



CWSF 2009 - Winnipeg, Manitoba



Biographies

Ya-Chen - My name is Jane. I came from Taiwan. I am 18 years old. I love to see movies and collect movie tickets. On the other hand, Our research is about organic chemistry.

Shanice - I'm Shanice. I'm a Gr.12 student living in Taiwan. My high school life consists of three major things: reading, Irish dance, and science. The reading part is the way to kill time, and Irish dance is my favorite activity. About the science part, actually, I hated chemistry before! There were too many recitals and caculations. I did this research just because I was assigned to. However, in the process of the experiment, I found that I was involutarily in love with organic chemistry, especially the experiments. That's why I'm here and asking you to allow us to introduce our project!

Ya-Chen Lin, Shanice Wu

Synthesis, Reactivity and Recycling of the Organic-inorganic catalyst

Division: Category:	International / None Senior
Region:	Taiwan, R.O.C.
City:	Taipei,
School:	
Abstract:	A solid supported chiral organocatalyst was readily prepared by co-condensation of surfactant and trans-4-hydroxy-L-proline derivative under basic conditions. The mesoporous material anchored chiral organocatalyst was used catalytically to catalyze asymmetric aldol reaction. High enantiomeric excess was obtained when 4-nitrobenzaldehyde was reacted with cyclohexanone catalyzed by this chiral catalyst. This catalystst can be used for up to three times under the same reaction conditions.

Awards	Value
Gold Medal - International	
Sponsor: Youth Science Canada	
Total	\$0



Youth Science Canada PO Box 297 Pickering ON L1V 2R4 www.youthscience.ca / info@youthscience.ca 416-341-0040

