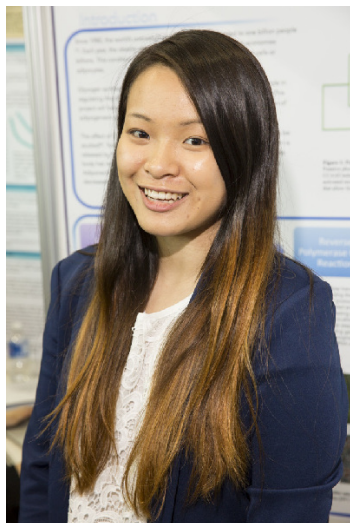


# CWSF 2015 - Fredericton, New Brunswick



## Michelle Li

### Regulation of Adipokines and Fat Growth by Master-switch Protein Kinase

**Challenge:** Health

**Category:** Senior

**Region:** York

**City:** Maple, ON

**School:** University of Toronto Schools

**Abstract:** Obesity has become an increasingly prevalent concern over the last century. The project targets this condition by analyzing Glycogen Synthase Kinase-3's (GSK-3) regulatory effect on the characteristic fat growth and hormone secretions. Results suggest GSK-3's role as a negative regulator of fat-specific hormones and key differentiation growth genes.

#### Biography

Even though I'm a highschool student at the University of Toronto Schools, I'm an enthusiastic student researcher at the Lunenfeld-Tanenbaum Lab at Mount Sinai Hospital. I've been involved in studying biological pathways for 2 years already and I'm expanding my prospects towards kallikrein-associated diseases. It is an absolutely unparalleled experience to apply educational knowledge in a hands-on environment. It takes a lot of commitment, time, drive, and passion to start at an early age. I am also a professional fencer on the Canada National Team. I've been fencing for 6 years now and I've represented Canada internationally at North American Cups, European Circuits, Pan Ams, and the Junior World Cup. I am also a qualified referee as well as founder and head coach of our school's fencing team.

#### Awards

#### Value

Excellence Award - Senior - Silver Medal Sponsor: Youth Science Canada	
Dalhousie University Faculty of Science Entrance Scholarship Senior Silver Medallist - \$2500 Entrance Scholarship Sponsor: Dalhousie University, Faculty of Science	\$2 500
UBC Science (Vancouver) Entrance Award Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	\$2 000
University of New Brunswick Canada-Wide Science Fair Scholarship Silver Medallist - \$2500 Entrance Scholarship Sponsor: University of New Brunswick	\$2 500
University of Ottawa Entrance Scholarship Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Ottawa	\$2 000
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
<b>Total</b>	<b>\$11 000</b>