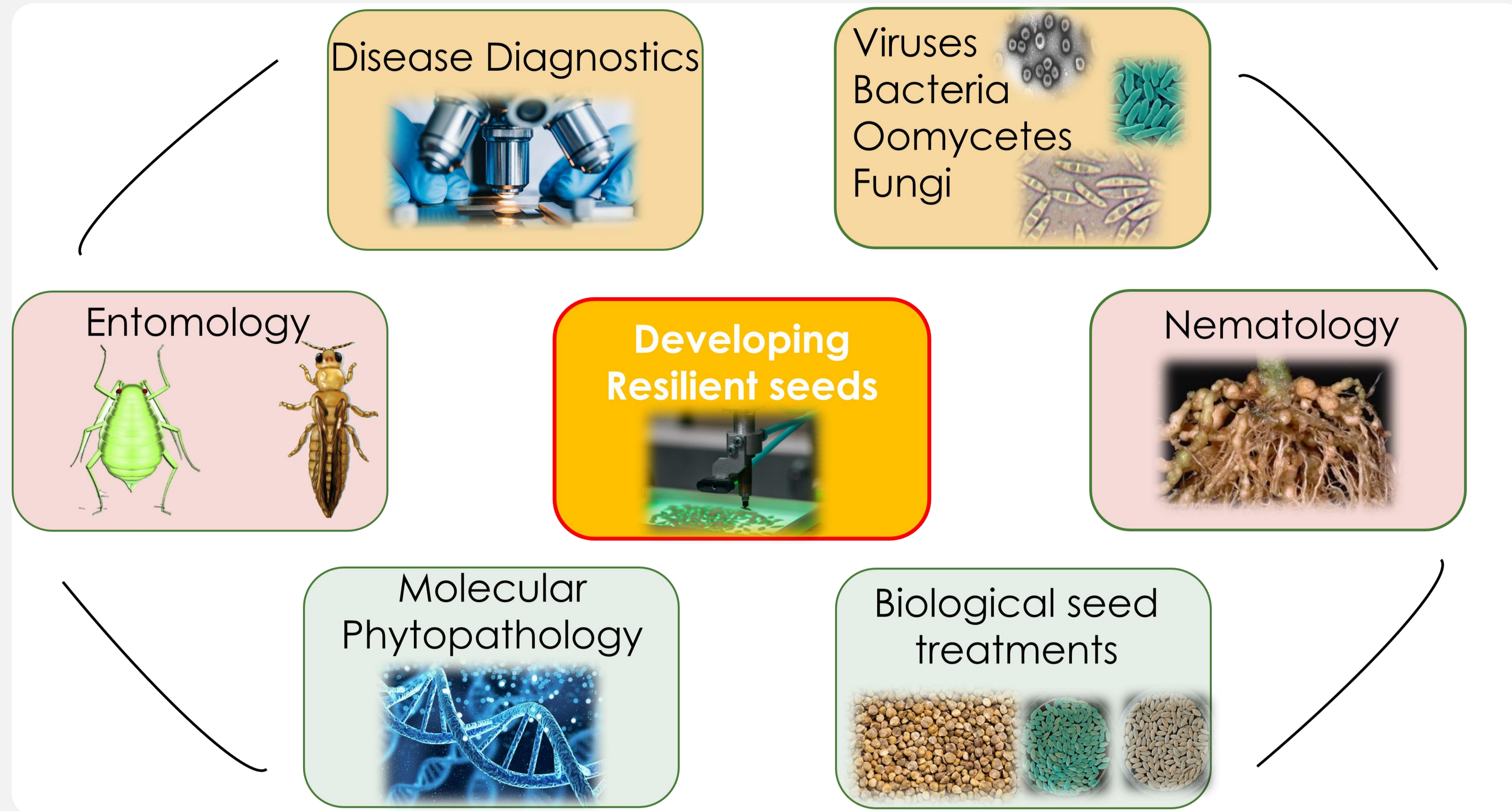


Towards resilient crops: breeding for resistant vegetable seeds

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Phytopathology at RZ

- Diagnostics on material from diseased plants.
- Develop protocols for disease testing.
- Tests developed on a wide range of pathogens and pests.
- Test new resistances in the field.
- Lab, greenhouse, field.

Resistant

Susceptible

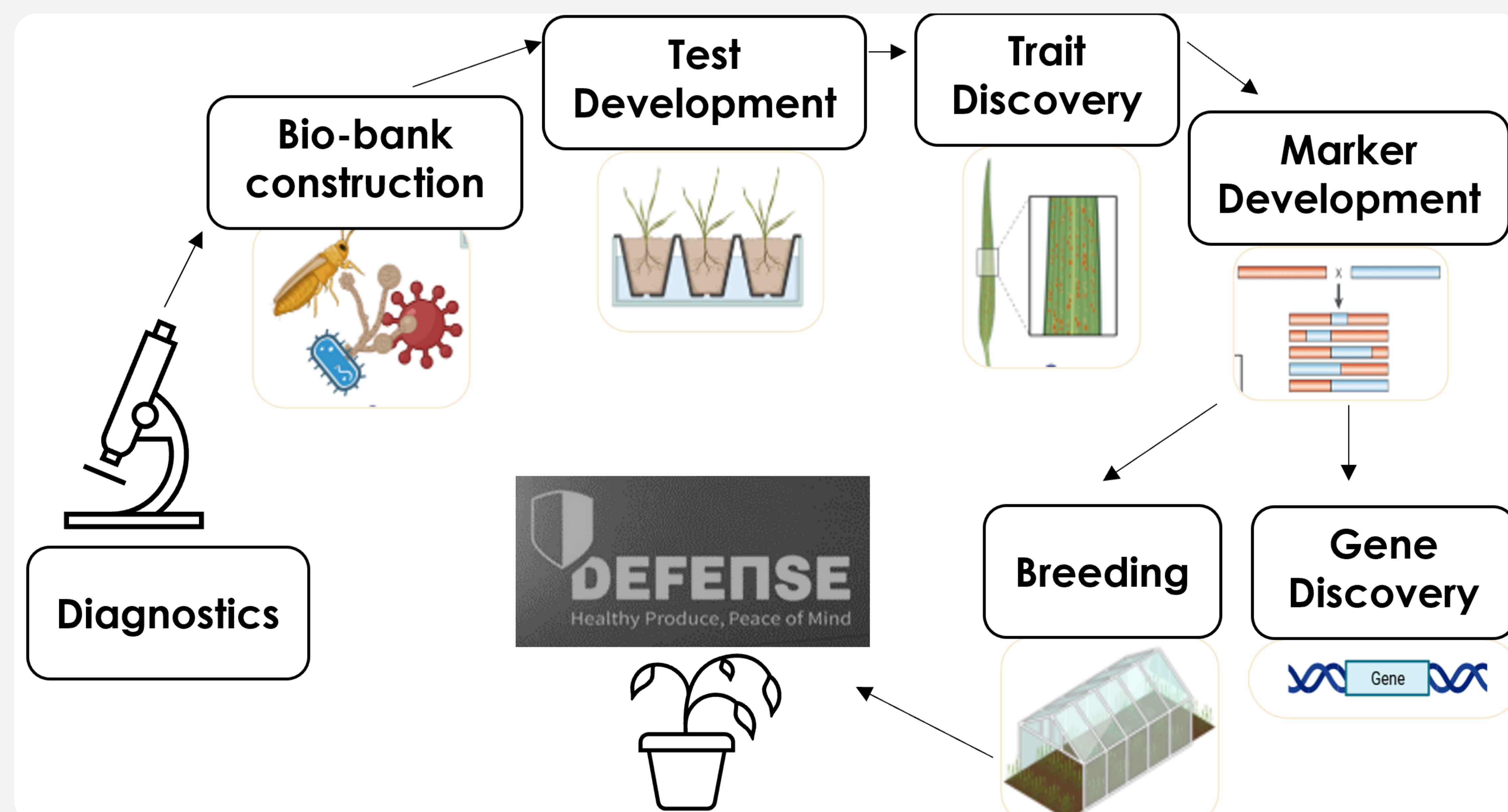


Product offer:

- 30+ vegetable and fruit crops
- Crops include, cucumber, lettuce, spinach, tomato, among others.
- 1800+ commercial varieties.

Resistance Examples

- Lettuce-*Fusarium oxysporum* FOL 4
- Cucumber-*Fusarium* resistance



From diagnostics to resistance breeding:

- Determine cause of disease.
- Generate bio-bank repository.
- Develop relevant disease/pest tests.
- Select plants with desirable trait.
- Marker development and gene discovery.
- Breeding for resilience.