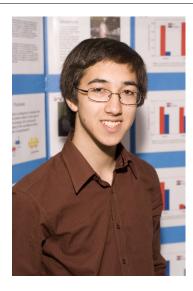




## ESPC 2010 - Peterborough (Ontario)



## Biographie

I was born in Voronezh, Russia in 1993. Ever since I was little, I had always moved around a lot; first to USA, then back to Russia, after to Sweden and Denmark, and finally ended up in Canada. Having lived in Winnipeg for seven years, I participated in the Science Fair in grades seven and eight, taking part in the Manitoba Schools Science Symposium and winning Best Biological Sciences Project -Junior Level. Back in grade eight, I also found I had a strong interest in musical composition. I began to compose music in the 18th century classical style, first with a small sonata, and then moved on to write some larger works, such as symphonies. As a hobby, I really enjoy music, particularly listening to Mozart and Bach, as well as playing various piano sonatas and fugues. For university, I am deciding currently between something to do with history, linguistics, or biology. It is a large range of possibilities, but since I also enjoy music so much, I will probably do it as a second degree so that I have some professional experience in it.

## **Timour Igamberdiev**

## **Pyrophosphate - An Alternative Energy Source in Plants**

Division:	Sciences de la vie
Catégorie:	Sénior
Région:	Eastern Newfoundland
Ville:	St. John's, NL
École:	Holy Heart High School
Sommaire:	The project studied the question if plants switch to use the energy-rich compound pyrophosphate when ATP synthesis is suppressed (anoxia). Under nitrogen, in barley and maize, the ATP level dropped by 7-8 times while pyrophosphate decreased only by 20-30%. The activity of the glycolytic ATP-dependent enzyme phosphofructokinase decreased, but

sed only by 20-30%. The activity of the zyme phosphofructokinase decreased, but pyrophosphate-dependent phosphofructokinase increased threefold. This indicates that pyrophosphate can be used as an alternative energy currency.

Prix	Valeur
Bourse d'études de l'Université Western Ontario	1 000,00 \$
Médaillé de bronze - Bourse de début d'études de 1 000 \$	
Commanditaire: Université Western Ontario	
Bourse d'admission de l'Université d'Ottawa	1 000,00 \$
Médaillé de bronze, sénior ? Bourse d'admission de 1 000 \$	
Commanditaire: Université d'Ottawa	
Médaille de bronze - Sciences de la vie - Sénior	300,00 \$
Commanditaire: Pfizer Canada	
Total	2 300,00 \$



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