

CWSF 2011 - Toronto, Ontario



Benjamin Korol

The Effects of Non-ionizing Radiation on Arabidopsis thaliana

Challenge: Health

Category: Senior

Region: Regina

City: Regina, SK

School: Winston Knoll Collegiate

Abstract: The safety of cellphones and other electromagnetic-producing devices has recently become a controversial issue. By measuring the effects of two frequencies of radiation on Arabidopsis thaliana, it can be deduced that any deviation is paralleled in humans. Past studies have been inconclusive in determining any effects. It was found that the radiation did have an effect on the germination and development of the plants.

Biography

Benjamin Korol is a grade eleven student at Winston Knoll Collegiate in Regina, SK. He is actively involved in the school community: as a member of several bands and choirs, as a representative on the SRC, and as a founding member of the school's science club. Outside of school, he dances many hours a week, as well as taking drama, musical theatre, voice, and piano lessons. Every few months he is involved in a full-scale theatrical production.

Benjamin pursues science actively and enthusiastically, taking every available science class in school and designing and conducting research projects in his spare time. Benjamin is no stranger to the science fair movement: in 2009, when he was in grade 9, Benjamin was selected to attend CWSF in Winnipeg representing Regina. He won the Regina Regional Science Fair Committee's Choice Award at the 2010 RRSF. At this year's RRSF, Ben featured his project on the effect that radiation emitted by cellular telephones may have on living cells. He was awarded the gold medal and best overall project and was selected to attend CWSF 2011 in Toronto.

Awards

Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	\$300
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Total	\$2 300