

# CWSF 2008 - Ottawa, Ontario



## Uliana Maria Kovaltchouk

### Cell Cycle Control of Transformation in *Saccharomyces Cerevisiae*

**Division:** Physical & Mathematical Sciences / None

**Category:** Intermediate

**Region:** Winnipeg Schools

**City:** Winnipeg , MB

**School:** Sisler High School

**Abstract:** Genes are highly regulated throughout the cell cycle; consequently this may influence levels of transformation. MKPo bar1 ? was transformed with the LiAc/PEG/ssDNA method, in conjugation with the cell cycle. Sample T=75, transformed at the highest rate, proven by microscopy to be Mitosis. Theories for this level variation, is that during Mitosis, the nuclear membrane breaks down, and, nuclear division occurs? allowing for transformation efficiency.

#### Biography

When I think about myself, I am full of unique and different qualities. There are many things I love to do and I can go on and on forever about myself?but I will only list the most striking features about me. I am a very athletic person, especially in swimming. However, the best features about me are that I am loyal, I strive for excellence, and am ambitious, clever, and last but not least, outgoing. In my free time I love to play piano, dance, and do science research and experiments. I enjoy the outdoors very much, and absolutely love to travel. European scenery is breathtaking and it enlightened my spirit to the degree I have never felt before when I had the opportunity to go there. As I mentioned earlier I love to swim. I have been swimming since grade 1, and have never been able to stop since then. I have 3 medals certifying my degree of life saving skills and I used to volunteer as a lifeguard assistant. I am also a cadet of St. John's Ambulance. I would like to pursue a career in science probably in microbiology.

#### Awards

#### Value

The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Life Sciences - Intermediate Sponsor: Pfizer Canada	\$300
Total	\$1 300