



North American  
Raspberry & Blackberry  
Association

**BRANDT**<sup>®</sup>

# Introducing BRANDT GlucoPro<sup>®</sup>

*A New Class of PGR*



@ BRANDT\_CO

@ INFO\_TO\_GROW

# BRANDT® GlucoPro®, The Revolutionary Plant Growth Regulator

## *The First Biochemical of Its Kind in Agriculture*

- Breakthrough science of absolute certainty
  - Biochemically unlocks and releases sugar internally – within plant cells
  - High order science accurately informs the active ingredient and how it works
  - Proprietary and exclusive to BRANDT, LLC
    - Patented technology
- for U.S. Patents, see [ihllcpatents.com](http://ihllcpatents.com)*



#### ACTIVE INGREDIENT:

Methyl-alpha-D-mannopyranoside (CAS# 617-04-9), 12.15%

OTHER INGREDIENTS: ..... 87.85%

TOTAL: ..... 100.00%

Contains 1.09 lbs. of alpha methylmannoside per gallon.

EPA Reg. No. 48813-3

EPA Est. No. 48813-IL-1

## PGR Benefits Are All About the Grower

### ▪ Quality

- ❖ **Premium** Marketable Yield
- ❖ Tolerance to environmental stress
- ❖ Increased harvestable weight
- ❖ Color of fruit

### Brix

Fruit firmness & size

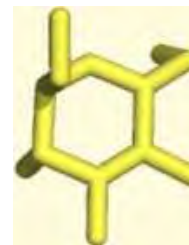
Deep root mass

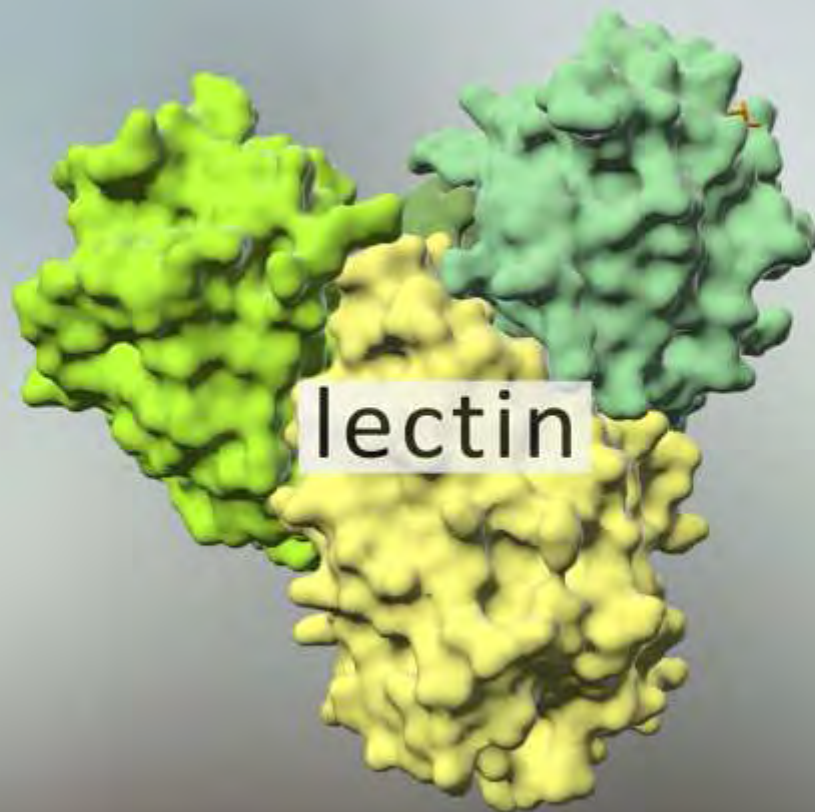
Enhanced fruit flavor

Lengthened shelf life

# Control Crop Development with BRANDT GlucoPro®

- The next slide shows how the  
Active Ingredient works:  $\alpha$ MeM





**BRANDT.**  
*iHammer*

# **<sup>14</sup>C-AI + Wetter Spreader**

Foliar **Active Ingredient** is inside cells within 15 minutes.

Enhanced sugar content within the plant cell contributes to luscious firm fruit shelf life.

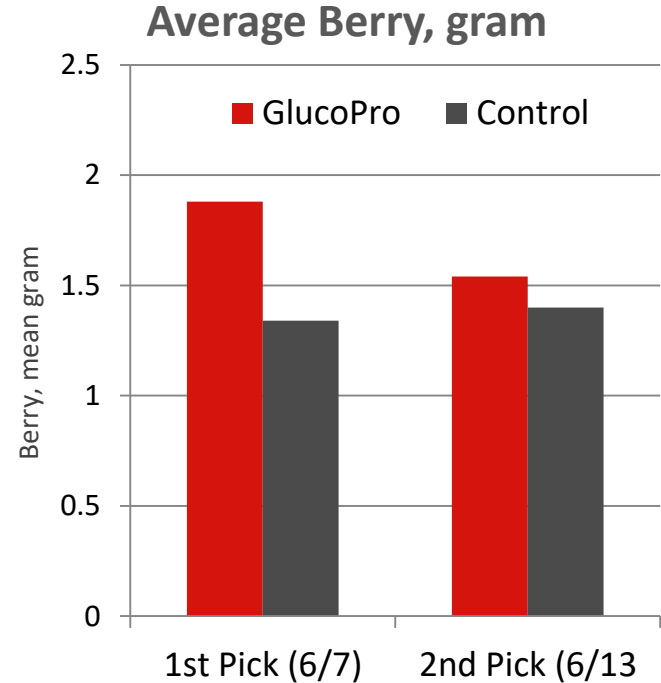


# BRANDT GlucoPro® – Blueberries

## American Blueberry, Rocky Point, NC

6 fl oz/acre; 2 to 4 treatments; @2-3 weeks

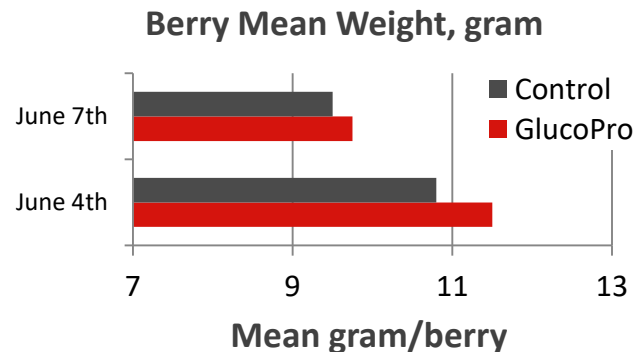
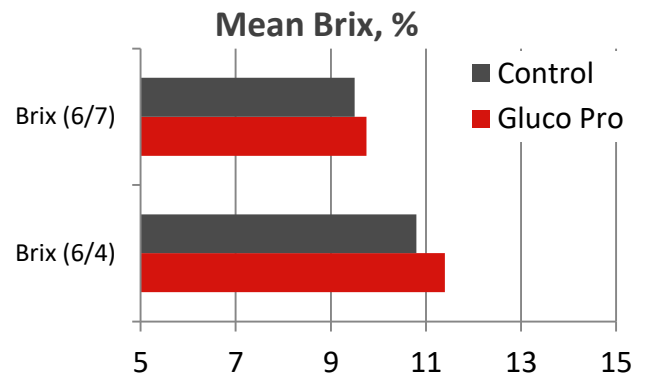
**25 to 50% INCREASE In SHELF LIFE!!**



# BRANDT GlucoPro® – Blackberries

6 fl oz/acre; 2 to 4 treatments; @2-4 weeks

**25 to 50% INCREASE In SHELF LIFE!!**





## Confirmed Efficacy

Blueberry

10 to 34%

Yield increase

Cherry

10 to 15 %

Yield Increase

Peppers

10 to 15%

Yield Increase

Watermelons

10 to 16%

Yield Increase

Romaine Lettuce

10 to 24%

Yield Increase

Tomatoes

10 to 23%

Yield Increase

## BRANDT GlucoPro®: Unlock Glucose, Boost Plant Energy and Productivity

- We know *precisely* the active ingredient and its mode of action
- US EPA-registered PGR

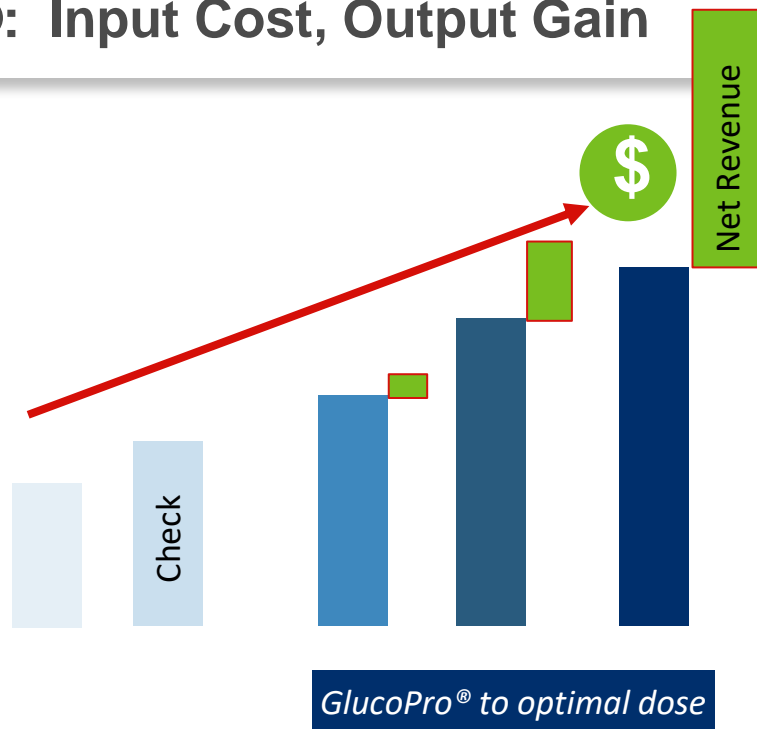
**“We have a powerful new tool of photosynthetic biochemistry to transfer to growers”**

Govindjee *et al.* 2019 *Photosynthesis Research*

**BRANDT**®

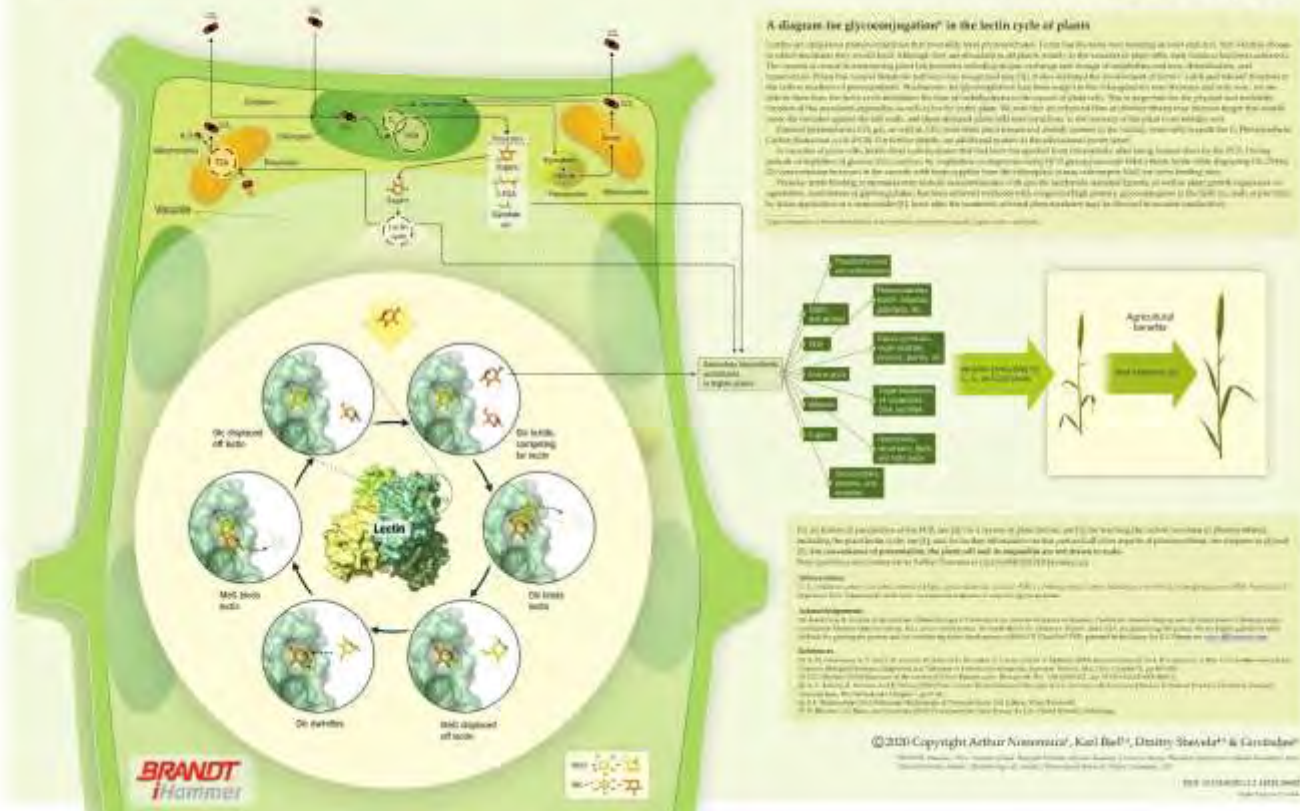


## BRANDT GlucoPro®: Input Cost, Output Gain



[illegible]

BRANDT Gregory Jackson  
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## **Arthur Nonomura, Ph. D.**

- **Farmer, Valley of the Sun, Arizona**
- Calvin Lab, UC Berkeley
- Organismic & Evolutionary Biology, Harvard
- Research Faculty, UC San Diego





Founded on Great Science

## Melvin Calvin

1961 Nobel Prize

Andrew A. Benson

James A. Bassham

Elucidated the Path of Carbon in Photosynthesis.  
From 1980 through 2014 collaborated with Arthur  
Nonomura to further unlock the mysterious  
processes of the Carbon Reactions of Photosynthesis  
and Modulation of Glycoregulation

**BRANDT**<sub>®</sub>



Govindjee, Nonomura, Lichtenthaler (2019)

Photosynthesis Research

# Cherry trees **20% higher blossom counts**





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**Thank You**



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