Poster Presentation
Tomato and Tobacco Stress Response Communication
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Volatile are a way that plants communicate or form indirect defenses by releasing an “SOS” from a herbivore fed on plant to another plant that can prime it own defenses. These volatiles can even attract predators that can then feed on the herbivore such as a caterpillar. In this experiment we are going to test whether two different plant species tomato plants (*Solanum lycopersicum*) and tobacco plants (*Nicotiana tabacum*) can communicate anti-herbivore defenses between them through airborne or contact through the soil. During this experiment, two plants where placed in a pot together for a two week period. Plants were either planted with a plant of the same species or with the other plant. One of the plants would then be damaged with an artificial cut. Then a microarray analysis and QPCR test was done on each of the plants to identify which genes are being expressed. This will in turn tell us whether plants of opposite species “talk to each other” like plants of the same species may do.