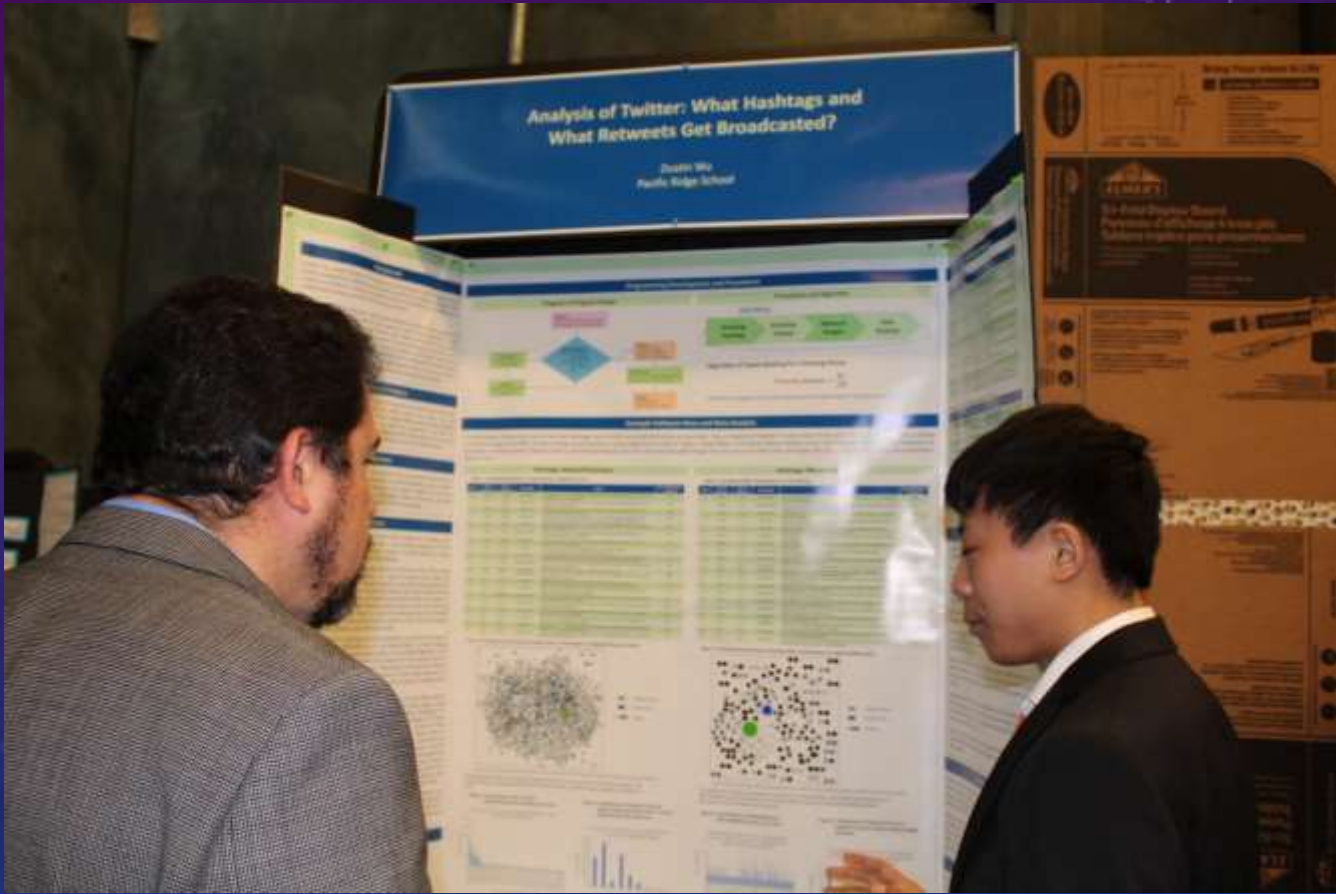


2018 GSDSEF Photos of Judging Day



Special Acknowledgements







It Is Never Too Late!

Abstract

Purpose

Photos

Mechanism of Cancer

Hypothesis

Measurements

Data

Stat

COORDIN
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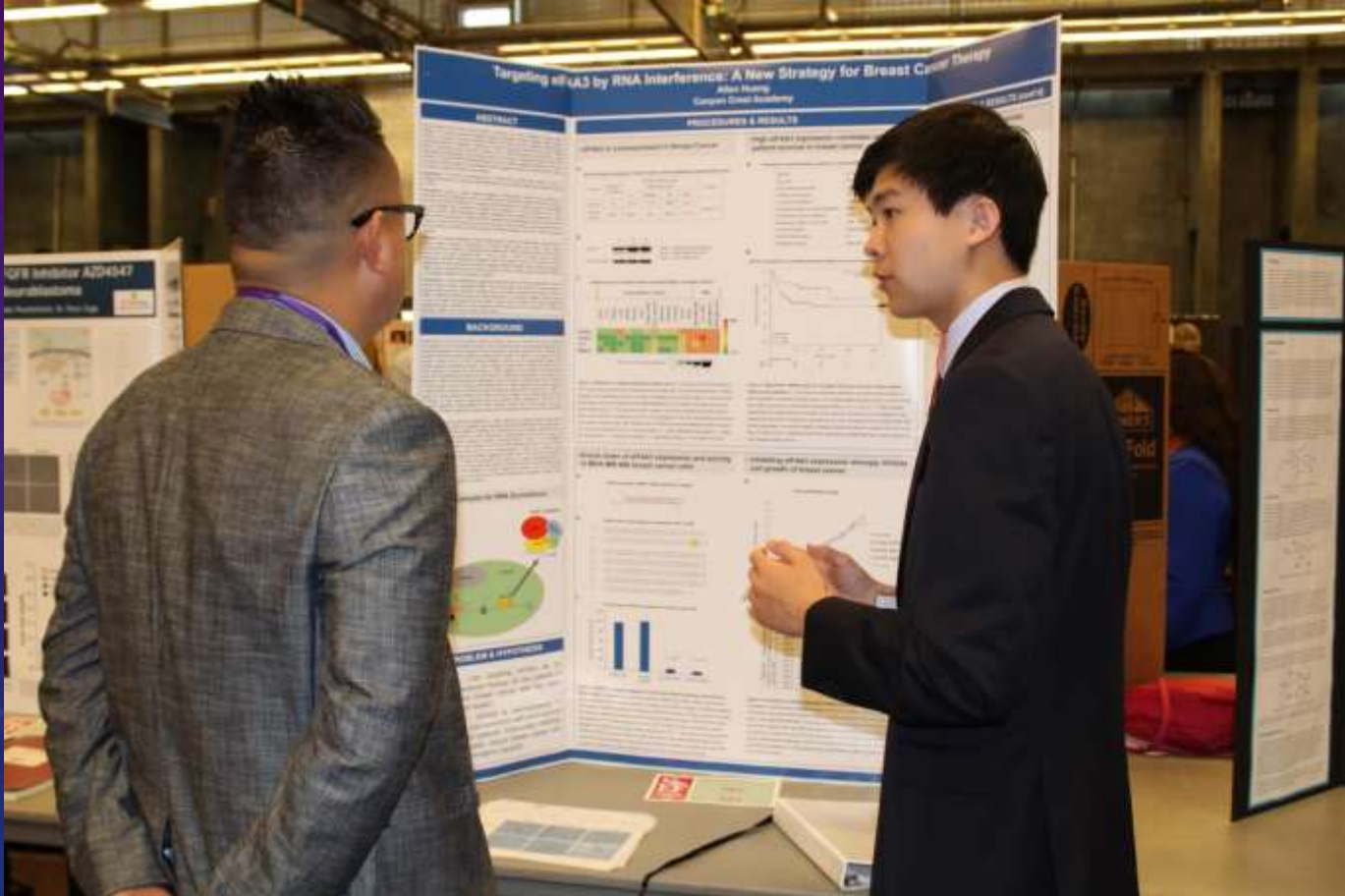


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A Study of Ointment-Based Asthma Treatment

Using ointments in the delivery of asthma drugs in order to increase convenience and effectiveness

INTRODUCTION

Asthma is a chronic respiratory condition that affects millions of people worldwide. It is characterized by inflammation and narrowing of the airways, leading to symptoms such as wheezing, coughing, and shortness of breath. Current treatments for asthma include inhaled corticosteroids and long-acting beta2-agonists. However, these treatments can be inconvenient and difficult to use, especially for children and the elderly. Ointment-based treatments offer a potential alternative, as they are easy to apply and can be used at any time of day.

EXPERIMENT DESIGN

The experiment was designed to compare the effectiveness of an ointment-based asthma treatment to a standard inhaled treatment. The study involved 50 participants, 25 in the ointment group and 25 in the inhaled group. The participants were randomly assigned to one of the two groups. The ointment group used a topical ointment containing a corticosteroid and a long-acting beta2-agonist. The inhaled group used a standard inhaled corticosteroid and long-acting beta2-agonist. The participants were monitored for symptoms and lung function over a period of 12 weeks.

PROCEDURES

The procedures for the experiment were as follows: 1. Recruitment of participants: 50 participants were recruited from a local community center. 2. Randomization: The participants were randomly assigned to one of the two groups. 3. Baseline measurements: Lung function and symptoms were measured at the beginning of the study. 4. Treatment: The ointment group used the ointment twice daily, and the inhaled group used the inhaled treatment twice daily. 5. Monitoring: The participants were monitored for symptoms and lung function over a period of 12 weeks. 6. Data collection: Data on symptoms and lung function were collected at the beginning and end of the study.

RESULTS



CONCLUSION

The results of the study demonstrate that the ointment-based asthma treatment is as effective as the standard inhaled treatment. The ointment-based treatment is a convenient and easy-to-use alternative to inhaled treatments, and it may be particularly beneficial for children and the elderly. Further research is needed to confirm these findings and to explore the potential of ointment-based treatments for other respiratory conditions.





Special Appreciation and Acknowledgement to the

San Diego Air & Space Museum

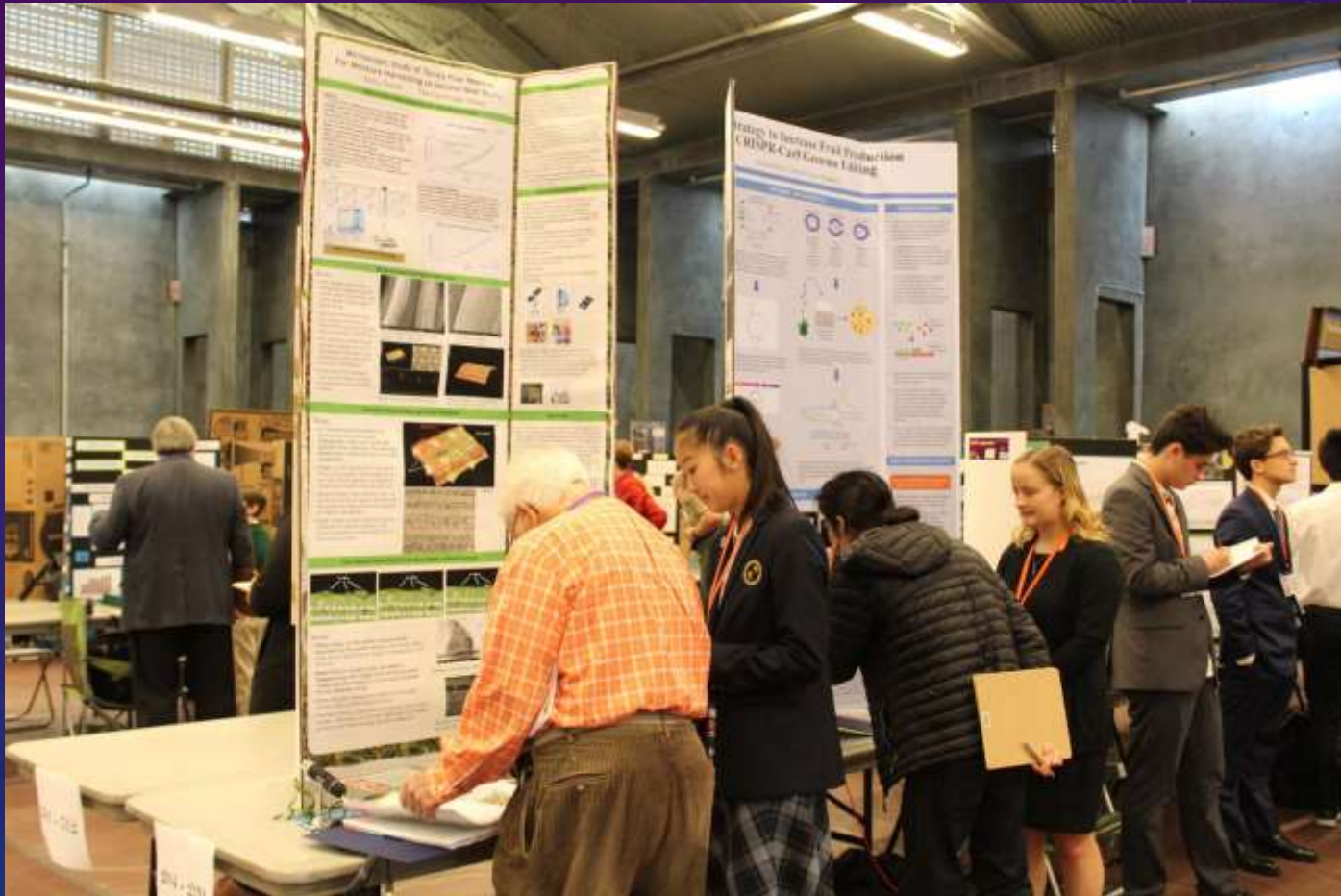


Balboa Park Activity Center



City of San Diego Parks and Receptions









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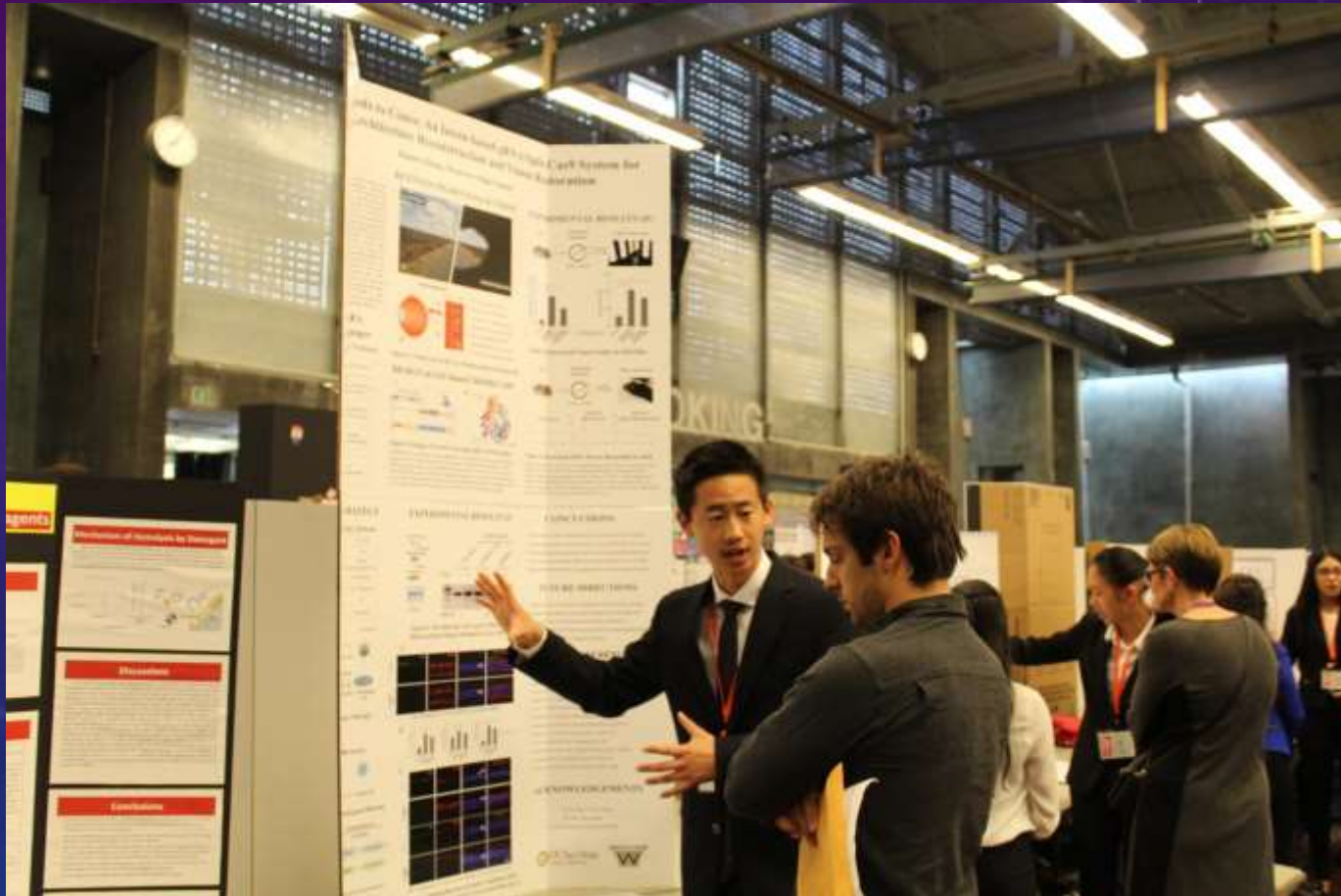


ISEF: Intel International Science and Engineering Fair



Broadcom Masters









Special Thanks and Gratitude to the...

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30 Screeners



60 Professional Societies



100 Volunteers



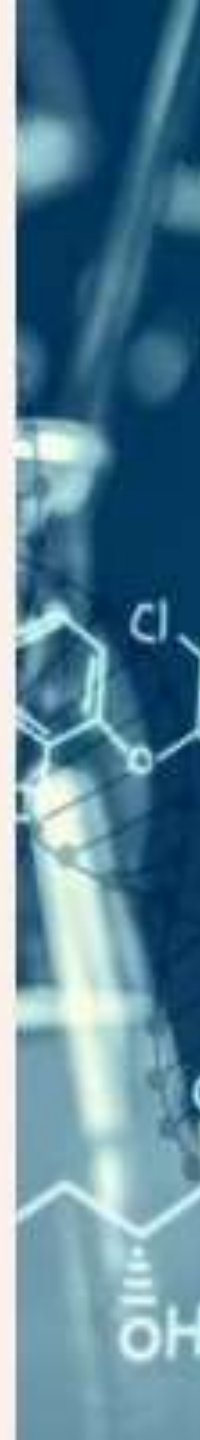
170 Teachers/Advisors

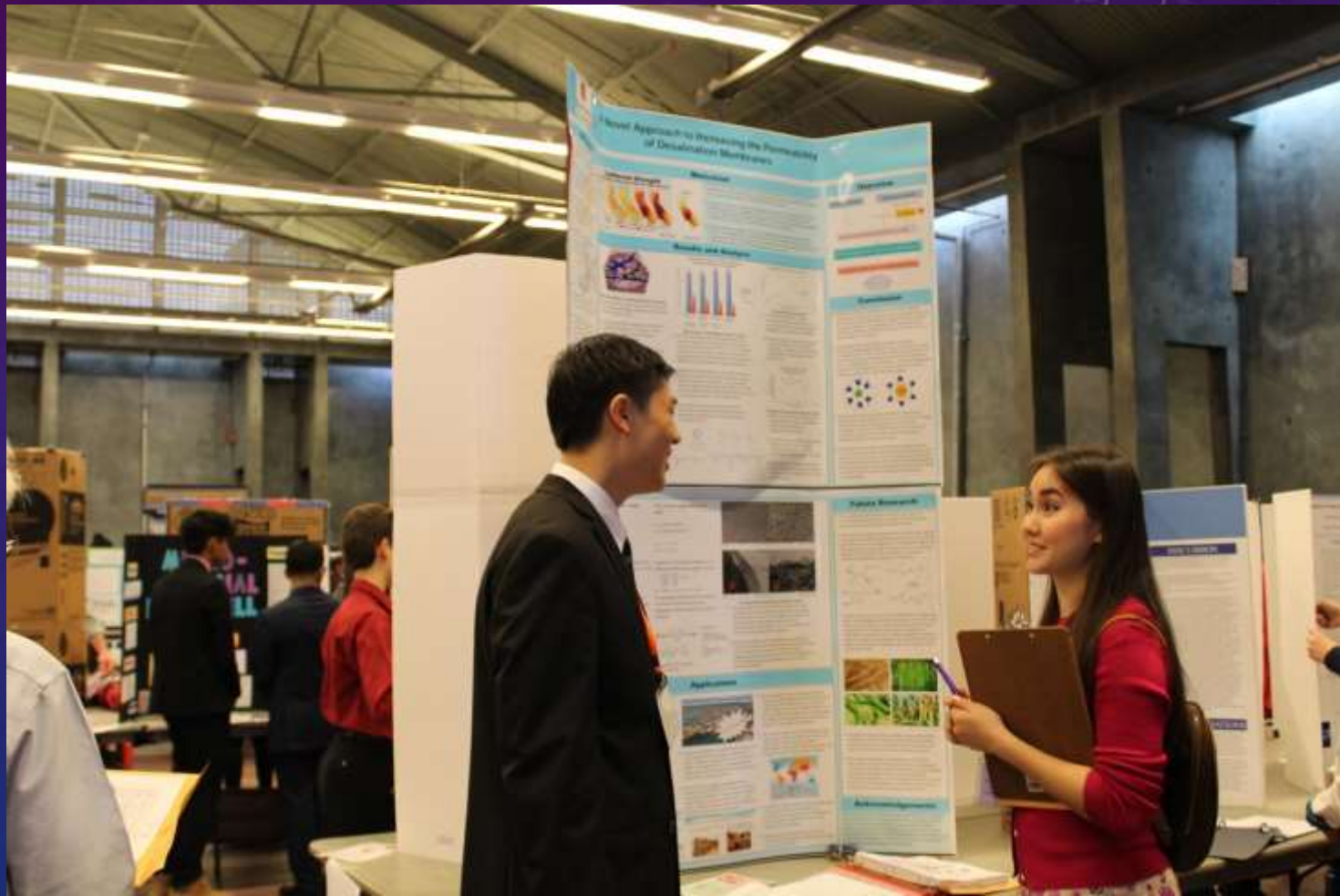


Many Parents



and most of all – our 600 Student Exhibitors!











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**Balboa Park
Activity Center**







