

# CWSF 2016 - Montreal, Quebec



## Ishmum Ataur

### Tumor-Specific TCR-pMHC Database

**Challenge:** Innovation

**Category:** Intermediate

**Region:** Greater Vancouver

**City:** Vancouver, BC

**School:** Britannia Community Secondary

**Abstract:** New advances in cancer immunotherapy have shown promise towards combatting tumors using re-differentiated T cells. However, crucial information that is needed for research in immunotherapy, such as the V,D and the CDR3 sequences of T cell receptors, are very disordered. The Tumor-Specific TCR-pMHC Database centralizes this data in one location allowing users to analyze sequences, trends as well as submit their own data.

#### Biography

Ishmum Ataur is a grade 10 Pre-International Baccalaureate student at Britannia Community Secondary School, situated in East Vancouver. After growing up in countries with diverse backgrounds including Bangladesh, Australia and Canada, Ishmum has developed interests for science and innovation, athletics and various forms of art. He has experienced various cultures and took part in unforgettable adventures during his travels. From a young age, Ishmum continued to inquire and learn about his favourite topics, including exploration, biology and astronomy. At the age of 9, he scored the highest score possible on the National NAPLAN Math Test in Australia. As a competitive athlete, Ishmum plays soccer competitively for the Vancouver Athletic Football Club, and played for his school basketball, ultimate, cross country and soccer teams. During his leisure, he covers his favourite songs on the keyboard or does landscape art. Four years ago, Ishmum started his journey towards oncology, and is currently researching immunotherapy. He is very excited about the advancements of this treatment, as he believes it has many advantages over chemotherapy. His current goal is to continue his research and help establish immunotherapy as a reliable source of clinical therapy.

#### Awards

#### Value

The Actuarial Foundation of Canada Award - Intermediate Sponsor: The Actuarial Foundation of Canada	\$750
Excellence Award - Intermediate - Bronze Medal Sponsor: Youth Science Canada	
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
<b>Total</b>	<b>\$1 750</b>