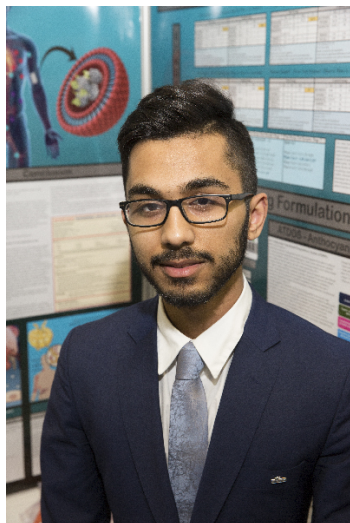


# CWSF 2019 - Fredericton, New Brunswick



## Yaseen Abbas

### Anthocyanins: A Natural Deterrent to Carcinogenesis

**Challenge:** Health

**Category:** Senior

**Region:** York

**City:** Richmond Hill, ON

**School:** St. Theresa of Lisieux Catholic H.S.

**Abstract:** In this project, the anticancer prophylactic and therapeutic properties of anthocyanins were studied. This was achieved by observing oral and urinary cytomorphologic patterns in smokers upon anthocyanin exposure and withdrawal over a 2.5 year period. Upon analyzing the results of this study, the pharmacological properties of anthocyanins, and the various modes of systemic drug dissemination, a transdermal anthocyanin drug delivery system was theoretically designed.

#### Biography

Hi, I am Yaseen Abbas and I am a grade eight student at As-Sadiq School in Thornhill, Ontario. I have huge interest in the field of preventive medicine, and I strongly believe in the statement 'prevention is better than cure'. Today, while health professionals engage in understanding disease processes and therapeutic agents, there is a need to emphasize on the recognition of disease precursors and creation of prophylactic drug formulations. To achieve this, I am actively involved in studying cellular morphometry utilizing non-invasive specimen procurement methods. I conducted my experiment at the Michener Institute, utilizing modern technology and lab equipment. In the future, I hope to work in a pharmaceutical lab for quantitative analysis of my theoretical drug formulation. I further intend to highlight the significance of a mass screening program for lung cancer. Aside from this passion, I enjoy swimming, soccer, and volleyball. I actively participate in volunteer activities at the local community center and other activities within school such as Mathematica and public speaking contests. For future science fair participants, my advice is that science fair is not just about winning. Try to find solutions to the 'unanswered questions' while focusing on the overall impac...

#### Awards

#### Value

Excellence Award - Senior - Silver Medal Sponsor: Youth Science Canada	
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
University of New Brunswick Canada-Wide Science Fair Scholarship Silver Medallist - \$2500 Entrance Scholarship Sponsor: University of New Brunswick	\$2 500
University of Ottawa Entrance Scholarship Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Ottawa	\$2 000
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
<b>Total</b>	<b>\$11 000</b>