

## CWSF 2008 - Ottawa, Ontario



### Janelle Langille

#### Analyzing Yeast Metabolism Under Aerobic & Anaerobic conditions

**Division:** Physical & Mathematical Sciences / None

**Category:** Intermediate

**Region:** Chignecto East

**City:** RR#2 River John, NS

**School:** Northumberland Regional High School

**Abstract:** Yeast metabolism under aerobic and anaerobic conditions produces different amounts of carbon dioxide. The amount of carbon dioxide produced was measured under both of these conditions using bread yeast. It was also measured after doubling the sugar and increasing the temperature. Each experiment was conducted three times for twenty minutes each. Aerobic metabolism was always faster and produced more carbon dioxide than anaerobically.

#### Biography

I am a Grade 10 student at Northumberland High School in Alma, Nova Scotia. I am active in sports like soccer, baseball and golf and I play competitive girls hockey. I have three younger brothers. My favorite school subjects are math and chemistry. I am involved in SonRise Youth Group, the school Environmental Club and St. George's Presbyterian Church. My hobbies are reading, being physically active, hanging out with friends, listening to music and watching movies. I would like to pursue a career in medicine as a pharmacist or doctor.