

STARS NOTES

SCIENCE TEACHER ACCESS TO RESOURCES AT SOUTHWESTERN

Fall 2017 STARS Events

All STARS activities and events are offered free of charge to teachers and students in the state of Texas.

STARS SYMPOSIA consist of a series of lectures given by scientists and physicians currently doing research at UT Southwestern Medical Center and affiliated institutions. The science symposia and in-service sessions are excellent resources for teachers to learn about cutting-edge research in the biomedical sciences, to discover new classroom activities, and to obtain professional development credit at the same time. If you wish to attend any event, please pre-register by visiting our online registration page at www.utsouthwestern.edu/STARS/register

Mini-Symposium: Brain Patterning - September 11, 2017

This month our symposium was based on brain patterning. We started with a presentation from Brad Pfeiffer, Ph.D., Assistant Professor in Neuroscience, titled, *The Spatial Memory System of the Brain – How Remembering Past Paths Helps Future Decision Making*. Todd Roberts, Ph.D., Assistant Professor, Neuroscience, gave a presentation titled, *What Songbirds Teach Us about Learning*. The symposium was closed by Joel Goodman, Ph.D., STARS Director.



Daphne Rickard, CTE Coordinator, Fort Worth ISD, and participating teachers, prepare food samples to test for GMO products during our STARS teacher in-service on December 9, 2017

Basic Science Symposium: The War Against Microbes - October 14, 2017

Our all-day October Symposium consisted of presentations and break-out sessions revolving around infectious diseases. The morning presentation session started with Michael Shiloh, M.D., Ph.D., Assistant Professor, Internal Medicine, Microbiology, giving an introduction to pathogens. Soon after, Robert Haley, M.D., Professor, Internal Medicine, presented *The Dallas West Nile Virus Epidemic*, followed by a presentation titled, *Chronic Viral Infections vs. Our Immune System* by Tiffany Reese, Ph.D., Assistant Professor, Immunology, Microbiology. David Greenberg, M.D., Associate Professor, Internal Medicine, Microbiology, gave the last morning presentation titled, *Antibiotic Resistance: The End of the Antibiotic Era?* Participants then headed to the afternoon break-out sessions that consisted of hands on activities on *Precautions in Handling Deadly Microbes* and *How Antibiotics Work*.

Mini-Symposium: Systems Biology - November 7, 2017

This month our symposium was based on systems biology. Milo Lin, Ph.D., Assistant Professor, Green Center for Systems Biology, started our symposium with a presentation titled, *Unravelling How Protein Aggregation Leads to Alzheimer's Disease*. It was followed by a presentation titled, *Solving the Mystery of Gastrulation*, from Konstantin Dubrovinski, Ph.D., Assistant Professor, Green Center for Systems Biology.

Teacher In-service: Teaching Biotechnology– December 9, 2017

Our teacher in-service session was led by Daphne Rickard, CTE Coordinator, Fort Worth ISD, and Leigh Brown, Curriculum and Training Specialist, Bio-Rad Laboratories. Some of the activities included, extraction of DNA from food samples, electrophoresis of PCR products and tracking disease outbreak through ELISA. The in-service was closed by Joel Goodman, Ph.D., STARS Director.

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

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7th Annual
uplift education
SCIENCE FAIR
January 27, 2018

The 7th Annual Uplift Education District Science Fair was a success. The STARS program collaborated with Uplift Education and hosted their district science fair here at UT Southwestern Medical Center. There were 181 projects entered in the Primary, Middle and High school divisions and over 700 students, teachers, volunteers, and family members attended this seventh annual event. Break-out sessions were organized for the students to attend while the judges reviewed the projects. The different break-out sessions included My Story in Code, Straight from the Heart, We Call the Shots, Battle Bots, Helping Profession, and Suture Clinic.

STARS Award Winners:

Secondary

Middle School

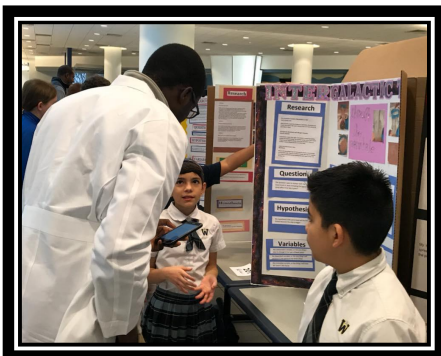


High School



High school division STARS award winners pictured with - (far left), Ruben Esquivel, VP for Community & Corporate Relations, Joel Goodman, Ph.D. (STARS Director), Anne Erikson (Uplift Education Senior Director of Teacher and Leader Effectiveness) and Lynn Tam, M.Ed. (STARS Assistant Director)

High school division STARS award winners pictured with - (far left), Richard Harrison (Uplift Education Chief Academic Officer), Joel Goodman, Ph.D. (STARS Director) and Lynn Tam, M.Ed. (STARS Assistant Director)



Primary Judging



Suture Breakout Session

STARS Upcoming and Future Events

Summer 2018



Summer Research Program for Teachers and Students

June 4th thru July 27th

This summer, STARS will have 6 teachers and 50 students participate in the Summer Research Program. This eight-week program is designed to give teachers and students an opportunity to work side by side with a faculty host in a research laboratory. An important purpose of this program is to help teachers rekindle their love of science and encourage students in North Texas to pursue science-related fields. Teachers give poster presentations and develop classroom activities related to their research experience. Students give poster presentations and act as emissaries at their home school the following year by giving presentations outlining their research experiences. The summer experience will take place in biomedical research laboratories only and will not include any clinical or shadowing opportunities. Participation is limited by funding resources.

2018 STARS Science Camps

These are 2-week, non-residential summer camps where students learn concepts through hands-on labs, health careers information, project based challenges, and science lab tours.

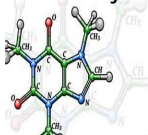
Biology

June 11 - June 22



Chemistry

June 29 - July 13



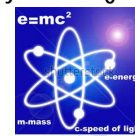
Biotechnology

June 16 - July 20



Physics

July 23 - August 3



Science & Health Careers Exploring Post at UT Southwestern

The explorers (Post – high school students & Club – middle school students) meet monthly at UT Southwestern Medical center in Rm D1.502 from 6pm to 7:30pm. Interested students may attend for free and yearly membership is \$34. Parents are always welcome!



2018 - 2019 Exploring Officers

2018-2019 Exploring Officers:

President: Kanika Kappalayil
Admin. VP: Brooke Aly
Programs VP: Priya Mandava
Secretary: Shruti Bindingnavile

Future Monday Dates:

9/24/18	1/28/19
10/22/18	2/25/19
11/12/18	3/25/19
12/10/18	4/22/19

5/20/19

STAFF

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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

Biotechnology 101

SUMMER SCIENCE CAMPS

Biology

Chemistry

Physics

Biotechnology

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

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