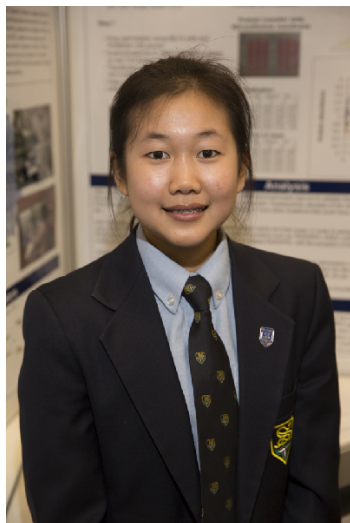


# CWSF 2016 - Montreal, Quebec



## Melissa Lu

### Characterizing RASGRP4 Mutations and Targeting ERK in R-CHOP Resistant rrDLBCL

**Challenge:** Health

**Category:** Senior

**Region:** Montreal

**City:** Montreal, QC

**School:** The Study

**Abstract:** Numerous relapse refractory Diffuse Large B-Cell Lymphoma (rrDLBCL) patients have reoccurring mutations in their RASGRP4 gene. RASGRP is a family of proteins that activates the RAS-MEK-ERK pathway, which is implicated in the regulation of cancer. This experiment aimed to develop a targeted and more beneficial therapy approach for treating rrDLBCL patients.

#### Biography

My name is Melissa and I am currently a grade eleven student at The Study. I started developing a love and passion for the health sciences at a young age, and am very fortunate for all the opportunities that I have received. Sharing my work with eager minds at science fairs and learning from fellow peers is always extremely motivating. I had the honour to present my project at Intel ISEF and at MILSET, which were both unforgettable and amazing experiences. Other hobbies and interests that I have are ballet, cooking and baking, shopping and singing. Next year, I plan on continuing my studies in health sciences because I would like to become a researcher, doctor, or teacher, or maybe even everything combined! Canada Wide is a first for me, and I am excited to present a new project, to make new friends and to have a blast! Cancer research interests me so much, because it affects so many people in our society. That is why I plan on pursuing my future investigations in this field.

#### Awards

#### Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
<b>Total</b>	<b>\$2 000</b>