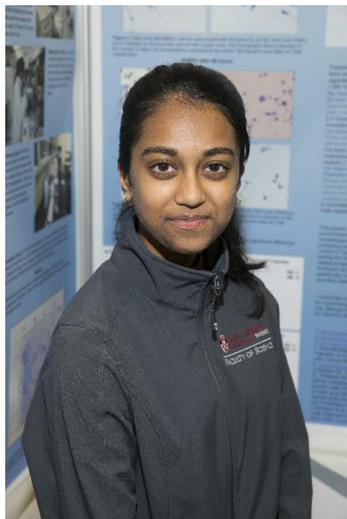


# CWSF 2017 - Regina, Saskatchewan



## Anisha Rajaselvam

### The Answer to Cancer: Killing Breast Cancer Cells with Triptolide

**Challenge:** Health

**Category:** Junior

**Region:** Halifax

**City:** Halifax, NS

**School:** Sacred Heart School of Halifax

**Abstract:** For my project, I added three concentrations of Triptolide (the chemical extract of a Chinese herb) to four different cell lines of breast cancer; each with a different combination of proteins. One of them was a triple negative breast cancer cell line; the hardest type of breast cancer to treat. Triptolide was effective in killing all cell lines, including the triple negative, in 24-48 hours.

#### Biography

Hi! My name is Anisha Rajaselvam and I am a grade 7 student at the Sacred Heart School of Halifax. I enjoy many extra-curricular activities, ranging from piano to dance to girl guides. I love math, science, English, art and music, but science is definitely the winner! I have won national math contests such as the Math Kangaroo and the Mathematica Centrum. I have also won regional and national French competitions and even had the opportunity to attend an international French contest. I earned the Lady Baden Powell award in guiding. When someone very close to me was diagnosed with cancer I learned about the disease and the side effects of its treatments. I got interested in ancient beliefs in natural herbs that cured cancer. The "Thunder God Vine" sparked my interest; it is a Chinese herb believed to cure cancer but nobody has ever tested to see if it really does and if so, how. With my project I added the extract of this herb to breast and lung cancer cells to see what would happen. I am planning to continue this intriguing project and hopefully continue to work in the medical field in the long run.

#### Awards

#### Value

Excellence Award - Junior - Gold Medal Sponsor: Youth Science Canada	\$250
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
<b>Total</b>	<b>\$4 250</b>