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2021 Agricultural Outlook Forum

Building on Innovation: A Pathway to Resilience

## Issues in pest management: Citrus greening

Introduced by Laura A. Fleites, PhD AgroSource, Inc.

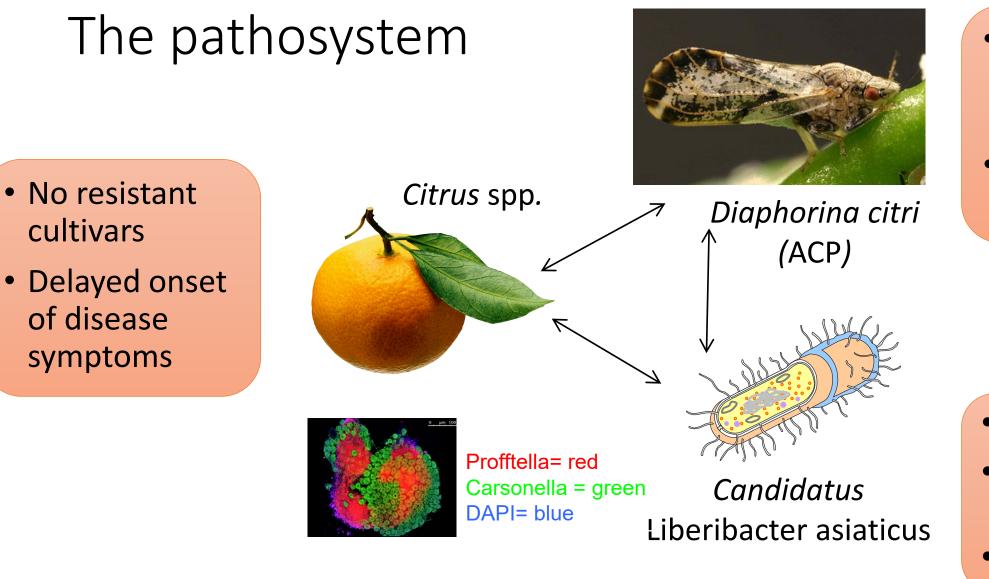


#### Citrus greening disease (Huanglongbing)

- Associated with *Ca.* Liberibacter asiaticus (*C*Las), africanus (*C*Laf) or americanus (*C*Lam)
- Vector, *Diaphorina citri* present in FL since 1992
- CLas first detected in the U.S. in Miami-Dade county in 2005
  - Georgia, Louisiana and Mississippi, 2008
  - South Carolina, 2009
  - California and Texas, 2012
  - Alabama, 2017







- Highly efficient disease transmission
- Amenable to CLas infection

- Unculturable
- L. crescens as a model
- Prophage

# Intensive research efforts for HLB management

- Multi 'omics
- Many candidate therapeutics
- Progress in culturing efforts
- Gene editing of psyllids
- Transgenic approaches
- New delivery strategies for therapeutics



#### Upcoming speakers

- Monique Rivera, Cooperative Extension Specialist, UC Riverside
- Bryony Bonning, Professor of Entomology and Nematology, UF
- Michelle Heck, Research Molecular Biologist, USDA-ARS EPPRU

