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## Plant Diseases Caused by Bacteria and Biological control

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Our laboratory is responsible both teaching and research emphasizing the disease diagnosis, pathogen identification and detection using standard and molecular methods, IPM and biological control using antagonistic bacteria. Biology of disease infection, outbreak of bacterial diseases, and diversity of pathogen on various economic crops, rice, maize, green soybean and vegetable are also studies

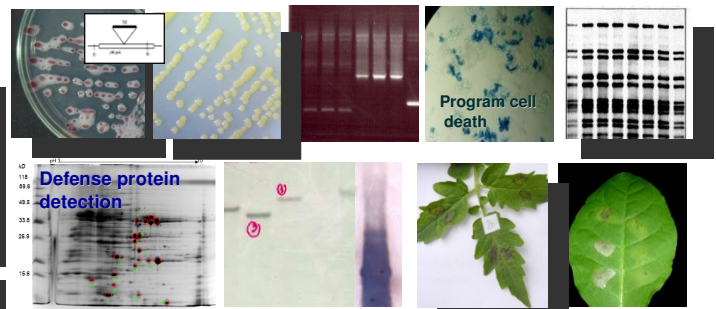
### Research Programs

- Research for novel information on diversity of phytopathogenic bacteria, mechanism of infection, plant response to disease infection, and bacterial antagonist screening using method on microbiology, biochemistry, and molecular analysis

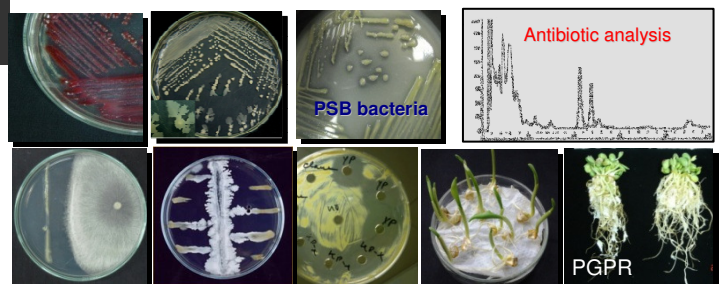
#### Diversity of plant disease caused by bacteria on different host plant



#### Molecular Plant-Bacterial Interactions



#### Plant diseases control using beneficial antagonistic bacteria



#### Development of bioproduct and its application in production field



#### Ongoing research project

- Development of bacterial antagonist formulations and their control mechanisms against bacterial leaf blight and leaf streak of rice, corn, and important diseases of vegetable
- Development of seed coating with plant growth promotion and induce systemic resistance bacteria against corn diseases
- Primer specific development for seedborne pathogen detection on sweet corn seeds
- Characterization mechanism of PSB bacteria to enhanced plant growth and induced disease resistance