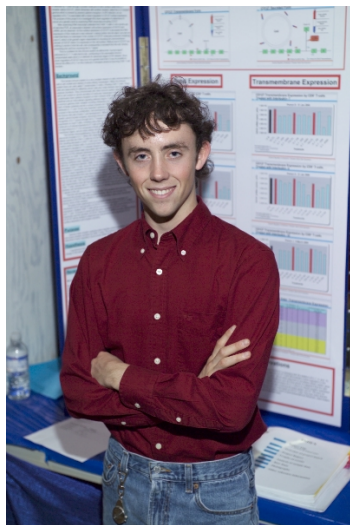


# CWSF 2006 - Saguenay, Québec



## James MacLeod

### Cytokine Regulation of IL-7 Receptor Alpha Gene Expression

**Division:** Life Sciences

**Category:** Senior

**Region:** Ottawa

**City:** RR#2 Dunrobin, ON

**School:** All Saints H.S.

**Abstract:** This experiment is designed to collect data regarding the gene expression of the interleukin-7 receptor alpha (CD127). Gamma chain sharing receptor cytokines down-regulate CD127, and the purpose of this experiment is to investigate this down-regulation. Quantitative methods for quantifying mRNA transcripts encoding total and membrane bound CD127 will be utilized.

Awards	Value
International Summer School for Young Physicists Award Sponsor: Perimeter Institute for Theoretical Physics	\$2 500
Honourable Mention - Health Sciences - Senior Sponsor: Canadian Institutes of Health Research	\$100
<b>Total</b>	<b>\$2 600</b>