

Pure Future

Securing Tomorrow's Harvest, Today



Agenda

- ▶ Introductions
- ▶ Who is Pure Future Ventures and the **Pure CV** brand
- ▶ How we grow our Algae
- ▶ What is the product
- ▶ Benefits of the product
- ▶ Success stories
- ▶ A little science
- ▶ Help selling





Who is Pure Future Ventures and their development of the Pure-CV bio-stimulant

- ▶ Our Story - 7 years in the making
- ▶ ASU partnership
- ▶ Field testing
- ▶ Developing a customer first product
- ▶ Construction of our own facility
- ▶ Powered by Pure CV strategy/Intel inside
- ▶ Launch to market March 2024
- ▶ Adding Capacity April 2025
- ▶ We are here to support you



Pure Future's Pure CV-Grow is grown in a controlled environment.

- ▶ Pure Future CV-Grow are grown in state-of-the-art controlled photo bio reactors.
- ▶ Temperatures are regulated ± 0.5 C
- ▶ PAR LED lighting is controlled and optimized to the grow cycle
- ▶ PBR is operated as a closed growth system with filtered media, gases and water
- ▶ We consume 2g of CO₂ for every 1g of microalgae produced
- ▶ Less than 500 CFU bacteria count
- ▶ No measurable fungal presence
- ▶ No measurable viral presence

Research proves that Bio-stimulants are effective in enhancing crop yields!



►Microalgae are attracting the interest of agrochemical industries and farmers, due to their bio stimulant and biofertilizer properties. Microalgal bio stimulants (MBS) and biofertilizers (MBF) might be used in crop production to increase agricultural sustainability. Bio stimulants are products derived from organic material that, applied in small quantities, can stimulate the growth and development of several crops under both optimal and stressful conditions. Biofertilizers are products containing living microorganisms or natural substances that can improve chemical and biological soil properties, stimulating plant growth, and restoring soil fertility. This review is aimed at reporting developments in the processing of MBS and MBF, summarizing the biologically-active compounds, and examining the researches supporting the use of MBS and MBF for managing productivity and abiotic stresses in crop productions. Microalgae are used in agriculture in different applications, such as amendment, foliar application, and seed priming. MBS and MBF might be applied as an alternative technique, or used in conjunction with synthetic fertilizers, crop protection products and plant growth regulators, generating multiple benefits, such as enhanced rooting, higher crop yields and quality and tolerance to drought and salt. Worldwide, MBS and MBF remain largely unexploited, such that this study highlights some of the current researches and future development priorities

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Why use Pure CV-Grow/The benefits

- ▶ Faster root development/better germination rates
- ▶ Increase in yields
- ▶ Better water retention
- ▶ Higher stress tolerance
- ▶ Potential for increased shelf life
- ▶ It's all natural

It's all about the roots!!

CV-Grow shortens germination time

Significant time savings and stronger healthier plants

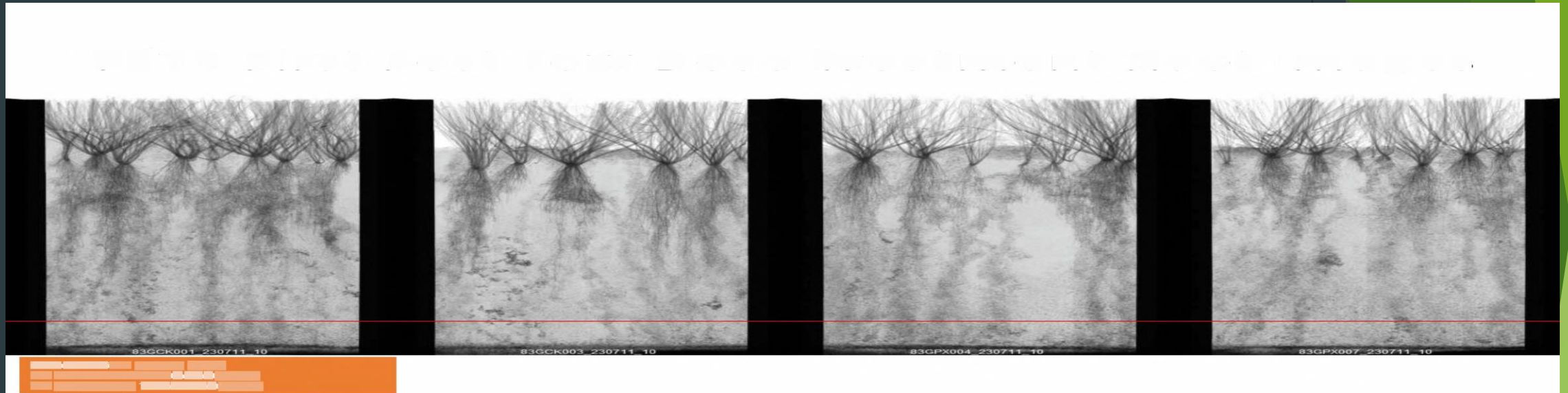
CV-Grow



Control

Most recent Feb 2024 CK lettuce trials were 291%
with Pure Future CV Grow at 7ml per gallon

CV-Grow bio stimulant provides enhanced root growth



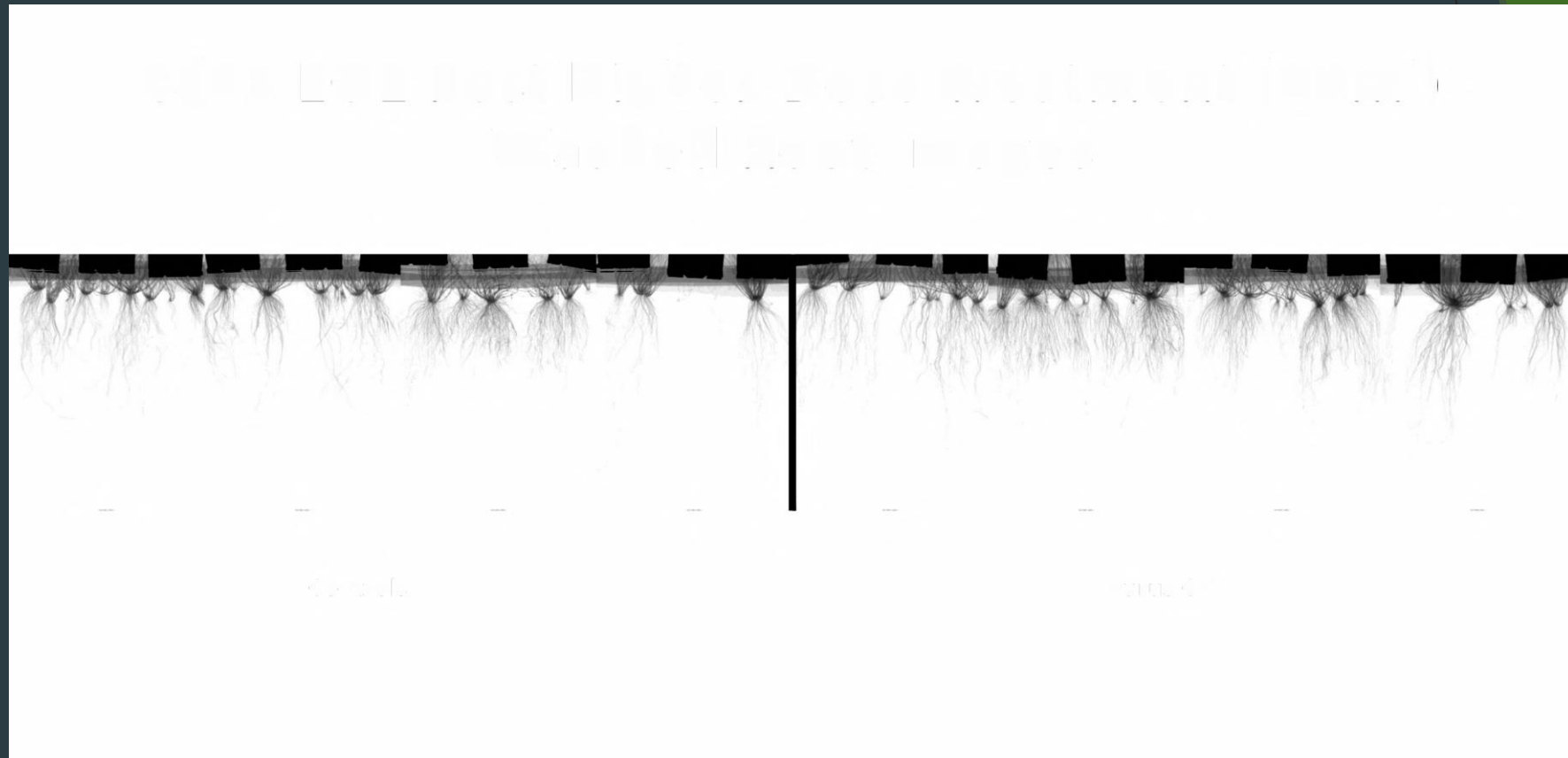
Pure CV-Grow

Control

Earlier tap root development and faster root propagation are typical and indicative of the bio-stimulant function.

Pure Future's Pure CV bio-stimulants offer proven performance

Washed Root Images



Control

Pure CV

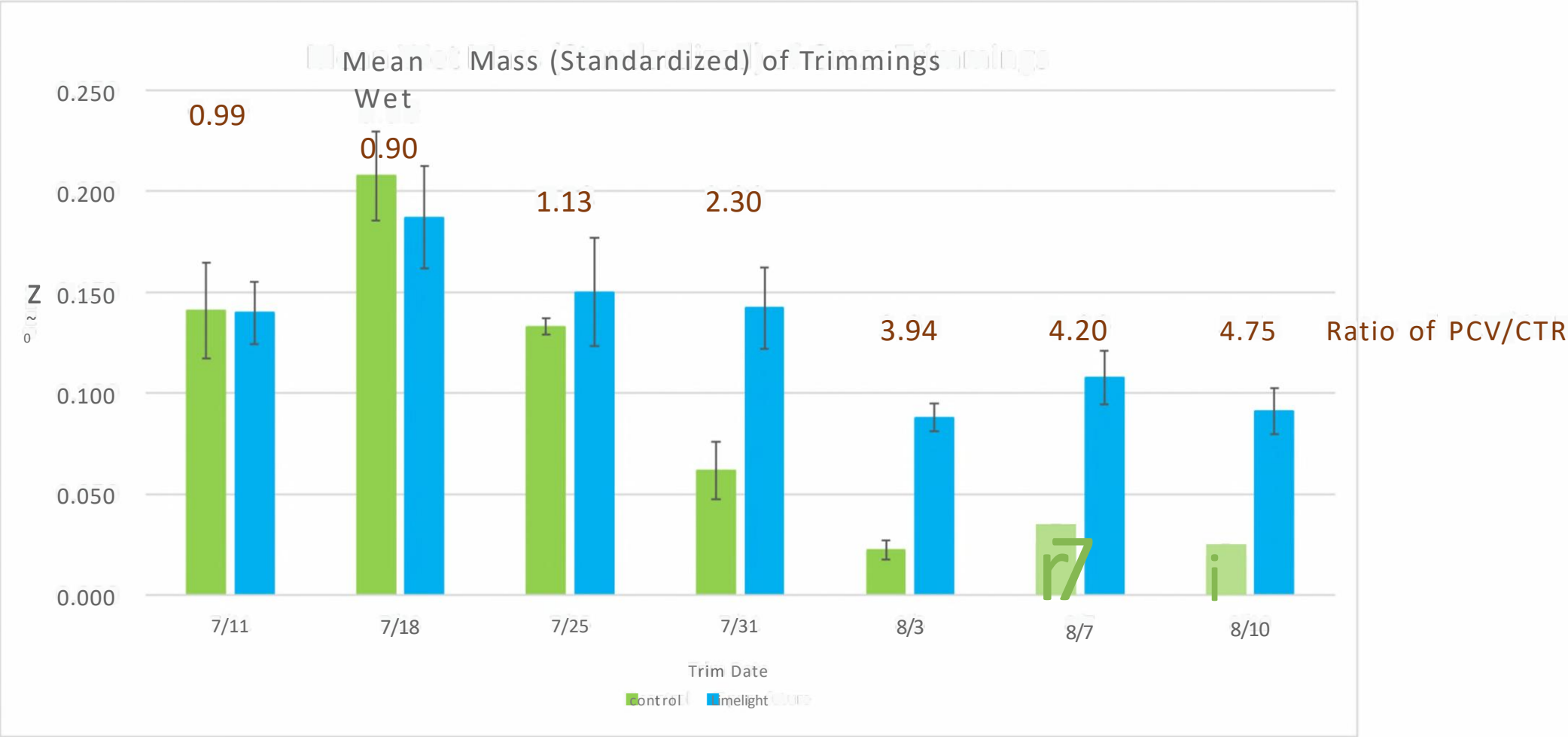
PGA Championship golf course root wash

Control



Pure CV

Pure CV algae-based bio stimulant enhanced growth against controls by nearly 400% over 30 days



Treatment Start Dates:
Low Dose; 6/20, High Dose; 7/28



Pure
Futures
Treated

Untreated

Florida trial
success



CV-Grow results in trials 02/2024

Increases Lettuce productivity 21-day studies

- ▶ Our most recent independent study conducted by a major agricultural distributor found a 2.34x increase in yield (Fresh Weight) and an increase of 1.12x in root size (root weight)
- ▶ Control Group Average Fresh weight- 22.14 grams
- ▶ Control Group Average Root weight - 29.28 grams
- ▶ Test Group Average Fresh weight- 51.98 grams
- ▶ Test group Average Root weight- 32.98
- ▶ Test group lettuce was healthier and had better color than the control group.

Most recent Feb 2024 CK lettuce trials were 291% with Pure Future CV Grow at 7ml per gallon

Cannabis results

- ▶ Consistently reduced cloning time by 20%
- ▶ Increased germination rates
- ▶ Increased yields average of 13%
- ▶ Reduction in mold, mildew and bug infestation
- ▶ ROI analysis shows 138% return
 - ▶ \$3.15 net profit per sq'
 - ▶ Total ROI on a yearly run of over \$700K

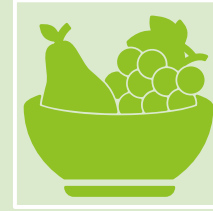
CV Grow improves the shelf life of treated crops



IN STUDIES, OUR BIO-STIMULANT WHEN USED WITH TOMATO'S INCREASED THE SHELF LIFE OF THE TOMATO WITH NO NEED FOR GAMMA IRRADIATION.



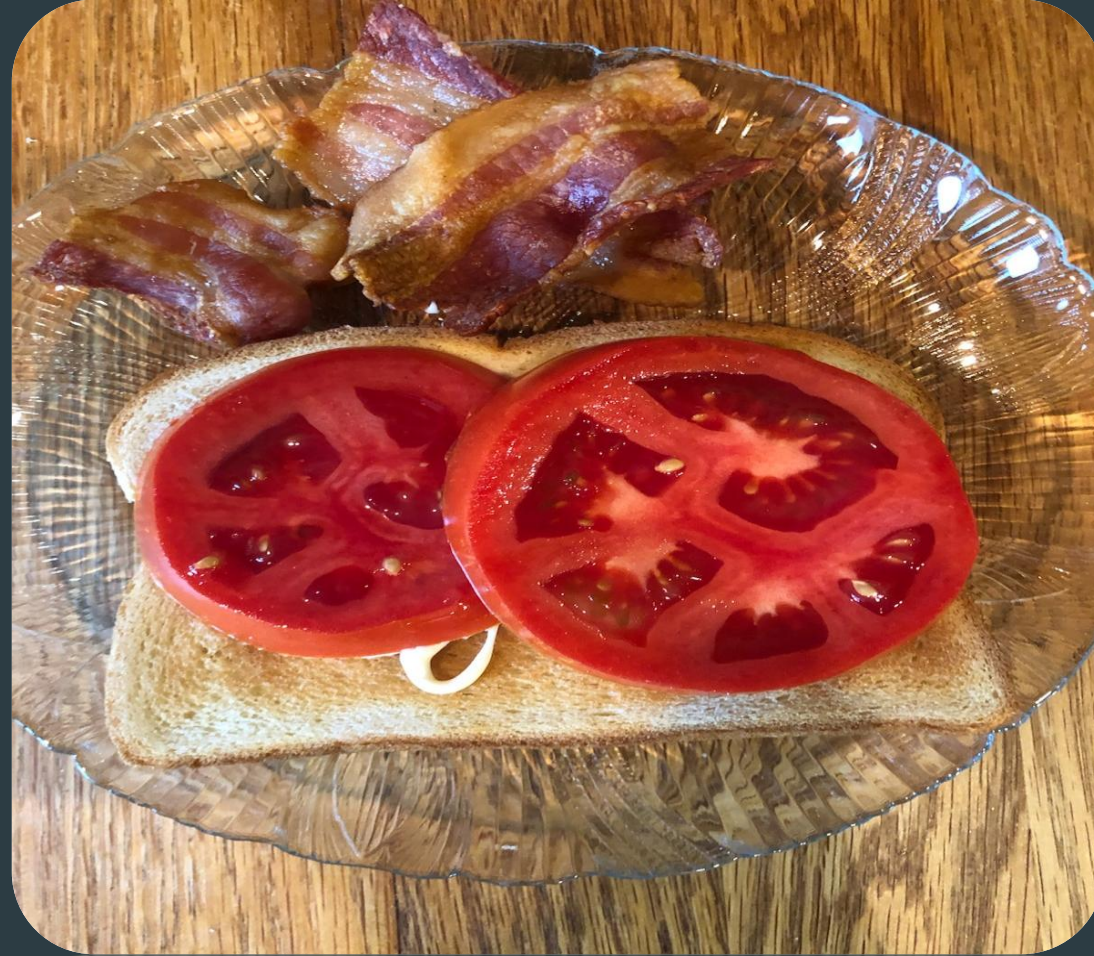
THE SHELF LIFE IMPROVED FROM 2 WEEKS ON THE CONTROL TO 2 MONTHS ON THE TOMATO GROWN WITH OUR PRODUCT.



THIS WAS A SIGNIFICANT BENEFIT FOR THE GROWER, THE GROCERY CHAIN AND THE CUSTOMER.

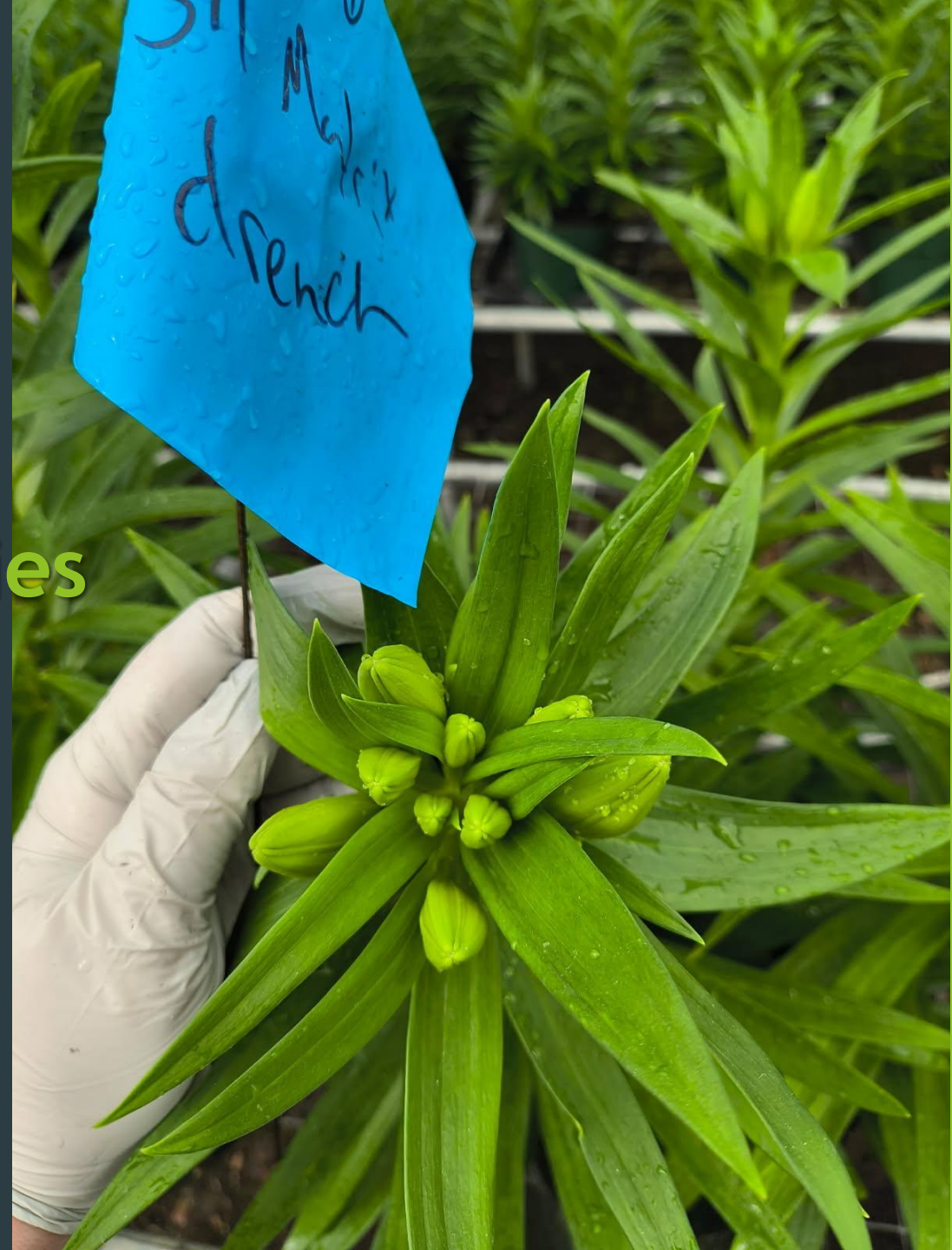
Growers report that the taste and color were greatly improved

Extended shelf-life studies





Yield studies



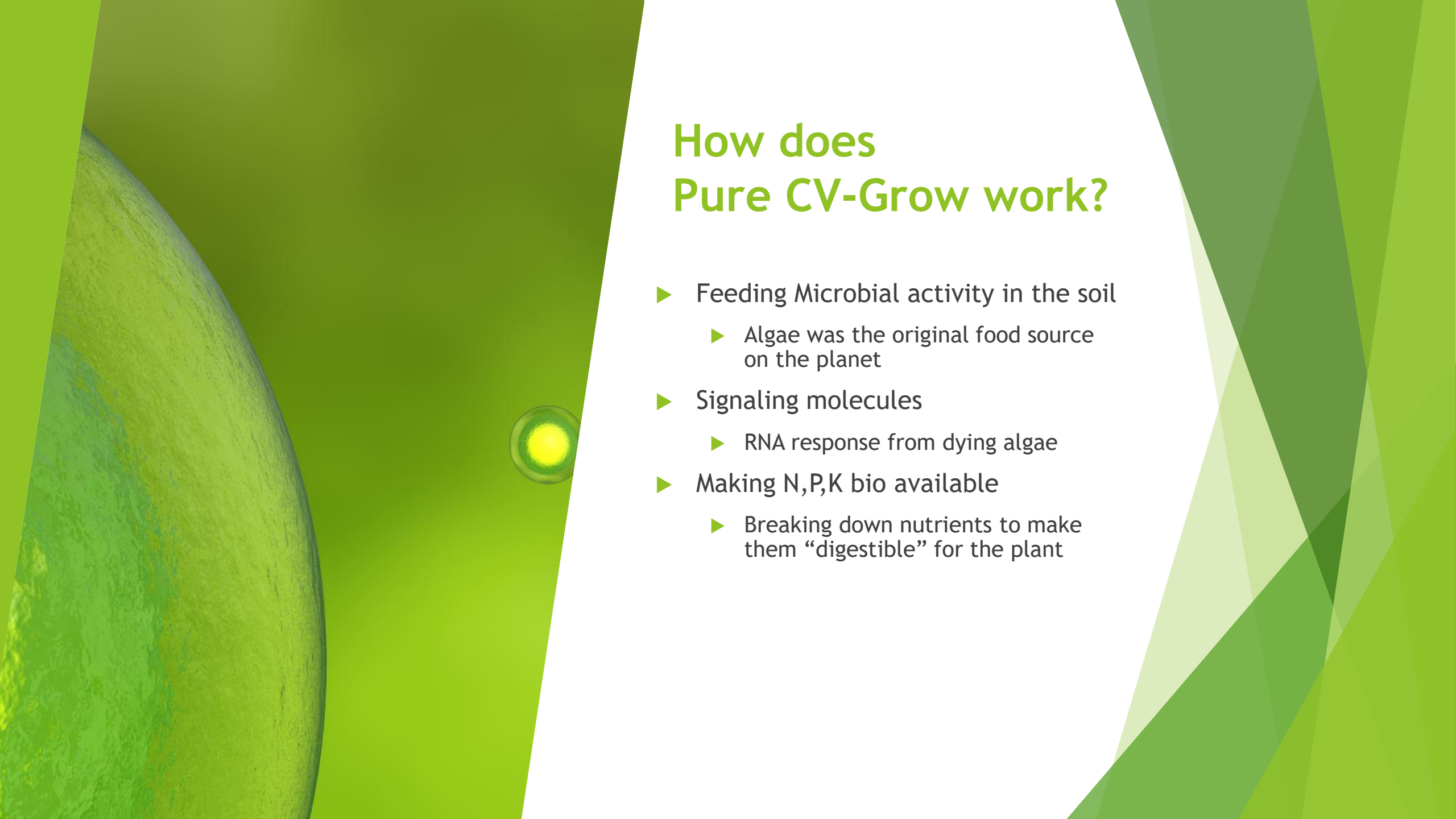
Pure CV-Grow Applications

Indoor, Outdoor, Field, Hydroponic or Greenhouses



- Vegetables
- Cover Crops
- Herbs
- Micro and Leafy greens
- Cannabis
- Other specialty crops

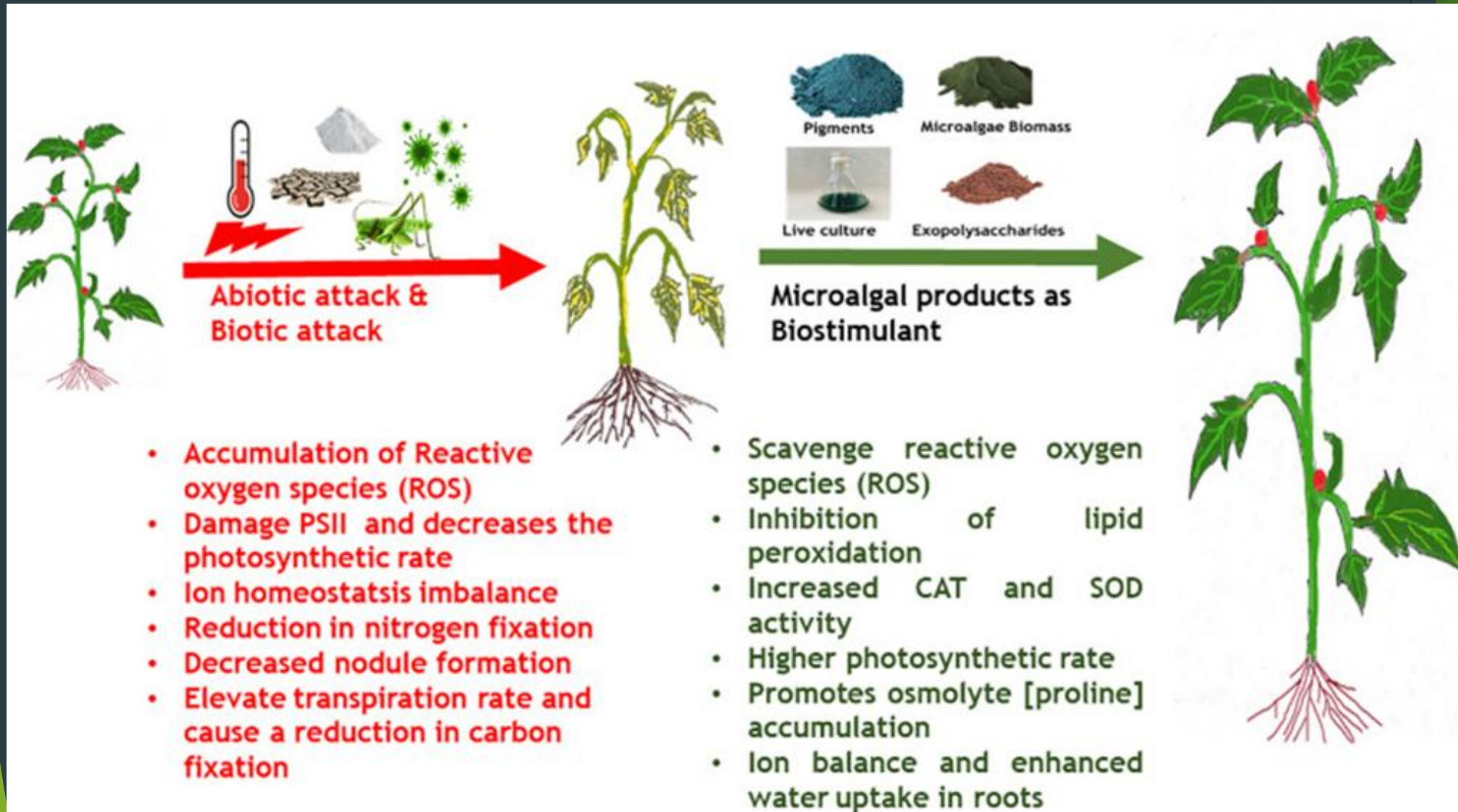




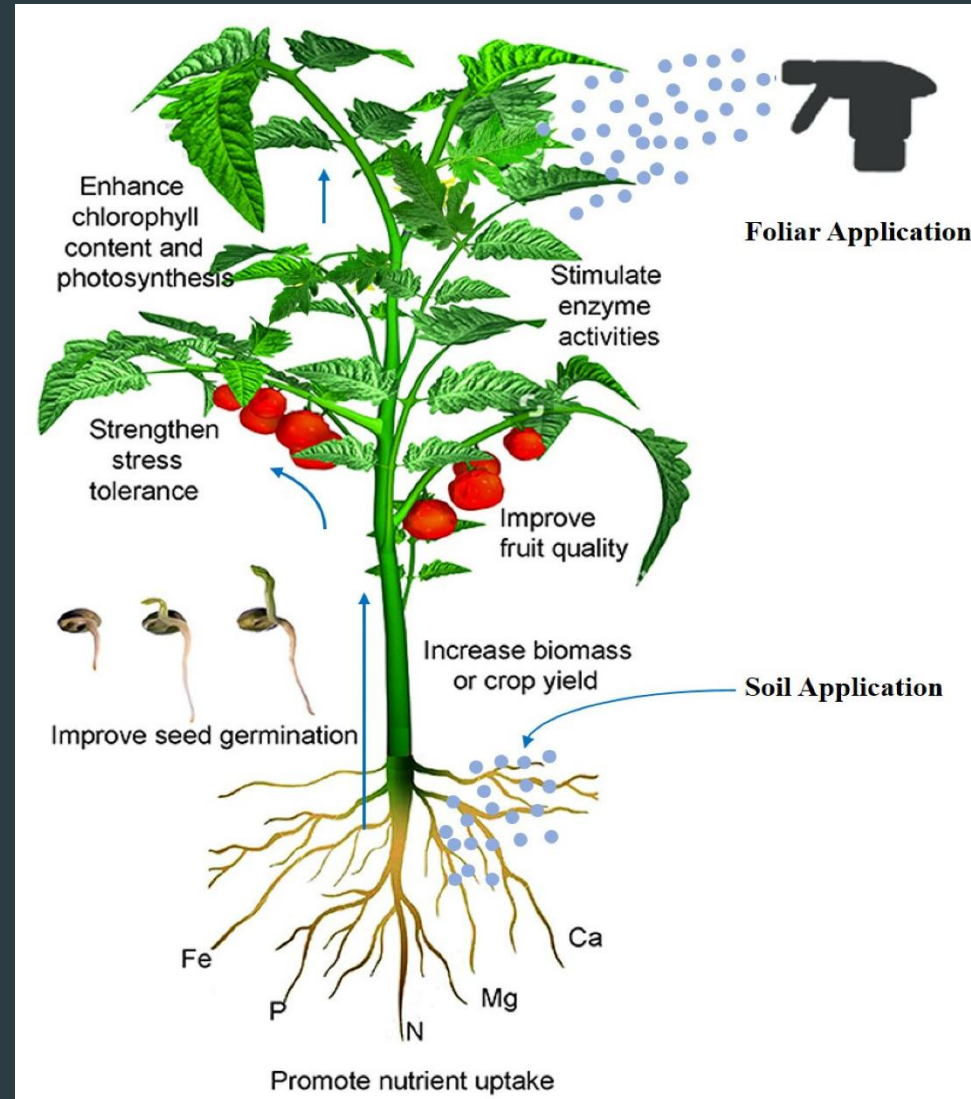
How does Pure CV-Grow work?

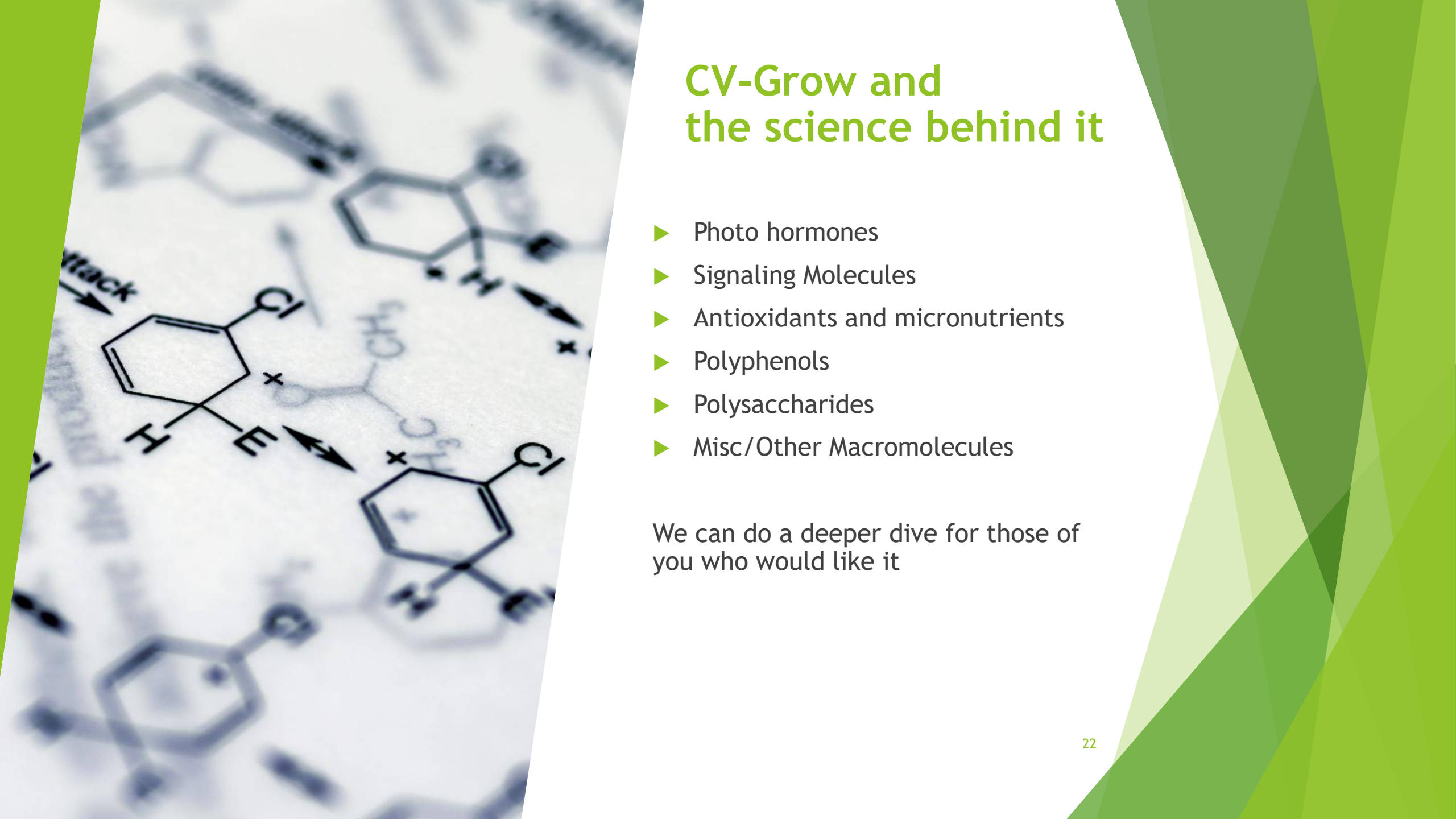
- ▶ Feeding Microbial activity in the soil
 - ▶ Algae was the original food source on the planet
- ▶ Signaling molecules
 - ▶ RNA response from dying algae
- ▶ Making N,P,K bio available
 - ▶ Breaking down nutrients to make them “digestible” for the plant

Application methods for CV-Grow and benefits



Foliar application benefits

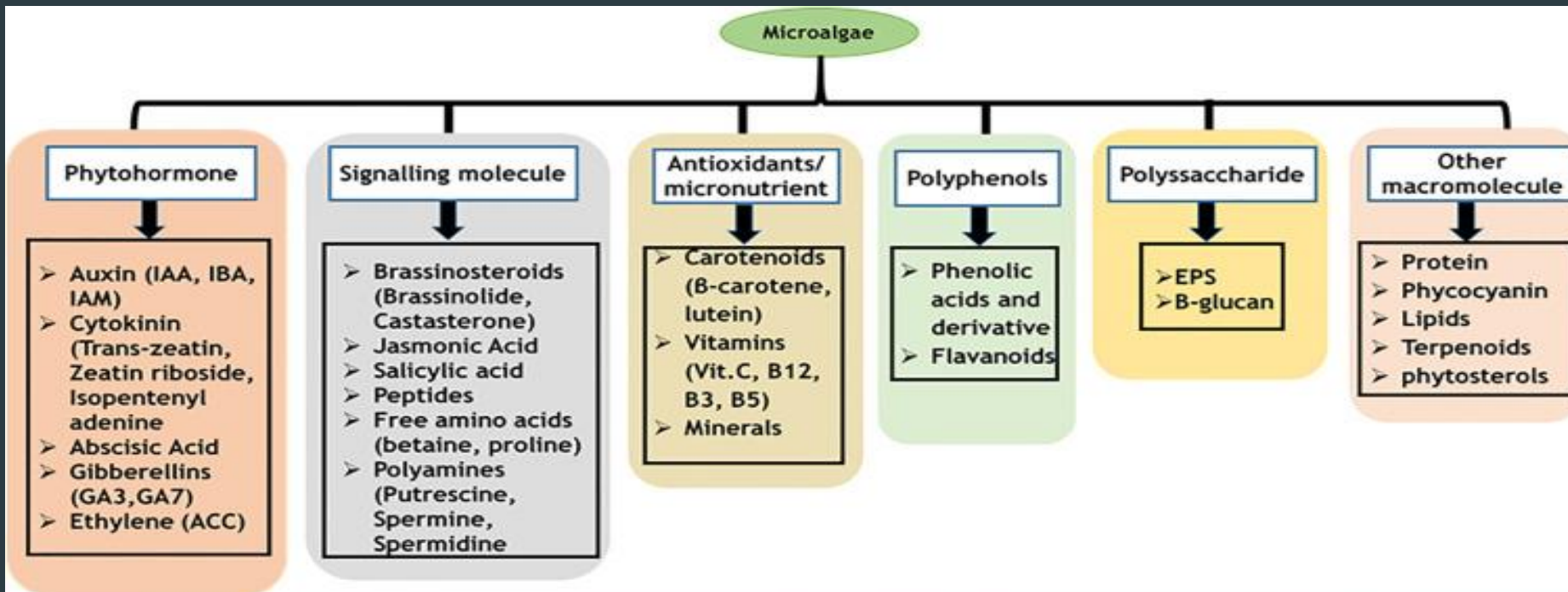




CV-Grow and the science behind it

- ▶ Photo hormones
- ▶ Signaling Molecules
- ▶ Antioxidants and micronutrients
- ▶ Polyphenols
- ▶ Polysaccharides
- ▶ Misc/Other Macromolecules

We can do a deeper dive for those of you who would like it



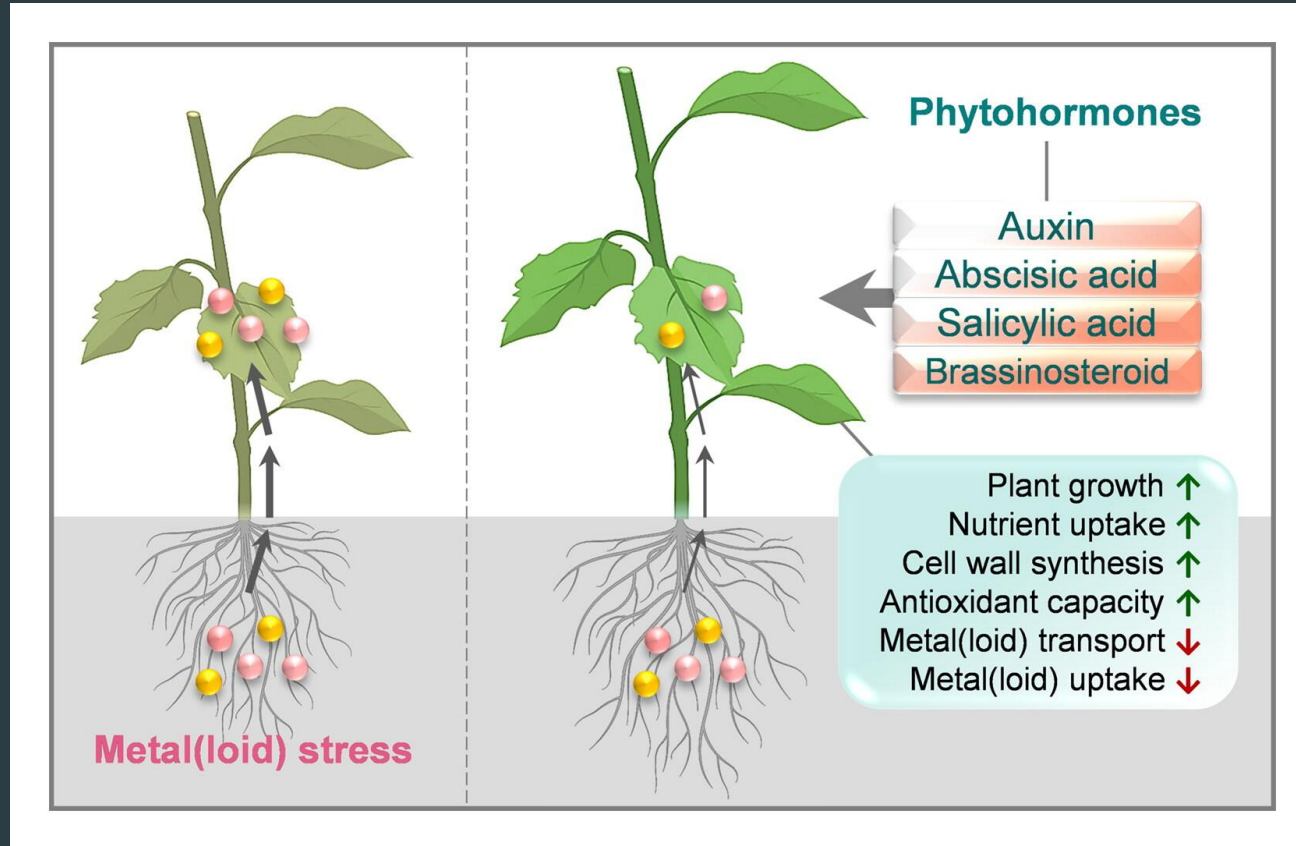
Major biostimulatory functions of microalgae derived metabolites and nutrients

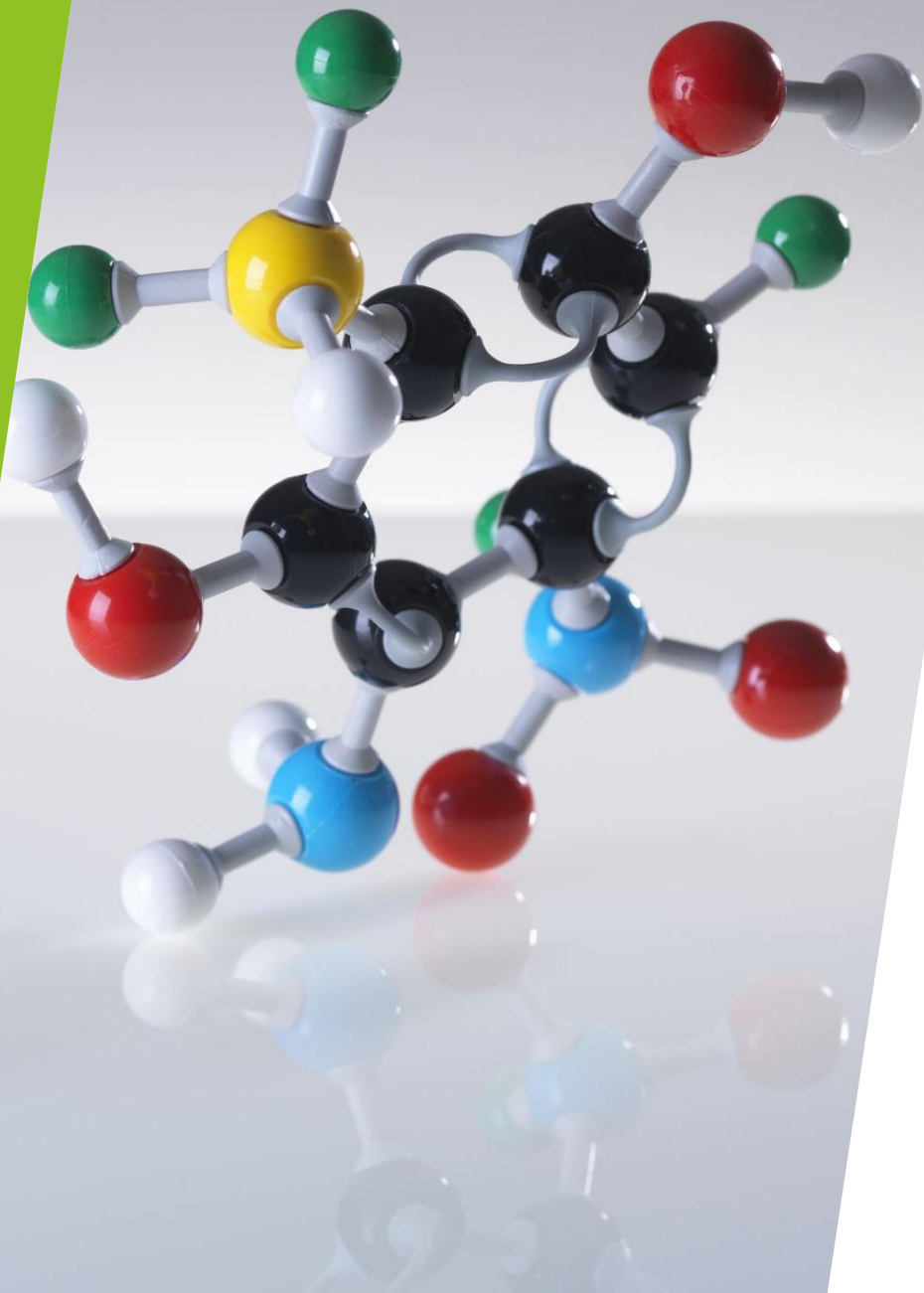
- Growth enhancement - root, shoot elongation, tissue weight
- Protection of photosystem II (PS II) and light harvesting complex (LHC)
- Nutrient mobilization and enhancement of nutrient uptake in roots
- Tolerance to abiotic stress such as salinity, drought, temperature and high CO₂
- Scavenging ROS and inhibiting lipid peroxidation induced due to abiotic stress
- Activation of enzymatic antioxidant defense systems [SOD, CAT, APX, GR, GPX]
- Enhancement of plant secondary metabolites [phenolics & flavonoids] as part of non-enzymatic antioxidant defense systems
- Ion homeostasis under salinity stress
- Stomatal closure and aperture size control under drought stress
- *de novo* lipid biosynthesis and fatty acid conversion to alkanes for cuticular wax formation under biotic and abiotic stress

Pure CV
Bio-stimulant

Phyto Hormones

The chemical regulators of plant growth





Signaling Molecules - Why a live bio stimulant is the key to success.

- ▶ As the live bio stimulant degrades it releases signaling molecules which are received by the plant.
- ▶ These trigger the plant to prepare itself against a perceived threat.
- ▶ This results in the plant being resistant to threats and in a healthier state.
- ▶ This affects root development, membrane density and thickness and drought tolerance

Common delivery and dosing rates

- ▶ Dosing will vary depending on crop, growth system and conditions
- ▶ Will work in any irrigation system, drip tape or sprayer
 - ▶ No clogging, over 300M cells per ML - its tiny!
 - ▶ Foliar applications are acceptable as well
- ▶ Outdoor Crops
 - ▶ 1 gallon cover 10 acres
 - ▶ Optimal cadence is every 2 weeks
 - ▶ Monthly applications are also impactful
- ▶ Controlled Environment agriculture (Greenhouse)
 - ▶ Soil (Standard no clay or sandy soil)
 - ▶ 10ml per gallon into irrigation system
 - ▶ Peat / Cocoa / Rockwool
 - ▶ 12ml per gallon into irrigation system



Common Hydroponic Dosing Rates

► Hydroponic (Pure CV-Hydro)

► NFT

► 12-14 ml per gallon into tank

► Shallow Well

► 12-14 ml per gallon into system

► Deep Well

► 12-14ml per gallon into system

► Pond (w floating trays)

► Consult with our representatives as each is typically unique

► Vertical

► 9-15 ml per gallon for continuous recycle

► 15-18mnl per gallon for ebb and flow cycle



Common questions with adding in an all-natural bio-stimulant

- ▶ I don't have traditional irrigation and can't go over my crops often
 - ▶ We can adjust by increasing the dosage and timing of the delivery
 - ▶ Row crops, in furrow and 2/3 through the grow
 - ▶ Get it down when you can
- ▶ Tank mixing
 - ▶ This is a live product so anything designed to kill it will
 - ▶ Watch out for high copper content



CV-Grow standard sizes

(Pricing based on product and volume)

► Commercial Grower

275 Gallon Tote

55 Gallon Drum

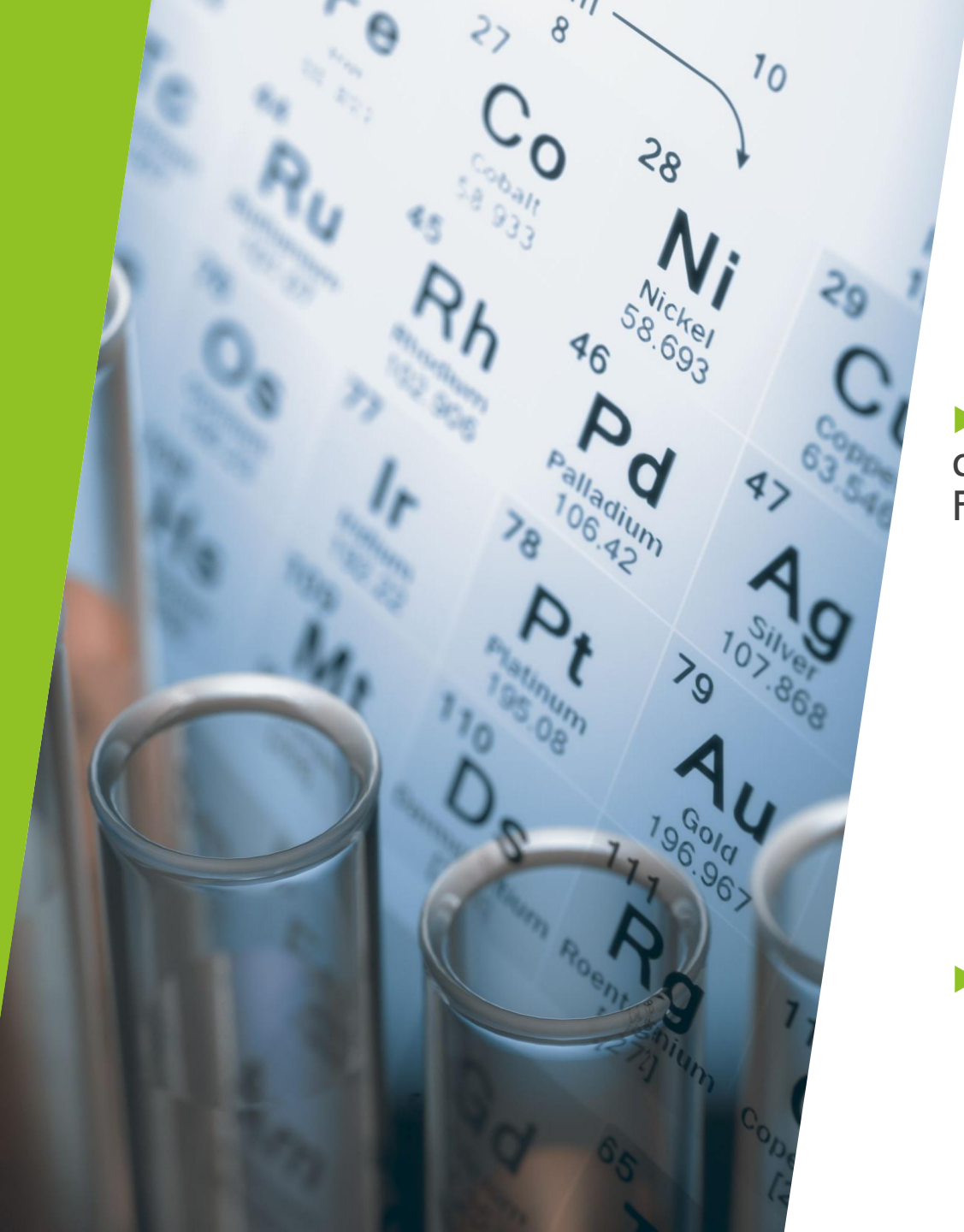
30 Gallon Drum

2.5 Gallon Bottle

1.0 Gallon Bottle



All product is shipped directly to the grower from the manufacturing facility. This ensures there is no degradation of the product due to storage.



Pure Products powered by Pure CV™

Questions and Answers

► In the event you have further questions please contact your Pure Future Ventures representative!

Pure Future 
Securing Tomorrow's Harvest, Today

Powered by Pure-CV™

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FOUNDER

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► Thank you for your time

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