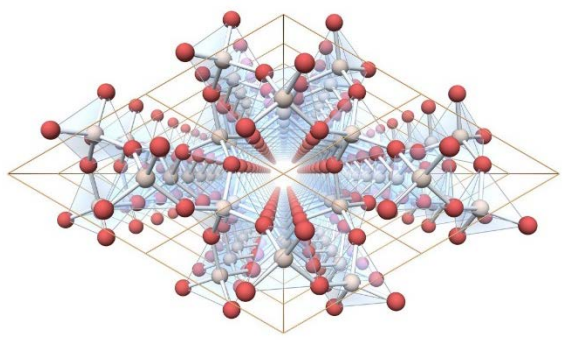
ADVANCED RESONANCE KINETICS CRYSTAL TECHNOLOGY:



RIGOROUS AND SYSTEMATIC TESTING HAS BEEN PERFORMED ON A NOVEL RESONANCE-BASED TECHNOLOGY. THE DATA HAS BEEN COLLATED ON THE NUMEROUS AND SIGNIFICANT BENEFICIAL EFFECTS OBSERVED AND ANALYZED IN TESTING WITH ADVANCED RESONANCE KINETICS (ARK®) CRYSTALS.

Results of testing with ARK® crystals on parameters of biological vitality, as indicated in key plant species, demonstrate increases in growth density, growth rate, seed viability, pathogen resistance, and phytonutrient concentration when test plants are grown with ARK® crystals. Rigorous, standardized, environmentally controlled, and repeated testing was performed, with clear indications that ARK® crystals have a significant, measurable, and demonstrable effect on increasing the vitality, fecundity, growth, and resistance to disease in the biological system, as measured via effects on plant growth and viability.

Using spectrophotometric analysis a 420.54% – 7858.12% increase in relative spectral intensity was observed in ARK® crystal test groups as compared to controls. The increase in spectral intensity is a measure of increased growth density (number of plants per area), as well as an indirect indicator of phytonutrient content; for example, plants with higher chlorophyll content will be greener and thus have a higher spectral intensity as compared to those with less chlorophyll, as observed in the results of ARK® crystal experimentation.

When testing wheatgrass growth parameters, an average 100% increase in growth rate was routinely observed (testing was repeated over multiple trials), with values as high as 350% seen in some cases. In quantitation of the average stalk length over a growth period of 96 hours post-germination it was observed as much as a 350% increase in average stalk length in ARK® crystal test groups as compared to control groups. Quantitation of seed production rates yielded values of up to 444% greater seed production in ARK® crystal test groups as compared to controls.

Testing indicates that effects of ARK® crystal can be transmitted via activation of water that has been exposed or incubated with the crystals. This strongly indicates that water, specifically the geometric configuration of the water molecules, is likely involved in the beneficial effects to the biological system that have been measured and documented.

Greater Seed Viability and Germination Rate

Plants given water treated with ARK® crystals consistently produced improved seed germination and growth rates (Figure 1).

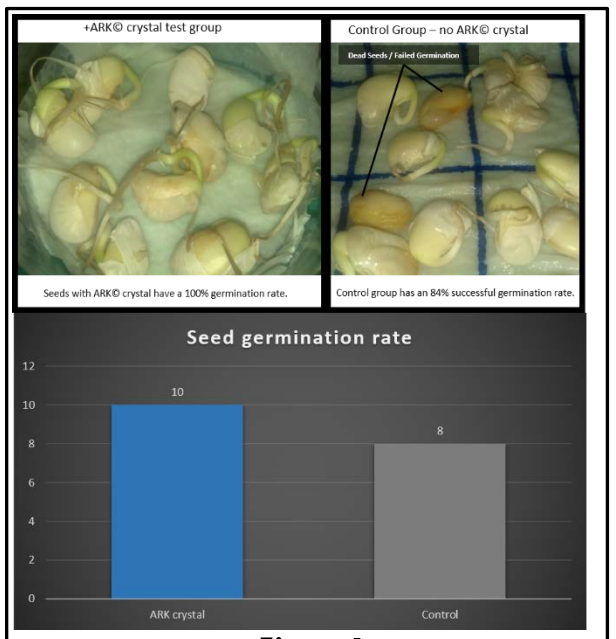


Figure 1
Increased success of seed germination
Seeds treated with water from ARK® crystals had greater average seed germination rates as compared to control groups; ARK® crystal test groups had 94% seed germination rates on average, with results as high as 100% successful germination (imaged above). Compared to control groups with an average of 74% seed germination rates.

Seeds sprouted with ARK® crystal treated water demonstrated an average 96% successful germination rate, as compared to the average germination rate of 77.6% successful sprouting in seeds without ARK® crystals (control groups).

Figure 2
Increased seed germination rate
Measurements of the length of the radicle emerging during germination. The radicle was on average 300% longer in ARK® crystal test groups as compared to controls.

The root in sprouting seeds was up to 300% longer on average than that in control groups (Figure 2), and when ARK® crystal treated seeds were planted they grew more rapidly with significantly larger leaves and stalk length—see increased vitality and growth rate section for detailed enumeration of growth rate results.

Increased Vitality and Growth Rate

In tests with wheatgrass, ARK® crystal test groups consistently produced greater germination rates and overall plant growth rate.

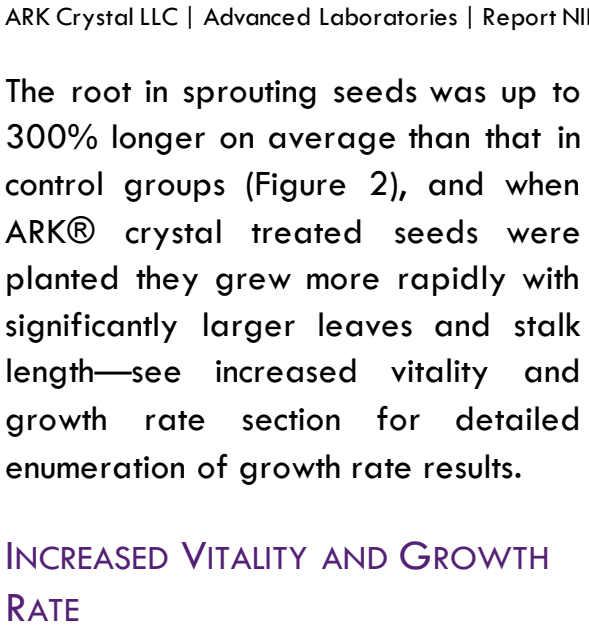


Figure 3
Increased growth rate of ARK® treated plants
ARK® treated test groups demonstrated increases in growth rate as quantified by relative spectral intensity as compared to controls.

Quantitation and analysis of average growth rate using relative spectral intensity between test and control groups demonstrated an increased photometric absorption rate of 420.5% to 7858.12%.

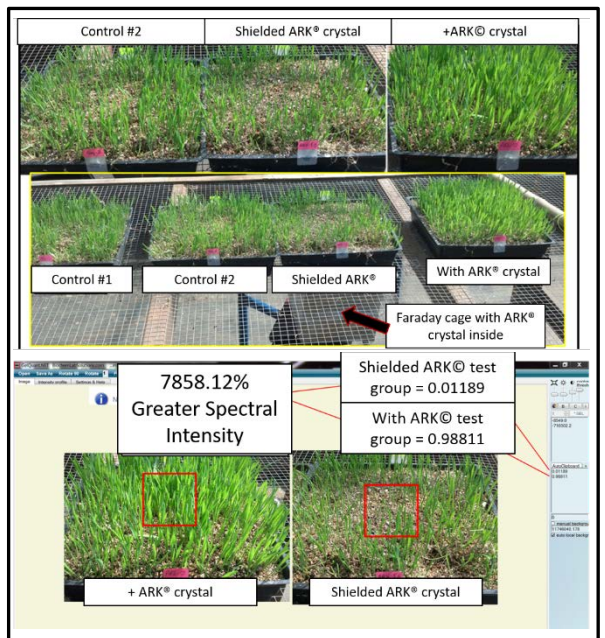


Figure 4
Spectrophotometric analysis / EM shielding
When ARK® crystals are placed in EM shielding Faraday Cage increased growth rates are abolished and resemble that of control groups. Relative spectral intensity analysis shows a 7858.12% greater spectral absorption of ARK® treated test groups.

When placed in a fully hydroponic growth system, with one test group receiving water continuously passed over an ARK® crystal, and another group receiving plain water, plants treated with the ARK® crystal infused water showed an average 350% greater growth rate after just 3 days of growth (Figure 4).

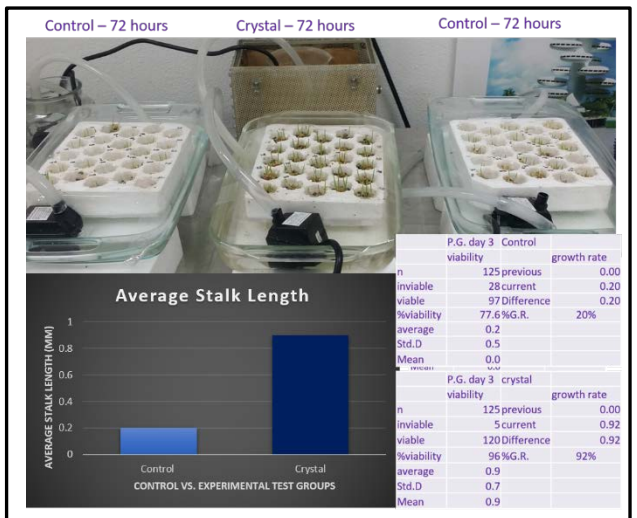


Figure 4
Quantitation of growth rate and other key parameters of plant vitality
In addition to 350% greater growth rates, the ARK® crystal treated test group had a 96% viability of total sprouted seeds as compared to a 77.6% average success rate of germination in the control group.

Greater Phytonutrient Content

Relative spectral analysis demonstrates increased growth density, a function of increased seed germination and growth rate—and most importantly, greater phytonutrient content. In radish plants, increased phytonutrient content was measured by direct spectrophotometric analysis of the leaves (Figure 5).

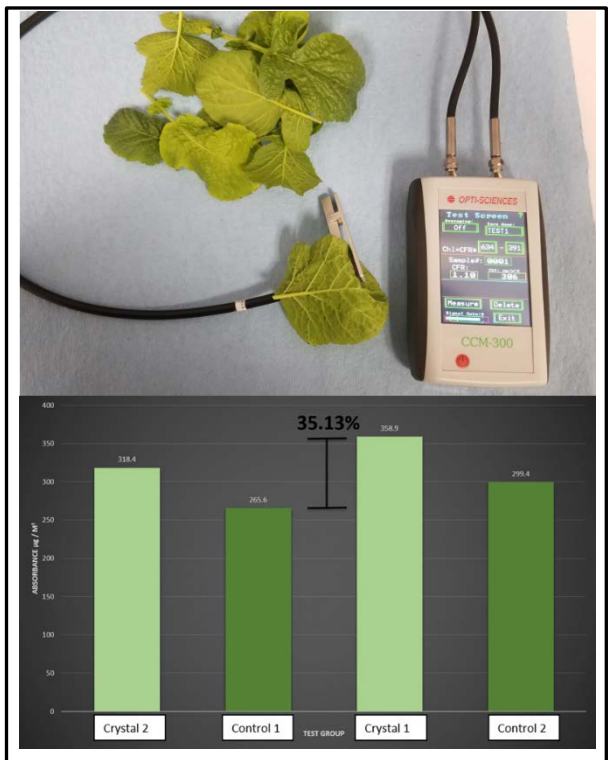


Figure 5
Spectrophotometric quantitation of chlorophyll and phytonutrient content
Spectral analysis of wheatgrass showed a 420.54% to 7858.12% greater relative intensity in ARK® treated groups versus control. Spectrophotometric measurement of chlorophyll content demonstrated an average 35.13% greater chlorophyll content in ARK® treated groups as compared to control groups.

Increased Pathogen Resistance

Plants grown with ARK® crystals had increased resistance to pathogenic infestation and increased immunity across a number of parameters (Figure 6).

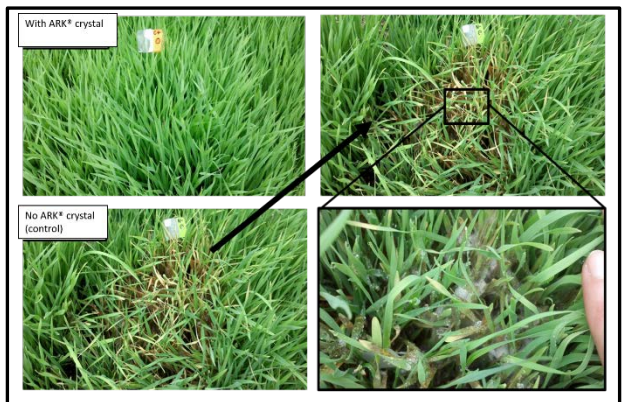


Figure 6
Increased pathogen resistance with ARK® crystal
In multiple trials in which mold infestation was induced via increased watering regimen, ARK® crystal test groups showed little-to-no death from pathogenic infestation whereas control groups without ARK® crystals showed significant plant death from mold.

Wheatgrass, which is normally highly susceptible to mold infestation, had remarkably increased resistance when grown with ARK® crystals. Mold infestation was encouraged by an increased watering regime. Across multiple trials of testing pathogenic susceptibility ARK® test groups showed significant increased resiliency as compared to control groups without ARK® crystals (Figure 7).

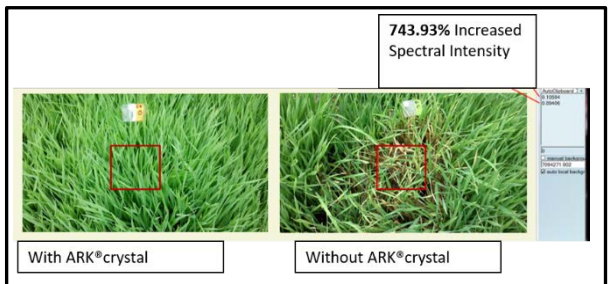


FIGURE 7
SPECTRAL ANALYSIS OF INCREASED PATHOGEN RESISTANCE IN ARK® TEST GROUPS
Plant death from mold infestation results in discolored chlorophyll-lacking regions. Comparative analysis of spectral intensity quantifies the increased survival rate of ARK® crystal test groups as compared to control.

IMPROVED FRUITING BODY / VEGETABLE PRODUCTION

Plants treated with ARK® crystals demonstrated significantly larger fruiting and vegetable body production (Figure 8).

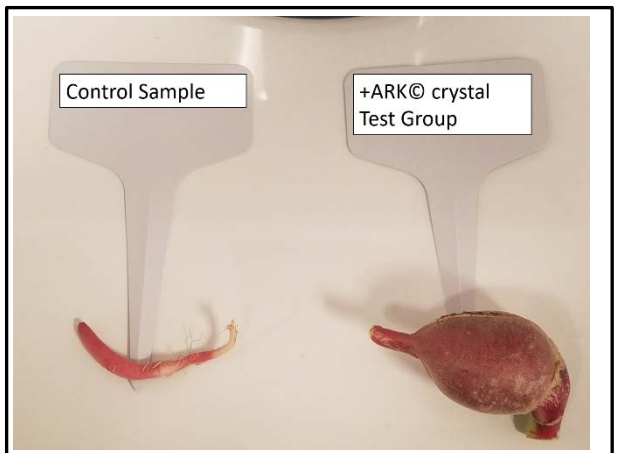


Figure 8
Increased weight, volume and quantity of fruiting bodies of ARK® crystal test groups compared to control groups

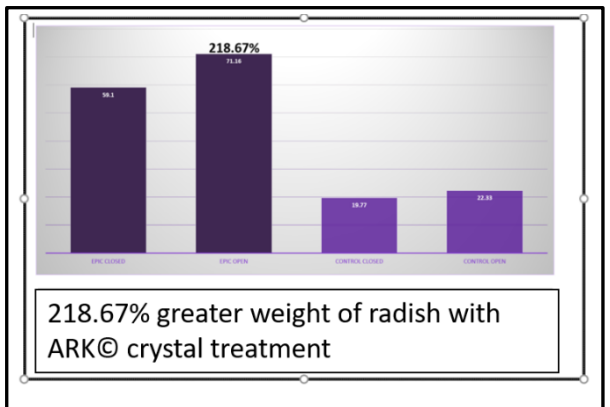


Figure 9
Quantitation of fruiting body production in ARK® crystal testing
Test groups treated with ARK® crystals exhibited greater fruiting body production with an average of 218.67% greater weight.

Increased Seed Production

Plants treated with ARK® crystals demonstrated significantly greater seed production rates (Figure 10).

Figure 10
Test groups treated with ARK® crystals experienced a 444.4% greater seed production as compared to control.

ADDENDUM

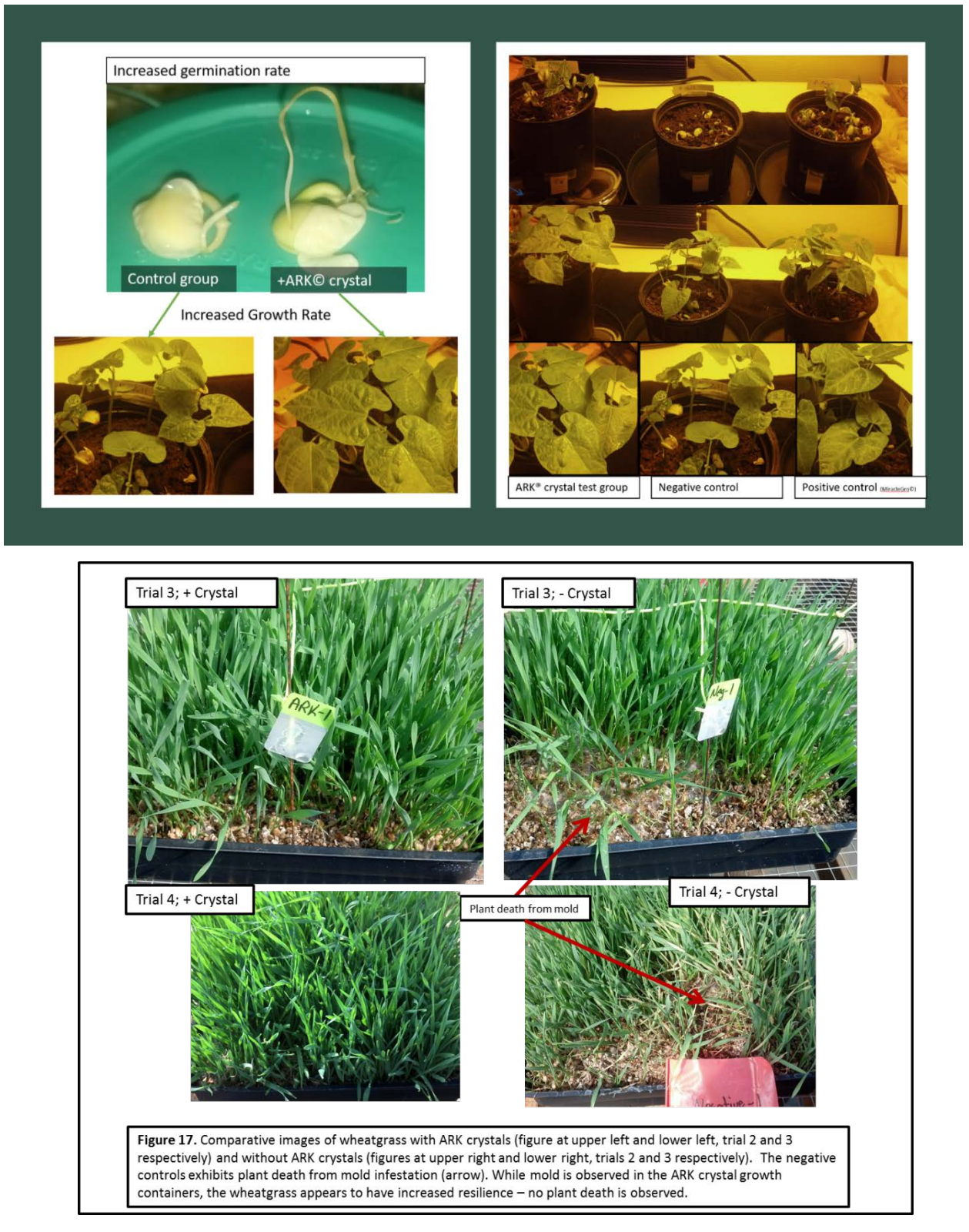


Figure 17. Comparative images of wheatgrass with ARK crystals (figure at upper left and lower left, trial 2 and 3 respectively) and without ARK crystals (figures at upper right and lower right, trials 2 and 3 respectively). The negative controls exhibits plant death from mold infestation (arrow). While mold is observed in the ARK crystal growth containers, the wheatgrass appears to have increased resilience – no plant death is observed.