

CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s)	Project Number
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	34493
Project Title	.0
It's a Sweet Tongue, Not a Sweet Tooth: A Correlation between BMI and Papillae	
Abstract	
Objectives/Goals	
I investigated the relationship between body mass index (BMI) and sweet rungi papillae are the bumps on your tongue that give it texture, and this specific kind	form papillae. Fungiform of papillae have taste
buds in them. My hypothesis was that if a person had more sweet function party	pillac, they would have a
higher BMI. This is because the person would get more signals to train from the	weet area of the tongue
that indicate that they like this taste. Methods/Materials	
I performed my experiment on twenty subjects, ten from each gender. The weig confidential. I then applied blue food coloring to the participant#s tongue is illustrated.	tht and height was kept
confidential. I then applied blue food coloring to the particulariths tongue to illupapilla in the sweet area of the tongue. I placed a paper tab with a 1.5 cm diameter.	ter opening on the front
part of the tongue, where the dye was applied. I photographed the participant's t	congue and was easily able
to see the papillae in the photograph after it was magnified on the computer. I the participant's height and weight and used a BMI calculator to find their BMI. I the	nen measured the
participant's neight and weight and used a BMI calculator to find their BMI. I the collected into a graph.	nen input the data i
Results	
The results for my experiment did not show any clear relationship between BMI and papillae. The average male BMI was 20.57 and the average for females was 20.7. The average papillae density for males was	
40.7 and the average for females was 46.6	
Conclusions/Discussion	
My project gave us some important knowledge. From my project, we can concl have any direct effect on the BMI of a person, as their BMI may be affected by	ude that papillae does not several other factors such
as genetics. Participants could have been supertastely as well, which could have amounts of total papillae in every area of the tonger. I think that papillae is more	e given them higher
amounts of total papillae in every area of the tongre. I think that papillae is mor	re directly related to food
preference instead of body mass.	
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Summary Statement	
My project is about hiding a correlation between body mass index and sweet for	ingiform papillae.
Help Received	
My parents supplied me with some equipment for the project.	