

STARS NOTES

SCIENCE TEACHER ACCESS TO RESOURCES AT SOUTHWESTERN

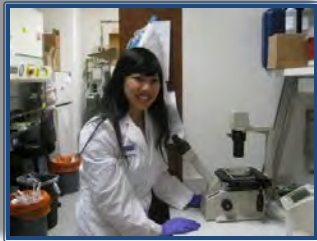
STARS Notes
September 2013
Issue XVIII, Number 1

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

STARS Summer Research Program for Teachers 2013

Our SRP 2013 was a huge success! See what the Teachers had to say:

“SLC6A14 Protein Levels in Response to Inflammation”



Kimberly Harkrider
Forest Meadow Junior High

Hosted by:
Zemfira Karamysheva, Ph.D.
Physiology

“I feel that the STARS program has been an invaluable experience for me. It was incredibly enlightening to be part of a lab, immersing myself in experimental design, and actually being able to perform experiments that were meaningful to the mission of the Thomas Physiology Laboratory. I have gained a deeper appreciation for all members of the scientific research community and their efforts towards understanding the complexities of the human body. I am grateful to have participated in STARS and to have been matched with an incredibly supportive mentor. She challenged me to go beyond my comfort zone and eventually to become autonomous, performing my own lab experiments. Many thanks to my mentor Dr. Zemfira Karamysheva and her ongoing support through this process. I am so sad to be leaving and I hope that my short stay at the Thomas lab was mutually beneficial. I cannot wait to translate what I have learned into the classroom, making science more engaging and relevant to my students.”

“Characterization of Piperlongumine as a Potent Inhibitor of Glutathione S-Transferase π ”

Brandi Bastas
Arlington High School

Hosted by:
Kenneth Westover, M.D., Ph.D.
Radiation Oncology,
Biochemistry



“Part of my school’s mission statement is to have students become life-long learners. How can I expect kids to want to do this if I, as a teacher, don’t embody this and set an example for my students? Each summer I focus on my life-long learning and participate in some kind of learning experience. I cannot express how wonderful the STARS program has been for me this summer. I have learned more than I ever thought was possible and can’t express in words how thankful I am for being chosen to participate in this program. I not only have gained knowledge from my lab experience and refreshed my lab techniques, but I know it has made me think of teaching in a whole new light. I am so excited to now take my knowledge and experience from STARS program back to my classroom and engage my students in a whole new way.”

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“Regulator of Calcineurin I (RCANI) influences adipose differentiation”



Sara Wrenn
Peak Preparatory

Hosted by:
Beverly Rothermel, Ph.D.
Internal Medicine, Molecular Biology

“The experience that I gained through the STARS program was absolutely incredible. I had the opportunity to experience scientific discovery in labs that were completing breakthrough studies, but I also had the opportunity to become a student again. It was difficult, and at times scary, but well worth the experience that I gained. I would encourage every teacher to seek out opportunities like the STARS program, because it can truly transform your teaching and the way you approach science learning in your classroom.”

“The development of mycobacterial strains expressing high levels of M. tuberculosis efflux pumps and the isolation and purification of phage specific to M. tuberculosis”

Scott Sharp
Rockwall-Heath High School

Hosted by:
Nicolai van Oers, Ph.D.
Immunology



“The UT-Southwestern STARS program has been instrumental in my classroom teaching. Working under a PI in the lab and the role reversal accompanied with that has reminded me what it is like to be a student. Understanding what goes on in a research lab is no easy feat, and it has enhanced my ability to share complex information to students at an easy to understand level. I will forever remember my experience at UT-Southwestern, and will be forever grateful for the STARS program.”

“SPI-6 Response to Acetaminophen (APAP)”



Ashely Brooks
Arlington High School

Hosted by:
Yonas Getachew, M.D.
Internal Medicine

“Working with the STARS summer research program allowed me to reignite my passion for science! I was able to be exposed to real studies that will soon affect millions of real people, and I am able to take this experience and information back into the classroom”

**STARS Summer Research Program 2013
For Students**

Students Name	School	Host
Dagem Adera	Harmony Science Academy	Denise Marciano, M.D., Ph.D.
Ivette Alvarez	Peak Preparatory High School	Rana Gupta, Ph.D.
Olatunde Badejo	North Garland High School	Michael Shiloh, M.D., Ph.D.
Emily Barnes	Episcopal School of Dallas	Dean Smith, M.D., Ph.D.
Yesenia Barrios	Saginaw High School	Zhi-Ping Liu, Ph.D.
Andrew Bazley	Booker T. Washington HSPVA	Jenny Hsieh, Ph.D.
Susy Briones	Williams Preparatory	Ivan D'Orso, Ph.D.
Kevin Chow	Coppell High School	Ezra Burnstein, M.D.
Emanuel Cortes	School for the Talented and Gifted at Yvonne A. Ewell Townview Center	Shawn Burgess, Ph.D.
James Ding	Flower Mound High School	Jennifer Kohler, Ph.D.
Felonie Doss	Trinidad Garza Eearly College High School	Ann Stowe, Ph.D.
Julian Escamilla	Desoto High School	Sandeep Burma, Ph.D.
Cecilia Esquivel	School for the Talented and Gifted at Yvonne A. Ewell Townview Center	Helmut Kramer, Ph.D.
Juan Galindo	Summit International Preparatory	Xiaoying Bai, M.D., Ph.D.
Joseph Giroux	Bryan Adams High School	Fan Gao, Ph.D.
Samya Isa	Plano East High School	Lind Baker, M.D.
Jorge Jaimes	W.H. Adamson High School	Joel Goodman, Ph.D.
Sofia Joison	J.J. Pearce High School	Ian Corbin, Ph.D.
Erik Lamas	W. T. White High School	Michael Buszczak, Ph.D.
Lucy Lin	Lamar High School	Matthew Lewis, Ph.D.
Christy Purnadi	R.L. Turner High School	Ming-Chang Hu, M.D., Ph.D.
Wesley Runnels	School of Science and Engineering Magnet	Genevieve Konopka, Ph.D.
Cecilia Serrano	John A. Dubiski Career High School	Vitaly Margulis, M.D.
Carolynn Van Zandt	Waxahachie High School	Benjamin Chen, Ph.D.
Rachana Vemireddy	Plano East High School	David Boothman, Ph.D.

**STARS Summer Research Program 2013
For Students—STARS Associates**

Students Name	School	Host
Sarah Ahmed	Plano East Senior High School	Thomas Carroll, Ph.D.
Dylan Altschuler	St. Mark's School of Texas	Robin Hiesinger, Ph.D.
Mason Amelotte	Jesuit College Preparatory School of Dallas	Deborah Clegg, Ph.D.
Patrick Arraj	Jesuit College Preparatory School of Dallas	Jin Jiang, Ph.D.
Mary Clare Beytagh	The Hockaday School	Kathryn O'Donnell, Ph.D.
Aarohan Burma	St. Mark's School of Texas	Robert Bachoo, M.D., Ph.D.
Jonah Donnenfield	Highland Park High School	Joseph Takahashi, Ph.D.
Angela Hillsman	Greenhill School	Doris Lambracht-Washington, Ph.D.
Trevor Johnson	Jesuit College Preparatory School of Dallas	Dwight German, Ph.D.
Alexis Jones	The Hockaday School	Yuh Min Chook, Ph.D.
Traian Pop	School for the Talented and Gifted at Yvonne A. Ewell Townview Center	Rolf Brekken, Ph.D.
John Rivera	Greenhill School	Christopher Derderian, M.D.
Amy Tao	The Hockaday School	Kim Orth, Ph.D.

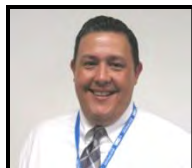
STARS Summer Workshops 2013

With funding from HHMI and TWC, STARS was able to hold 3 Summer Workshops 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 25-28 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 science labs.

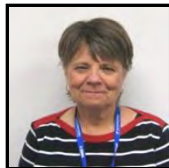
Biology



Master Teachers



Albert Leal
Frisco Centennial
High
School



Jeanie Harding
Highland Park
High
School

Chemistry



Master Teachers



Karen Compton
Plano East
Senior
High School

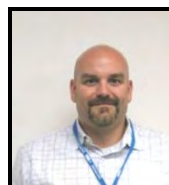


Jane Smith
Frisco Centennial
High
School

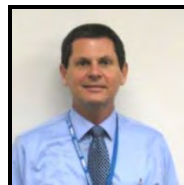
Physics



Master Teachers



Lars Londot
New Tech
High School

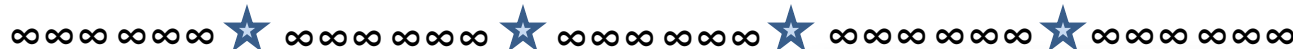


Dr. Kenneth Hahn
The Cambridge
School
Of Dallas



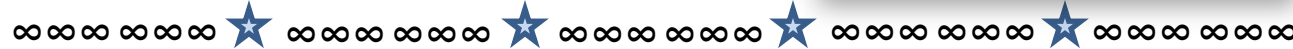
Biology Teachers

- ✓ Shade Badejo
Skyline High School
- ✓ Mae Doubrava
Center for New Lives
- ✓ Jennifer Montoya
Skyline High School
- ✓ Dylan Cowart
Kimball High School
- ✓ Sylvia Herrera
WT White High School
- ✓ Sonja Nix-Jackson
David W Carter
High School
- ✓ Dawn Dickey
Moises E Molina
High School
- ✓ Rhonda Hyde
Williams Preparatory
- ✓ Finny Phillip
LV Berkner High School
- ✓ Rowena Tolentino
Skyline High School



- ✓ Paige Baker
Moises E Molina High School
- ✓ Andrew Palacios
Sunset High School
- ✓ Monalisa Chadha
Emmet J Conrad High School
- ✓ Derek Singleton
Justin F Kimball High School
- ✓ Matthew Griger
Mesquite High School
- ✓ Kelly Suckow
David W Carter High School
- ✓ Nora Lizarraga
WH Adamson High School
- ✓ Jennifer Whitaker-Cooley
Justin F Kimball High School
- ✓ Nekeya Morgan
LG Pinkston High School

Chemistry Teachers



Physics Teachers

- ✓ Laura Atkinson
Emmet J Conrad High School
- ✓ Jason Hogan
Sunset High School
- ✓ Dawn Dickey
Moises E Molina High School
- ✓ Caitlyn Jones
David W Carter High School
- ✓ Samantha Everett
WH Adamson High School
- ✓ Kindra Knight
WW Samuell High School
- ✓ Tina Harris
WW Samuell High School
- ✓ Chris Moore
WW Samuell High School



STARS Upcoming Events

Science Symposia

Calendar of Events 2013 - 2014

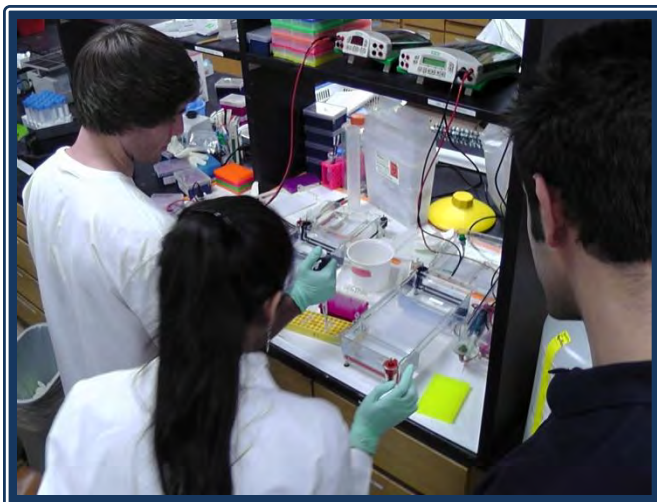
<p>September</p> <p>Mini-Symposium: Cell Architecture Monday, Sept. 9, 2013 5:30 - 8:00 p.m. Lecture Hall, D1.502</p>	<p>October</p> <p>Basic Science Symposium: Frontiers of Biomedical Imaging Sunday, Oct. 21, 2013 9:00 a.m. - 3:00 p.m. Lecture Hall, D1.502 Please Invite Students to Attend With You.</p>
<p>November</p> <p>Mini-Symposium: Neurogenetics Monday, Nov. 4, 2013 7:30 p.m. - 8:00 p.m. Lecture Hall, D1.502</p>	<p>December</p> <p>Teacher In-Service: Yeast—The Ultimate Model System Saturday, Dec. 14, 2013 9:00 a.m. - 3:00 p.m. Meeting Room, To be Determined Limited Enrollment</p>
<p>January</p> <p>Mini-Symposium: Microbes, Friend AND Foe Monday, Jan. 6, 2014 7:30 p.m. - 8:00 p.m. Lecture Hall, D1.502</p>	<p>February</p> <p>Teacher In-Service: Chemistry Workshop Saturday, Feb. 1, 2014 9:00 a.m. - 3:00 p.m. Meeting Room, D1.700 Limited Enrollment</p>
<p>March</p> <p>Special Symposium: Women In Science And Medicine Saturday, Mar. 1, 2014 9:00 a.m. - 3:00 p.m. Lecture Hall, D1.700 Please Invite Female Students to Attend With You.</p>	<p>April</p> <p>Mini-Symposium: Heart Remodeling Monday, April 7, 2014 5:30 p.m. - 8:00 p.m. Lecture Hall, D1.502</p>
<p>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>June</p> <p>Other Important Dates Friday, Dec. 13, 2013 Deadline to submit requests for Science Fair Judges Saturday, Feb. 1, 2014 @ 4 p.m. Application deadline for the Summer Research Program Monday, June 9, 2014 Summer Research Program begins Friday, August 1, 2014 Summer Research Program ends</p>
<p>July</p>	<p>August</p>

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

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



Exploring Post @ UT Southwestern



Upcoming Meetings:
6pm to 7:30pm



Monday-Oct. 21st

2013-2014 Exploring Post Leaders

Monday-Nov. 18th

☉ Cecilia Esquivel, President

Monday-Dec. 16th

☉ Imari Parham, Admin. VP

Monday-Jan. 27th

☉ Christine Ramjee, Programs VP

Monday-Feb. 24th

☉ Tiffany Loe, Secretary

Monday-Mar. 24th

Register For Exploring Post @

Monday-April 21nd

explorer@UTSouthwestern.edu

Monday-May 19th

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

Proteins & Enzymes
Protein Crystal Growth
Genetics
PCR & Gel Electrophoresis
Suturing Techniques

SCIENCE TRIATHLON

Supported by
Howard Hughes Medical Institute

SCIENCE WORKSHOP

Supported by
Texas Workforce Commission

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UT Southwestern is an equal opportunity institution.
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of Texas.

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