

STARS NOTES



SCIENCE TEACHER ACCESS TO RESOURCES AT SOUTHWESTERN

STARS Notes
September 2017
Issue XV, Number 3

Core funding for the STARS Program is provided by the
State of Texas.

2017 STARS Summer Research Program for Teachers
Our 2017 SRP was a huge success! See what the teachers
had to say:

"Aromatase Deletion in Adipose Tissue in Mice"



Tennile Betz
Thompson Middle School

Hosted by:
Orhan K. Oz, M.D., Ph.D.
Radiology

"I have had an unforgettable summer learning a new set of skills that I can take back to the classroom. It has been an eye opening experience learning what takes place in a research lab; and the processes involved in doing scientific research. I would also like to thank Dr. Orhan K. Oz and the Department of Radiology for opening up their lab and allowing summer interns to take part in their research."

"Comparison of Theta Oscillations Recorded from the Anterior and Posterior Hippocampus of Epileptic Patients"

Constance Bond
Naaman Forest High School

Hosted by:
Bradley Lega, M.D.
Neurology



"The STARS Program has allowed me to explore my passion for science on a deeper level by gaining hands on laboratory research. This, in turn, makes me excited to return to my classroom and share my experience and new-found knowledge with my incoming students. I believe this is an important and beneficial program that all science teachers of all grade levels should participate in- you won't regret it!"

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“Activation Mechanisms in Protein Kinases”



Rochelle Grant
Robert T. Hill Middle School

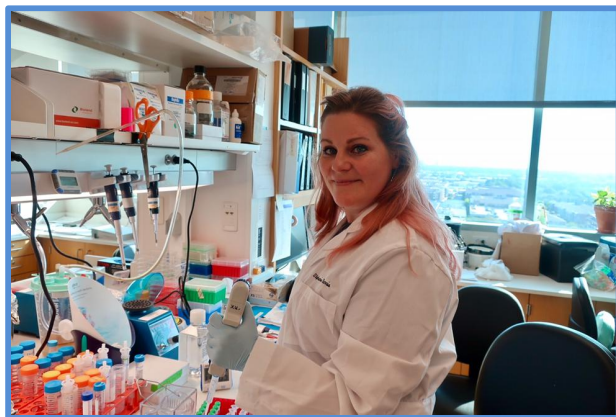
Hosted by:
Elizabeth Goldsmith, Ph.D.
Radiology

“The STARS program at UTSW provides an amazing opportunity to allow science teachers to rekindle their love for science! This program allowed me to revisit the purpose and importance of science in the world today. Having the opportunity to work along with world known scientists, who have dedicated their time and effort to contribute to our everyday lives, is an experience like no other. The seminars highlight current scientific research and keep you abreast on what’s going on in the science world. The thought of being a student again was a very challenging task, but that experience provided me with the insight of how many of my students come into my classroom thinking science is challenging. It takes time and patience, and within 8 short weeks, I felt like a real scientist! The techniques and resources that I acquired will be used to enhance my teaching skills for the future. I am thankful for the Goldsmith lab and UT southwestern STARS program for permitting me this opportunity.”

“CRISPR-Mediated Negative Competition Assay to Identify Epigenetic Vulnerabilities in Human Leukemia”

Stefanie Harris
Travis Middle School

Hosted by:
Jian Xu, Ph.D.
Pediatrics



“The STARS program has shown me just how powerful inquiry-based learning can be in the classroom because that’s how it’s done in research lab settings. It’s a great experience to take back to the classroom and share with students not only because it exposes you to all the opportunities for careers in Science, but because the research is exciting to be a part of and you are constantly learning new things. This is even more the case when you come back for a second summer and get to continue your research. I highly recommend this program to any teacher that wants to improve their instruction or just has a true passion for science.”

2017 STARS Summer Research Program for Students

Name	School	Host
Katelyn Abel	JP II High School	Zhao Wang, PhD
Meheret Adera	Harmony Science Academy	Xun Jia, PhD
Mahima Akula	Greenhill School	Sherwood Brown MD, PhD
Joy Aniede	Rowlett High School	Chun-Li Zhang, PhD
Katherine Casey	Flower Mound High School	Helen Lai, PhD
Chastity Chavez	Irma Rangel YWLS	Jacques Lux, PhD
Jeff Cherian	Sunnyvale High School	Matthew Lewis, PhD
Caroline Cummings	Richardson High School	Jenny Hsieh, PhD
Ritika Dendi	Hockaday School	Kim Orth, PhD
Akshay Durvasula	Flower Mound High School	Yingfei Wang, PhD
Michael Eboh	Timberview High School	Weibo Luo, PhD
Morgan Ezell	Byron Nelson High School	Kevin Williams, PhD
Gabrielle Gard	Ursuline Academy of Dallas	Rashmin Savani, MD
Benjamin Gitzinger	JP II High School	Jacqueline Gallet, PhD
Dustin Heitman	Midlothian Heritage High School	Mark Henkemeyer, PhD
Peter Hundley	Jesuit College Preparatory	Joel Goodman, PhD
Hannah Ismail	Duncanville High School	Roger Rosenberg, MD
Andrew Kan	Lamar High School	Wei Xu, PhD
Anvita Kandru	Coppell High School	James Brugarolas, MD, PhD
Michael Kavas	Woodrow Wilson High School	Rajiv Chopra, PhD
Aakash Kothari	Jack E. Singley Academy	Chen Liu, PhD
Ramon Lopez	School for the Talented & Gifted at Townview	Sunita Stewart, PhD
Mariana Martinez	MacArthur High School	Ben Tu, PhD
Wesley McDonald	Harmony School of Nature	Esra Akbay, PhD
Cinthya Meza	Irma Rangel YWLS	Phil Shaul, MD
Cindy Ngo	Wylie High School	Matthias Wolf, MD
Darien Nguyen	Irving High School	Ivan D'Orso, PhD
Randy Nguyen	Poteet High School	Raksha Jain, MD
Trevor Nguyen	McKinney Boyd High School	Genevieve Konopka, PhD
David Padron-Castillo	School of Science & Engineering at Townview	Xiankai Sun, PhD
Samaya Pattim	Lone Star High School	Asaithamby Aroumougame, PhD
Sorin Pena	Haltom High School	Ram Mani, PhD
Jackson Petroll	Jesuit College Preparatory	Gaudenz Danuser, PhD
Joanna Quan	Greenhill School	Jennifer Kohler, PhD
Danielle Ramos	South Grand Prairie High School	David Corey, PhD
Courtney Rawitscher	Greenhill School	Joachim Herz, MD and Shirling Tsai, MD
Mariana Rios	Stephenville High School	Dean Smith, MD, PhD
Jasmine Rodriguez	Booker T. Washington HSPVA	Todd Roberts, PhD
Emily Stein	Hockaday School	Kathryn O'Donnell, PhD
Yukta Sunkara	North Hills Preparatory	Matt Petroll, PhD
Varshini Suresh	Coppell High School	Ganesh Raj, MD, PhD
Connor Thomas	Jesuit College Preparatory	Mike Henne, PhD
Sasha Thomas	School of Science & Engineering at Townview	Vitaly Margulis, MD
Miriam Trigo	Irving High School	Charlie Khemtong, PhD
Ritu Trivedi	Plano West High School	Nancy Monson, PhD
Alexandra Vermino	Ursuline Academy of Dallas	Peter Tsai, MD, PhD
Abdi Wakene	Harmony School of Innovation	Rajiv Chopra, PhD
Nicholas Wilson	Jesuit College Preparatory	Chao Xing, PhD
Michael Xie	Highland Park High School	Dominika Borek, PhD
Jonathan Yang	Plano Senior High School	Melanie Cobb, PhD
Zuhair Zaidi	Brighter Horizons Academy	Helmnt Kramer, PhD
Sharon Zhang	Hockaday School	Madhukar H. Trivedi, MD



**2017 STARS Summer Research Program for
Students**

2017 STARS Summer Science Camps

STARS was able to hold 3 Summer Science Camps in Biology, Chemistry, and Physics. These workshops gave teachers an opportunity to fine-tune their teaching skills. 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, 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



Master Teachers



Adam Jacobson **Susan Moran**
 Wylie ISD Frisco ISD
 Learning Specialist Inst. Coach

Chemistry



Master Teachers



Dr. Beverly Lawson **Rachmad Tjachyadi**
 The Hockaday School Creekview High School

Physics



Master Teachers



Fred Hurst **Dr. Ken Hahn**
 Newman Smith High School John Brown University

Biology Teachers

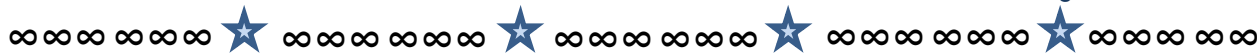
- Lilian Alozie
T.J. Rusk Middle School
- Tracy Bruce
Grand Prairie Collegiate Institute
- Ashley Fiamengo
Roosevelt High School
- Jennifer Landes
Molina High School
- Suzanne McCall
Williams Preparatory
- Christy Sanchez
Tyler Street Christian Academy
- Amber Washington
Mansfield Lake Ridge High School
- Bethanie Williams
McDonald Middle School

Chemistry Teachers

- Nancy Brown
Charles Baxter Junior High School
- Angela Caffey
Bryan Adams High School
- Bernardo Camacho
Woodrow Wilson High School
- James Lee
Grand Prairie High School
- Suzanne McCall
Williams Preparatory
- Olubukola Olaloko
Barack Obama Male Leadership Academy
- Ellen Ouyang
Uplift Heights Secondary
- Christy Sanchez
Tyler Street Christian Academy
- Valerie Thomas
Johnson DAEP

Physics Teachers

- Harry Engle
Fred Florence Middle School
- Dana Hamilton
Adamson High School
- Fred Mani
R.L. Turner High School
- Jan Muhammad
M.U.I.
- Michelle Okafor
Patton Academic Center
- Yanxia Pan
School of Health Professions
- Evon Saleh
School of Health Professions
- Marcia Cross
McKinney DAEP
- Yolanda Weatherspoon
Little Elm High School



2017 Biology Workshop Teachers



2017 Chemistry Workshop Teachers



2017 Physics Workshop Teachers

STARS Upcoming Events

Science Symposia

Calendar of Events 2017 - 2018

STARS

<p style="text-align: center;">September</p> <p>Mini-Symposium: Brain Patterning Monday, Sept. 11, 2017 5:30 - 8:00 p.m. Lecture Hall, D1.502</p> <p style="text-align: center;">November</p> <p>Mini-Symposium: Systems Biology Monday, Nov. 6, 2017 5:30 p.m. - 8:00 p.m. Lecture Hall, D1.502</p> <p style="text-align: center;">January</p> <p>Mini-Symposium: Cutting-Edge Biomedical Engineering Monday, Jan. 8, 2017 5:30 p.m. - 8:00 p.m. Lecture Hall, D1.502</p> <p style="text-align: center;">March</p> <p>Special Symposium: Careers for Women in Biomedicine Saturday, Mar. 3, 2018 9:00a.m. - 3:00 p.m. Lecture Hall, D1.600 Please Invite Female Students to Attend With You. All participants must pre-register and confirm registration.</p> <p style="text-align: center;">May</p> <p>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</p>	<p style="text-align: center;">October</p> <p>Basic Science Symposium: The War Against Microbes Saturday, Oct. 14, 2017 9:00 a.m. - 3:00 p.m. Lecture Hall, D1.502 Please Invite Students to Attend With You. All participants must pre-register and confirm registration.</p> <p style="text-align: center;">December</p> <p>Teacher In-service: Teaching Biotechnology Saturday, Dec. 9, 2017 9:00 a.m. - 3:00 p.m. Meeting Room, K2.610 Limited Enrollment</p> <p style="text-align: center;">February</p> <p>Teacher In-service: Using Arduino to Teach Physics and Coding Saturday, Feb. 3, 2018 9:00 a.m. - 3:00 p.m. Lecture Hall, K2.610 Limited Enrollment</p> <p style="text-align: center;">April</p> <p>Mini-Symposium: Super! Resolution Microscopy - Visualizing Cell Dynamics through Modern Microscopy Monday, April 2, 2018 5:30 p.m. - 8:00 p.m. Lecture Hall, D1.502</p> <p style="text-align: center;">June</p> <p>Other Important Dates Friday, Dec. 1, 2017 Deadline to submit requests for Science Fair Judges Thursday, Feb. 1, 2018 by 11:59 p.m. Application deadline for the Summer Research Program Monday, June 4, 2018 Summer Research Program begins Friday, July 27, 2018 Summer Research Program ends</p>
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Science Teacher Access to Resources at Southwestern
The University of Texas Southwestern Medical Center
Voice: 214-648-9505 Fax: 214-648-9508



Exploring Post @ UT Southwestern



Upcoming Meetings: 6 to 7:30pm (D1.502)

- | | |
|---|--|
| <p>Monday-Sept. 25th</p> <p>Monday-Oct. 23rd</p> <p>Monday-Nov. 13th</p> <p>Monday-Dec. 11th</p> <p>Monday-Jan. 29th</p> <p>Monday-Feb. 26th</p> <p>Monday-Mar. 26th</p> <p>Monday-April 23rd</p> <p>Monday-May 21st</p> | <p>2017-2018 Exploring Post Officers</p> <ul style="list-style-type: none"> 📍 Varshini Suresh , President 📍 Dharshini Suresh, Admin. VP 📍 Shruti Bindingnavile, Programs VP 📍 Brooke Aly, Secretary <p>Register For Exploring Post@
explorer@UTSouthwestern.edu</p> |
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PROGRAMS

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

Hands-on Chemistry: Making
Learning Memorable
Flies as a Model System

SCIENCE CAMPS

Biology
Chemistry
Physics

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UT Southwestern is an equal opportunity institution.
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Visit our web site at www.utsouthwestern.edu/stars