

**Ridhima Chadha**  
SEM-Science and  
Engineering Magnet School

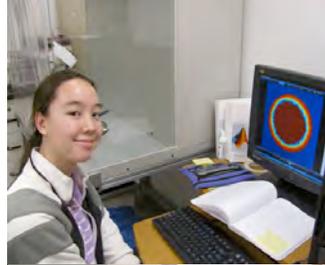
Host:  
**Jenny Hsieh, Ph.D.**  
Molecular Biology



NRSF Expression in the  
Adult Dentate Gyrus

**Hannah Dotson**  
*Carroll High School*

Host:  
**Vikram Kodibagkar, Ph.D.**  
Radiology



Simulating Steady-State  
Diffusion of Oxygen USING a  
Krogh's Cylinder Model

**Michael Franco**  
*Jesuit Preparatory School*

Host:  
**Adrian Rothenfluh, Ph.D.**  
Psychiatry



To test Whether Genes in  
the Integrin Pathway  
Modifies the Wing Blister  
and the Ethanol Induced  
Phenotypes of Rsu1 flies

**Kristian Garciamendez-Rowold**  
*Jesuit Preparatory School*

Host:  
**Jonathan Graff, M.D., Ph.D.**  
Developmental Biology



To Mimic the Obesity  
Epidemic Found in Humans  
with Fruit Flies

**Greer Gardner**  
*W.T. White High School*

Host:  
**Christian Forst, Ph.D.**  
Clinical Sciences



Pathways Involved in the  
INfluenza Virus Life Cycle

**Xochil Guerrero**  
Peak Advantage  
Preparatory High School

Host:  
**Colleen A. McClung, Ph.D.**  
Psychiatry



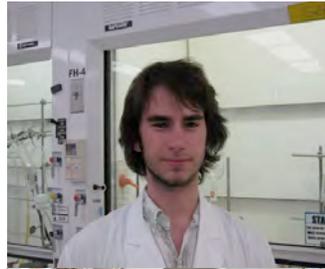
Circadian rhythms and  
genes that make up the  
molecular clock in  
psychiatric disorders

**J.T. Hansen**

Booker T. Washington High  
School for Performing and  
Visual Arts

Host:

**Xiankai Sun, Ph.D.**  
Radiology



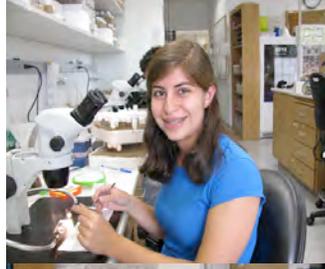
Synthesis and Application of  
Bifunctional Chelator

**Ana Harris**

Woodrow Wilson High  
School

Host:

**Michael Buszczak, Ph.D.**  
Molecular Biology



Analyzing the Expression  
Pattern of Rab Genes in the  
Drosophila Ovaries

**Marquis Harris**

Desoto High School

Host:

**Anil Agarwal, Ph.D.**  
Internal Medicine



Lentiviral Expression of  
Proteins

**Da Huang**

Highland Park High School

Host:

**Pranavi Sreeramoju, M.D.**  
Internal Medicine



Evaluation of Post-  
Operative Clinical Factors  
with Development of  
Surgical Site Infection

**Danielle Huerta**

W.H. Adamson High School

Host:

**Shawn McClintock, Ph.D.**  
Psychiatry



Translational  
Neurocognitive Test  
Development: Associations  
Between Non-Human and  
Human Cognitive Measures

**Rebeca Hurtado**

Irma Rangel  
Young Women's Leadership  
High School

Host:

**Kathlynn Brown, Ph.D.**  
Internal Medicine



Peptides in Lung Cancer  
Treatment

**Sherin John**  
*North Hills Preparatory  
School*

Host:  
**Sherwood Brown, M.D., Ph.D.**  
Psychiatry



Homocysteine and  
Depression

**Haley Johnson**  
*Townview Health  
Professions High School*

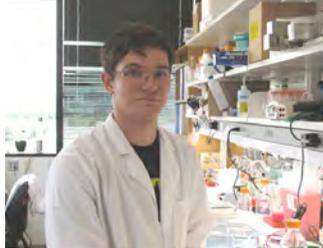
Host:  
**Che Xu, Ph.D.**  
Otolaryngology



The Immune Response of a  
Rabbit to a Bovine Acellular  
Scaffold

**Aaron Key**  
*Saginaw High School*

Host:  
**Nicolas Conrad, Ph.D.**  
Immunology



Kaposi's Sarcoma  
Associated Herpes Virus:  
Cellular Localization of  
ORF57

**Christian Leal**  
*Trinity High School*

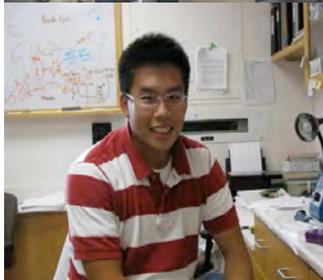
Host:  
**Felix Yarovinsky, Ph.D.**  
Microbiology



The Signaling Pathway of  
Toll Like Receptor 11

**Ross Liao**  
*Trinity High School*

Host:  
**Ganesh V. Raj, M.D., Ph.D.**  
Urology



The Crosstalk Between  
Glucocorticoid Receptor and  
Androgen Receptor in  
Prostate Cancer Cells

**Jessica Long**  
*Sam Houston High School*

Host:  
**Rolf Brekken, Ph.D.**  
Surgery



Anti-VEGF Therapy in a  
Transgenic Mouse Model of  
Pancreatic Ductal  
Adenocarcinoma

**Bao Nguyen**  
*Haltom High School*

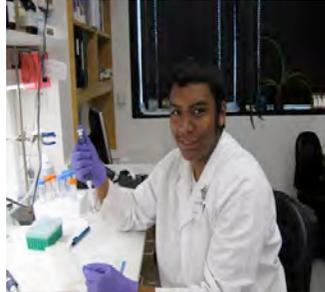
Host:  
**Chuo Chen, Ph.D.**  
Biochemistry



Synthesis of IWP (Inhibitors of Wnt Production)

**Kevin Prado**  
*Moises E. Molina High School*

Host:  
**Diana Tomchick, Ph.D.**  
Biochemistry



Purification and Crystallization of a Spirochetal Lipoprotein Complex

**Yesenia Reyes**  
SEM-Science and Engineering Magnet School

Host:  
**Michelle Tallquist, Ph.D.**  
Molecular Biology



The Role of Transcriptional Factor Snail/Slug in Epithelial Mesenchymal Transition

**Alma Rodriguez**  
*Williams Preparatory School*

Host:  
**Joel Goodman, Ph.D.**  
Pharmacology



Seipin's Absence in Relation to Lipid Droplet Morphology

**Brandy Sapp**  
*Dunbar High School*

Host:  
**Robert Bachoo, M.D., Ph.D.**  
Neurology



Nero-Oncology Research: Genotyping and Characterizing of GBM Mouse Model

**Maggie Scribner**  
*Fossil Ridge High School*

Host:  
**Steve Vernino, M.D., Ph.D.**  
Neurology



Pupillometry: To Measure Pupil Functions for the Purpose of Assessing Autonomic Disorders

The future of medicine, today.

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Medical Center

2010

STARS Summer Research Program for Students

**Yeamie Smartt-Nalli** *Wylie High School*

Host:

**Dominika Borek, Ph.D.**  
Biochemistry

**Nga Tran**

*Skyline High School*

Host:

**Chun-Li Zhang, Ph.D.**  
Molecular Biology



Protein STM0988, the kdsB of *Salmonella typhimurium* LT2



The Investigation of Novel Genes and Their Implications in Neurogenesis

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## STARS Associates

**Sarah Alexander**

*The Hockaday  
School*

Hosted by  
**Yuh Min Chook, Ph.D.**  
Pharmacology



Which Nuclear Export  
Signals Does CRM1  
Bind?

**Neha Gangasani**

*The Hockaday  
School*

Hosted by  
**Kim Orth, Ph.D.**  
Molecular Biology



VopL Localization with  
the use of split GFP

**Malina Patel**  
Williams High  
School/TAMS

Hosted by  
**David Boothman,  
Ph.D.**  
Simmons  
Comprehensive  
Cancer Center



Deoxyxyboquinone  
(DNQ): A NQO1  
Mediated  
Chemotherapy for  
Human Cancers?