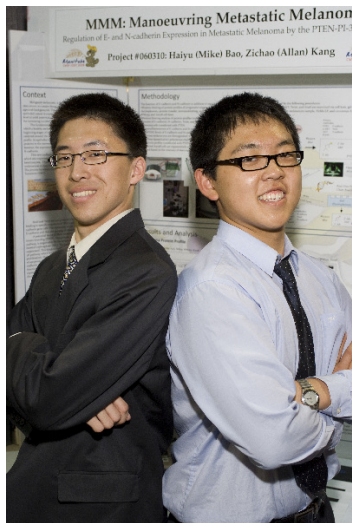


CWSF 2009 - Winnipeg, Manitoba



Mike Bao, Allan Kang

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