## OFFICIAL ABSTRACT

Title	:				
Stude	ent Name	e:			
Scho	ol Name	and County:			
Abstı	ract (250	and County: word limit):  art of this research project, the student will directly handle, manipulate, or interact with ALL that apply):  Vertebrate animals***  **** Must be 18 or older to participate in Animal Testing per IACUC policy.  Potentially hazardous biological agents  Microorganisms  rDNA  Tissue  roject is a continuation of previous research.			
1.	As a part of this research project, the student will directly handle, manipulate, or interact with (check ALL that apply):				
		Potentially hazardous biological agents			
		Microorganism	IS .		
		rDNA			
		Tissue			
2.	This p	roject is a continu	uation of previous research.		
		Yes	No		
3.	I hereb		abstract and responses to the above statements are correct and properly reflect m		
		Yes	No		

By typing your name in the box above, you acknowledge that the responses in this abstract are accurate and truthful.

## COMPLETING THE ABSTRACT

Abstracts are limited to a maximum of 250 words and must fit within the predefined area. Your abstract should include these key components:

- **1. Scientific question.** Using your reading about the research from one of the Mayo Clinic scientists, identify and formulate a question that you wish to answer.
- **2. Hypothesis.** From your question, you can form a hypothesis, which is something that you expect to be true or not true
- **3. Design experiment(s).** Based on your hypothesis, you can propose one to three experiments to prove or disprove your hypothesis.
- **4. State expected results.** Write what you expect to discover through performing your experiments.
- **5. Impact.** Explain the importance of your discovery.

## SAMPLE ABSTRACT

Researchers in the lab work with a compound called SSI-4, which was invented in that lab. It has been shown to have broad anti-tumor activity against several different cancers. The ability of SSI-4 to inhibit cancer cell growth has been demonstrated in breast, ovarian, prostate, bladder and liver cancers, and melanoma. Thus far, the lab has not examined the effects of SSI-4 in brain cancer, lymphoma, head and neck cancer, uterine cancer, gastric cancer, colon cancer or lung cancer.

**Question:** Does SSI-4 inhibit cell proliferation in lung cancer?

**Hypothesis:** SSI-4 inhibits cell proliferation in lung cancer.

**Experiment(s):** Three lung cancer cell lines will be treated with SSI-4 over three days, and the number of cells will be counted and compared to control untreated cells.

**Expected results**: From data reported in the literature, it is expected that SSI-4 will inhibit cancer cell growth. Also, from data in publications, affected cells are expected to die through a programmed cell death mechanism called apoptosis.

**Impact or importance of my study:** Data may lead to further studies proving that SSI-4 inhibits tumor growth in lung cancer and may lead to a clinical trial in cancer patients diagnosed with lung cancer. This may prove to be an effective treatment for patients diagnosed with lung cancer.