

# THE EMERALD CONFERENCE

Produced by MJBizScience

March 1-3, 2023

[www.TheEmeraldConference.com](http://www.TheEmeraldConference.com)

## **Increased Cannabis Harvest Yield through Pathogen Remediated Drying & Post Processing in a Production Cultivation Environment**

**Presenter: Dana Heacox, Chief Technology Officer, CTAG**

**Co-Author: Arnold J. Howard, PhD**

**Abstract:** Since the beginning of this decade, there has been an approximate 25% increase in the global sales of Cannabis, with estimated increased sales in recently legal US states for recreational and medicinal Cannabis use are predicted to grow by as much as 220% by the end of year 2022. Going along with market growth is increasing cost pressure and competition from Multi-State Operators moving into local markets. One area that stands out for potential revenue improvement is undetected and untreated pathogenic diseases such as botrytis or aspergillus, which can result in significant to complete loss of crops and reduction in biomass available for sale. Our company has focused yield improvement efforts on leveraging pathogen remediated drying and post cultivation processing using a proprietary ozone treatment system. Our ozone system is user-tuneable for selected biomass processing and treatment duration and has resulted in dramatic reductions in pathogen detection during analytical lab testing. One client has reported a 99.5% Pass-Rate for microbials over four consecutive years of cultivation at its production grow whereas prior pass rates were 90-95%. This increased yield has equated to ~\$600K of added revenue per year for our client. During this talk, we will present ozone system design, operational condition optimization, and actual lab testing & biomass yield results to demonstrate our reported claims.