

## CWSF 2013 - Lethbridge, Alberta



### Karim Ghandour

#### Une présence mortelle?

**Challenge:** Health

**Category:** Intermediate

**Region:** Montréal CLS

**City:** montreal, QC

**School:** Collège de Montréal

**Abstract:** Discovering the virulence of the flu throughout viral protein PB1-F2, a novel 90 amino acid chain discovered in the 21 century. The project's objective is to demonstrate how PB1-F2 contributes to the virulence of Influenza A H1N1 by analyzing cytokine secretion upon PR8 and ?PB1-F2 PR8 infection (wild strain and mutated strain).

#### Biography

I am 15 years old and i love science. I cycle on a team (racing) and i enjoy Math. This year will be my first one at the Canada-Wide science fair.

#### Awards

#### Value

Excellence Award - Intermediate - Silver Medal Sponsor: Youth Science Canada	\$300
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
Total	\$2 300