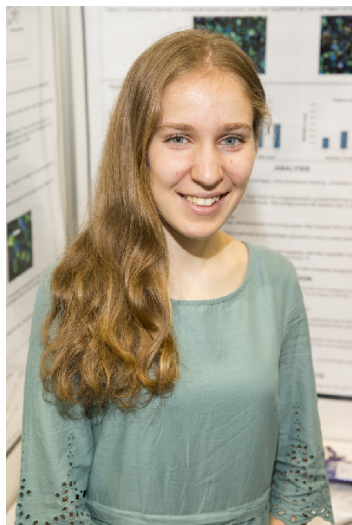


CWSF 2015 - Fredericton, New Brunswick



Emma Dubroca

Phagocytosis in Burn Patients

Challenge: Health

Category: Intermediate

Region: Montreal

City: Montreal, QC

School: The Study

Abstract: While evidence points to macrophages having a central role in the initiation and perpetuation of the inflammation response, there have not been any studies that have examined the modulation of macrophage phagocytizing activity in the sera of burn patients. We developed a tool using SE for monitoring the phagocytosis in serum of burn patients in a high-throughput fashion.

Biography

I was born in Montreal, Quebec. I go to The Study, and I like science, math, music and languages. My hobbies are reading and sports, especially soccer. I got the inspiration for my project by thinking of topics that are not discussed often. I came up with the idea of conducting research on burn patients, since I was inspired by the fact that there are no cures for these patients. The project allowed me to explore techniques that use physics. In the future, I plan to continue my study and test the receptor in my experiment, to see if modulating its activity can actually cure burn patients. To students who are thinking about doing a project, I would say find something that you are truly passionate about, that could make a contribution to advancing science and benefit the medical field.

Awards

Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Youth Science Canada	
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 000