

# CWSF 2012 - Charlottetown, Prince Edward Island



## Effects of Folic Acid on Cellular Senescence

**Challenge:** Health

**Category:** Junior

**Region:**

**City:** ,

**School:**

**Abstract:** The Biological functions of folic acid (FA) have been reported earlier. Previously, we reported that 200mg/ml of FA increases blood cell size leading to abnormal cell division and death suggesting early cellular aging. Cells treated with FA after exposure to anti-neoplastic agent were rapidly driven to senescence. Treating cancer cells with FA decreased their senescence. This suggests that overdose of FA affects cell aging selectively.

Awards	Value
Excellence Award - Junior - Silver Medal Sponsor: Youth Science Canada	\$700
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
Total	\$2 700