

CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

Name(s) **Project Number** Nishtha K. Mistry 36471 **Project Title** An Eggsperiment: What Is the Best Egg Substitute in Baking? **Abstract Objectives/Goals** I tested which natural egg substitute best mimicked the binding, thickening, and properties of eggs in baking. Methods/Materials Four variables were compared to the control (eggs); blended silken tofu, applesance, flax seed, and aquafaba. Each ingredient was used as a substitute for eggs in a compared for each egg substitute used.

The different texture, height, and binding were observed and compared for each egg substitute used. **Results** Analyzing all the data collected, the results clearly showed to be the best egg substitute in baking. It best mimicked the binding, height, and texture when baking with eggs. For example, aquafaba had the same exact height of 3.5 centimeters as the cupcake made with **Conclusions/Discussion** My original hypothesis, that silken tofu would be the lest egg substitute, proved to be incorrect. Aquafaba resulted as the best egg substitute that mimics the binding height) exture, and batter consistency when baking with eggs. To support today's new healthy lifestyle, this experiment shows that there are other natural ingredients that can be substituted in your revorite recipes. **Summary Statement** ated that there are various natural ingredients that can be utilized as an egg substitute in bakir Help Received None. I performed all aspects of the experiment by myself, but was supervised by a parental guardian while working with some baking appliances.