

ESPC 2009 - Winnipeg (Manitoba)



Shubham Talwar

Hyper Heartbeat: The Effect of pH levels on Micro-organisms

Division: Sciences physiques et des mathématiques / Innovation environnementale

Catégorie: Junior

Région: Lethbridge

Ville: Lethbridge, AB

École: Gilbert Paterson Middle School

Sommaire: The effect of pH levels on the heartrate of *Daphnia pulex* by treating them with different concentrations of HCl and NaOH solutions was determined. Under extremely acidic conditions, the heart stopped completely. Also, under extremely basic conditions, the heartrate was significantly lower than normal levels. An optimum pH-range was suggested based upon the data and the effect of pH levels in natural environments was discussed.

Biographie

Hello, I am Shubham Talwar. I am 14 years old, and am a student at the Gilbert Paterson Middle School in Lethbridge, Alberta. I live with my two parents and my sister. I am really interested in science, especially chemistry and biology. I play the flute, and am in the band and the jazz band in my school. I am also involved in Air Cadets in Lethbridge.

Prix

Valeur

Bourse d'études de l'Université Western Ontario	1 500,00 \$
Médaille d'argent - Bourse de début d'études de 1 500 \$	
Commanditaire: Université Western Ontario	
Médaille d'argent - Sciences de la vie - Junior	700,00 \$
Commanditaire: Pfizer Canada	
Total	2 200,00 \$