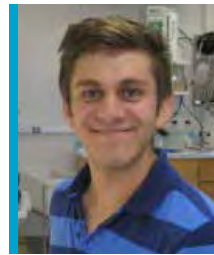




**Dagem Adera**  
**Harmony Science Academy**

Host: Denise Marciano, M.D., Ph.D.

Role of p120 Catenin in  
Regulating Glis2 Function



**Andrew Bazley**  
**Booker T. Washington HSPVA**

Host: Jenny Hsieh, Ph.D.

Purinergic Signaling in Isoxazole  
Driven Neurogenesis



**Ivette Alvarez**  
**Peak Preparatory High School**

Host: Rana Gupta, Ph.D.

Molecular Determinants of  
Brown and White Adipocyte  
Development



**Susy Briones**  
**Williams Preparatory**

Host: Ivan D'Orso, Ph.D.

Cancer-Related Mutations  
in PPM1G Lead to Loss of  
Phosphatase Function



**Olatunde Badejo**  
**North Garland High School**

Host: Michael Shiloh, M.D., Ph.D.

Discovering Peptide Sequences  
for Use in a Mimotope Vaccine



**Kevin Chow**  
**Coppell High School**

Host: Ezra Burnstein, M.D.

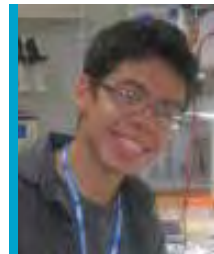
Generation of Antibody Against  
Deubiquitinase USP21



**Emily Barnes**  
**Episcopal School of Dallas**

Host: Dean Smith, M.D., Ph.D.

Abnormal Courtship Behavior  
in Male Fruit Flies Lacking  
Odorant Receptors Or65abc



**Emanuel Cortes**  
**School for the Talented and  
Gifted at Yvonne A. Ewell  
Townview Center**

Host: Shawn Burgess, Ph.D.

Inducing Oxidative Stress in  
Nicotinamide Nucleotide  
Transhydrogenase-Enzymatic  
Deficient C57BL/6 Mice



**Yesenia Barrios**  
**Saginaw High School**

Host: Zhi-Ping Liu, Ph.D.

The Histone Demethylase  
JMJD2B is Required for Prolif-  
eration and Anchorage-Indepen-  
dent Growth of Prostate Cancer



**James Ding**  
**Flower Mound High School**

Host: Jennifer Kohler, Ph.D.

Optimization of the Expression and Purification of Recombinant CTxB



**Juan Galindo**  
**Summit International Preparatory**

Host: Xiaoying Bai, M.D., Ph.D.

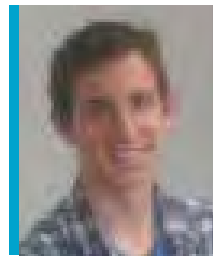
A Chemical Screen to Study TIF1gamma Function in Zebrafish Hematopoiesis



**Felonie Doss**  
**Trinidad Garza Eearly College High School**

Host: Ann Stowe, Ph.D.

Detraining Minimizes the Protective Influence of Exercise on the Adaptive Immune Mechanisms



**Joseph Giroux**  
**Bryan Adams High School**

Host: Fan Gao, Ph.D.

Development of a Computer-Controlled Motorized Device



**Julian Escamilla**  
**Desoto High School**

Host: Sandeep Burma, Ph.D.

CDK Inhibition Increases Sensitivity to PARP Inhibitor in BRCA1-Deficient Cancer Cells



**Samya Isa**  
**Plano East High School**

Host: Lind Baker, M.D.

A Novel Familial Prune Belly Syndrome FLNA Mutation Results in Enhanced  $\beta$ -integrin Binding



**Cecilia Esquivel**  
**School for the Talented and Gifted at Yvonne A. Ewell Townview Center**

Host: Helmut Kramer, Ph.D.

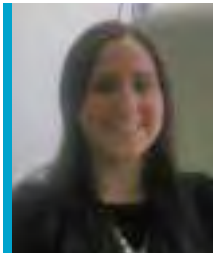
A Genetic Screen for Dominant Suppressors of Drosophila Acinus



**Jorge Jaimes**  
**W.H. Adamson High School**

Host: Joel Goodman, Ph.D.

How Deletion Mutants of Seipin Affect its Localization and Phenotype



**Sofia Joison**

**J.J. Pearce High School**

Host: Ian Corbin, Ph.D.

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Albumin Secretion in Primary Hepatocytes and Liver Cell Lines



**Cecilia Serrano**

**John A. Dubiski Career High School**

Host: Vitaly Margulis, M.D.

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Methylation-Sensitive High Resolution Melt in the Study of the E-Cadherin Promoter



**Erik Lamas**

**W. T. White High School**

Host: Michael Buszczak, Ph.D.

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Screening of Ovaries in Female Drosophila Melanogaster with Gene Insertions



**Carolynn Van Zandt**

**Waxahachie High School**

Host: Benjamin Chen, Ph.D.

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Characteristics of DNA Repair Function in a Variety of Mouse Embryonic Fibroblasts



**Lucy Lin**

**Lamar High School**

Host: Matthew Lewis, Ph.D.

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Initial Experiences with the Verasonics Ultrasound Research Platform



**Rachana Vemireddy**

**Plano East High School**

Host: David Boothman, Ph.D.

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Tumor-specific Targeting of the NAD<sup>+</sup> Biosynthetic Pathway by Combining  $\beta$ -Lapachone with NamPT inhibitors



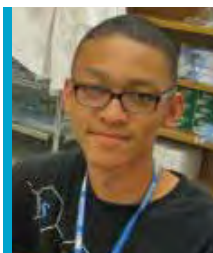
**Christy Purnadi**

**R.L. Turner High School**

Host: Ming-Chang Hu, M.D., Ph.D.

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Characterization of Dox Nephrotoxicity in Mice



**Wesley Runnels**

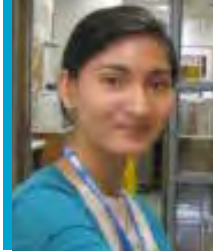
**School of Science and Engineering Magnet**

Host: Genevieve Konopka, Ph.D.

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Transcriptional Networks Regulated by FOXP1

## STARS Associates



**Sarah Ahmed**  
Plano East Senior High School

Host: Thomas Carroll, Ph.D.

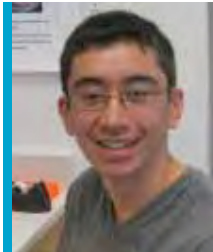
Debunking the Myths Behind WNT Signaling: Universal Beta Catenin Target Does Not Exist



**Mary Clare Beytagh**  
The Hockaday School

Host: Kathryn O'Donnell, Ph.D.

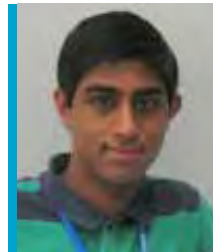
A "Sleeping Beauty" Mutagenesis Screen to Identify and Validate Novel Genes and Pathways Driving Lymphomagenesis



**Dylan Altschuler**  
St. Mark's School of Texas

Host: Robin Hiesinger, Ph.D.

The "Lattice Shift Model" of Neural Superposition in the Drosophila Eye



**Aarohan Burma**  
St. Mark's School of Texas

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

Analysis of Temozolomide Resistance in Glioblastoma



**Mason Amelotte**  
Jesuit College Preparatory School of Dallas

Host: Deborah Clegg, Ph.D.

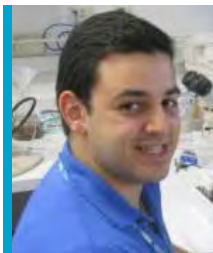
Novel Findings Implicate Inverse Relationship Between MT-3 and ER $\alpha$



**Jonah Donnenfield**  
Highland Park High School

Host: Joseph Takahashi, Ph.D.

Phenotypic Characterization of Mice Heterozygous for a Novel ENU-Induced Mutation in Melanocortin-4 Receptor



**Patrick Arraj**  
Jesuit College Preparatory School of Dallas

Host: Jin Jiang, Ph.D.

A Kinome-Wide RNAi Screen for Regulators of Intestinal Stem Cell Proliferation and Regeneration

## STARS Associates



**Angela Hillsman**  
Greenhill School

Host: Doris Lambracht-Washington, Ph.D.

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Establishment of an Assay to Test for the Cytotoxicity of Amyloid Beta Peptides and the Potential Neuroprotective Effects of A $\beta$  Antibodies



**John Rivera**  
Greenhill School

Host: Christopher Derderian, M.D.

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Adipose Derived Stromal Vascular Cells Delay the Onset of Radiation-Induced Skin Injury



**Trevor Johnson**  
Jesuit College Preparatory School of Dallas

Host: Dwight German, Ph.D.

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Do Pediatric Infant Vaccines Affect Brain Structure?



**Amy Tao**  
The Hockaday School

Host: Kim Orth, Ph.D.

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Vibrio Parahaemolyticus's VopQ Interacts with the Host Lysosomal Membrane, Disturbing Cellular Homeostasis

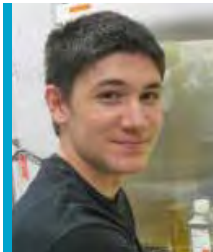


**Alexis Jones**  
The Hockaday School

Host: Yuh Min Chook, Ph.D.

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Deciphering the Hexapeptide Mutations of hnRNPs in ALS



**Traian Pop**  
School for the Talented and Gifted at Yvonne A. Ewell Townview Center

Host: Rolf Brekken, Ph.D.

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Generation of PS-Negative Tumor-Derived Exosomes