OFFICIAL ABSTRACT and CERTIFICATION

Т	he effects of fungi on varying bacteria	Category Pick one only — mark an "X" in box at right
	raydon Evans	Animal Sciences
	aginaw Arts and Sciences Academy, Saginaw Michigan, United States he pupose of this experiment is to see if different fungi with anitbacterial	Behavioral & Social Sciences
	roperties will affect the growth of different bacteria. This applies to the world of	Biochemistry
lo	nedicine and trying to find new antibiotics that are needed. With new antibiotics a state of diseases can be stopped. This was tested by placing a paper filter in the	Biomedical & Health Sciences
	hiddle of a Petri dish. The Petri dish was swabbed with either E. coli or	Biomedical Engineering
fu	taphylococcus epidermidis. On the filter paper there was a little bit of each of the ingi. When the bacteria is grown is when the results were taken by measuring be zone of inhibiton. The only trials with quantifiable data were with the	Cellular & Molecular Biology
	treptomyces Griseus on E. coli. All the other trials had no visible zone of	Chemistry
in	hibition. My hypothesis was not supported in this experiment. This was because Penicillimum Notatum does not affect gram-negative bacterias like E.coli. The	Computational Biology & Bioinformatics
Staphylococcus Epidermidis was not affected because of a biofilm that is formed while reproducing. This was apparant in the further research done after the		Earth & Environmental Sciences
	xperiment.	Embedded Systems
		Energy: Sustainable Materials and Design
		Engineering Mechanics
		Environmental Engineering
		Materials Science
1.	. As a part of this research project, the student directly handled, manipulated, or interacted with (check ALL that apply):	Mathematics
		Microbiology
	☐ human participants ■ potentially hazardous biological agents	Physics & Astronomy
	□ vertebrate animals ■ microorganisms □ rDNA □ tissue	Plant Sciences
2.	I/we worked or used equipment in a regulated research institution ☐ Yes ■ No	Robotics & Intelligent Machines
	or industrial setting:	Systems Software
3.	This project is a continuation of previous research. ☐ Yes ☐ No	Translational Medical Sciences
4.	My display board includes non-published photographs/visual ☐ Yes ■ No depictions of humans (other than myself):	
5.	This abstract describes only procedures performed by me/us, ■ Yes □ No reflects my/our own independent research, and represents one year's work only	
6.	I/we hereby certify that the abstract and responses to the above statements are correct and properly reflect my/our own work. □ No	/
ar	nis stamp or embossed seal attests that this project is in compliance with all federal and state laws and regulations and that all appropriate reviews and approvals have seen obtained including the final clearance by the Scientific Review Committee.	