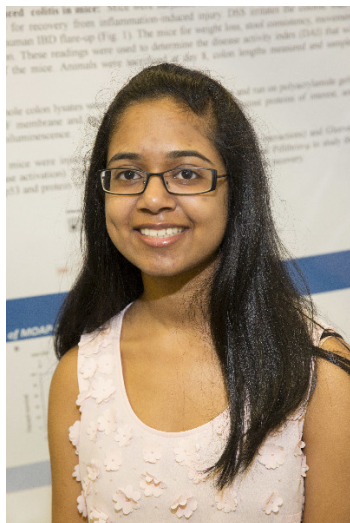


## CWSF 2014 - Windsor, Ontario



### Prachi Shah

#### MOAP-1 as a Regulator of Inflammation in the Colon

**Challenge:** Health

**Category:** Senior

**Region:** Wood Buffalo

**City:** Fort McMurray, AB

**School:** Westwood Community High School

**Abstract:** The purpose was to demonstrate the importance of MOAP-1 in regulating inflammation. Wild-type, Moap-1 and Rassf1a knockout mice were treated to 3% DSS solution for to induce inflammation followed by regular water. The mice were observed for signs/severity of inflammation. Moap-1 knockouts were injected with Pifithrin-u? and Gleevec to study the mechanisms of protein activity in inflammation/recovery. Patients may benefit from drugs inhibiting apoptosis.

#### Biography

My name is Prachi Shah and I am in grade 12 at Westwood High School in fort McMurray, Alberta. I am the events coordinator for Student Council and am a member of the multicultural group, Colours. I am also a member of the Mayor's Advisory Council On Youth and am an Environmentor. Next year I will be attending University of Alberta to pursue a BSc specialization degree in Physiology and Developmental Biology. I have been on Honour roll-Award of Excellence for my entire high school career. In previous years at the Wood Buffalo Regional Science Fair, I have been awarded the Bronze medal twice, the Syncrude Material Sciences award, and the BP Chemistry award. I got the inspiration for my project from my mentor and I was able to be a part of the ground-breaking research being carried out at University of Alberta. Since I will be student at the university starting next year, I plan to continue my work with the lab and expand both my knowledge and project to broader proportions. I would advise others thinking of doing a project to choose a topic they are passionate and curious about since it will give them the drive needed.

#### Awards

#### Value

Excellence Award - Senior - Bronze Medal Sponsor: Nuclear Waste Management Organization	\$100
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>\$2 100</b>