

# THE EMERALD CONFERENCE

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## **Novel Amino Acid-Based Nutrient Feeding Through Flower on Various Strains of Cannabis sativa**

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**Abstract:** This presentation provides results from a time-paired nutrient study conducted at a commercial Cannabis cultivation facility on plants treated from the start of Veg all the way through Flower of the plant's growth cycle. To increase harvest revenues, we have studied the effects of various nutrient solutions generated electrolytically on-site using commonly available salts and amino acids with the end goal of increasing biomass weights and thereby increasing revenue per harvest. Approximately 200 plants were treated weekly with three experimental nutrient solutions and the baseline control nutrient solution (50 plants per condition) through foliar fed application. Data collected at time of harvest and after processing through outside analytical lab testing includes wet biomass, dry biomass, plant stem widths, THC and Terpene content and microbial concentration. We are excited to report that we observed large increases (greater than 30%) in dry bud biomass from plants treated with our novel nutrients when compared to the control plants on several strains of cannabis grown in the same grow room under identical growth conditions. Plants with these large biomass increases were shown to not have degraded THC and Terpene concentrations while also passing microbial testing. These harvest and lab testing results will be presented in our paper from this compelling time-paired cultivation study.