

**Centennial Honors College**  
**Thomas E. Helm Undergraduate Research Day 2024**

**ABSTRACT**

Major: Biochemistry

Poster

Faculty Mentor(s): Brian Bellott

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**Examination of Diazinon Concentration in Locally Purchased Produce**

**Mariela Garces**

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Diazinon was a common insecticide used to control insects on a variety of crops, but its primary purpose is against Lepidopteran pests. Diazinon was banned for residential use in 2004 but is still being produced and used in many states. It is known that even at low levels of exposure diazinon can cause reproductive harm and neurodevelopmental harm. Although use in Illinois is low, significant quantities can still be found in produce sold in stores. This study uses GC-FID to analyze diazinon content in basil and cilantro purchased from two local stores.