

CWSF 2009 - Winnipeg, Manitoba



SpongeBob's Nemesis Plankton: Evil Genius or Omega-3 Super-producer?

Division: Biotechnology / Environmental Innovation

Category: Junior

Region:

City: ,

School:

Abstract: This experiment demonstrates how phytoplankton are an alternative source of omega-3. The growth conditions were varied to observe which produced ideal yields of omega-3. *Chaetoceros muelleri*, and *Isochrysis galbana* Tahiti strain were the two species used. The final results proved that TISO contains the greatest quantity of omega-3, and growing it at 21 C with nutrient concentration of F/2 provided the greatest quantity of omega-3.

| Awards | Value |
|---|---------|
| The University of Western Ontario Scholarship Gold Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario | \$2 000 |
| Gold Medal - Biotechnology & Pharmaceutical Sciences - Junior Sponsor: Youth Science Canada | \$1 500 |
| Total | \$3 500 |