



CWSF 2009 - Winnipeg, Manitoba



Mike Bao, Allan Kang

MMM: Manoeuvering Metastatic Melanoma

Division: Physical & Mathematical Sciences / None

Category: Senior Region: Edmonton

City: Edmonton, AB, edmonton, AB

School: Harry Ainlay School, Old Scona School

Abstract: In this project, the molecular mechanisms of melanoma were investigated.

The cadherin protein profiles of various cell lines undergoing melanoma progression were established. The PTEN gene was found to regulate the cadherin profiles of melanocytes through the mechanisms of the PI-3K catherin and the transcriptional factors of Twist and Spail The

pathway and the transcriptional factors of Twist and Snail. The reintroduction of PTEN into cancer cells lead to a reversal of cancer

properties.

Biographies

Mike - My name is Haiyu and ever since I was capable of memory, I have loved science, biology in particular. In my current grade 12 year in Harry Ainlay High School, I have had the much appreciated opportunity to undertake my science fair project in the laboratory of Dr. Sujata Persad. Aside from my keen interest in science, I am also passionate in volunteering for the community, such as my prolonged dedication to the Good Samaritan Society senior home, my local community, and the Heart and Stroke Foundation. I am also firmly enthusiastic towards politics, as I extensively volunteered during the 2008 Canadian Federal Elections, and sports, where I h...

Allan - I have always been intrigued by science. At a young age, I entered various science fairs at the local and provincial level. Having grown up, I satisfy my craving for science by being consistently involved in skin cancer research at the University of Alberta. My research has yielded promising results, earning me the award for the best project in a medically related field as well as second overall in my category at the Edmonton Regional Science Fair. Apart from science, I volunteer at 3 different hospitals and run the community association in our region. I also enjoyed being apart of our school sports teams such as basketball, soccer, handball,...

Awards	Value
The Manning Innovation Achievement Award	\$500
Sponsor: Ernest C. Manning Awards Foundation	
Dalhousie University Faculty of Science Entrance Scholarship	\$4 000
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$4 000
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
The University of Western Ontario Scholarship	\$2 000
Gold Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Western Ontario	
University of Ottawa Entrance Scholarship	\$20 000
Senior Gold Medallist - \$20,000 Entrance Scholarship (\$5,000 each year	
for 4 years)	
Sponsor: University of Ottawa	
Gold Medal - Life Sciences - Senior	\$1 500
Sponsor: Pfizer Canada	
Total	\$32 000





