



The STARS Summer Research Program gives science teachers and students an opportunity to work in a research environment. During the summer of 2011, 16 secondary science teachers from around the state of Texas, 35 high school juniors from Dallas-Fort Worth, and one Eastfield College student participated in an eight-week summer internship working in research laboratories on the UT Southwestern campus and affiliated institutions. Under the guidance of a faculty host, participants completed a research project and presented their findings.

2011 STARS Student Alumni

Name	School	Host	Project Title
------	--------	------	---------------

Eastfield College

Cecillia Vargas	Eastfield Community College	Yihong Wan, PhD, Pharmacology	Activation of Beta-catenin in the Suppression of Breast Tumor Bone Metastasis
-----------------	-----------------------------	----------------------------------	-------------------------------------------------------------------------------------

High School Students

Rajiv Alluri	Colleyville Heritage High School	James Brugarolas, MD, PhD, Internal Medicine	Investigating the Mechanism of Sunitinib Resistance in Renal Cell Carcinoma
Alexis Ayanru	Bishop Dunne Catholic School	Ann Stowe, PhD, Neurology	Stroke Recovery: High-Low Training
Jericka Battle	DeSoto High School	Shushen Wang, PhD, Psychiatry	Development of a New Aortic Ring Assay for Studying Angiogenesis
Indu Bedi	Coppell High School	Andrew Pieper, MD, PhD, Psychiatry	Discovery of a New Therapeutic Strategy for Huntington's Disease
Camille Brewer	Booker T. Washington High School for Performing and Visual Arts	Connie Hsia, MD Internal Medicine	Adaptation of Lung Structure in Fatty Diabetic Rats Exposed to Hypoxia
Adrian Bustos	Townview Magnet-Talented and Gifted (TAG)	Chuo Chen, PhD Biochemistry	Construction of HDAC Inhibitors
Alex Castaneda	T. Garza Early College High School	Xiankai Sun, PhD Radiology	Selection of GLP-1 Analogs for Pan- creatic Beta Cell Imaging: ompeti- tive GLP-1R
Jonathan Chen	Hebron School	Deborah Clegg, PhD Internal Medicine	Microarray Analysis of Adipocyte ERalpha Knockout Mice

Name	School	Host	Project Title
Oscar Contreras	Townview Magnet Center-Business	Dominika Borek, PhD Biochemistry	The Structure of Protein IDP90521 and APC85865
Delaney Finn	Woodrow Wilson High School	Kathlynn Brown, PhD Internal Medicine	Identification of the Minimal Binding Domain of a Non Small Cell Lung Cancer Binding Peptide
Lynnea Harris	Townview Magnet Center-Science and Engineering (SEM)	David Mangelsdorf, PhD Pharmacology	Effects of FGF21 on Female Fertility in Mice
Nicole Joison	Pearce High School	Vishal Patel, MD Internal Medicine	The role of miRNA in polycystic kidney disease
Alex Levine	Highland Park High School	Christian Forst, PhD Clinical Sciences	Algorithms for Identification and Modeling of Biological Response Pathways
Jasmine Lucero	Summit International Preparatory	Quan Li, MD, PhD Immunology	Oxr1 Gene
Laura Mahler	Northwest High School	Dawen Zhao, MD, PhD Radiology	Investigating Brain and Breast Tumor Growth Using Noninvasive Bioluminescent Imaging
Christopher Martinez	Townview Magnet Center-Science and Engineering (SEM)	Fan Gao, PhD Orthotics & Prosthetics	Body-Powered Upper Limb Prosthetic Simulator
Julian Martinez	Justin Ford Kimball High School	Gomika Udugamasooriya, PhD Advanced Imaging Research Center	Extended Peptoid-JM79 Homodimer Synthesis
Luis Martinez	Williams Preparatory	Diana Tomchick, PhD Biochemistry	Spiralling into the function of periplasmic lipoproteins
Bridget Munezero	Emmet J. Conrad High School	Kent Hamra, PhD Pharmacology	Biology and Application of Sperm Stem Cells
Terry Ng	L.V. Berkner High School	Ivan D'orso, PhD Microbiology	HIV-1 Tat interacting protein Tip48

Name	School	Host	Project Title
Kim Ngo	Fossil Ridge High School	Robert Gerard, PhD Internal Medicine	Virus Factory
Nicholas Okafor	Townview Magnet-Talented and Gifted (TAG)	Ganesh Raj, MD, PhD Urology	Cross-Talk Between Steroid Receptors in Prostate Cancer Cells
Ysenia Orellano	Peak Preparatory	David Boothman, PhD SCCC Lab	Stress From Oxygen
Vishal Parikh	North Hills Preparatory	Orson Moe, MD Internal Medicine	Effects of Calcium on Klotho
Jennifer Pham	Newman Smith High School	Benjamin Chong, MD Dermatology	Type 1 IFN Regulated-Gene Expression in Irradiated MRL-lpr mice skin
Alba Ramirez	Townview Magnet Center-Health Professions	Sherwood Brown, MD, PhD Psychiatry	Cognition in Outpatients with Bipolar Disorder and Alcohol Dependence Treated with Quetiapine
Andrea Rodriguez	Northside High School	Shawn McClintock, PhD Psychiatry	The Effects of Depression on Neurocognitive Functions
Hana'a Said	Harmony Science Academy	Ralph Mason, PhD Radiology	Analysis of Ruby II Toxicity Using Crystal Violet Assay
Sarah Siddiqui	Hampton Preparatory School	Jin Jiang, PhD Developmental Biology	Identifying New Components Involved in Signaling Pathways Using Drosophila as a Model System
Ernest Valencia	Williams Preparatory	Thomas Carroll, PhD Internal Medicine	Study of Btbd11 Function in Animal Models
Elisa Vengalil	Ursuline Academy of Dallas	Fangyu Peng, MD, PhD Radiology	The Effects of Over Expressing or Silencing Human Copper Transporter-1 on Copper Uptake in Prostate Cancer
Camille Brewer	Booker T. Washington High School for Performing and Visual Arts	Connie Hsia, MD Internal Medicine	A Tool to Monitor Phagocytosis

The future of medicine, today.

UT SOUTHWESTERN
Medical Center

STUDENT ALUMNI

STARS Summer Research Program

Name	School	Host	Project Title
STARS ASSOCIATES			
Karen Lee	The Hockaday School	Kim Orth, PhD, Molecular Biology	The Environmental Selection of Vibrio parahaemolyticus Genes
Tiffany Son	The Hockaday School	Kim Orth, PhD, Molecular Biology	The Environmental Selection of Vibrio parahaemolyticus Genes
Sam Watson	Texoma Christian	Jef Debrabander, PhD, Biochemistry	Synthesis of Compound Active Against Glioblastoma Multiforme