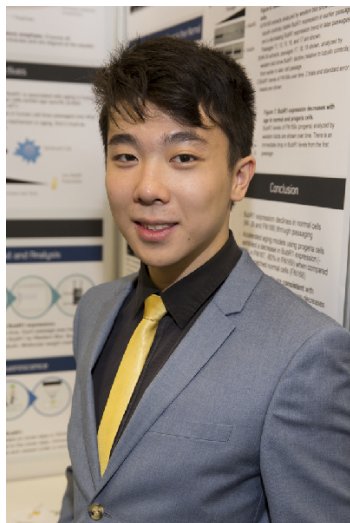


# CWSF 2016 - Montreal, Quebec



## Ruicen (David) He

### Aging in Human Cells is Linked to BubR1 Expression

**Challenge:** Health

**Category:** Senior

**Region:** Edmonton

**City:** Edmonton, AB

**School:** Old Scona School

**Abstract:** In 2004, scientists showed how levels of BubR1, a mitotic checkpoint protein affects the aging phenotype in mice. I am investigating if there is a correlation between low BubR1 expression and the aging phenotype in humans using normal human cell lines and progeria cell lines. Analyzing protein harvested from the cells through time, I was able to find this correlation with BubR1 in humans.

#### Biography

My name is Ruicen He, but I usually go by David at school. I'm from Edmonton, Alberta; and attending Old Scona Academic Senior High as a grade 12 student. Something that I have held close to my heart is music. In junior high, I picked up playing the trumpet and now I play in a city-wide youth jazz band programs called Little Birds. Some of the first books I read when I was a child were science encyclopedias for kids. These experiences introduced and sparked my love for science. Flash forward to now, and the opportunity to not only work in a research lab, but to also study something I have been interested in since elementary has definitely been the highlight of my experience during high school.

#### Awards

#### Value

Excellence Award - Senior - Gold Medal Sponsor: Youth Science Canada	\$250
Dalhousie University Faculty of Science Entrance Scholarship Senior Gold Medallist - \$5000 Entrance Scholarship Sponsor: Dalhousie University, Faculty of Science	\$5 000
UBC Science (Vancouver) Entrance Award Senior Gold Medallist - \$4000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	\$4 000
University of Manitoba Entrance Scholarship Senior Gold Medallist - \$5000 Entrance Scholarship Sponsor: University of Manitoba	\$5 000
University of Ottawa Entrance Scholarship Senior Gold Medallist - \$4,000 Entrance Scholarship Sponsor: University of Ottawa	\$4 000
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
<b>Total</b>	<b>\$22 250</b>