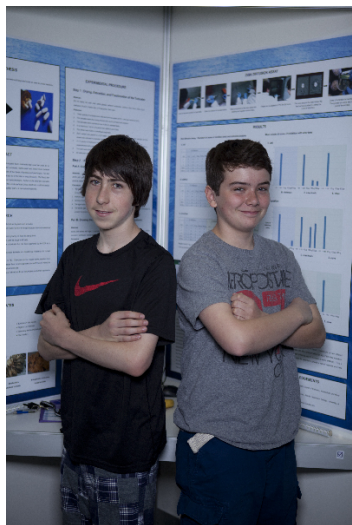


CWSF 2013 - Lethbridge, Alberta



Gavin Kerr, Neil Kelley

Medicines from Sea Squirts

Challenge: Resources

Category: Junior

Region: Prince Edward Island

City: Charlottetown, PE

School: Queen Charlotte Intermediate School

Abstract: The goal of this project is to test our hypothesis that natural products from tunicates have antibiotic or antifungal activity. To test this hypothesis we dried, extracted, fractionated and tested tunicate extracts, using the disk diffusion assay, to see if they would kill two types of bacteria and one fungus. We found that one tunicate, *Ciona intestinalis*, selectively killed *Bacillus subtilis*, a Gram positive bacterium.

Biographies

Gavin - Extra Curricular activities include: PEI Alpine Ski Team, School Volleyball and Basketball Teams, PEI Fencing Team, Clarinet and Guitar. Hobbies and Interests: water sports including sailing, water skiing and wake boarding. Awards received: PEI Provincial Science Fair 2012 (Grade 6) award and 3 specialty prizes. PEI Provincial Science Fair 2013 (Grade 7) award and 5 specialty prizes Queen Charlotte Intermediate School Honor Certificate, Fencing -Gold, Silver and Bronze medals in PEI and NB tournaments. Skiing - Silver Medal in Ski Cross event in NS, Basketball- Queen Charlotte Intermediate School team won silver in the provincial tournament

Neil - Extra Curricular activities include: School Basketball and Volleyball teams, Mid-Isle Magic U13 basketball team, school band. Awards received: Provincial silver medal Junior High basketball Championship, School Honours, 2013 PEI Science Fair 8 specialty awards and second in junior division, 2012 Provincial Science Fair 3 specialty awards and Provincial finalist, Provincial U13 Basketball gold medal, Provincial Minor Basketball gold medal and silver medal.

Awards

Value

| | |
|---|----------------|
| Excellence Award - Junior - Silver Medal Sponsor: Youth Science Canada | \$300 |
| Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University | \$2 000 |
| Total | \$2 300 |