

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