

# CWSF 2019 - Fredericton, New Brunswick



## Syni Solanki

### Modification of Nuclear Architecture in Hodgkin's Lymphoma due to Lamin A/C

**Challenge:** Health

**Category:** Intermediate

**Region:** Peel

**City:** Mississauga, ON

**School:** St. Francis Xavier S.S.

**Abstract:** Lamin A/C is a protein component that is the backbone of the genome. Expression of this component was investigated in Hodgkin's Lymphoma cells, as altered nuclear organization in this cancer had been noted. It was found that Lamin A/C has a role to play in the modification of nuclear architecture in the cell, as seen by differed expression patterns compared to healthy cells.

#### Biography

My name is Syni Solanki, and I am a Grade 10 student enrolled in the International Baccalaureate program at St. Francis Xavier Secondary School in Mississauga, Ontario. I am 15 years old and I greatly enjoy math and science and wish to pursue a career in medicine. My hobbies include reading and listening to music, and I can handle any genre for both. I also play piano at a Grade 9 level and clarinet in my school's concert band. I've been attending a research program about molecular biology for the past two years in the summer at the University of San Diego, and that's where I was inspired to carry out this experiment! My plans for future investigations involve applying my current research to generate a possible targeted therapy in the long-term. A piece of advice that I would give other students thinking about doing a project is that no matter what, keep on trying. Even if you feel like others are judging or are in disbelief, don't give up. It will all work out in the end, and you'll see you are capable of many more things:)

#### Awards

#### Value

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|---|---------|
| Excellence Award - Intermediate - Silver Medal<br>Sponsor: Youth Science Canada                                 |         |
| Western University Scholarship<br>Silver Medallist - \$2000 Entrance Scholarship<br>Sponsor: Western University | \$2 000 |
| Total   | \$2 000 |