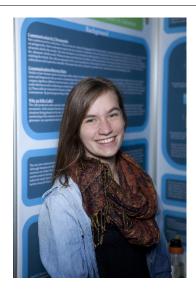




## CWSF 2013 - Lethbridge, Alberta



## **Emily Chemnitz**

## **Rat Vocalization in Social Encounters**

Challenge: Discovery Category: Senior Region: Niagara

Youth Science Canada

City: St. Catharines, ON School: Sir Winston Churchill

Abstract: Rats emit vocalizations at an ultrasonic level. I put seven rats into two

situations: a double rat and single rat situation. After recording and analyzing their vocalizations I was able to complete statistical analysis that showed a significantly higher frequency in the second call emitted in a social encounter as well that rats vocalize significantly more when together.

## **Biography**

Emily Chemnitz is currently enrolled at Sir Winston Churchill Secondary School. She enjoys being active physically and in her school life. Emily is active at her school where she is a prefect, on the hockey team, softball team as well as yearbook club. Emily has been playing the trumpet in the brass choir at her church since grade 5 and continues to volunteer there. She loves to run and is always interested in learning new things. Emily hopes to enter a neuroscience program next year at Brock University or University of Guelph. She began her research project when she entered the Brock Mentorship program where she completed her experiments involving rat vocalizations. This inspired a career in neuroscience. Emily is very excited to pursue this dream and loves to keep working.

Awards	Value
Excellence Award - Senior - Bronze Medal	\$100
Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship	\$1 000
Senior Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$2 100





