



Lydia Ademuwagun
South Grand Prairie High School

Host: Hasan Zaki, Ph.D.

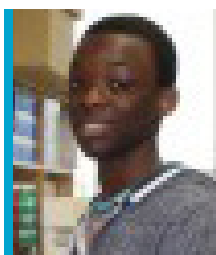
The Role of Cytosolic DNA Sensor AIM2 in Host Defense Against Colitis



Sophie Druffner
John Paul II High School

Host: Zhi-Ping Liu, Ph.D.

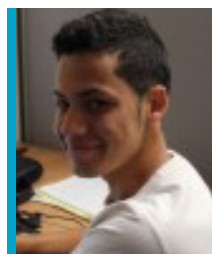
Investigating F-Arg 1 in Mouse Model of Myocardial Infarction



Irvin Akinseye
Frisco High School

Host: Dominika Borek, Ph.D.

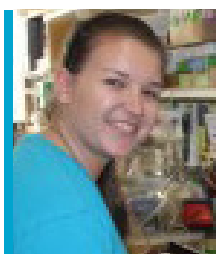
Quantitative PCR Studies of Mitochondrial Copy Number



Alan Estrada
School of Science and Engineering Magnet

Host: Tae Hyun Hwang, Ph.D.

Prediction of AML Patient Remission or Resistance to Chemotherapy Using Machine Learning Techniques



Madalyn Barnett
Richardson High School

Host: Helmut Kramer, Ph.D.

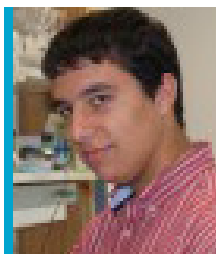
Testing the Possible Link Between Drosophila Acinus and Polyamine Synthesis



Sonia Gonzales
Irma Rangel Young Women's Leadership School

Host: Jonathan Graff, M.D., Ph.D.

Screening for Appetite Regulators in Drosophila Larvae



Gregory Blazek
Coppell High School

Host: Nicolai van Oers, Ph.D.

Isolating and Creating Novel Mycobacteriophages to Combat Multi-drug Resistant Tuberculosis



Andrew Kavaz
Woodrow Wilson High School

Host: Matt Petroll, Ph.D.

Multi-Dimensional Imaging of Corneal Fibroblast Mechanical Activity in 3-D Culture



Yentl Dinsay
Uplift Summit International Preparatory

Host: Jer-Tsong Hsieh, Ph.D.

Exploring New Drug Treatments for Renal Cancer Therapy. The Effects of CYD Treatment on p21 Gene Expression

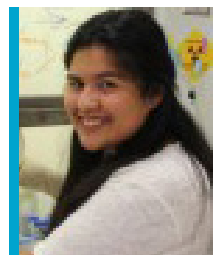


Mah-ro Khan

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

Host: Michael Buszczak, Ph.D.

Suppressor Screening for Genes Involved in Ribosomal Biogenesis

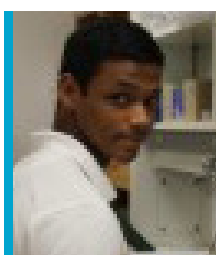


Claudia Mendoza

School of Health Professions at Yvonne A. Ewell Townview Center

Host: Dwight German, Ph.D.

A Serum Antibody Biomarker for Autism Spectrum Disorders



Ashwin Leo

Texas Academy of Math and Science

Host: Qing Zhong, M.D., Ph.D.

Gleevec Drug Causes Accumulation of LC3-II and p62 proteins in Autophagy Complex



Abigail Mills

Amare Classical Home School

Host: Benjamin PC Chen, Ph.D.

PIP motif of DNA-PKcs Required for Replication Stress Response

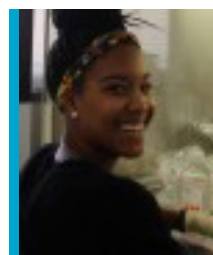


Jim Liu

Grapevine High School

Host: Shawn Burgess, Ph.D.

Effect of Metformin on Hepatic Glucose Production and Oxygen Consumption



Sam Moon

Booker T. Washington High School for the Performing and Visual Arts

Host: Gomika Udugamasooriya, Ph.D.

Comparison of Heterodimeric, Cancer-Specific Peptoids Based on Target Expression, Binding, and Activity



Vidur Malhotra

Marcus High School

Host: Avneesh Chhabra, M.D.

3D Joint Modeling Using 3 Tesla and 3D MRI



Bilal Mukadam

Brighter Horizons Academy

Host: Carla Green, Ph.D.

Elucidating the Role of Nocturnin in Cholesterol Metabolism



Marvin Paz
Richland High School

Host: Xin Liu, Ph.D.

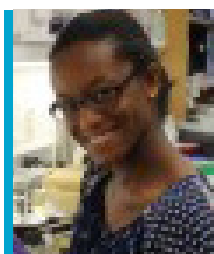
Tagging of Essential Yeast Genes
to Study Gene Looping



Melanie Shi
Flower Mound High School

Host: Diana Tomchick, Ph.D.

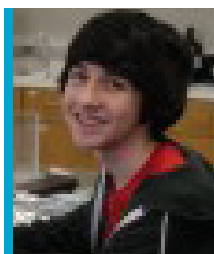
Buffer Conditions Optimized
for Thermal Stability Improve
Protein Crystallizability



Lauren Thornton
Timberview High School

Host: Joel Goodman, Ph.D.

Study of Amino Acids in the
Amino Terminus of Seipin

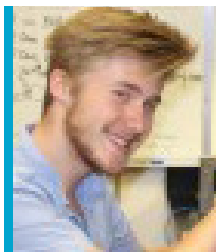


Quinn Torres
**School of Science and
Engineering Magnet**

Host: Rajiv Chopra, Ph.D.

Quantifying Image Distortion
in Magnetic Resonance Imaging
(MRI)

STARS Associates



Zach Bishkin
Jesuit College Preparatory
School of Dallas

Host: Qinghua Liu, Ph.D.

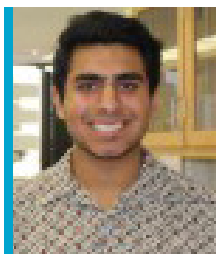
HP1BP3 and H1B Purification
and Binding



Jayant Madugula
Greenhill School

Host: Genevieve Konopka, Ph.D.

Using Ultrasonic Vocalizations
to Investigate the Role of Foxp1
in Language Development



Harris Chowdhary
Greenhill School

Host: Matthew Lewis, Ph.D.

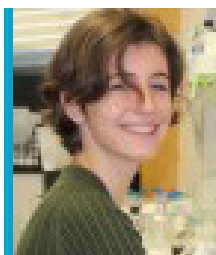
Evaluation of Laponite XLG for
Ultrasonic Gels and Phantoms



Christine Ramjee
Highland Park High School

Host: James Amatruda, M.D., Ph.D.

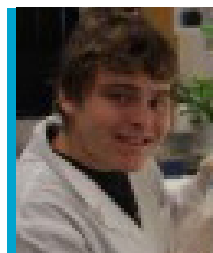
Using Zebrafish to Model the
Effects of Dereglated FGF
Signaling on Germ Cell Tumors



Stejara Dinulescu
The Hockaday School

Host: Tony Michael, Ph.D.

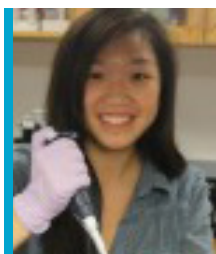
Analysis of Polyamine Metabo-
lism in Diverse α -proteobacteria



Alexander Ravnik
School for the Talented and
Gifted at Yvonne A. Ewell
Townview Center

Host: Youxing Jiang, Ph.D.

Expression and Purification
of NaK2K and hERG Chimera
Channels in Escherichia coli



Courtney Le
The Hockaday School

Host: Jennifer Kohler, Ph.D.

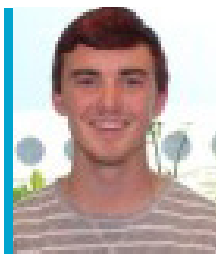
In-Vitro Production of
Diazirine-Modified O-GlcNAc
(O-GlcNDAz) to Study
Sugar-Protein Interactions



Yaressy Raymundo
The Hockaday School

Host: Kim Orth, Ph.D.

Intracellular Vibrio Parahae-
molyticus Evades Autophagy:
Preliminary Studies

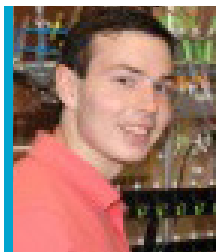


Evan Loriot
Jesuit College Preparatory
School of Dallas

Host: Saikat Mukhopadhyay, M.D., Ph.D.

The Purinergic G-protein Cou-
pled Receptor (GPCR) P2YR1
Localizes to the Primary Cilium

STARS Associates

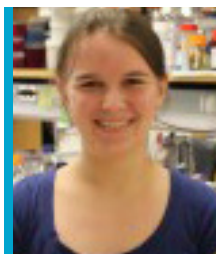


Dylan Roberts

**Jesuit College Preparatory
School of Dallas**

Host: Julian Meeks, Ph.D.

Neural Cell Function in Mouse
Accessory Olfactory Bulb



Megan Vernino

Ursuline Academy

Host: Deepak Nijhawan, M.D., Ph.D.

Determining the Importance
of CYP4F11 in the Metabolism
of SW208108 in H2122 Lung
Cancer Cells



Jesse Zhang

Allen High School

Host: Jenny Hsieh, Ph.D.

Use of Crispr-Cas9 System in
Study of REST Mediated
Regulation of Adult Hippocam-
pal Neural Stem Cells