

## CWSF 2006 - Saguenay, Québec



### Kimberly Cai, Shazli Shethwala

#### Skin to Blood

**Division:** Life Sciences

**Category:** Senior

**Region:** Waterloo-Wellington

**City:** Guelph, ON

**School:** Centennial Collegiate & Vocational Institute

**Abstract:** Epithelial stem cells derived from the fetal mouse differentiated into blood cells and blood cell progenitors when cultured in media containing bone marrow cytokines. Such results open the possibility of creating bone marrow from patient skin for future bone marrow treatments. Skin stem cells may also present new sources of blood for patients with platelet disorders, low white blood cell count, and other blood-related diseases.