

CWSF 2011 - Toronto, Ontario



Kevin Shi

Marvelous Mites, the effects of food combinations on *C.lactis* reproduction

Challenge: Environment

Category: Senior

Region: Greater Vancouver

City: Vancouver, BC

School: Sir Winston Churchill Secondary

Abstract: My experiment focuses on finding the ideal food combination for efficient *C.lactis* rearing, the factitious host mite used to raise *A.swirskii*, a predatory mite employed for biocontrol. Through raising mites in volume cultures over 3 weeks, I have found moisture and yeast critical and honey beneficial for rapid mite reproduction. These results are informative for efficient industrialized rearing of *A. swirskii* on *C. lactis*.

Biography

My name is Yuliang (Kevin) Shi, and I am a grade 11 student at Sir Winston Churchill Secondary School participating in the International Baccalaureate program. In my spare time I enjoy playing hockey, playing my violin and enjoying the metro Vancouver cityscape. Since the eighth grade I have been to three different high schools, I was first a member of the Byng Arts Minischool for Violin performance in Vancouver, then moved to California in grade nine and stayed at Loma Linda Academy until the latter half of grade ten. Most recently I am in Vancouver as an IB student in Churchill. Extracurricular pursuits have always meant just as much if not more than curricular activities to me. I have been playing the violin and competing regionally since 8 years old and won two second place awards at the Vancouver Kiwanis Music Festival. I am the founder and president of Project PUSH, a club dedicated to raising awareness and funds for children in war-torn northern Uganda. I have also been volunteering in major hospitals since grade nine in positions ranging from desk clerk to car aid. As for career options I am currently quite torn between scientific research and economics.

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