## Attract & Kill in the Field

Integrating local pest migration with A&K components

- Early-Season
  Intervention
  - Low pest pressure at all field sites
  - Inconclusive results
  - No evidence of increased risk when using attractive stimuli
- Bait Spray Trials
  - No apparent synergy with addition of feeding stimulant to various chemistries

## "Attract"

Using vittatalactone to manipulate pest insect behavior & create aggregations

- Dose-Response Trials
  - Positive linear doseresponse for striped cucumber beetle, spotted cucumber beetle, and squash bug, with no signs of repellency in high concentrations
- Season-long Lure Trials
  - Vittatalactone lure effectively manipulates local migration of SCB, SpCB, & SB in the early season, before crop flowers
  - Stimuli from crop plants likely outcompete our lure mid-season

## "Kill"

Using traps & baits to capture or poison pest insect aggregations

- Trap Design Trials
  - Clear sticky & boll weevil trap best capture methods
- Roller Bait Station Experiment
  - Lure, melon juice, cucurbitacin are all important components to A&K
- Cucurbitacin Content of Melon Juice
  - Variability of feeding stimulant chemical in our raw product due to genetic variability in seed stock