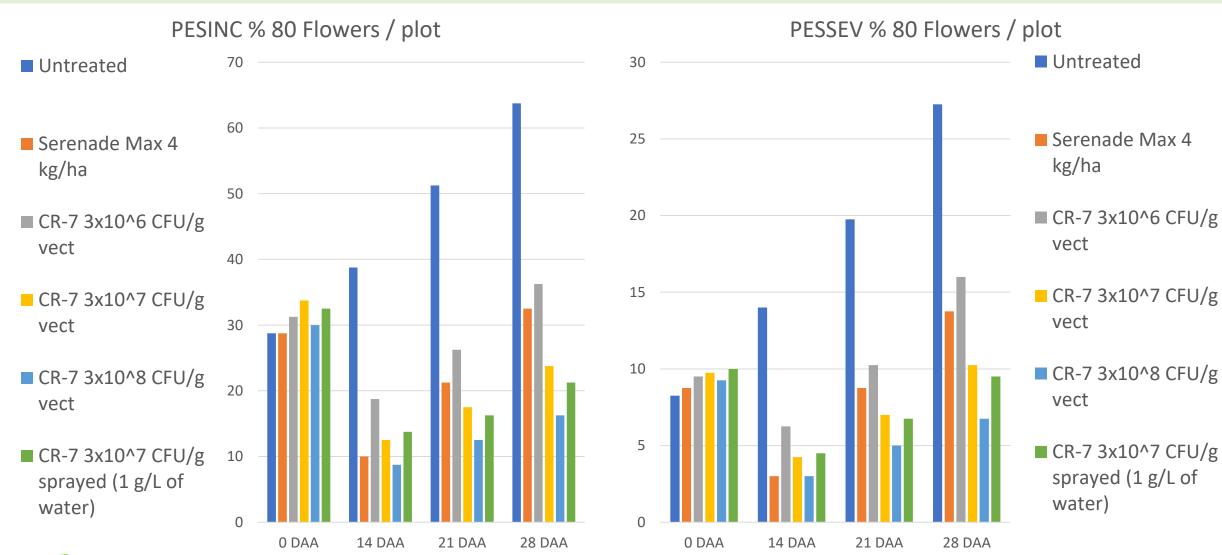


ABIM

October, 2019



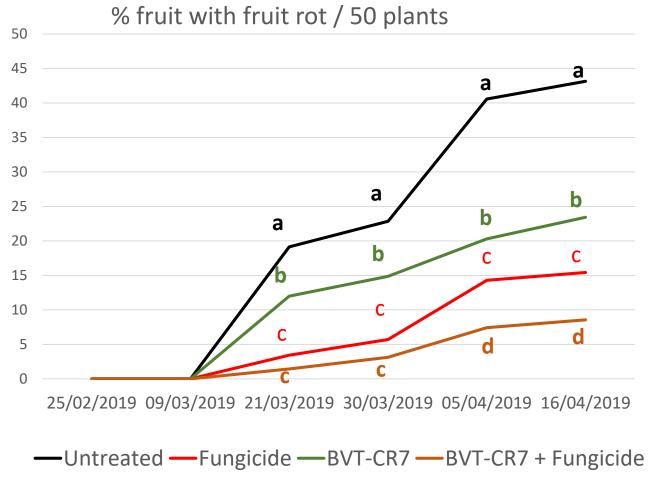
Tomato trial Mexico 2019

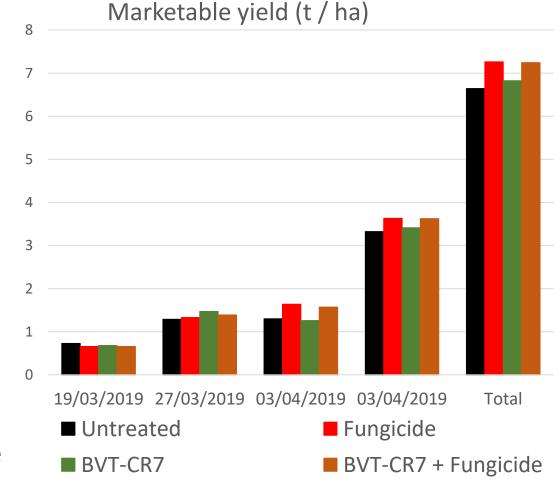






BVT-CR-7 vectored by bees (tomato trial Italy 2019): good control of Botrytis = useful instrument for IPM



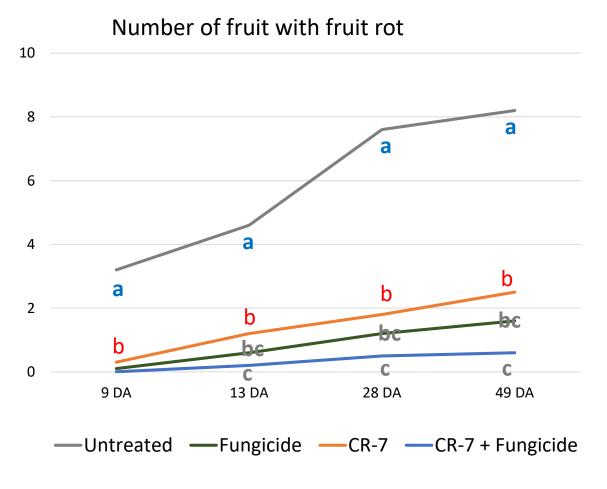


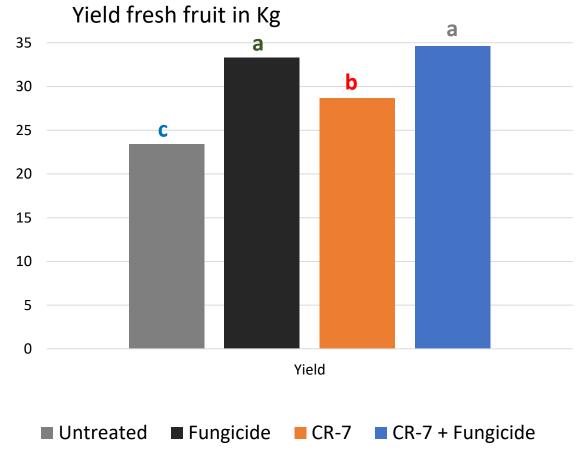




Performance of BVT System: excellent reduction of Botrytis on fruit and enhancement of yield

Tomato trial Italy 2017



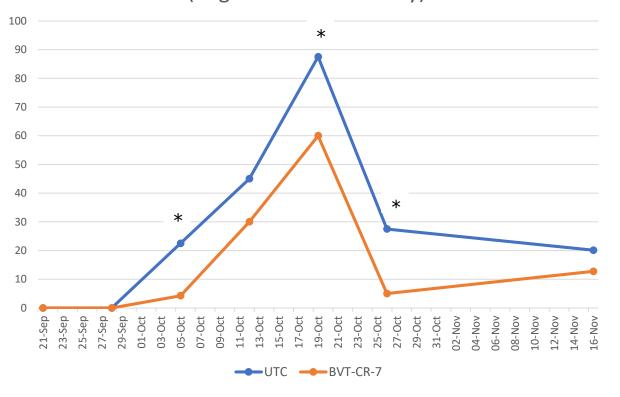




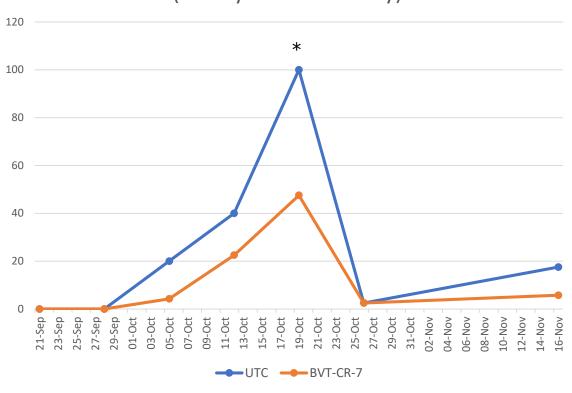


Tomato trial 2018 (Greenhouse – Switzerland) Bumble bee vectoring

% Incidence of Botrytis in new stem wounds (Regular Tomato variety)



% Incidence of Botrytis in new stem wounds (Cherry Tomato variety)



* = significantly different

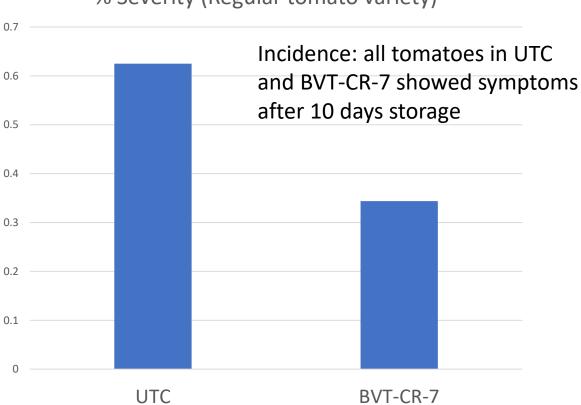




Tomato trial 2018 (Greenhouse – Switzerland) Bumble bee vectoring

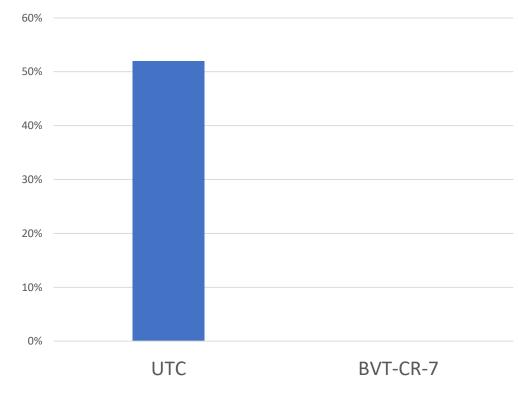
Regular Tomato – Post harvest





Cherry Tomato – Post harvest

% fruit with disease symptoms after 10 days storage at 10-12°C (variety DR564)

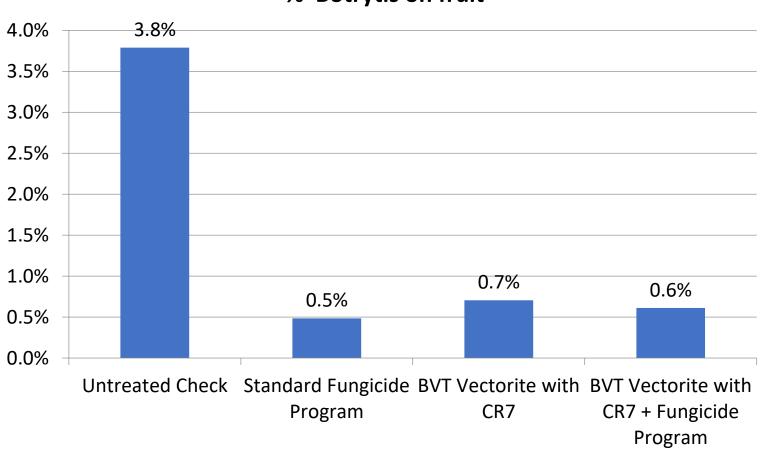






BVT-CR-7 vectored by bumble bees: equivalent control of Botrytis on strawberries





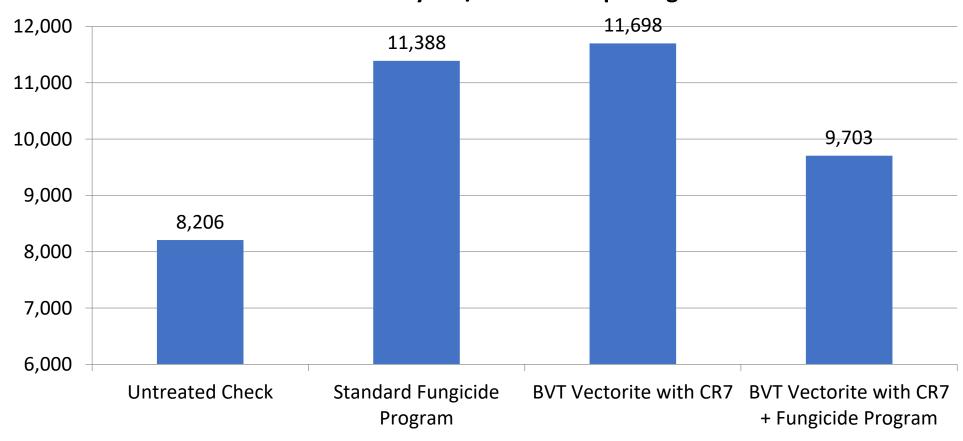
Average visual assessment of Botrytis incidence over 13 harvests





BVT-CR-7 vectored by bees: enhancing yield in strawberries



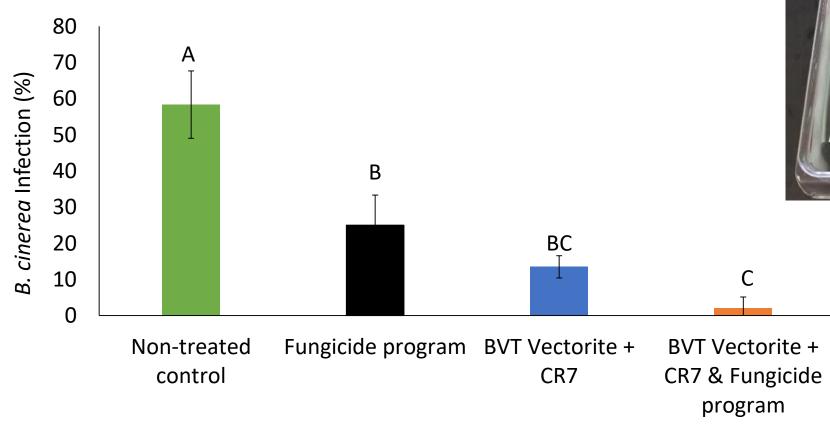






Strawberry- Storage (rating during 4 consecutive days) enhancing shelf life

State University of Florida





Uses of Clonostachys rosea

C.rosea is effective against the following diseases:

- Botrytis Gray Mold
- Sclerotinia- white mold
- Monilinia- brown rot
- Rhizopus- red leak
- Alternaria- early blight
- Phomopsis
- Anthracnose

And more...





- Bee Vectoring Delivery to crops via managed pollinator colonies for targeted control of necrotrophic diseases
 - * Botrytis, Sclerotinia, Monilinia
- Foliar spray Formulations for conventional application methods for broad bio-fungicidal use
 - MRL exempt (residue-free), resistance management, 0-day pre-harvest interval, no re-entry interval
 - Endophyte
- Seed treatment and root disease control Formulation for seed coatings for plant growth promotion and root disease control
 - Endophyte
 - Early emergence; plant vigor

Focus of BVT

Exploited via Third Parties

2 delivery Systems To Meet Unique Grower and Crop Needs

Bumble bees, with current channel of distribution -mostly indoors





Bumblebee hive lid designed to incorporate dispenser tray



Removable tray with VectoriteTM powder and plant treatment agent



Bees walk across the tray, pick up plant treatment, exit hive, and deliver it to the plant

- Larger insects with greater carrying capacity
- Generally better fliers in cold/damp weather
- Existing market structure (commercial bumble bee production)
- Simpler "passive" mechanical system

Honeybees, all outdoors larger crops



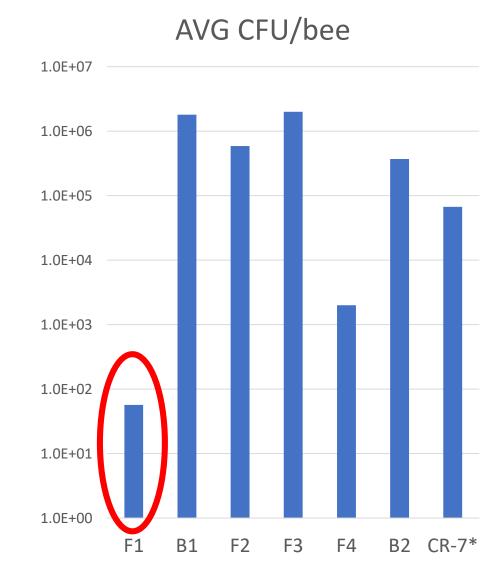


- Much larger hives (20,000 vs 300)
- Greater coverage (acres) per hive
- Electro-mechanical system; could include hive health monitoring
- 4.2 million hives in USA alone



Where from here: extending to biologicals and bioagents for other targets

CR-7 Compatibility		
F = Fungus; B = Bacteria		Compatibility
Product	CR-7 Recoverability (%)	level
Water Control	0	
BVT CR-7 Spray	83	
F1	17	low
B1	33	moderate
F2	50	moderate
F3	100	high
F4a	83	high
F4b	67	high
B2	50	moderate





Ag-Biologicals: A major opportunity to reduce Chemicals

Market Drivers Favor Ag-Biologicals

On Farm





- √ Growers need higher yields
- ✓ New sustainable tools
- ✓ Reductions in chemicals

Beyond Farm





- ✓ Increasing regulatory hurdles (new chemical pesticide can cost \$500million to develop)
- ✓ Consumer demand for "Safe" food with no residues
- √ Food Chain / Retailers need transparency

Benefits of Ag-Biologicals

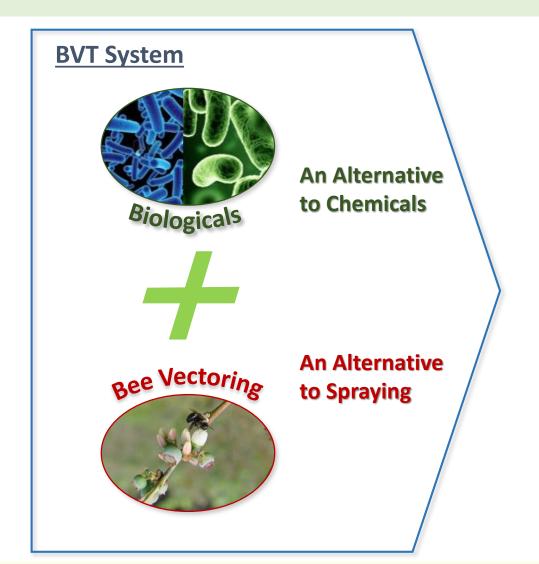


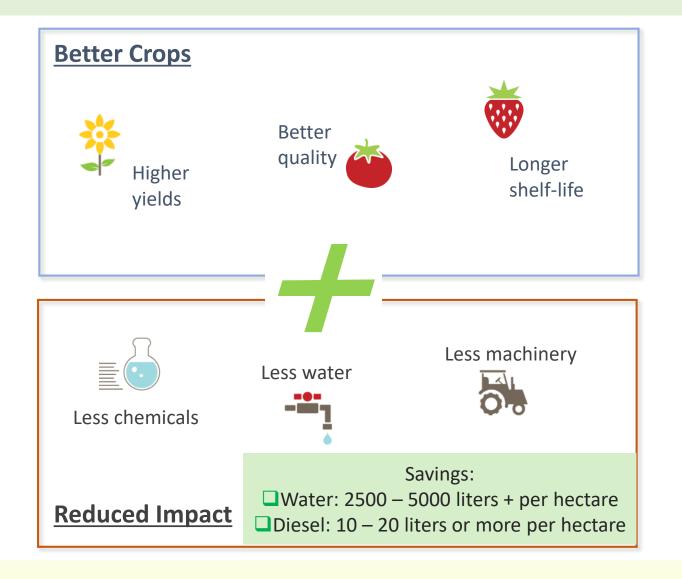


- ✓ No chemical residues
 - Meets global trade needs and secondary standards of retailers
- Enhance yield and quality
 - Improved plant vigor; help manage biotic and abiotic stresses
- ✓ Resistance management
 - New modes of action minimize development of resistance
- ✓ Inherently less toxic than conventional pesticides
 - Short re-entry and post harvest intervals gives flexibility



BVT: A Novel Disruptive Crop Production Tool







Bee Vectoring: A great Alternative to Spraying

Bee Vectoring:

Use of commercial bees to deliver natural control agents to flowering crops to manage key crop diseases and pests and enhance quality and yields of crops

115 crops worldwide; 85 require pollination

Bees contribute to 1/3 of food in human diet

80+ million honey beehives globally; 5 million bumblebee hives grown every year



Rationale for Vectoring:

- Same principles as natural pollination
- The flower is the primary portal of entry for many diseases & insects
- Flowers are the best place for the active ingredient to inoculate the plant

Benefits of Vectoring:

- Substantially minimizes waste of control agent; no water
- Continual delivery throughout the bloom period (spraying can miss blooms)
- Additional yield, residue & quality benefits from improved pollination



Confluence of Pressures to Sustainably Feed the World

Growers are using Ag-Biologicals* at a growing rate at expense of current \$50 Billion pesticide industry



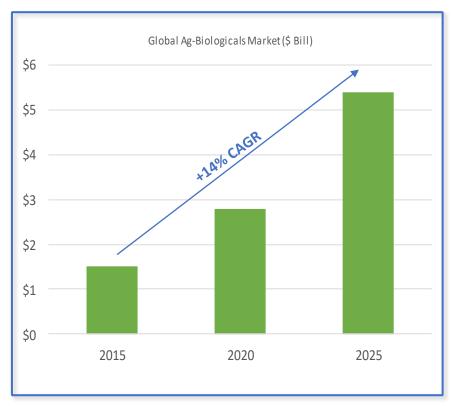
World population ~10bill by 2050

Crop productivity needs to Double

Use of chemicals being limited or banned

Consumers are looking for safe, healthy food with less chemicals

Growth in Use of Ag-Biologicals*



^{*} Products derived from natural sources used to increased crop productivity

Bee Vectoring Technologies

Mission:

To integrate innovative technologies to produce healthy food with environmentally-responsible practices that improve grower profits, benefit human consumption, and safeguard the Earth by protecting crops in the most efficient and targeted way.

Founded in 2012 to pioneer disruptive sustainable crop production tools

- Use commercial bees to deliver plant treatment agents to crops
- System developed and optimized over 20+ years
- 60+ patent applications worldwide (40+ granted, 20+ pending, in 37 key countries) in 5 technology areas

Superior Value Proposition

- Biopesticide controls key diseases, therefore less chemicals, sustainable crops, more profits for farmers
- Field trials and grower demos consistently showing higher yields, beating chemicals
- 100% natural (no synthetic or genetic changes) beneficial system that reduces impact on environment

BVT Today

- In rapid commercialization phase: regulatory process completed; year over year demos & trials with exceptional results completed; customers seeking BVT out
- Building partnerships with global agri-businesses
- Proven exceptional technology production facility can support > \$20+Mill annual sales; easy to expand





Thanks / Contact Details

- ✓ Bumble and honeybees effectively deliver bioagents to the flowers in crops
- ✓ The BVT System is a sustainable and disruptive crop production tool
 - Proven to manage Botrytis and improve shelf life;
 increase yields; enhance crops
 - ✓ Highly suitable for IPM
- ✓ Proprietary system simple and effective
 - ✓ Platform that is scalable

Contact Info

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