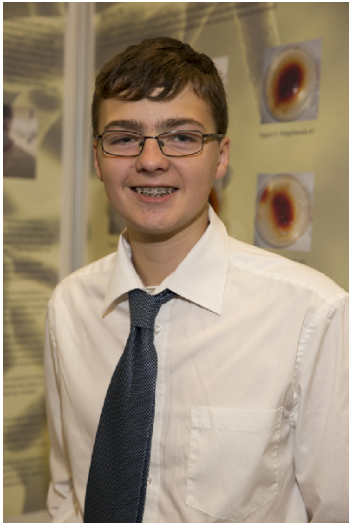


## CWSF 2016 - Montreal, Quebec



### Effects of Polyphenols on E-coli Bacteria

**Challenge:** Health

**Category:** Intermediate

**Region:**

**City:** ,

**School:**

**Abstract:** Green tea polyphenols are known for their antineoplastic (anti-cancer), cardiovascular (oxidative stress) and antioxidant properties. Polyphenols were extracted by two liquid to liquid extractions followed by a solvent removal and a desiccation of the final product. The polyphenols were then tested on cultured E-coli samples to determine if they inhibit, or potentially culture, their growth. The results suggest that polyphenols inhibit the growth of bacteria.