



## ESPC 2019 - Fredericton (Nouveau-Brunswick)



## Biographie

My name is Erica Forsythe and I am 15 years old. I attend Red Lake District High School, which is located in the small mining community of Red Lake, Ontario. My interests include competitive figure skating, curling, badminton, science, writing, and mathematics. One achievement I am most proud of has been placing 1st at the Regional Science Fair four times over the course of five years. When researching what topic of interest to base my science fair project on, I was very fascinated by the concept of bacteria. During the early stages of my project, I discovered there is not a lot of research on plants and their medicinal properties (especially plants that have antimicrobial properties). I was confident that I was able to determine a list of a few plants that grew in Northwestern Ontario, specifically in Red Lake, that had antimicrobial properties. For future science fair participants, I would encourage them to ensure they have a passion for their topic of study. Learning and exploring a topic of interest is a great way to develop a great science fair project. At this time, I would enjoy pursuing a career in microbiology to further expand my knowledge of bacteria.

## **Erica Forsythe**

## Medicine in My Backyard

Défi:	Ressources
Catégorie:	Intermédiaire
Région:	Sunset Country
Ville:	Balmertown, ON
École:	Red Lake District High School
Sommaire:	The purpose of this project is to determine which plants in the Red Lake
	area have antimicrobial properties. After testing the plants against
	Micrococcus luteus, I determined their effectiveness of killing the
	Escherichia coli and Lactobacillus casei bacteria. I discovered the
	Escherichia coli bacteria was resistant to the Pinus resinosa and Picea
	mariana needles. Further testing is required to determine the plants' full antimicrobial activity.

Prix	Valeur
Prix d'excellence - Intermédiaire - Médaille d'argent	
Commanditaire: Sciences jeunesse Canada	
Bourse d'études de Western University	2 000,00 \$
Médaillé d'argent - Bourse d'admission de 2 000 \$	
Commanditaire: Université Western	
Total	2 000,00 \$

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