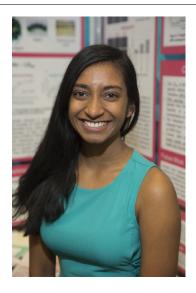




CWSF 2016 - Montreal, Quebec



Viraji Rupasinghe

Comparing the Harmful Effects of Bisphenol S to Bisphenol A

Challenge: Environment Category: Intermediate Chignecto West Region: City: Bible Hill, NS

Youth Science Canada

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School: Cobequid Educational Centre

Abstract: The toxicity of recently introduced bisphenol S (BPS) was compared to

> bisphenol A (BPA). The LD50 of BPS is similar to that of BPA as determined by an acute lethality bioassay using Daphnia Magna. Both BPA and BPS caused DNA damage in cultured human lung epithelial cells. Two

bisphenol analogues (BPP and BPF) were detected when plastics were

exposed to microwave and UV radiation.

Biography

My project, ?Exploring the Harmful Effects of Bisphenol A and S' was inspired by my curiosity of the environmental and health effects plastics and epoxy resins have. I've always been interested in human health and studying how the things we use day to day may be harmful. Recently I've also gained a new interest in environmental issues . I've realized environmental complications can impact our health every closely. I think it is important to investigate both environmental and health concerns to provide a well rounded view on public health concerns. I have ambitious plans to create a natural material out of wastage food products such as nutshells, mussels and coconut shells. I hypothesis that a material 100% made out of these natural products will not negatively effect our health and environment. When you're passionate about something, you cannot let your ideas rest and not extend and improve.

Awards	Value
Excellence Award - Intermediate - Bronze Medal	
Sponsor: Youth Science Canada	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$1 000



