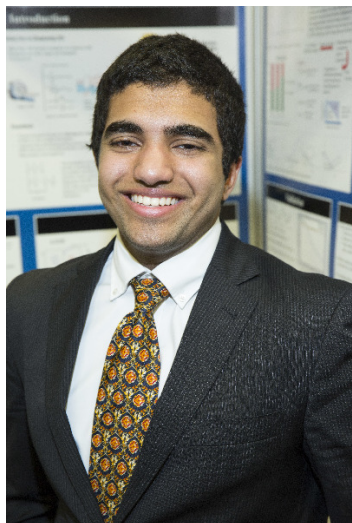


## CWSF 2014 - Windsor, Ontario



### Arjun Nair

#### A Computational Analysis of Multiple Sclerosis: A Novel Diagnostic Procedure

**Challenge:** Health

**Category:** Senior

**Region:** Calgary Youth

**City:** Calgary, AB

**School:** Webber Academy

**Abstract:** Multiple Sclerosis (MS) is an incurable but treatable immune mediated neurodegenerative disease; therefore, early recognition of the disease is crucial in improving patient outlook. Current medical procedures are lengthy (1-2 years), expensive, and aggravating. By changing the way we fundamentally tackle diagnostics this project couples a network-based systems analysis of protein interaction networks with artificial intelligence to develop a novel blood based diagnostic tool.

#### Biography

Hi! My name is Arjun Nair and I absolutely love science! From competing in the CWSF, ISEF and at Sanofi competitions, fairs have given me the opportunity to investigate captivating questions, meet remarkable people and travel North America! I can't wait to conclude my science fair career in Windsor this year.

Awards	Value
The Actuarial Foundation of Canada Award - Senior	\$1 000
The Manning Innovation Achievement Award Sponsor: Ernest C. Manning Awards Foundation	\$500
The Manning Innovation Achievement Award and \$4000 Manning Young Canadian Innovation Award Sponsor: Ernest C. Manning Awards Foundation	\$4 000
Statistical Society of Canada Award Sponsor: Statistical Society of Canada	\$1 000
Excellence Award - Senior - Gold Medal Sponsor: Youth Science Canada	\$700
Dalhousie University Faculty of Science Entrance Scholarship Senior Gold Medallist - \$5000 Entrance Scholarship Sponsor: Dalhousie University, Faculty of Science	\$5 000
UBC Science (Vancouver) Entrance Award Senior Gold Medallist - \$4000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	\$4 000
University of Manitoba Entrance Scholarship Senior Gold Medallist - \$5000 Entrance Scholarship Sponsor: University of Manitoba	\$5 000
University of Ottawa Entrance Scholarship Senior Gold Medallist - \$4,000 Entrance Scholarship Sponsor: University of Ottawa	\$4 000
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
<b>Total</b>	<b>\$29 200</b>