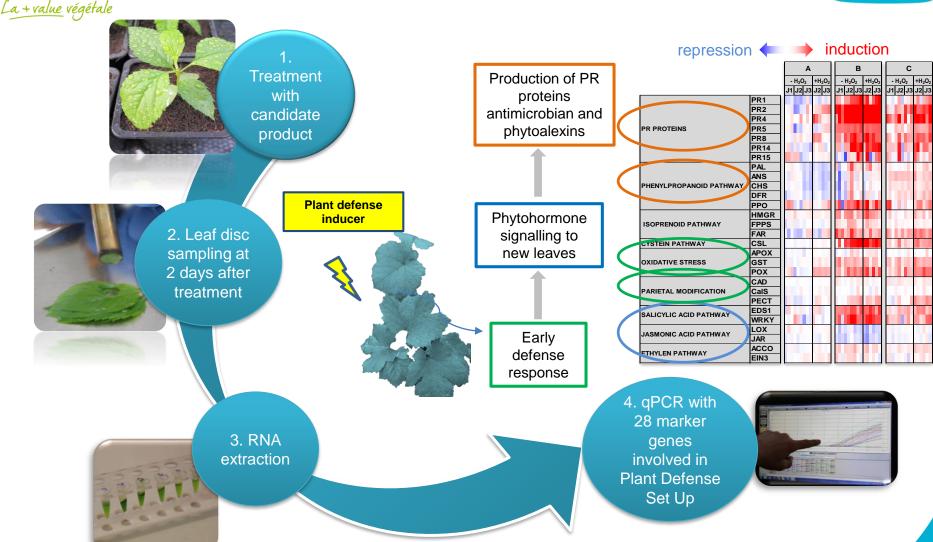
A field sampling kit to evaluate and confirm plant defense induction by ROMEO in field conditions

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A qPFD®* platform to screen plant defense inducers in laboratory







FTA®* sampling cards to transport samples from field to laboratory

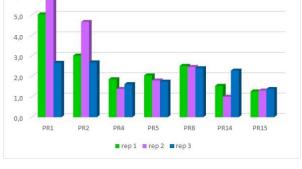


La + value végétale



1. FTA sample kit: card, bag, pipette, extraction buffer

2. Leaf sampling in bag



Quantitative gene expression

> PR Proteins induced : marker genes for the set up of plant defense mechanisms

BIOREBA

3. Leaf grinding

> Sample applied on cards



5. Focus on **Pathogenesis** related protein - PR genes



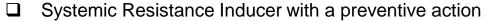


Romeo



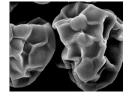






- ☐ Low risk substance, no MRLs
- Suitable for organic farming

Crop	Uses	Dose/ha	Max appl. /year
Grapes	Powdery and downy mildew	0,25 kg	10
Cucurbits	Powdery mildew	0,5 kg	8
Salad	Downy mildew	0,75 kg	8
Tomato	Botrytis	0,5 kg	8
Strawberry	Botrytis	0,75 kg	8















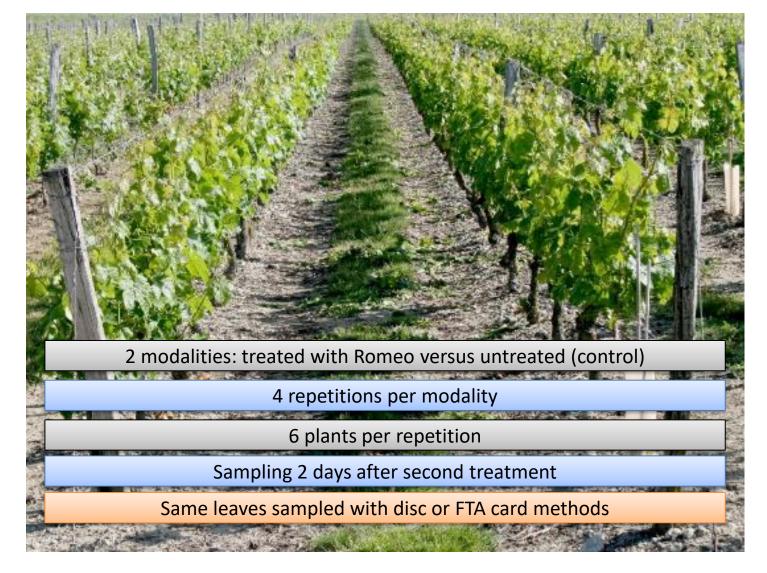
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Experimental design



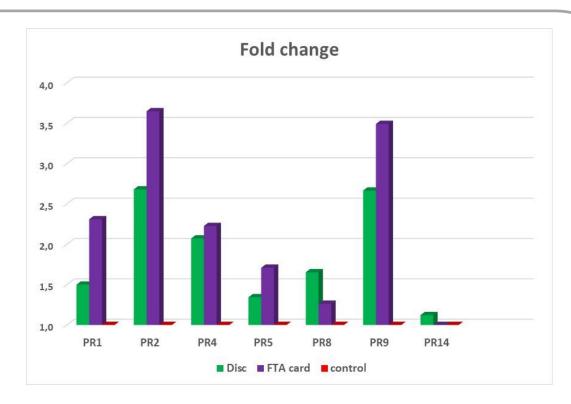




Assessment of plant defense induction by Romeo in field conditions







PR1, PR2, PR4, PR9 genes are induced in plants treated with Romeo



CONCLUSIONS



- Induction of PR proteins in field conditions after Romeo application
- Combined method qPFD®+ FTA® card successfull to assess PR induction in vineyards
- Available on







