

## CWSF 2019 - Fredericton, New Brunswick



### Emmalee Anderson

#### Effect of *Ledum groenlandicum* Extract on In Vitro Migration of Rat Stem Cells

**Challenge:** Health

**Category:** Intermediate

**Region:** Manitoba First Nations

**City:** Gypsumville, MB

**School:** Lake St. Martin School

**Abstract:** Labrador tea is one of the most prominently used medicinal plant by First Nations in Canada. Indigenous people have used it to treat over 40 ailments. This study is looking into the potential of Labrador tea in wound healing. Our results have shown that in 8uL, 16uL, 24 uL and 32uL of Labrador tea extracts, cell migration in rat bone marrow has been induced.

#### Biography

I am Emmalee Grace Anderson, a Grade 9 student from Little Saskatchewan School in Gypsumville, Manitoba. Last year, I presented a project involving Indian medicine-wikay. This is already the second time that I was chosen as one of the students who did mentorship projects at the Youth Biolab of St. Boniface Research Centre in Winnipeg. I learned lots from the experience and it has brought out the best in me. In the mentorship, we were taught to calculate our treatments, design our experiment, develop our skills in microscopy and practice using pipettes and other laboratory equipment necessary to complete the projects. We also used a program to help us interpret the results. This year I decided to work on Labrador tea since it is also widely used by First nations in Canada. For next year, I would like to use diseased cell lines and another option would be to investigate its effect on blood sugar levels. I would advise students thinking about doing a projects to look for plants indigenous in their reserve or community.

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