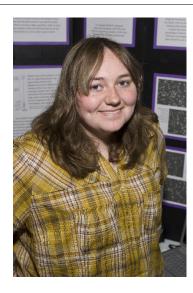




## CWSF 2010 - Peterborough, Ontario



## Julia Lee

## Protecting the body from pathogens? MARCO joins the fight

Division: InternationalCategory: SeniorRegion: Bay AreaCity: Hamilton, ON

**School:** Hill Park S.S. **Abstract:** The macrophage

The macrophage receptor with collagenous structure (MARCO) assists cells in the detection and isolation of pathogens. To determine the influence of cytokines on MARCO, cells were stimulated with TNF? and IFN?, mRNA was extracted, amplified, and analysed with a 1% agarose gel. An increase in MARCO expression was observed when cells were stimulated with both cytokines, indicating a role for MARCO in the inflammatory response.

## Biography

Writer, environmentalist and movie critic. Three traits you may not expect to see at a science fair, but young scientists do come in all shapes and sizes. Writing is my passion. Writing is something I truly love to waste time with. For the past 3 years I've participated in National Novel Writing Month and have reached the 50k goal twice, leaving me with three partially completed novels. In the future, I plan to be out chasing tornadoes as an Extreme Meteorologist, but will first have to endure a few decades in University studying Environmental Science. The environment is yet another thing that fascinates me, particularly the weather. It's such a normal part of our lives, but the inner workings of it are amazing. Any time left over from my writing binges and cloud watching I usually spend watching movies. I like movies that are somewhat deep, leaving you to think about the plot, characters and mood that the film tries to portray. I only call myself a movie critic since I'm usually left with a strong opinion after the film is done. I'm also a comicbook geek, fangirl, procrastinator, musician, comedian, and so much more. Not enough space to tell!





