

# Soteria Formulations

NexGran an innovative approach to nematode control for sweet potatoes.



# Soteria Formulation



- We upcycle crop residue into more effective pesticides



**Seed coatings**

Soybean, corn

**Nexgran**

Sweet potatoes, potatoes

- Over \$3.65 Million in foundational research

**NC STATE UNIVERSITY**

**BILL & MELINDA**  
GATES *foundation*

# North Carolina produces 60% of the US sweet potato crop

- Sweet Potatoes are susceptible to Plant Parasitic Nematodes



- Guava Root Knot Nematode as an emerging pathogen

**“The North Carolina Sweetpotato Industry**, represents an industry that is vast and far reaching with significant economic impact to the state of North Carolina. **One significant challenge is the Guava Root Knot Nematode (GRKN)**. As a root vegetable, the **sweetpotato is particularly susceptible to this pest**. The technology and science that Soteria Formulations has discovered provides great enthusiasm and relief to the industry, as a possible solution to this threat may soon be available. “

***Michelle L. Grainger***

Executive Director

NC Sweetpotato Commission



# Nexgran

- Targeted and Controlled
- Innovative
- Compatible with existing equipment
- Increase Yield and Marketability #1

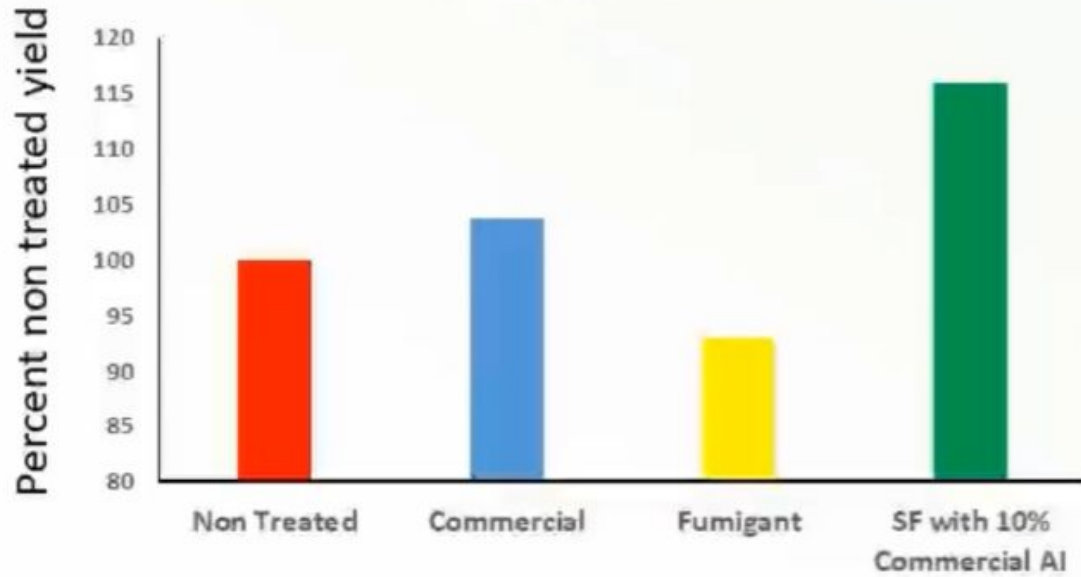


Precision Planting  
Cornerstone System

# Field Trial Results with Sweet Potatoes

Field trial Pitt County NC 2021

### Sweet Potato Yield

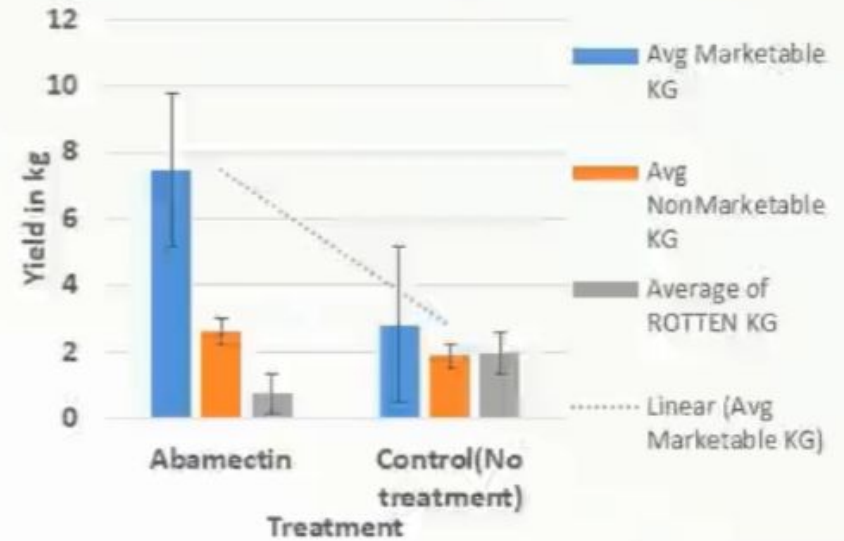


Treated



Non Treated

### Sweet Potato Yield



# Status

- Produced granules at pilot scale (MVP)
- Demonstrated granules work in small scale trials
- Currently greenhouse testing MVP
- 2025 small scale field trials scheduled for GRKN nursery



# Soteria is seeking



- Active ingredient Manufacture and/or Distributor to
  - Build a relationship
  - Develop new formulations
  - Partner in registry
  - Market the new product
- IR-4 support in
  - Consideration of an innovative approach
  - Support in field testing
  - Support for product registration



# Thank you



[www.soteriaformulations.com](http://www.soteriaformulations.com)

[tahirapirzada@soteriaformulations.com](mailto:tahirapirzada@soteriaformulations.com)

[richardguenther@soteriaformulations.com](mailto:richardguenther@soteriaformulations.com)

**North Carolina  
Biotechnology Center**



**NCIDEA<sup>TM</sup> MICRO**

