Lydia Ademuwagun  
South Grand Prairie High School  
Host: Hasan Zaki, Ph.D.  
The Role of Cytosolic DNA Sensor AIM2 in Host Defense Against Colitis

Irvin Akinseye  
Frisco High School  
Host: Dominika Borek, Ph.D.  
Quantitative PCR Studies of Mitochondrial Copy Number

Madalyn Barnett  
Richardson High School  
Host: Helmut Kramer, Ph.D.  
Testing the Possible Link Between Drosophila Acinus and Polyamine Synthesis

Gregory Blazek  
Coppell High School  
Host: Nicolai van Oers, Ph.D.  
Isolating and Creating Novel Mycobacteriophages to Combat Multi-drug Resistant Tuberculosis

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

Sophie Druffner  
John Paul II High School  
Host: Zhi-Ping Liu, Ph.D.  
Investigating F-Arg 1 in Mouse Model of Myocardial Infarction

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

Sonia Gonzales  
Irma Rangel Young Women’s Leadership School  
Host: Jonathan Graff, M.D., Ph.D.  
Screening for Appetite Regulators in Drosophila Larvae

Andrew Kavas  
Woodrow Wilson High School  
Host: Matt Petroll, Ph.D.  
Multi-Dimensional Imaging of Corneal Fibroblast Mechanical Activity in 3-D Culture
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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

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

Jim Liu
Grapevine High School
Host: Shawn Burgess, Ph.D.
Effect of Metformin on Hepatic Glucose Production and Oxygen Consumption

Vidur Malhotra
Marcus High School
Host: Aneesh Chhabra, M.D.
3D Joint Modeling Using 3 Tesla and 3D MRI

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

Abigail Mills
Amare Classical Home School
Host: Benjamin PC Chen, Ph.D.
PIP motif of DNA-PKcs Required for Replication Stress Response

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

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)
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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 Deregulated FGF Signaling on Germ Cell Tumors

Stejara Dinulescu
The Hockaday School
Host: Tony Michael, Ph.D.
Analysis of Polyamine Metabolism 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 Parahemolyticus Evades Autophagy: Preliminary Studies

Evan Loriot
Jesuit College Preparatory School of Dallas
Host: Saikat Mukhopadhyay, M.D., Ph.D.
The Purinergic G-protein Coupled Receptor (GPCR) P2YR1 Localizes to the Primary Cilium
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**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 Hippocampal Neural Stem Cells