

# CWSF 2016 - Montreal, Quebec



## Teresa Deng

### Algae to Biofuel

**Challenge:** Energy

**Category:** Senior

**Region:** Carlton Trail

**City:** Watson, SK

**School:** Watson High School

**Abstract:** Concerns over the country's energy dependence on nonrenewable fossil fuels is increasing with elevated scarcity and negative environmental impacts. Algae is an abundant, fast-growing, oil-rich, resilient organism that can prosper in many extreme circumstances. I hypothesized that I could grow and harvest algae in a lab, then use a chemical extraction to obtain the natural lipid oils which could then be refined into fuel.

### Biography

I am Teresa Deng, a grade 11 student from Watson school. I was born and raised in China, where I lived until the fall of 2014. I moved to Canada and settled in Watson, Saskatchewan. My idea came when I was on Christmas holidays in China, excited to return to school and get researching the project.

### 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
Total	\$2 000