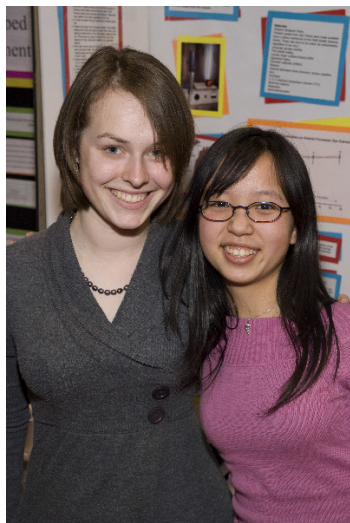


CWSF 2008 - Ottawa, Ontario



Annie Wen, Kirsten Morry

Power Ultrasonic Treatment for Atherosclerosis

Division: Life Sciences / None
Category: Senior
Region: Eastern Newfoundland
City: St. John's, NL, St. John's, NL
School: Prince of Wales Collegiate
Abstract: This project explored the use of ultrasound to treat atherosclerosis. Arterial plaque was simulated in thoracic aortas from rats and the vessels were subjected to varying intensities and durations of ultrasonic stimulation. It was found that ultrasound effectively removed the simulated plaque, without adversely affecting the viability of the cells. All durations and intensities tested exhibited similar levels of plaque removal efficacy.

Biographies

Annie - Annie Wen is a grade 11 student at Prince of Wales Collegiate in St. John's, Newfoundland and Labrador. She is involved in a wide range of extra-curricular activities both inside and outside of her school. She is a member of her school's debate club and has competed at provincial and national levels. She is a member of her school's concert choir, as well as math league, robotics and student council. She is also an active member in her Air Cadet squadron and hopes to obtain her glider pilot's license this summer. In her spare time, Annie enjoys running, swimming and playing basketball. When Annie graduates from high school, she hopes to obtain ...

Kirsten - Kirsten is a Grade 11 student at Prince of Wales Collegiate in St. John's, Newfoundland. She enjoys a surfeit of extra-curricular activities. Her favourite is debating, in which she participates at the provincial and national levels, and she has won several prizes in this field. She participates actively in the St. John's Regional Youth Parliament and Newfoundland and Labrador's Provincial Youth Parliament, and is the Secretary of the Board of Directors for both. She has also earned multiple awards for delegate excellence in Model United Nations. An active member of her school community, Kirsten is a member of both choirs, the math league, an...

Awards

Value

Honourable Mention - Health Sciences - Senior Sponsor: Canadian Institutes of Health Research	\$100
Total	\$100