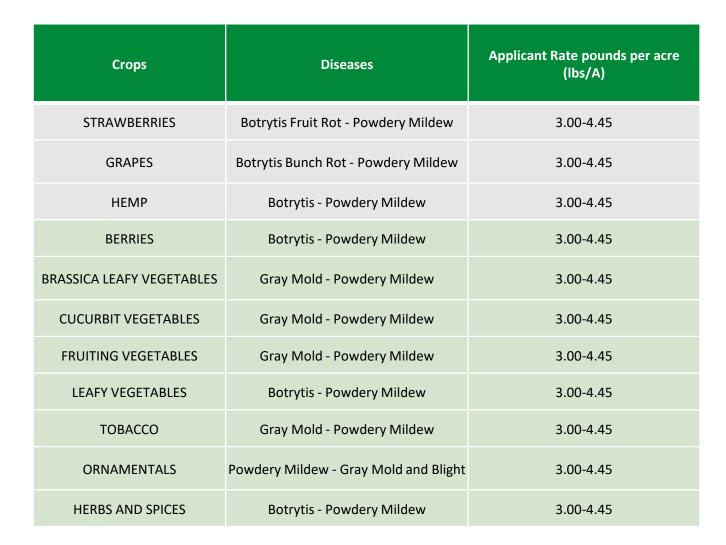


#### **EVOCA™** uses

#### (US label pending EPA approval)





Crops in green shaded boxes will not be registered for immediate use in California.



# **EVOCA™ Product Positioning**



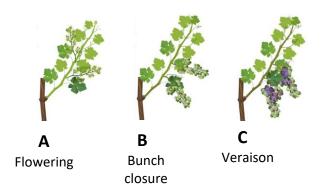
- Preventative contact biofungicide.
- On grapes, apply up to 2 (labelled for 5) times a season at 3.0 lbs/A during flowering as the foundation of an IPM program for Botrytis control to lend performance comparable to or better than conventional standards.
- On strawberries, EVOCA™ reduces Powdery mildew at low to moderate disease pressure, comparable to biological standards. Apply preventatively when conditions are suitable for infection, well before mycelia are visible to the naked eye. Applied up to 5 times a season at 3.0-4.45 lbs/A on strawberries and position EVOCA™ in an IPM program.
- To avoid resistance development Apply only a maximum of 2 consecutive EVOCA™ applications followed by at least two consecutive applications with specific labelled fungicides with different mode of actions in the spray schedule.
- Suitable for certification programs or "agrotourism".



## **EVOCA™** shows a high and consistent efficacy

## Pevoca

#### on Botrytis grapevine

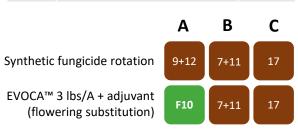


# **2021**8 trials Meta-analysis *p*-value: 0.0019

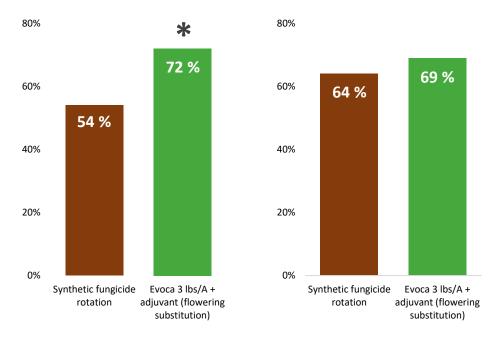
**2022**18 trials

#### **Protocol and FRAC Codes**

Timing	Active Ingredient(s)	FRAC
Α	cyprodinil + fludioxonil	9+12
В	boscalid + pyraclostrobin	7+11
С	fenhexamid	17



Botrytis application timings in grapevine: (A) flowering, (B) bunch closure, (C) veraison. A few trials included an optional (D) pre-harvest spray with cyprodinil + difenoconazole (3+9). Boxes show FRAC codes of the reference synthetic fungicides used in all trials. FRAC codes were rotated per best practices for resistance management. The synthetic references used are all rated 5/5 (excellent and consistent) by UC Davis for control of Botrytis in grapevine.



Percent control of harvest bunch severity, relative to untreated controls. Asterisk (\*) indicates a statistically significant difference between treatment programs. Trials conducted in California, New York and Oregon across diverse climates. Vineyards represent a range of value, premium, and ultra premium grapes. All trials were randomized complete block design small plot trials, with 6 replicates each.



#### **Key Finding**

**EVOCA™** provides excellent preventative control of Botrytis bunch rot in grapevines

Applying **EVOCA™** at flowering offers growers a clean start as the foundation of an IPM program

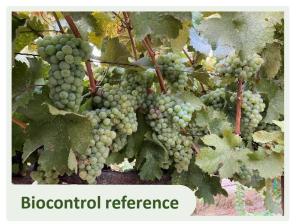
# Efficacy of EVOCA™ on grapes in

## Pevoca

#### Independent field trials by US public institutes

#### Continued demonstration of performance and consistency in independent IPM programs









#### **Grape – Botrytis bunch rot**

**UC Davis Cooperative Extension** 

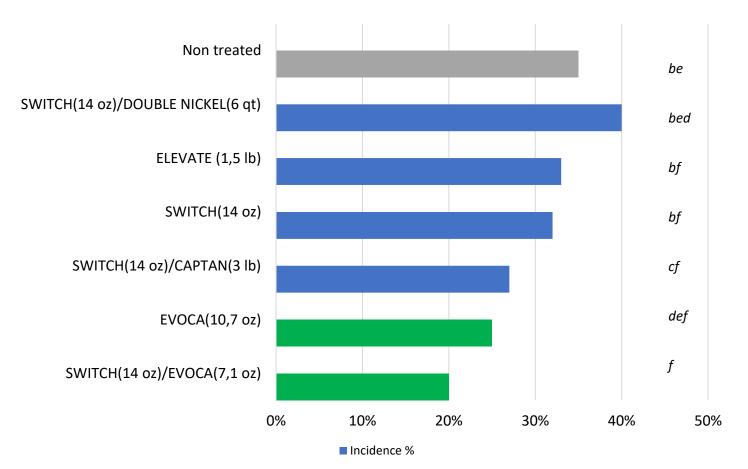
Dr. Akif Eskalen



#### Efficacy of EVOCA™ on

#### **Botrytis Gray Mold strawberry**

#### Peak season 2020, Post Harvest evaluation 6 DAH







Report summary:

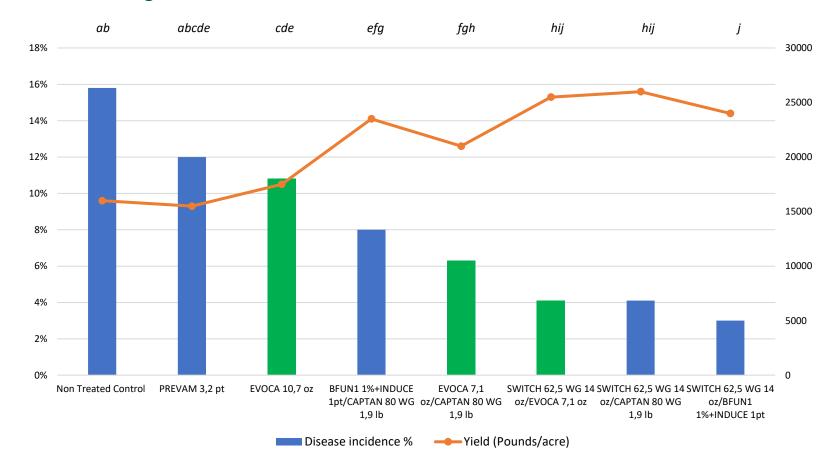
"The only treatment with significantly less Botrytis fruit rot than the non-treated was Switch rotated with EVOCA™ at 6 days after harvest"

- Cal Poly.

#### Efficacy of EVOCA™ on

#### **Botrytis fruit rot strawberry**

## Strawberry Botrytis incidence % on fruits and marketable fruit yield – Season Average





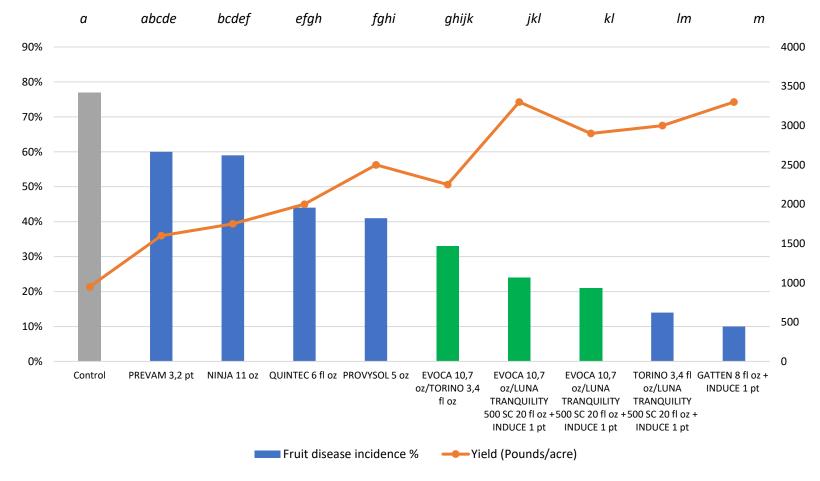


Rotations of EVOCA<sup>™</sup> with the synthetic fungicides provided disease incidence levels close to chemical only rotations, and improved yields over the untreated controls.

#### Efficacy of EVOCA™ on

### **Powdery mildew strawberry**

## Strawberry Powdery mildew incidence % on fruits and marketable fruit yield – Season Average







Rotations of EVOCA<sup>™</sup> with the synthetic fungicides provided disease incidence levels close to chemical only rotations, and improved yields over the untreated controls.

Source : Var Florida 127 - 2020/2021 UF Trial 10



#### Evoca™: a novel tool for biocontrol

**Effective rotation product** as demonstrated in global field trial program<sup>1</sup>

**New mode-of-action** for resistance management: replacement of conventional chemicals in IPM

Convenience, storability and reliability of traditional chemicals (formulated as water soluble granules)

**Regulatory review ongoing** in the USA and EU



**Contact activity for preventive control** of *Botrytis cinerea* and powdery mildew

**Supports residue reduction** in rotation programs<sup>1</sup>

**Designed to be safe** for workers, consumers & the environment

Introduction crops: Vines and high-value fruit & vegetables

#### EVOCA™ brings a

# higher return of investment for growers

	Full Chemical IPM	Evoca™ IPM	Organic*
Efficacy and yield increase		<b>\times</b>	
Quality and food safety		3	
Resistance management	9	3	
Tox and ecotox profile		FRAC "We will reserve the second of the seco	*Evoca™ is not yet registered for organic uses.
Yield (Trays/ha)	17,000	17,000	10,500
Wholesale reward/Tray	10 \$	11 \$	15 \$
Growers sales	170,000 \$	187,000 \$	157,500 \$







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