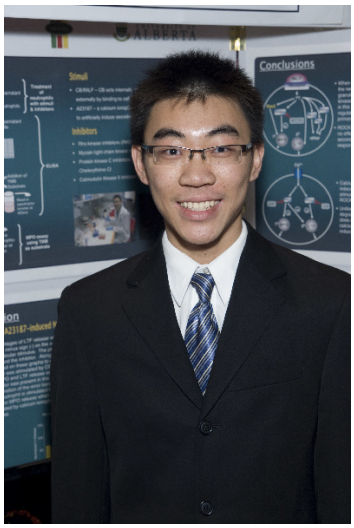
CWSF 2008 - Ottawa, Ontario



Danny Chao

Signalling Pathways Leading to Differential Neutrophil Degranulation

Division: Biotechnology / None
Category: Senior
Region: Edmonton
City: Edmonton, AB
School: Old Scona School

Abstract: The neutrophil is a type of leukocyte that is involved in the immune response. Neutrophils are granulated cells - the release of their granular contents into the body is known as neutrophil degranulation. The presence of these granular proteins in the body after their release from neutrophils is damaging to tissue. In this experiment, different signaling pathways that lead to neutrophil degranulation were investigated.

Biography

I have the wonderful opportunity of working in a medical laboratory at the University of Alberta. Accepted into the prestigious Heritage Youth Researcher Summer Program (HYRS) in summer 2007, I have been working in the same laboratory ever since. Under the extensive mentorship of Dr. Paige Lacy, I have been awarded two certificates that allow me to work with laboratory mice in medical research ? such an opportunity is highly valuable, especially at only 17 years of age. As a result, I believe that medical research has become one of my interests. Besides the great amount of research with which I am involved, I volunteer and provide community service. Currently, I volunteer at the Royal Alexandra Hospital and the University of Alberta Hospital. Every weekend, I assist with clerical duties at my former Chinese School. At school, I am a student tutor involved in a charity and fundraising group. In September 2008, I hope to attend the University of Alberta. I wish to expand my knowledge in the field of physiology and to eventually become a medical doctor with special training in research.

Awards	Value
Honourable Mention - Biotechnology & Pharmaceutical Sciences Senior Sponsor: Rx&D Health Research Foundation	$100
Total	$100

Youth Science Canada
PO Box 297
Pickering ON L1V 2R4
www.youthscience.ca / info@youthscience.ca
416-341-0040