

CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s)	Project Number
Tiffany Sae Sato	
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	34555
Project Title	.6
Can Asparagus Decrease the Growth of Saccharomyces/cerevisiae?	
Aberturert	
Objectives/Goals Abstract	
Based on the previous studies, it has shown that cancer cell count or activity is	decreased by the increase
of compounds which contain sulfur. It is also known that asparagus produces su digestion. Thus, it is expected that asparagus will have a significant effect on ca	incer cells and can prevent
cancer cells from growing.	
Methods/Materials Since cancer calls one not modify excitable. See shore reviews correlated in the contract of the contract o	my experiment in lies of
Since cancer cells are not readily available, Saccharomyces cerevisiae is used in cancer cells as S. cerevisiae cells and cancer cells share a typical eukaryotic del	l structure. In addition, S.
l cerevisiae cells are able to reproduce at a fast rate, like cance cell	
In order to observe the change and transformation of S. cerevisiae cells, sparagas asparagus agar plates are prepared. With using liquid medium, the absorbance of measured with a spectrophotometer. From the agar plates, the number of viable	gus liquid medium and
measured with a spectrophotometer. From the agar plates, the number of viable	S. cerevisiae colonies are
counted.	
Results The results from my experiment with the asparages liquid medium had the low	est absorbance compared
The results from my experiment with the asparages liquid medium had the lowest absorbance, compared to my negative and positive control. Also, the results with the asparagus agar plates showed a decrease in	
viable colony counts. Conclusions/Discussion	
The results prove to be incredibly appealing as they clearly showed a decrease in	n activity and viable
colony counts of S. cerevisiae when asparagus is added to the specimen, which leads to the presumption	
The results prove to be incredibly appealing as they clearly showed a decrease in activity and viable colony counts of S. cerevisiae when asparagus is added to the specimen, which leads to the presumption that asparagus can have the effect of preventing the progression of cancer cells. To further this experiment, proteins that are involved in cell wall formation will be examined. Additionally, it will be studied if asparagus can inhibit the expression of the proteins involved in spindle formation during cell division.	
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formation during cen division.	-
Summary Statement	
Asparagus can help the growth of cancer cell activity to decrease.	
Help Received	
Experium Science Academy under the supervision of Raudhah Rahman for her constant support.	