

## ESPC 2016 - Montreal (Québec)



### Jason Cao, Catherine Zhang

#### Plants on Drugs: Miracle Fluid - The Effect of Chemical Injection on Plants

**Défi:** Découverte

**Catégorie:** Sénior

**Région:** Toronto

**Ville:** Toronto, ON

**École:** York Mills C.I

**Sommaire:** This project explores an alternative way to deliver essential nutrients to plants - by direct injection into plant tissue. Data on carbon dioxide intake, pre-injection and post injection; plant growth and overall plant health are discussed, along with side effects and repercussions.

#### Biographies

Jason - My name is Jason Cao, and I am a grade 11 student from York Mills C.I. My love and interest for science bloomed when I was only 7 or 8. I would go to the library and borrow almost 50 books on science, mostly on astronomy, biology, and chemistry. My interests sort of cycled between the three as I got older. My inspiration sort of came from a passion in innovation and discovery. Anything new, anything spectacular, would instantly take my breath away and leave me immersed in a world of my own. I conducted this experiment because I always had a thing about plants, and to have a way to innovate on plants entirely was pretty high up on my bucket list...

Catherine - Catherine Zhang is a high-school student that loves to get very involved with her school and community. She spends a lot of her time in the various school councils and leads many academic clubs at her school. She is the enthusiastic head of the chemistry club, performs in the school band, and loves water sports. In her own time, she gives back to the community by volunteering through her own start-up art program. As for her Science Fair project, she had previously conducted an experiment in which she gave drugs to bean plants that she grew. After learning in class that some people must carry around an oxygen tank due to respiratory diseases, ...

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