Development Action Plan, DAP

“Vegetable – From seed to table and Beyond” in Module 3

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Three topics the most useful

- Economic Analysis of Project
- Development communication
- Systems thinking and integrated agriculture in development project

Application of *Trichoderma hazianum* for Chili Disease Control in sustainable agriculture

In recent years the importance of sustainable agriculture has risen to become one of the most important issues in agriculture. In addition, plant diseases continue to play a major limiting role in agricultural production. The control of plant diseases using classical pesticides raises serious concerns about **food safety, environmental quality and pesticide resistance,** which have dictated the need for alternative pest management techniques. It has been the *Trichoderma spp.* used aggressively to control plant diseases.

Objective

- To evaluate the efficiency of antagonistic fungi for controling the disease on chili to reduce the chemicals use.

- To develop a handbook of biological control on chili disease for promoting to farmers

Trichoderma hazianum.

Green colony on media

conidia and conidiophore

Phytophthora capsici

Sclerotium rolfsii

Phomopsis sp

Choanephora sp.

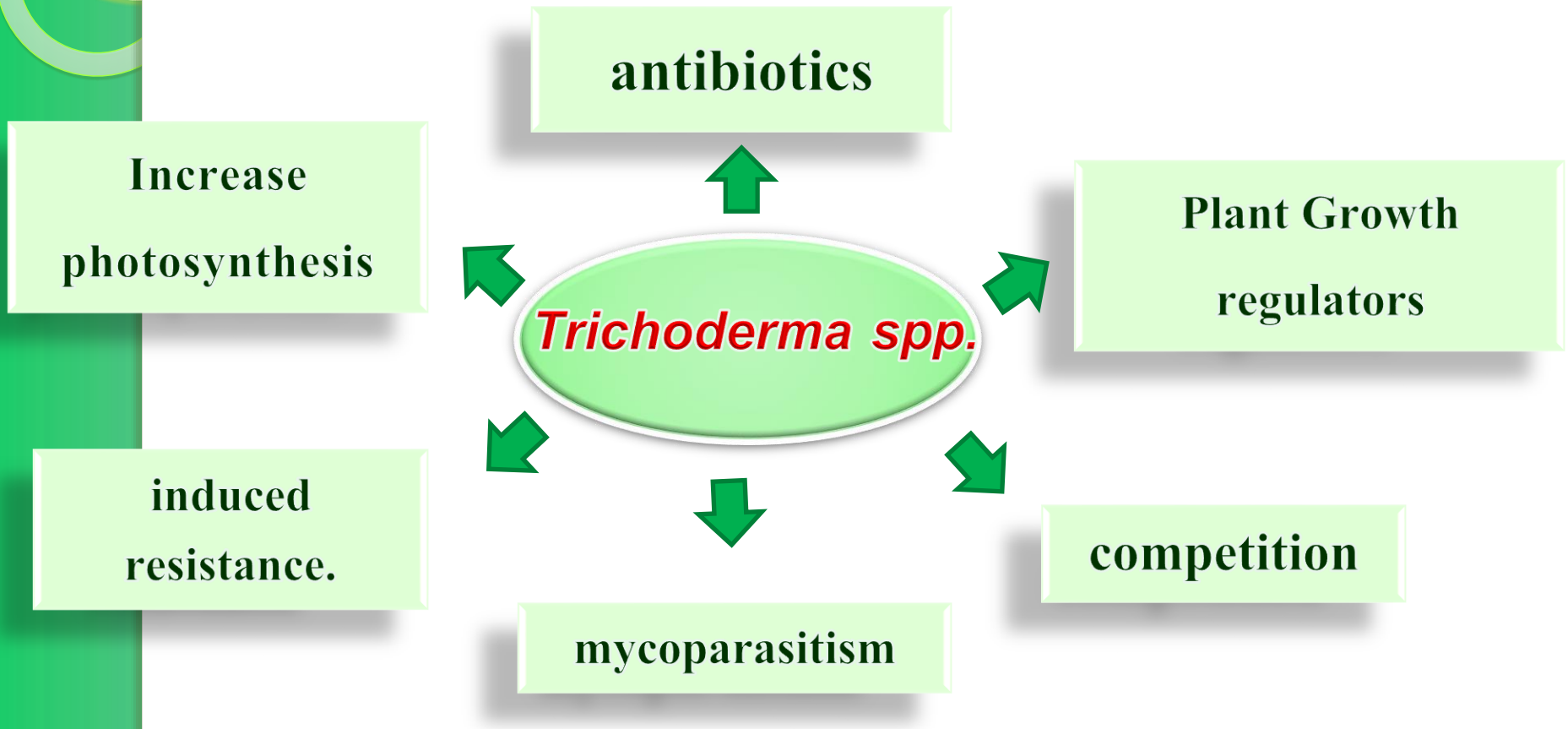
Oidium sp

Fusarium spp

Cercospora capsici

Colletotrichum sp.

Mechanisms Trichoderma of Disease Control



Product

Stock solution

fresh culture

Liquid Formulation

Powder

granule

Materials and Methods

Trichodema formulation

Soaking seeds

Fresh culture+substance

Preparing seedling tray

spraying seeds

Spraying the seedlings

Adding Trichoderma substance

Spray every 10 days

Harvesting stage

Action Plan

No	Activity plan	2017										
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	Research plan meeting -GAP/GMP certification -Budget	←	→									
2	Planting			←			→					
3	Data collection of chilli disease					←		→				
4	Conclustion								↔			
5	develop a handbook of biological control on chili disease									←		→

Challenge

- Non Target diseases


...THANK YOU...