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Regenerative Agriculture Systems



Why do you farm?















What does it mean to be a "Practical Farmer" ?





Practical farming has to be:

- economically viable
- environmentally sound





Iowa loses 2 pounds of soil for each pound of corn produced













Current lowa corn and soybean production does not qualify





Midwest farmers have two tremendous opportunities:





1. Replacing West Coast vegetable production

2. Addressing plant health challenges at the source, rather than band-aiding them





West Coast production, the big picture:

California is a desert that has already happened

People will be relocating east

Food production will be moving





California is losing its historical competitive advantages:

-Readily available labor

-Plentiful irrigation water





Before 1940 Iowa was 6th in apple production





In 1949 Iowa had 12,000 acres of potatoes





Forest City, Iowa was heart of the largest flax production region in the world





2. Addressing plant health challenges at the source, rather than band-aiding them





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4. PSM's - beetles

3. Lipids - air borne pathogens

2. Proteins - sucking and chewing insects

1. Carbohydrates - soil borne pathogens



Farming is a profession of generalists

Research is a profession of specialists





There is a large disconnect between research and practical application

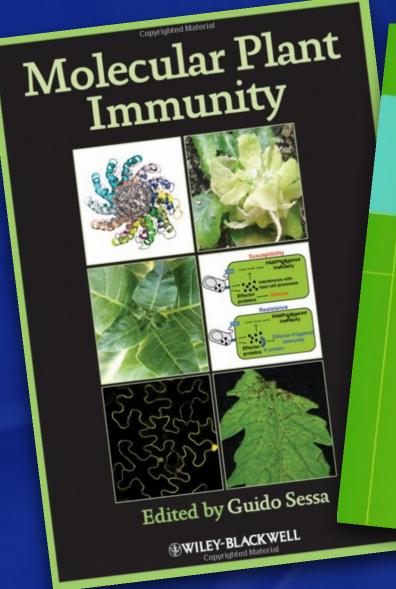












Springer Protocols John M. McDowell Editor **Plant Immunity** Methods and Protocols

💥 Humana Press







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Edited by Lawrence E. Datnoff, Wade H. Elmer, and Don M. Huber





Bio-Technology





Genetics





Epi-Genetics





Environment determines genetic expression





Environment is climate mediated by nutrition





Nutrition is the foundation of yield, quality, and plant immunity





Results of regenerative farming systems





Regenerate soils while growing a crop

Food as Medicine

Nutrition

Balanced for Health

not ONLY Yield



Principles perform consistently

Sustainability is not enough







We have the knowledge

THE UNITED STATES OF





The challenge?

Where we look for answers.....



Managing Priorities, the key to farming success





Are you really growing food?





The information is there, what will you do with it?



