

ESPC 2007 - Truro (Nouvelle-Écosse)



Josh Segeren

Soy Solution: Initial Moisture Effects on the Injury Resistance of Soybeans

Division: Biotechnologie / Aucun

Catégorie: Intermédiaire

Région: Chatham-Kent

Ville: Chatham, ON

École: John McGregor S.S.

Sommaire: This experiment determined the effect of pre-imbibitional moisture levels on the ability of a soybean seed to resist imbibitional chilling injury and dehydration injury. Based on germination, electrolyte leakage and carbon dioxide respiration rates, seeds with higher initial moistures (12% and 14%) exhibited the lowest sensitivity to environmental stresses and demonstrated high viability under ideal conditions, presenting a practical solution to relatively significant agricultural issues.

Biographie

My name is Josh Segeren and I am a 15-year-old, grade nine student at John McGregor Secondary School in Chatham, Ontario, where I am a dedicated member of the Student Council and School Band. I live on a farm in this largely rural community with my caring parents and older brother, and our dog. Since 2004, I have been involved in science fairs, with my first trip to the CWSF in Vancouver, British Columbia in 2005. Last year, in Saguenay, Quebec, I was honoured to receive a silver medal and the Agriculture and Agri-Food Canada award from my research in soybean production. I enjoy volunteering for the Heart and Stroke Foundation, the Physician Recruitment Campaign, and the Brain Injury Association of Chatham-Kent and working part-time as a computer associate at Staples Business Depot. Music and sports are also significant in my life, especially piano and hockey, both of which I have played since the age of five. Recently, I have started to learn the French horn and the trumpet. My hobbies also include reading, computer gaming, watching movies, playing badminton and running track. In the future, I plan to attain honours degrees in both Science and Business Administration.

Prix

Valeur

Bourse d'études de l'Université Western Ontario	2 000,00 \$
Médaille d'or - Bourse de début d'études de 2 000 \$	
Commanditaire: Université Western Ontario	
Médaille d'or - Biotechnologie et les sciences pharmaceutiques Intermédiaire	1 500,00 \$
Commanditaire: Fondation pour la recherche en santé de Rx&D	
Prix Platine d'EnCana - Meilleur projet Intermédiaire	5 000,00 \$
Commanditaire: Encana Corporation	
Total	8 500,00 \$