"The summer STARS research program was a wonderful experience. I came in hoping to hone my laboratory skills and revitalize my classroom experience. Eight weeks later, I am confident the skills I learned will help me to develop activities for my students so that they may gain a better understanding of research and the scientific process."

Phillip Jacob Jones
North Mesquite High School

Hosted by:
Dr. Avneesh Chhabra, M.D.,
D.N.B.
Radiology

"The Shape of Things - Protein Localization in *Zaprionus davidi* Egg Chambers"

Rebecca Bottin
Rice Middle School

Hosted by:
Miriam Osterfield, Ph.D.
Cell Biology

"Participating in the STARS Summer Research Program was one of the best experiences! I acquired knowledge that I will carry with me in all aspects of my life. Additionally, the science research setting allowed me to develop new techniques and abilities that I will implement with my students. Dr. Osterfield, my Principal Investigator, guided me in creating a lesson related to the research we did this summer. I am so thankful to the entire STARS team and my host lab, The Doubrovinski Lab, for this amazing opportunity."

"Quantifying Differences in Soft Tissue and Girth in Common Hip Conditions of Femoroacetabular Impingement (FAI) Versus Controls"

The summer STARS research program was a wonderful experience. I came in hoping to hone my laboratory skills and revitalize my classroom experience. Eight weeks later, I am confident the skills I learned will help me to develop activities for my students so that they may gain a better understanding of research and the scientific process."
“MEK RASophathy Mutant Protein Expression and Purification”

Abbey Keeton
Richland High School

Hosted by:
Elizabeth Goldsmith, Ph.D.
Radiology

“I am so fortunate that I got to spend my summer at UT Southwestern as a part of the STARS program. I was constantly in awe of the important work that was going on all around me and thrilled that I got to partake in meaningful research. I had to switch out of teacher mode and get back into the role of student, disregarding my fear of asking “dumb” questions. I asked a lot of these “dumb” questions and everyone, Dr. Betsy Goldsmith, Dr. John Humphreys, Dr. Rahda Akella, and Haixa He alike, paused what they were doing to explain or demonstrate the answers to my questions. I felt a part of the team almost immediately and am excited about how the relationships I have formed and the experiences I have had will impact my students. John has brainstormed a plethora of ideas of how various experiments can be effectively translated into the high school classroom laboratory and I am eager to try these ideas with my students. I have learned an abundance of information from both my time in the lab and in conversations with my cohort of teachers and Ms. Lynn Tam and Dr. Joel Goodman. I am walking away from this eight weeks renewed in passion for teaching science and refilled with rich knowledge. STARS is an invaluable program that should be replicated throughout the nation. It has been the most formative professional program that I have been a part of and I’m so grateful for my time at UT Southwestern.”

“Fate Mapping of Postnatal Pericytes”

Denise Lopez
Amon Carter-Riverside High

Hosted by:
Woo-Ping Ge, Ph.D.
Neuroscience

“The UT Southwestern STARS program has been an unforgettable experience. My appreciation for science and research has increased tremendously, as I have seen first-hand the time and commitment invested by the many in this field of study. I am honored to have been able to work in Dr. Ge’s lab, and truly grateful for the patience, teaching, and time invested in me. Being a STARS participant has improved my knowledge and skills of science, while using cutting-edge scientific methods and equipment. I look forward to starting this upcoming academic year and sharing with my students all that I have gained from this amazing program.”
“Targeting the Metabolic Vulnerabilities of Myeloid Leukemias”

Marcelo Migoni
Raul Quintanilla Sr. Middle School

Hosted by:
Jian Xu, Ph.D.
Pediatrics

“The STARS Research Program for teachers has given me the opportunity to enjoy the most fulfilling summer I have ever had as a teacher. Working daily alongside such brilliant and dedicated researchers has further enhanced my passion for science. I feel so invigorated and am actually excited to go back to my campus with new ideas and a fresh perspective.”

“Effect of Growth Factors on Canine Lung Growth and Remodeling After Pneumonectomy”

Lisa Phillips
Prestwick STEM Academy

Hosted by:
Connie Hsai, M.D.
Internal Medicine

“The STARS program has been an amazing opportunity for me to grow as an educator and scientist. The seminars taught by leading researchers gave us an opportunity to learn about current studies and discoveries in a variety of fields. I have truly enjoyed the opportunity to contribute to active research projects. I plan to use what I have learned this summer to create research-based lab activities and science career options to my middle school students.”
<table>
<thead>
<tr>
<th>Name</th>
<th>School</th>
<th>Host</th>
</tr>
</thead>
<tbody>
<tr>
<td>Favour Adeyinka</td>
<td>Young Women’s Leadership Academy at Arnold</td>
<td>Dustin Hancks, PhD</td>
</tr>
<tr>
<td>Titilayo Arowolo</td>
<td>Lloyd V. Berkner High School</td>
<td>Kevin Williams, PhD</td>
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<tr>
<td>Brian Avendano</td>
<td>Gunter High School</td>
<td>Steve Jiang, PhD</td>
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<tr>
<td>Meghan Backoo</td>
<td>Carroll Senior High School</td>
<td>Digant Dave, PhD</td>
</tr>
<tr>
<td>Ty Bogar</td>
<td>Byron Nelson High School</td>
<td>Mark Henkemeyer, Ph.D.</td>
</tr>
<tr>
<td>Shannon Boyle</td>
<td>North Forney High School</td>
<td>Zhao Wang, PhD</td>
</tr>
<tr>
<td>Nicolás Carrero</td>
<td>Lakeview Centennial High School</td>
<td>Todd Roberts, PhD</td>
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<tr>
<td>Cesar Castillo</td>
<td>Uplift Luna Preparatory</td>
<td>Jacqueline Gallet, Ph.D.</td>
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<tr>
<td>Vincent Dang</td>
<td>Bowie High School</td>
<td>Xiankai Sun, PhD</td>
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<tr>
<td>Anthony De Maria</td>
<td>Texas Academy of Biomedical Sciences</td>
<td>Ganesh Raj, MD, PhD</td>
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<tr>
<td>Ammar Dharani</td>
<td>Hebron High School</td>
<td>Elizabeth Maher, MD, PhD</td>
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<td>Sawyer Diaz</td>
<td>Wylie High School</td>
<td>John Hulleman, PhD</td>
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<td>Osadebamwen Eliaho</td>
<td>Little Elm High School</td>
<td>Doris Lambracht-Washington, PhD</td>
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<td>Hannah Engebritson</td>
<td>Timber Creek High School</td>
<td>James Brugarolas, MD, PhD</td>
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<td>Shelly Goel</td>
<td>School of Science &amp; Engineering Magnet (SEM)</td>
<td>Genevieve Konopka, PhD</td>
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<td>Mariana Gomez</td>
<td>MacArthur High School</td>
<td>Li Liu, PhD</td>
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<td>Hana Hendi</td>
<td>Brighter Horizons Academy</td>
<td>Yuh Min Chook, PhD</td>
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<td>Sean Holden</td>
<td>Jesuit College Preparatory School of Dallas</td>
<td>Mike Henne, PhD</td>
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<tr>
<td>Andy Huynh</td>
<td>Uplift Summit International Preparatory</td>
<td>Melanie Cobb, PhD</td>
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<td>Sami Joudeh</td>
<td>Midlothian Heritage High School</td>
<td>Helmut Kramer, PhD</td>
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<td>Rishika Kaja</td>
<td>Greenhill School</td>
<td>Sherwood Brown, MD, PhD</td>
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<td>Kanika Kappalayil</td>
<td>Liberty High School</td>
<td>Vitaly Margulis, MD</td>
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<td>Tanvi Kongara</td>
<td>The Hockaday School</td>
<td>Kim Orth, PhD</td>
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<td>Surabhi Lamsal</td>
<td>Jack E. Singley Academy</td>
<td>Wei Xu, PhD</td>
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<td>Arnold Langat</td>
<td>Harmony Science Academy - Euless</td>
<td>Esra Akbay, PhD</td>
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<td>Maanasa Lanka</td>
<td>Ranchview High School</td>
<td>Guo-Min Li, PhD</td>
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<td>Natalie Lanners</td>
<td>The Hockaday School</td>
<td>Asaithamby Aroumougame, PhD</td>
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<td>Surina Livingston</td>
<td>Poteet High School</td>
<td>Xun Jia, PhD</td>
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<td>Pranav Marjunath</td>
<td>Carroll Senior High School</td>
<td>Chao Xing, PhD</td>
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<td>Rachel Monger</td>
<td>Greenhill School</td>
<td>John Abrams, PhD</td>
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<tr>
<td>Amanda Moon</td>
<td>Plano East Senior High School</td>
<td>Yang-Xin Fu, MD, PhD</td>
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<tr>
<td>Jessica Nguyen</td>
<td>Centennial High School</td>
<td>Prasanna Alluri, MD, PhD</td>
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<tr>
<td>Victor Nunez</td>
<td>Trinidad Garza Early College High School</td>
<td>Ivan D’Orso, PhD</td>
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<td>Sofiu Ogunbiyi</td>
<td>Mansfield Timberview High school</td>
<td>Caroline de Gracia Lux, PhD</td>
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<tr>
<td>Blanca Perez</td>
<td>Waxahachie Global High School</td>
<td>Jacques Lux, PhD</td>
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<tr>
<td>Eddy Pineda</td>
<td>School of Education and Social Services at Townview Magnet</td>
<td>Jennifer Kohler, PhD</td>
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<td>Name</td>
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<tr>
<td>Kate Pinkerton</td>
<td>Booker T. Washington HSPVA</td>
<td>Diana Tomchick, PhD</td>
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<tr>
<td>Lorelai Pop</td>
<td>The School for the Talented and Gifted (TAG)</td>
<td>Helen Lai, PhD</td>
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<tr>
<td>Andy Qiao</td>
<td>Plano West Senior High</td>
<td>Ondine Cleaver, PhD</td>
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<tr>
<td>Jacqueline Ramirez</td>
<td>Wylie East High School</td>
<td>Alice Ann Holland, PhD, ABPP</td>
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<tr>
<td>Aidan Ravnik</td>
<td>The School for the Talented and Gifted (TAG)</td>
<td>David Corey, PhD</td>
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<tr>
<td>Chethan Reddy</td>
<td>Keller High School</td>
<td>Shin Yamazaki, PhD</td>
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<tr>
<td>Aida Reyes</td>
<td>James W. Martin High School</td>
<td>Ming Chang Hu, MD, PhD</td>
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<tr>
<td>Merissa Rieken</td>
<td>Harmony School of Nature and Athletics</td>
<td>Rajiv Chopra, PhD</td>
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<td>Jean Luna Rojo</td>
<td>Irving High School</td>
<td>Charlie Khemtong, PhD</td>
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<tr>
<td>Aubree Rooney</td>
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<td>Gloria Lena Vega, PhD</td>
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<td>Chen Liu, PhD</td>
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<td>Reed Zimmerman</td>
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<td>Murat Cobanoglu, PhD</td>
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</tbody>
</table>
STARS was able to hold 4 Summer Science Camps in biology, chemistry, biotechnology and physics. These workshops gave teachers an opportunity to fine-tune their teaching skills. With the exception of the Biotechnology camp, teachers were coached by two “Master Teachers” as they presented biology, chemistry, and physics lessons and laboratory exercises to 30-35 rising 9th, 10th, and 11th grade students. The students learned concepts in biology, chemistry, biotechnology or physics through presentations and various laboratory exercises. Students also received information about careers in science and medicine, and had an opportunity to tour our research labs.

Biology Teachers
- Marisela Aguilera
  Lanier High School
- Adriane Davis
  Irma Rangel Young Women’s Leadership School
- Crystal Delley
  South Oak Cliff High School
- Nathaniel Edoghotu
  Conrad High School
- Victoria Ehiogu
  Poteet High School
- Debonie Enge
  Conrad High School
- An Nguyen
  L.G. Pinkston High School
- Brittany Powell
  Barack Obama Male Leadership Academy
- Christopher Rollerson
  South Oak Cliff High School

Chemistry Teachers
- Cameron Burwell
  R.L. Turner High School
- Elliot Charles
  Everman High School
- Debonie Enge
  Conrad High School
- Cherrie Lemon
  Hector Garcia Middle School
- Fatemeh Mirghassemi
  Bryan Adams High School
- Joel Strachan
  Jack E. Singley Academy
- Wendy Wilson
  West Mesquite High School
2018 STARS Summer Science Camps Cont.

Biotech Teachers
- Shirley Anderson
  School of Health Professions
- Jennifer Haught
  Mabank High School
- Fatemeh Mirghassemi
  Bryan Adams High School
- Mallorie Parks
  Crandall High School
- Catalina Pineda
  Irving High School

Physics Teachers
- Bryan Bolster
  North Mesquite High School
- Teresa Cherry
  Mesquite High School
- Willie Fowlks
  Piedmont Global
- Renita Hines
  Harry Stone Montessori Academy
- Jessica Kreais
  Marcus High School
- Cherrie Lemon
  Hector Garcia Middle School
- Angela Sarrett
  Timber Creek High School
- Ashley Steele
  Longfellow CAE
- Opal Thomas
  South Oak Cliff High School
- Nima Vojdani
  W.W. Samuell High School

2018 Biotech Workshop Teachers

2018 Physics Workshop Teachers
STARS Upcoming Events
Science Symposia

All events are held on the UT Southwestern Medical Center Campus. For directions and to register, visit the STARS Web page.

www.utsouthwestern.edu/stars

Calendar of Events 2018 - 2019

September

Mini-Symposium:
Inferring Protein Function from DNA
Monday, Sept. 10, 2018
5:30 - 8:00 p.m.
Lecture Hall, D1.502

November

Mini-Symposium:
Immunotherapy
Monday, Nov. 5, 2018
5:30 p.m. - 8:00 p.m.
Lecture Hall, D1.502

Special Symposium:
Women in Science and Medicine
Saturday, Mar. 2, 2019
9:00 a.m. - 3:00 p.m.
Lecture Hall, D1.700
Please invite female students to attend with you. Male students are also welcome. All participants must pre-register and confirm registration.

October

Basic Science Symposium
Autism Spectrum Disorders
Saturday, Oct. 13, 2018
9:00 a.m. - 3:00 p.m.
Lecture Hall, D1.600
Please invite students to attend with you. All participants must pre-register and confirm registration.

Teacher In-service:
Visualizing the Molecules that Drive Biology - A Workshop on Incorporating Structural Biology into the Classroom
Saturday, Dec. 8, 2018
9:00 a.m. - 3:00 p.m.
Meeting Room, K2.610
Limited Enrollment

December

Teacher In-service:
Biotechnology 101
Saturday, Feb. 2, 2019
9:00 a.m. - 3:00 p.m.
Lecture Hall, K2.610
Limited Enrollment

January

Mini-Symposium:
How Neurons Find Their Way
Monday, Jan. 7, 2019
5:30 p.m. - 8:00 p.m.
Lecture Hall, D1.502

March

April

Mini-Symposium:
Energy Homeostasis
Monday, April 8, 2019
5:30 p.m. - 8:00 p.m.
Lecture Hall, D1.502

May

June

Other Important Dates
Monday, Dec. 3, 2018
Deadline to submit requests for Science Fair Judges
Thursday, Feb. 1, 2019 by 11:59 p.m.
Application deadline for the Summer Research Program
Monday, June 3, 2019
Summer Research Program begins
Friday, July 26, 2019
Summer Research Program ends

To Register for an Event
STARS events are offered FREE of charge to Texas teachers. Please register for an event at least two weeks in advance on our website:

www.utsouthwestern.edu/STARS/register

Science Teacher Access to Resources at Southwestern
The University of Texas Southwestern Medical Center
Voice: 214-648-9505 Fax: 214-648-9508

QR Code for STARS Registration Website
Exploring Post and Exploring Club at UT Southwestern

Exploring Post for High School Students

Upcoming Meetings: 6 to 7:30pm (D1.502)
- Monday-Sept. 24th
- Monday-Oct. 22nd
- Monday-Nov. 12th
- Monday-Dec. 10th
- Monday-Jan. 28th
- Monday-Feb. 25th
- Monday-Mar. 25th
- Monday-April 22nd
- Monday-May 20th

2018-2019 Exploring Post Officers
- Kanika Kappalayil, President
- Brooke Aly, Admin. VP
- Priya Mandava, Programs VP
- Shruti Bindingnavile, Secretary

Register For Exploring Post@ https://ais.swmed.edu/starsevent/user/welcome.do

Exploring Club for Middle School Students

Upcoming Meetings: 6 to 7:30pm (D1.200)
- Monday-Sept. 24th
- Monday-Oct. 22nd
- Monday-Nov. 12th
- Monday-Dec. 10th
- Monday-Jan. 28th
- Monday-Feb. 25th
- Monday-Mar. 25th
- Monday-April 22nd
- Monday-May 20th

Register For Exploring Club@ https://ais.swmed.edu/starsevent/user/welcome.do
STAFF

Joel Goodman, Ph.D.
STARS Director
Professor of Pharmacology
Jan and Bob Bullock Distinguished Chair for Science Education
joel.goodman@utsouthwestern.edu

Lynn Tam
Assistant Director
lynn.tam@utsouthwestern.edu

Kristie Conner
Senior Education Coordinator
kristie.conner@utsouthwestern.edu

Pearlie Crawford
Education Coordinator
pearlie.crawford@utsouthwestern.edu

Maria Sandlin
Education Assistant
maria.sandlin@utsouthwestern.edu

PROGRAMES

SYMPOSIA
Basic Science Symposia
Mini-Symposia

OUTREACH
Bureau of Science Fair Judges
Research Assistance
Science Ambassadors
Student Mentoring

SUMMER RESEARCH
Summer Research Program for Teachers
Summer Research Program for Students

TOURS
UT Southwestern School of Health Professions
UT Southwestern Medical Center
Parkland Health & Hospital System of Dallas
Children’s Medical Center Dallas

IN-SERVICE SESSIONS
Visualizing the Molecules that Drive Biology - Incorporating Structural Biology into the Classroom
Biotechnology 101

SCIENCE CAMPS
Biology
Chemistry
Biotechnology
Physics

5323 Harry Hines Blvd
Dallas, Texas 75390-9137
(214) 648-9505
(800) 81-STARS
FAX: (214) 648-9508

UT Southwestern is an equal opportunity institution.
Core funding for the STARS program is provided by the state of Texas.

Visit our web site at www.utsouthwestern.edu/stars