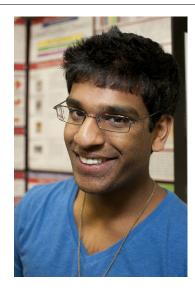




CWSF 2011 - Toronto, Ontario



Sathya Baskaran

Recovery By Regeneration

Challenge: Innovation
Category: Senior
Region: Ottawa
City: Nepean, ON
School: Nepean H.S.

Abstract: Many Canadians undergo intense therapy to repair spinal cords. I identified

a novel microstructure hollow fiber membrane and tested its bioengineering

properties. Morphological studies indicated that Dip Coated Tubes dissolved in less than three weeks. Therefore, new copolymers,

Microsphere Tubes were designed. Clinical research using a rat model yielded positive results. MRI studies using optimized iron particles as a

reference marker were performed.

Biography

When looking at my life over the past seventeen years, three major aspects seem to come clearly. First and foremost is my passion towards science. I have always enjoyed science and it has been one of my passions. I have participated at CWSF, in 2007 (Truro, Nova Scotia), 2008 (Ottawa, Ontario). I am also a SMARTS Coordinator for my home town Ottawa and a SMARTS school representative. Secondly sports, I have always enjoyed sports. It helps me maintain an active and healthy lifestyle. Some sports that I enjoy to play are badminton and volleyball. Thirdly, family and friends, this would not be possible without their continuous support and help. These three vital aspects of my life I believe make me a well round individual and pursue me to work harder and achieve better standards.

Awards	Value
The Manning Innovation Achievement Award	\$500
Sponsor: Ernest C. Manning Awards Foundation	
Excellence Award - Senior - Silver Medal	\$700
Sponsor: Youth Science Canada	
Dalhousie University Faculty of Science Entrance Scholarship	\$2 500
Senior Silver Medallist - \$2500 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
The University of Western Ontario Scholarship	\$2 000
Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Western Ontario	
University of Ottawa Entrance Scholarship	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Ottawa	
Total	\$9 700



