

IR-4 Food Use Workshop 23 September 2019

About GreenLight Biosciences

- Start up company based in Medford, MA and Research Triangle Park, NC
- Developing a pipeline of proprietary dsRNA products for agriculture
 - Insects
 - Fungus
 - Plants



GLB's RNAi is a targeted, effective solution

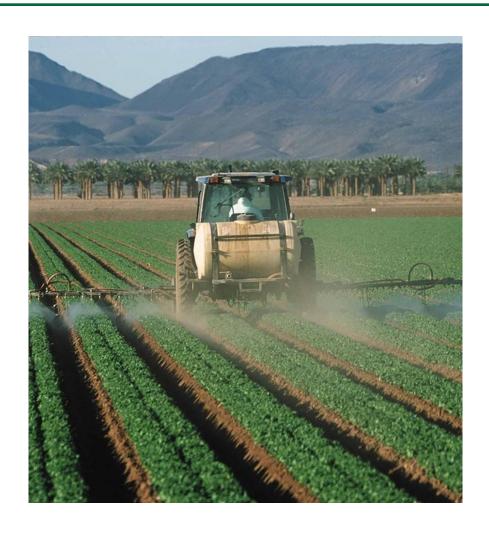
	Attributes
New pest control MOA	 Non-GMO No effect on DNA Biomolecule Whereas 'conventional' pesticides may bind to a protein in target pests, RNA interferes with the production of a particular protein in a single pest.
Specificity	 Designed to only affect target pest and be harmless to other insects, animals and plants
Fate Profile	Short half-life (days) in the environment
Ubiquity	 RNA is everywhere, in every living thing and all unprocessed food/feed Natural food source for bacteria

Key EPA SAP findings for RNA products

- Dietary RNA is extensively degraded in the mammalian digestive system.
- No significant absorption of dsRNA in mammals
- Minimal likelihood of adverse effects.
- Registration needs based on Biochemical requirements



GLB product is a **sprayable** Soluble Liquid dsRNA on Colorado Potato Beetle



- Colorado Potato Beetle are:
 - becoming resistant to conventional chemistries
 - very sensitive to RNAi technology
- Product will be:
 - o an alternative to conventional chemistries
 - used stand alone or in combination
 - part of an IPM program



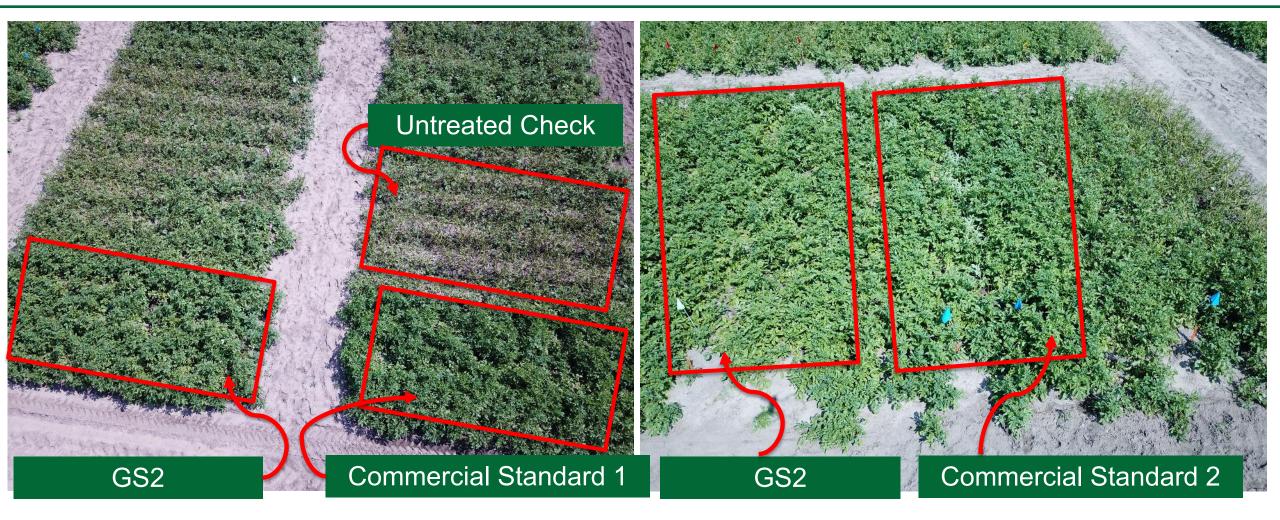
What to expect from GLB's product

- Effective CPB control and defoliation protection
- At least 8x less ai needed than most standards
- Defoliation protection comparable to standards
- Activity on CPB in label expansion crops appears similar to potato





GLB product provides CPB protection comparable to commercial standards



At least 8x less GreenLight ai needed than most commercial standards



Questions?

Contact:

Laurent Mézin

Lmezin@greenLightBio.com

www.GreenLightBiosciences.com

