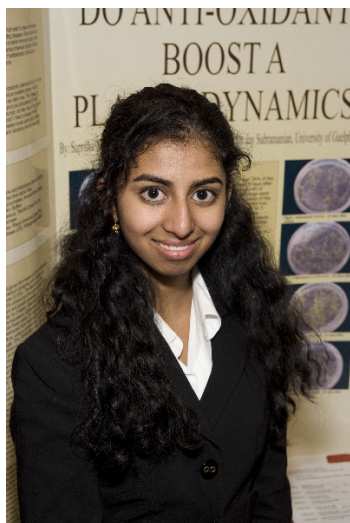


# CWSF 2008 - Ottawa, Ontario



## Supritha Nilam

### Do Anti-Oxidants Boost a Plant's Dynamics

**Division:** Physical & Mathematical Sciences / Environmental Innovation

**Category:** Intermediate

**Region:** Niagara

**City:** St.Catharines, ON

**School:** Sir Winston Churchill

**Abstract:** Anti-oxidants, predominantly produced by plants, are known to boost human health. However, the role of anti-oxidants in plants itself is not well understood. To study the effect of anti-oxidants, plants were grown in vitro in medium enriched with anti-oxidants. Phenotypic and genetic analysis was conducted to study the effects. Results showed that anti-oxidants boost the plant growth, rooting, vigor and disease resistance at lower concentrations.

### Biography

I'm a grade X student at Sir Winston Churchill Secondary School in St. Catharines, Ontario. I have been actively involved in both curricular and extra curricular activities. I participate in the math club, School Reach, the school orchestra, peer tutoring activities and I am a section editor of the school yearbook committee. I have also successfully participated in the annual math contests held by the University of Waterloo, the annual brain bee contests held by McMaster University and at the annual Niagara Regional Science Fair for the last two years. I have been a winner successively for the last two years in the intermediate division at the Niagara Regional Science Fair. I have taken an interest in mathematical concepts and was enrolled in the Kumon Math program. In 2001, I was placed 10th in North America for Math among students at the same level. I currently am a student in the Ontario Conservatory of Music. I have been playing the violin for the past 2 years. My present research interest is studying the effects of anti-oxidants in plant growth. This is an ongoing project with the help of the faculty at the University of Guelph - Vineland Campus.

### Awards

### Value

The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Environmental Innovation - Intermediate Sponsor: EnviroExpo, Presented by VIA Rail Canada	\$300
Bronze Medal - Life Sciences - Intermediate Sponsor: Pfizer Canada	\$300
<b>Total</b>	<b>\$1 600</b>