



## CWSF 2017 - Regina, Saskatchewan



## John Berger

Youth Science Canada

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## A Graphic User Interface for the Retrieval of Genomic Information

Challenge: Information Category: Senior

Southeast Alberta Region: City: Medicine Hat, AB

School: Medicine Hat High School

Abstract: This project focused on improving a method for accessing genomic

> information from Genbank. A Java program was created to achieve this goal while avoiding the difficulties of a previous command-line Perl program, and adding features such as multiple sequential downloads and a

graphic interface. The resulting Java program was platform independent,

and more user friendly.

## **Biography**

I am a grade eleven student at Medicine Hat High School in Alberta. My inspirations for this project came over a year ago, when a microbiologist told me about how tedious the downloading of genomic information from NCBI was. Last year, I simplified this process by creating a Perl program to download the genome data and remove many of the steps the website has. This year, I improved over my last program by using a graphic interface that is platform independent. My interests include computer programming for game development and computer design for components and assembly. Some of my hobbies are karate, puzzles, and reading many books from various genres. I have been studying Shotokan karate for eight years, and I have achieved the level of brown belt. After grade 12 I would like to study software engineering, computer engineering, electrical engineering, or computer science. I would encourage any students interested in science to do a project in the fields they are interested

Awards	Value
Excellence Award - Senior - Bronze Medal	
Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship	\$1 000
Senior Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$2 000





