

# Agonist

Official Newsletter for the  
Graduate Program in Pharmaceutical Sciences  
Texas Tech University Health Sciences Center  
Amarillo, Texas



Spring 2020  
Issue 25

## UPDATE FROM DR. ABBRUSCATO

This past fall, Thamer Albekairi, Anwar Hossain, Ali Sifat, and Sreedhar Reddy Suthe each defended their Ph.D. doctoral dissertation. We anticipate great success for each of our fall graduates as they begin their new careers in pharmaceutical sciences!

Two new GPPS students, Prapanna Bhattarai and Sejal Sharma, joined us on our Amarillo campus this spring. Prapanna is currently on rotation in Dr. Ulrich Bickel's lab, and Sejal has joined the Abbruscato research group. We trust that both of our new students will have a solid academic and research experience in the GPPS.

Other things to note, during our GPPS Seminar Series this fall, Elizabeth "Beth" Daugherty, a Ph.D. student and research assistant from the Abilene campus, gave an extra "Guest Student Speaker" talk on, "*Lymphangioliomyomatosis (LAM): The Mystery Uncovered*". Beth shared about her personal, firsthand experiences with LAM. She shared how new breakthroughs in research science and successful medical treatments saved her life, and eventually inspired her to study and prepare for pharmaceutical research herself. I know that everyone agrees that Beth's talk was encouraging and a testament to the impact of her science.

Kudos, also, to Ali Keshavarz for winning a "Best Poster Award" at this year's American Association of Pharmaceutical Scientists "PharmSci360" meeting in November. He was one of only three recipients this year, out of more than 6,000 attendees, and he was the first of our GPPS students to receive this award.

We are also very proud that Dr. Constantinos Mikelis was recognized as the "GSBS Outstanding Teacher of the Year" and as the "Graduate Faculty Mentor of the Year". His dedication to graduate student mentoring and education is highly valued by graduate students and faculty alike.



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The Agonist is published every fall and spring semester by the Graduate Program in Pharmaceutical Sciences (GPPS). For updates and new information, e-mail Susan at [susan.king@ttuhsc.edu](mailto:susan.king@ttuhsc.edu).

## FALL 2019 GRADUATES



**Ali Ehsan Sifat, Ph.D.**  
Lab of Dr. Thomas Abbruscato

**Dissertation Presented**  
September 30, 2019

"Effects of nicotine and electronic cigarette exposure on brain glucose utilization and injury outcome in adult and neonatal cerebral ischemia"



**Md. Anwar Hossain, Ph.D.**

Lab of Dr. Nadezhda German

**Dissertation Presented**  
October 7, 2019

"Design, synthesis, and in-vitro evaluation of molecular probes to inhibit quorum sensing of *P. aeruginosa*"  
~[AND]~

"Discovery of small-molecule ligands for kappa-opioid receptor"

**Sreedhar Reddy Suthe, Ph.D.**

Lab of Dr. Ming-Hai Wang

**Dissertation Presented**  
October 11, 2019

"Antibody-Drug-Conjugate Targeting RON Receptor Tyrosine Kinase as a Novel Therapeutic Approach for Eradication of Triple-Negative Breast Cancer Cells and Associated Cancer Stem-Like Cells"



**Thamer Albekairi, Ph.D.**

Lab of Dr. Thomas Abbruscato

**Dissertation Presented**  
October 18, 2019

"Contrasting Effects of Tannic Acid on Angiotensin Type 1 Receptor and Low-Density Lipoprotein Receptor: A Mechanistic Insight into French Paradox"



## SPRING 2020 DISSERTATION DEFENSES

**Md. Yousuf Ali**

Doctoral Dissertation Defense  
Lab of Dr. Margaret Weis  
Friday, January 24, 2020, 12:30pm  
AMA SOP 335 / ABSOP 1130

**Ali Keshavarz**

Doctoral Dissertation Defense  
Lab of Dr. Fakhru Ahsan  
Friday, March 2, 2020, 12:00pm  
AMA SOP 107 / ABSOP 1200

**Ekram Chowdhury**

Doctoral Dissertation Defense  
Lab of Dr. Ulrich Bickel  
Friday, March 6, 2020, 12:30pm  
AMA SOP 107 / ABSOP 1130

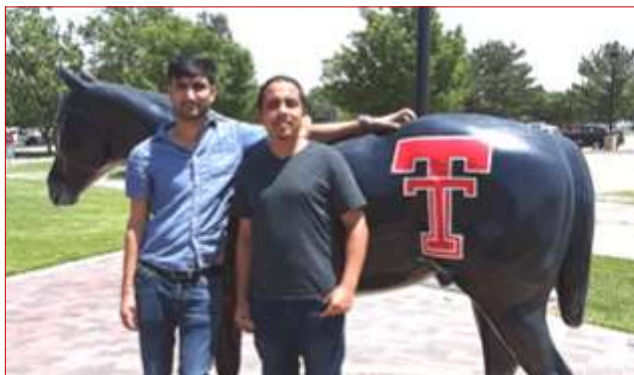
**Faisal Alamri**

Doctoral Dissertation Defense  
Lab of Dr. Vardan Karamyan  
Friday, March 9, 2020, 12:00pm  
AMA PAC 1110 / ABSOP 1130

**Ahmed Alobaida**

Doctoral Dissertation Defense  
Lab of Dr. Fakhru Ahsan  
Friday, March 27, 2020, 12:30pm  
ZOOM

## NEW STUDENTS — SPRING 2020



**Prapanna Bhattarai, MS**

Southern Illinois University  
Edwardsville, Illinois  
Lab: Dr. Ulrich Bickel

**Sejal Sharma, PharmD**

Rajiv Gandhi University  
of Health Sciences  
Karnataka, India  
Lab: Dr. Thomas Abbruscato



**Graduate Program in Pharmaceutical Sciences Class of 2019-2020**

## **WiSE — Women in Science Endeavors** by Yoon Jung Lee

Women in Science Endeavors (WiSE) is a yearly conference in the fields of science, technology, engineering, and mathematics (STEM) for middle-school girls (6th-8th grades) in the Amarillo area. Girls participate in hands-on experiments and demonstrations led by women who work in these disciplines. The goal of the conference is to encourage girls to consider and pursue careers in STEM fields. This year's conference, titled "STEM Always in style," was held on November 9th, 2019, on the campus of Amarillo College. TTUHSC graduate student Yoon Jung Lee joined pharmacy students Tabitha Thompson and Danielle Callaway to lead a workshop entitled 'Lip Balm Activity' in which the girls made personalized lip balm with different flavors and glitters to apply compounding techniques to everyday applications. Moreover, graduate students Sarah Anderson and Fatema Zahra led a workshop entitled "Strawberry DNA Activity," an activity about molecular biology, in which girls extracted DNA from strawberries.



Yoon monitors a student's careful measures.



Yoon gives instructions for 6th-8th graders.



Yoon shows a student how this is done.



Fatema Tuz Zahra and Yoon Jung Lee (left) **Showing their "Guns Up"** — joined by Danielle Callaway and Tabitha Thompson (right).





## GRADUATE STUDENT SEMINAR PROGRAM - FALL 2019

**08/16/19 — Yoon Jung Lee**—“Physical Activity Affects Seizure Threshold in a Corneal Kindling”

**08/23/19 — Md. Ashraf-Uz-Zaman** — “Studies on novel urea-based anticancer agents”

**08/30/19 — Ali Keshavarz** — “Circulating Endothelial Cells (CEC's) as Diagnostic and Prognostic Markers for Pulmonary Arterial Hypertension (PAH): a Proof of Concept Study in PAH Patients”

**08/30/19 — Md. Sanaullah Sajib** — “Mechanistic insights into endothelial RhoA signaling during cancer metastasis”

**09/06/19 — Ahmed Alobaida** — “Repurposing of artesunate, an anti-malarial drug, as an inhaled formulation for the treatment of PAH”

**09/06/19 — Ekram Chowdhury** — “The brain uptake kinetics of markers with low passive permeability: Novel insights from studies with [ $^{13}\text{C}_{12}$ ] Sucrose”

**09/13/19 — Kumari “Iti” Kaushik**, *Oral Qualifying Exam* — “Moxidectin, a novel therapeutic candidate for pediatric medulloblastoma”

**09/20/19 — Sarah Anderson**, *Oral Qualifying Exam* — “Mechanisms of Dysbiosis Relief by Stem Cells in DSS-Induced Colitis”

**09/20/19 — Saeideh Nozohouri**, *Oral Qualifying Exam* — “Evaluating the effect of Neurolysis activators on cerebral edema formation in ischemic stroke”

**09/27/19 — GPPS Student Guest Speaker: Elizabeth “Beth” Daughterity, B.S. Chemistry**, Graduate Student/Research Assistant, Dept. of Immunology & Biotechnology, TTUHSC GSBS/GPPS, Abilene — “Lymphangiomyomatosis: The Mystery Uncovered”

**09/30/19 — Ali Sifat**, *Doctoral Dissertation Defense* — “Effects of nicotine and electronic cigarette exposure on brain glucose utilization and injury outcome in adult and neonatal cerebral ischemia”

**10/07/19 — Md. Anwar Hossain**, *Doctoral Dissertation Defense* — “Design, synthesis, and in-vitro evaluation of molecular probes to inhibit quorum sensing of *P.aeruginosa*”

...AND...

— “Discovery of small-molecule ligands for kappa-opioid receptor”

**10/11/19 — Sreedhar Reddy Suthe**, *Doctoral Dissertation Defense* — “Antibody-Drug-Conjugate Targeting RON Receptor Tyrosine Kinase as a Novel Therapeutic Approach for Eradication of Triple-Negative Breast Cancer Cells and Associated Cancer Stem-Like Cells”

**10/18/19 — Thamer Albekairi**, *Doctoral Dissertation Defense* — “Ischemic Brain Transport and Cerebrovascular Protective Properties of a Potent Opioid Receptor Agonist, Biphalin”

**10/25/19 — Behnaz Lahooti**, *Oral Qualifying Exam* — “Investigating the role of OLT1177 as a neuroprotecting agent against HIV-1 and drug-abuse associated neuroinflammation”

**10/25/19 — Fatema Zahra** — “Targeting endothelial RhoA in angiogenesis: overcoming current anti-angiogenic pitfalls”

**11/01/19 — Hossam Abdelrahman**, *Oral Qualifying Exam* — “Three-dimensional (3D)-printed dosage forms for pediatric patients with pulmonary hypertension”

**11/01/19 — Derek Barthels**, *Oral Qualifying Exam* — “Determination of hypoxia-primed dental-pulp stem cells for the treatment of spinal cord injury”

**11/08/19 — Carl “Joey” Greene**, *Oral Qualifying Exam* — “Mesenchymal stem cells (MSC)/Dental-pulp stem cells (DPSC) secretory products for treating chronic wounds in a preclinical model”

**11/15/19 — Behnam Noorani**, *Oral Qualifying Exam* — “Evaluation of barrier function and transport study of a 3D bio-printed in-vitro model of human iPSC-derived blood-brain barrier microvessels”

**11/22/19 — Farzane Sivandzade** — “Anti-Diabetic Countermeasures against Tobacco-Smoke-Dependent Cerebrovascular Toxicity: In-Vivo Use and Effect of Rosiglitazone”

**11/30/18 - Ekram Chowdhury** - “Isoflurane anesthesia may increase the permeability of the blood-brain barrier by acting on membrane lipids”

**12/06/19 — Faisal Alamri** — “Dose-Dependent Atomoxetine or Fluoxetine Treatment with Low-Duration Voluntary Running Facilitates Recovery of the Motor Function after Photothrombotic Stroke in Mice”

**12/06/19 — Snehal Raut** — “Assessing the impact of Alzheimer's disease at the blood-brain barrier (BBB) in vitro using induced pluripotent stem cells (iPSCs)”

**"Kindness is a language  
which the deaf can hear  
and the blind can see."**

**~ Samuel L. Clemens ~  
(aka Mark Twain)**

## PUBLICATIONS

≈Syeara N, **Alamri FF, Jayaraman S**, Lee P, Karamyan ST, Arumugam TV, Karamyan VT. Motor deficit in the mouse ferric chloride-induced distal middle cerebral artery occlusion model of stroke. *Behav Brain Res*. 2020 Feb 17; 380:112418. Epub 2019 Dec 5.

≈**Albekairi TH**, Vaidya B, Patel R, **Nozohouri S**, Villalba H, Zhang Y, Lee YS, Al-Ahmad A, Abbruscato TJ. Brain Delivery of a Potent Opioid Receptor Agonist, Biphalin during Ischemic Stroke: Role of Organic Anion Transporting Polypeptide (OATP). *Pharmaceutics*. 2019 Sep 10;11(9). pii: E467.

≈**Archie SR, Cucullo L**. Harmful Effects of Smoking Cannabis: A Cerebrovascular and Neurological Perspective. *Front. Pharmacol*. 2019 Dec 06;10:1481. [Review Article]

≈**Bagchi S, Chhibber T, Lahooti B**, Verma A, Borse V, Jayant RD. In-vitro blood-brain barrier models for drug screening and permeation studies: An overview. *Drug Des Devel Ther*. 2019 Oct 18;13:3591-3605.

≈**Bhalerao A, Sivandzade F, Archie SR**, Cucullo L. Public Health Policies on E-Cigarettes. *Int J Mol Sci*. 2019 Aug 29;20(17). pii: E4225.

≈**Chhibber T, Bagchi S, Lahooti B**, Verma A, Al-Ahmad A, Paul MK, Pendyala G, Jayant RD. CNS organoids: An innovative tool for neurological disease modeling and drug neurotoxicity screening. *Drug Discov Today*. 2019 Nov 26. pii: S1359-6446(19)30452-0. [Epub ahead of print]

≈**Chhibber T**, Gondil VS, Sinha VR. Development of Chitosan-Based Hydrogel Containing Antibiofilm Agents for the Treatment of Staphylococcus Aureus-Infected Burn Wound in Mice. *AAPS PharmSciTech*. 2020 Jan 2;21(2):43.

≈Patel J, **Chowdhury EA, Noorani B**, Bickel U, Huang J. Isoflurane increases cell membrane fluidity significantly at clinical concentrations. *Biochim Biophys Acta Biomembr*. 2020 Feb 1;1862(2):183140. Epub 2019 Nov 29.

≈PS.Krishnamoorthy, S Wadnap, **B Noorani**, H Xu, C Xu. Investigation of gelatin methacrylate working curves in dynamic optical projection stereolithography of vascular-like construct. *European Polymer Journal*. 2020 Feb 5;124(109487):1-9. Epub 2020 Jan 7.

≈Krishnamoorthy S, **Noorani B**, Xu C. Effects of Encapsulated Cells on the Physical-Mechanical Properties and Microstructure of Gelatin Methacrylate Hydrogels. *Int J Mol Sci*. 2019 Oct 12;20(20). pii: E5061.

≈**Saeideh Nozohouri, Ali Ehsan Sifat**, Bhuvaneshwar Vaidya, Thomas J. Abbruscato. Novel approaches for the delivery of therapeutics in ischemic stroke. *Drug Discov Today*. 2020 Jan 21. pii: S1359-6446(20)30033-7. [Epub ahead of print] Review.

≈Ranjan A, **Ramachandran S**, Gupta N, **Kaushik I**, Wright S, Srivastava S, Das H, Srivastava S, Prasad S, Srivastava SK. Role of Phytochemicals in Cancer Prevention. *Int J Mol Sci*. 2019 Oct 9;20(20). pii: E4981. Review.

≈Jayaraman S, **Al Shoyaib A**, Kocot J, Villalba H, **Alamri FF**, Rashid M, Wangler NJ, **Chowdhury EA**, German N, Arumugam TV, Abbruscato TJ, Karamyan VT. Peptidase neurolysin functions to preserve the brain after ischemic stroke in male mice. *J Neurochem*. 2019 Sep 5. [Epub ahead of print]

≈**Al Shoyaib A, Archie SR**, Karamyan VT. Intraperitoneal Route of Drug Administration: Should It Be Used in Experimental Animal Studies? *Pharm Res*. 2019 Dec 23;37(1):12.

≈**Sifat AE, Nozohouri S**, Villalba H, **Al Shoyaib A**, Vaidya B, Karamyan VT, Abbruscato T. Prenatal electronic cigarette exposure decreases brain glucose utilization and worsens outcome in offspring hypoxic-ischemic brain injury. *J Neurochem*. 2019 Dec 28:e14947. [Epub ahead of print]

≈**Sivandzade F**, Cucullo L. Anti-Diabetic Countermeasures Against Tobacco Smoke-Dependent Cerebrovascular Toxicity: Use and Effect of Rosiglitazone. *Int J Mol Sci*. 2019 Aug 29;20(17). pii: E4225.

≈**Zahra FT, Sajib MS**, Ichiyama Y, **Akwii RG**, Tullar PE, Cobos C, Minchew SA, Doçi CL, Zheng Y, Kubota Y, Gutkind JS, Mikelis CM. Endothelial RhoA GTPase is essential for in-vitro endothelial functions but dispensable for physiological in vivo angiogenesis. *Sci Rep*. 2019 Aug 12;9(1):11666.

Einstein was once asked how it felt to be the smartest man alive. Einstein's reply was, "I don't know, you'll have to ask Nikola Tesla."

# AWARDS & SCHOLARSHIPS

## Sounak Bagchi:

- ♦ Milton "Buff" Morris Scholarship, Opportunity Plan Educational Loans and Scholarships, Fall 2019.

## Ekram Chowdhury:

- ♦ Mary Lou Clements-Mann Scholarship, TTUHSC Graduate School of Biomedical Sciences (GSBS), Fall 2019.
- ♦ Best Abstract Award [titled "In Vitro Characterization and Targeted Delivery of Hydroxyethyl Starch-Polyethyleneimine Based Polyplexes Using a Transferrin Receptor Antibody (8D3)"], American Association of Pharmaceutical Scientists, PharmSci360, San Antonio, TX; November 2019.
- ♦ Best Abstract Award [titled "In-Vitro and In-Vivo Interpretations of Effect of Isoflurane Anesthesia on Membrane Lipids of Blood-Brain Barrier: Potential Clinical Implications"], American Association of Pharmaceutical Scientists, PharmSci360, San Antonio, TX; November 2019.
- ♦ Graduate Student Association in Amarillo (GSAA) Best Seminar Award for Fall 2019.

## Md. Anwar Hossain:

- ♦ Mary Lou Clements-Mann Scholarship, TTUHSC Graduate School of Biomedical Sciences (GSBS), Fall 2019.

## Kumari Itishree "Iti" Kaushik:

- ♦ Mary Lou Clements-Mann Scholarship, TTUHSC Graduate School of Biomedical Sciences (GSBS), Fall 2019.

## Ali Keshavarz:

- ♦ American Association of Pharmaceutical Scientists Travelship (sponsored by Pfizer), AAPS PharmSci360, San Antonio, TX; November 2019.
- ♦ Best Poster Award [titled "Circulating Endothelial Cells (CECs) as a Diagnostic and Prognostic Marker for Pulmonary Arterial Hypertension (PAH): A Proof of Concept Study in PAH Patients"], American Association of Pharmaceutical Scientists, PharmSci360, San Antonio, TX; November 2019.

## Behnaz Lahooti:

- ♦ American Association of Pharmaceutical Scientists (AAPS) Best Abstract Award, AAPS PharmSci360, San Antonio, TX; November 2019.
- ♦ American Association of Pharmaceutical Scientists (AAPS) / AstraZeneca Travel Reimbursement, AAPS PharmSci360, San Antonio, TX; November 2019.

## Yoon Jung Lee:

- ♦ Phonathon Scholarship, TTUHSC Student Government Association (SGA), selected February 2019, to be applied graduating term {Sp/Sum'20}..

## Snehal Raut:

- ♦ American Association of Pharmaceutical Scientists (AAPS) Best Poster Award, AAPS PharmSci360, San Antonio, November 2019.
- ♦ Cayman Chemical Travel Award, American Association of Pharmaceutical Scientists (AAPS) PharmSci360, San Antonio, TX; November 2019.
- ♦ Agilent Technologies, Seahorse Travel Award, American Association of Pharmaceutical Scientists (AAPS) PharmSci360, San Antonio, TX; November 2019.

## Md. Sanaullah Sajib:

- ♦ Graduate Student Association in Amarillo (GSAA) Best Seminar Award for Fall 2019.

## Ali Ehsan Sifat:

- ♦ Dean's Scholars Award 2019, TTUHSC Graduate School of Biomedical Scientists (applied every year until graduation).
- ♦ Best Abstract Award, American Association of Pharmaceutical Scientists (AAPS) PharmSci 360, San Antonio, TX; November 2019.

## Fatema Tuz Zahra:

- ♦ Mary Lou Clements-Mann Scholarship, TTUHSC Graduate School of Biomedical Sciences, Fall 2019.
- ♦ Poster Award [titled "Role of small GTPase RhoA in basic fibroblast growth factor (bFGF)-induced angiogenesis"], Gordon Research Seminar, Angiogenesis, Newport, RI; August 2019.

## CONFERENCE PRESENTATIONS


**Novartis Quantitative Sciences ~ Academia-to-Industry Hackathon**  
 Cambridge, MA ~ Aug. 12-23, 2019

**Ekram Ahmed Chowdhury**, Faleh Alqahtani, Behnam Noorani, Md Sanaulah Sajib, Constantinos M Mikelis, Reza Mehvar, Ulrich Bickel. "Blood-brain barrier permeability of [ $^{13}\text{C}$ ]sucrose in young adult and aged mice"

**Abilene Research Symposium**
**TTUHSC School of Public Health, Abilene, TX ~ Oct. 11, 2019**

 Abilene Research  
Symposium

**YoonJung Lee**, Alejandra Fernandez, James Stoll. "The anticonvulsant effect of physical activity differs between sexes in the mouse corneal kindling model"


 2019 Annual Meeting  
October 16-19, 2019  
Philadelphia

**Biomedical Engineering Society**  
 Philadelphia, PA ~ Oct. 16-19, 2019

**Ali Keshavarz**, Wei Li, Fakhru Ahsan. "A Two-Compartment Tissue-Chip to Recapitulate the Right Ventricle and Pulmonary Artery as a Single Functional Unit for Studying PAH-Induced RVH and to Optimize PAH Therapy" [Podium Presentation]

**Society for Neuroscience**  
 Chicago, IL ~ Oct. 19-23, 2019

 SOCIETY for  
NEUROSCIENCE

**Yousuf Ali**, Margaret Teresa Weis. "Inhibition of Long-Chain Fatty Acyl CoA Synthetase Modulates Inducible Nitric Oxide Synthase Expression"

**Mohammad Anwar Hossain**, Guangchen Ji, Thomas J. Abbruscato, Volker Neugebauer, Nadezhda A. German. "Development of selective kappa opioid receptor antagonists for the treatment of chronic neuropathic pain"

**Ali Ehsan Sifat**, Saeideh Nozohouri, Heidi Villalba, Bhuvaneshwar Vaidya, Thomas Abbruscato. "Maternal Electronic Cigarette Use Can Cause Cognitive Dysfunction Offspring & Increased Sensitivity to Hypoxic-Ischemic Brain Injury"


 National Institutes of Health  
Turning Discovery Into Health

**National Institutes of Health (NIH)**  
**Tobacco Regulatory Science (TRS) Meeting**  
 Bethesda, MD ~ Oct. 21-23, 2019

**Aditya Bhalerao**, Luca Cucullo. "Tobacco Smoke and HIV-1 gp120-Induced Toxicity – Implications for Blood-Brain Barrier Integrity"

**Society for Immunotherapy of Cancer [SITC]**  
 Gaylord, MD ~ Nov. 6-10, 2019

 SITC  
2019

 NOVEMBER 6-10  
NATIONAL HARBOR,  
MARYLAND  
Gaylord National Hotel &  
Casino & Convention Center

**Sreedhar Reddy Suthe**, Hang-Ping Yao, Xiang-Ming Tong, and Ming-Hai Wang, "RON Receptor Tyrosine Kinase as a Critical Contributor in Cancer Stemness and a Target of Antibody-Drug Conjugates for Eradication of Triple-Negative Breast Cancer (TNBC)"


**Lone Star Regional Chapter of the**  
**Society of Toxicology**  
 Galveston, TX ~ Nov. 14-15, 2019

**Md Ashraf-Uz-Zaman**, Md Sanaulah Sajib, Karina Alvina, Mirla Avila, Guangchen Ji, Volker Neugebauer, Constantinos M. Mikelis, Nadezhda A. German. "Discovery, structure-activity relationship study, and in vivo evaluation of novel series of mono-amine transporter inhibitors" [Oral Presentation]



## CONFERENCE PRESENTATIONS



**American Association of Pharmaceutical Scientists, PharmSci360  
San Antonio, TX ~ Nov. 3-6, 2019**

**Albekairi T**, Vaidya B, Nozohouri S, Villalba H, Zhang Y, Abbruscato T. "Blood-Brain Barrier Protective Properties of a Potent Opioid Receptor Agonist, Biphalin, During Stroke"

**Md. Yousuf Ali**, Margaret Teresa Weis. "Inhibition of Long-Chain Fatty Acyl CoA Synthetase Modulates Inducible Nitric Oxide Synthase Expression"

**Ahmed Alobaida**, Fakhrul Ahsan. "Repurposing artesunate, an anti-malarial drug, as an inhaled formulation for the treatment of pulmonary arterial hypertension"

**Md Ashraf-Uz-Zaman**, Md Sanaullah Sajib, Wei Wang, Ruiwen Zhang, Constantinos M. Mikelis, Nadezhda A. German. "Discovery of novel compounds to treat metastatic triple-negative breast cancer"

**A. Bhalerao** and L. Cucullo. "Tobacco Smoke and HIV-1 gp120 Induced Toxicity – Implications for Blood Brain Barrier Integrity"

**Ekram Ahmed Chowdhury**, Faleh Alqahtani, Behnam Noorani, Jigesh Patel, Juyang Huang, Ulrich Bickel. "In-Vitro and In-Vivo Interpretations of Effect of Isoflurane Anesthesia on Membrane Lipids of Blood-Brain Barrier: Potential Clinical Implications"

**Ekram Ahmed Chowdhury**, Franz Hack, Behnam Noorani, Dagmar Fischer, Ulrich Bickel. "Targeted Delivery of Hydroxyethyl Starch-Polyethyleneimine-Based Polyplexes Using 8D3 Antibody" ["Rapid Fire" Oral Presentation]

**Mohammad Anwar Hossain**, Wei Li, Kendra Rumbaugh, Nadezhda A. German. "Design and Synthesis of Dual-Acting Quorum Sensing Inhibitors to Suppress the Virulence Program of *Pseudomonas Aeruginosa*"

**Ali Keshavarz**, Wei Li, Fakhrul Ahsan. "Circulating endothelial cells (CECs) as a diagnostic and prognostic marker for pulmonary arterial hypertension (PAH): A proof of concept study in PAH patients" ["Rapid Fire" Oral Presentation]

**Lahooti Behnaz** and Rahul Dev Jayant. "High Throughput Technique for Developing Non-Viral Nanoparticles for Gene Delivery"

**Yoon Jung Lee**, Alejandra Fernandez, James Stoll. "The Anticonvulsant Effect of Physical Activity Differs Between Sexes in the Mouse Corneal Kindling Model"

**Behnam Noorani**, Ekram Ahmed Chowdhury, Faleh Alqahtani, Dhavalkumar Patel, Reza Mehvar, Ulrich Bickel. "Development of a LC-MS/MS-based method for the simultaneous use of mannitol and sucrose as markers of blood-brain barrier integrity"

**Snehal Raut**, Ronak Patel, Abraham Al-Ahmad. "Effect of Presenillin (PS) Mutations on the Blood-Brain Barrier Function In Vitro Using Patient-Derived Induced Pluripotent Stem Cells"

**Md Sanaullah Sajib**, Fatema Tuz Zahra, Jee Hyun Park, Paul E. Tullar, Sanjay K. Srivastava, Ulrich Bickel, Constantinos M. Mikelis. "Inhibition of Endothelial RhoA-ROCK pathway blocks cancer Metastasis"

**Abdullah Al Shoyaib**, Faisal F. Alamri, Nausheen Syera, Srinidhi Jayaraman, Serob Karamyan, Thiruma V. Arumugam, Vardan T. Karamyan. "Repurposing Panobinostat and Entinostat in Combination with Exercise for Motor Function Recovery after Ischemic Stroke in Mice"

**Ali Ehsan Sifat**, Saeideh Nozohouri, Heidi Villalba, Bhuvaneshwar Vaidya, Thomas Abbruscato. "Evaluating the Neurotoxic Effects of Prenatal Electronic Cigarette Exposure on Offspring Using In-Vitro & In-Vivo Models"

**Farzane Sivandzade**, Luca Cucullo. "Anti-Diabetic Countermeasures Against Tobacco Smoke-Dependent Cerebrovascular Toxicity: Use and Effect of Rosiglitazone"

**Sreedhar Reddy Suthe**, Hang-Ping Yao, Xiang-Ming Tong, and Ming-Hai Wang, "RON Receptor Tyrosine Kinase as a Critical Contributor in Cancer Stemness and a Target of Antibody-Drug Conjugates for Eradication of Triple-Negative Breast Cancer (TNBC)"



2019 AAPS ANNUAL TTUHSC JERRY H. HODGE  
SCHOOL OF PHARMACY ALUMNI & FRIENDS RECEPTION  
November 5 ~ 5:30-7:30 PM ~ Grand Hyatt, San Antonio, TX



L-R: Drs. Quentin Smith  
and David Allen



L-R: Drs. David Allen, Thomas Abbruscato, Vamshi Manda,  
Quentin Smith, and Mohammad Nutan



L-R: Drs. Rajareddy Kallem, Rahul Dev Jayant,  
Bhuvaneshwar Vaidya, Fakhrul Ahsan,  
Amit Rawat, and Vivek Gupta



L-R: Dr. David Smith and his wife  
(from the University of Michigan)  
with Dr. Thomas Abbruscato



L-R: Md. Yousuf Ali, Yoon Jung Lee, Md. Ashra-Uz-Zaman, Sreedhar Reddy Suthe,  
Guanyu Tao, Md. Sanaullah Sajib, Teresa Carlisle, Ali Ehsan Sifat

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## Student Research Week

Now in its 32nd year, Student Research Week (SRW) is the annual celebration of our outstanding TTUHSC student research. SRW is organized by the Graduate Student Association (GSA) of the **Graduate School of Biomedical Sciences**, and consists of keynote addresses, student presentations, poster competition for students, a fundraising banquet, and a vendor show. This provides an opportunity for students from the GSBS, the School of Medicine, the School of Nursing, the TTU campus, the Abilene and Amarillo campus, and colleges from New Mexico and the local area to present and explore new research, and to foster interactions between students and faculty. SRW is one of the largest events at TTUHSC, and includes over 300 participants. Although the event has a biomedical theme, the poster sessions are open to all biological research areas. Judges evaluate a given hypothesis and the methods used to research that hypothesis, as well as the ability to clearly present original ideas. The theme for this year's SRW was "20/20 Visions of Biochemistry", scheduled for **March 10-13, 2020**.

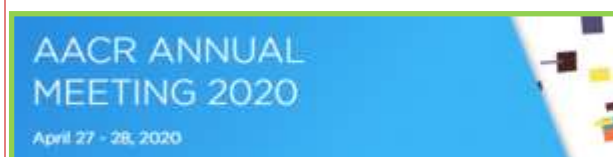
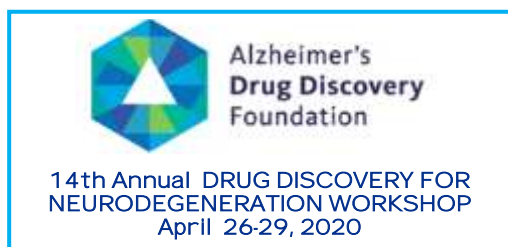
### Keynote Speakers:

- \* **Ernest M. Wright, D.Sc.**, Professor of Physiology, Brain Research Institute, UCLA
- \* **Vadivel Ganapathy, Ph.D.**, Professor/Chair, Dept. of Cell Biology & Biochemistry, TTUHSC School of Medicine, Lubbock

## SPRING CONFERENCES



Check websites  
for updates  
on virtual or  
rescheduled  
meetings.



## ALUMNI DIRECTORY

2001

**Vikas Agarwal, Ph.D.**  
CIMA Labs  
Brooklyn Park, MN

**Sivakumar Vaithiyalingam, Ph.D.**  
Review Chemist/Staff Fellow  
Division of Chemistry  
OPS/CDER/FDA  
Rockville, MD

2002

**Sami Nazzal, Ph.D.**  
Professor  
TTUHSC SOP  
Dept. of Pharm. Sci.  
Dallas, TX

2003

**Paul Lockman, Ph.D.**  
Professor, Benedum Fellow  
and the Mylan Endowed Chair  
Asst. Vice President of Experimental Therapeutics  
Senior Associate Dean of Research and Strategic Initiatives,  
School of Pharmacy  
West Virginia University HSC  
Morgantown, WV

2004

**Fatima Mustafa, M.S., R.Ph.**  
Rite Aid  
State College, PA

**Anitha Palamakula, Ph.D., R.Ph.**  
CDER/FDA  
Rockville, MD

**Rakhi Shah, Ph.D.**  
FDA  
Silver Springs, MD

**Mohammad Nutan, Ph.D.**  
Associate Professor  
Dept. of Pharm. Sci.  
Rangel College of Pharmacy  
Texas A&M HSC  
Kingsville, Texas

2005

**Anjaneya Chimalakonda, Ph.D.**  
Bristol-Myers Squibb Co.  
Pennington, NJ

**Ragini Vuppugalla, Ph.D.**  
Bristol-Myers Squibb  
Princeton, NJ

**Alamdar Hussain, Ph.D.**  
Dept. of Basic Pharm. Sci.  
College of Pharmacy  
University of Oklahoma  
Oklahoma City, OK

**Haritha Mandula, Ph.D.**  
FDA  
Derwood, MD

**Jagan Mohan Parepally, Ph.D.**  
FDA  
Derwood, MD

2006

**Young Tag Ko, Ph.D.**  
Gwangju Inst. of Science & Tech.  
Gwangju, South Korea

**Nusrat Motlekar, Ph.D.**  
FDA  
Silver Springs, MD

**Vaughan Wittman, Ph.D.**  
Director, Immunoassay Dev.  
Sanofi Pasteur VaxDesign Corp.  
Orlando, FL

**Joachim Hartman, Ph.D.**  
Senior Manager  
CMC Dossier Leadership  
Biopharma Business of Merck  
Darmstadt, Hessen, Germany

**Celee Spidel, Ph.D.**  
Clinical Liaison Executive  
Clearvyuh  
Amarillo, TX

**Julie Gaasch Lockman, Ph.D.**  
Associate Professor, West Virginia University School of Medicine, Director of Faculty Affairs and Academic Initiatives, WVUHS,  
Director of Scientific Dev., West Virginia Clinical & Translational Science Institute  
Morgantown, WV

**Cornelia Kiewert, Ph.D.**  
Stiftslinikum Mittelrhein gGmbH  
Klorenz, Germany

2007

**Chaitanya Chimalakonda, M.S.**  
CDER/FDA  
Maryland

**Jennifer Paulson, Ph.D., Pharm.D.**  
Target Pharmacy  
Amarillo, Texas

2008

**James Egbert, M.S.**  
Sequencing Specialist  
Roche Sequencing  
Philadelphia, PA

**Jiukuan Hao, Ph.D.**  
Dept. of Pharm. Sci.  
Winkle College of Pharmacy  
Cincinnati, OH

**Shuhua Bai, Ph.D.**  
Associate Professor  
Dept. of Basic Pharm. Sci.  
School of Pharmacy  
Husson University  
Bangor, ME

**Fancy Thomas, Ph.D.**  
Prescient Life Sciences  
Bengaluru, Karnataka, India

**Sharanya Vemula, Ph.D.**  
Clinical Research/Med. Dept.  
Fresenius Medical Care North America  
Boston, MA

2009

**Katie Bennett, Ph.D.**  
Associate Professor  
TTUHSC, Mol. Pathology and Clinical Lab. Sciences Prog.  
Lubbock, TX

**Chandan Thomas, Ph.D.**  
Chemist  
FDA  
Silver Spring, MD

**Lloyd Alfonso, Ph.D.**  
Associate Professor  
D'Youville College  
School of Pharmacy  
Pharmaceutical Sciences  
Buffalo, NY

**Nikhil Vad, Ph.D.**  
Scientist II  
Atreca, Inc.  
San Francisco Bay Area

**Imam Shaik, Ph.D.**  
Postdoctoral Associate  
Dept. of Pharm. Sci.  
University of Pittsburgh SOP  
Pittsburgh, PA

2010

**Erika Wisdom, M.S.**  
Deputy Assistant Manager for Nuclear Safety, Eng., & Readiness  
Department of Energy  
National Nuclear Sec. Admin.  
Los Alamos Field Office  
Los Alamos, NM

**Sunny Guin, Ph.D.**  
Principal Scientist  
Translational Medicine  
Sema4  
Stamford, CT

**Vamshi Manda, Ph.D.**  
Lead Scientist  
Covance  
Salt Lake City, UT

**Ridhi Parasrampur, Ph.D.**  
Sen. Sci., Pharmacokinetics,  
Pharmacodynamics  
Allergan  
Philadelphia, PA

**Sarah Willis, M.S.**  
Veteran's Administration  
Amarillo, TX

**Vivek Gupta, Ph.D.**  
Assistant Professor  
Industrial Pharmacy  
St. John's University  
Queens, NY

**Rajendar Mittapalli, Ph.D.**  
Associate Director  
Clinical Pharmacology  
Pfizer  
San Diego, CA

**Arun Satelli, Ph.D.**  
Associate Director  
Immatics Biotechnologies  
Houston, TX

**Rachita Sumbria, Ph.D.**  
Associate Professor  
Keck Graduate Institute  
Anaheim, CA

**Kunal Taskar, Ph.D.**  
GSK Fellow and Global PBPK Team Leader  
DMPK Modelling at Glaxo  
SmithKline Pharma GmbH  
Stevenage, Hertfordshire, UK

2011

**Venkateswaran Chithambaram Pillai, Ph.D.**  
Senior Staff Fellow  
FDA  
Clinical Pharmacology  
Silver Spring, MD

**Satyanarayana Goda, Ph.D.**  
Research Scientist  
Formurex, Inc.  
Stockton, CA

**Vinay Rudraraju, Ph.D.**  
Sr. Principal Scientist  
Takeda Oncology  
Cambridge, MA

**Li Yang, Ph.D.**  
Staff Fellow  
FDA  
Silver Spring, MD

**Kaci Bohn, Ph.D.**  
Associate Professor  
TTUHSC SOP  
Dept. of Pharm. Sci.  
Amarillo, TX

**Russell Snyder, Ph.D.**  
Assistant Professor  
TTUHSC SOP  
Dept. of Pharm. Sci.  
Amarillo, TX

**Bhavna Verma, Ph.D.**  
Scientist II  
Immuno-Oncology  
Rockville, MD

(Continued on page 12)



## ALUMNI DIRECTORY

**Yan Xu, Ph.D.**

Scientist  
Quant. Clin. Pharmacology  
Acerta  
San Francisco, CA

**Shashi Kudugunti, Ph.D.**

Sr. Scientist  
Repligen Corporation  
Boston, MA

**Ramakrishna Samala, Ph.D.**

Assistant Professor  
South University SOP  
Columbia, SC

**2012****Prabodh Kandala, Ph.D.**

Senior Scientist  
Roivant Sciences  
Drug Product Development  
Morrisville, NC

**Siva Koganti, Ph.D.**

Assistant Professor  
TTUHSC SOP  
Dept. of Pharm. Sci.  
Abilene, TX

**Snehal Padhye, Ph.D.**

Sen. Technical Sales Specialist  
Charles River Laboratories  
Boston, MA

**2013****Hussaini Syed Sha Qhattal, Ph.D.**

Drug Product Dev. Spec.  
Novan, Inc.

**Shuangling Zhang, Ph.D.**

Business Dev  
Salubris  
Chengdu, Sichuan, China

**Chris Adkins, Ph.D.**

Assistant Professor  
School of Pharmacy  
South University  
Savannah, GA

**Mamoon Rashid, Ph.D.**

Assistant Professor  
Appalachian College of Pharm.  
Dept. of Pharm. Sci.  
Oakwood, VA

**Kaushik Shah, Ph.D.**

Pharmacy Manager  
Walmart  
Amarillo, TX

**Ameya Paranjpe, Ph.D.**

Cary, NC

**2014****Shahriar (Abir) Absar, Ph.D.**

Senior Clinical Pharmacology  
Rev.  
Office of Clinical Pharmacology  
Office of Translational Science  
CDER/FDA  
Silver Spring, MD

**Nina Blakeman, Ph.D.**

College of Nursing and Health  
Care  
Professions (On-line)  
Grand Canyon University  
Tulsa, TX

**Parul Gupta, Ph.D.**

Principal Scientist  
Pfizer Inc.  
San Diego, CA

**Brijesh Patel, Ph.D.**

Director R & D  
DS Laboratories  
Tampa, FL

**Sharad Sharma, Ph.D.**

Principal Scientist  
NBE-Pharmacokinetics  
Boehringer Ingelheim  
New York City, NY

**Naomi Wangler, Ph.D.**

Cell & Molecular Biologist,  
Pharmaceutical Scientist  
Program Manager, Information  
Liaison  
Abilene Christian University  
Chicago, IL

**Manoj Banjara, Ph.D.**

Healthcare Analytics  
Data Science Biostatistical  
Prog.  
Business Intelligence  
Pittsburgh, PA

**Nilesh Gupta, Ph.D.**

Chief Scientific Officer / Co-  
Founder  
Neofluidics LLC  
San Diego, CA

**Jun Liu, Ph.D.**

Research Scientist  
WuXi App Tec  
Plainsboro, NJ

**Subhasree Nag, Ph.D.**

Sr. Consultant  
Life Sciences Scientific R & D  
Translational Science  
Bengaluru Area, India

**Kamrun (Shumi) Nahar, Ph.D.**

Pharmacologist  
Office of New Drug Products  
(ONDP), Office of Pharmaceu-  
tical Quality (OPQ), US CDER/  
FDA  
Silver Spring, MD

**2015****Rajiv Balyan, Ph.D.**

Clinical Pharmacology Fellow  
Cincinnati Children's Hospital  
Medical Center  
Cincinnati, OH

**Raktima Bhattacharya, Ph.D.**

Post-Doc Res Associate  
Texas A&M University SOP  
College Station, TX

**Pooja Naik, Ph.D.**

Scientist  
John Hopkins University  
Division of Rheumatology  
Baltimore, MD

**Vindhya Edpuganti, Ph.D.**

Senior Research Associate  
TTUHSC  
Dallas, TX

**Md. Kowser Miah, Ph.D.**

Clinical Pharmacologist  
AstraZeneca  
Waltham, MA

**Raghavender Chivukula, Ph.D.**

Cancer Immunotherapy Scien-  
tist  
Kite Pharma  
San Francisco, CA

**Neel Fofaria, Ph.D.**

Partner MP Advisors  
(Mehta Partners, LLC)  
Vadodara, Gujarat, India

**Md. Rashedul Islam, Ph.D.**

Post-Doctoral Research Fellow  
Neuroprotection Research Lab  
MGH/Harvard Medical School  
Boston, MA

**Sukesh Voruganti, Ph.D.**

Sr. Principal Investigator  
Covance  
Indianapolis, IN

**2016****Kito Barrow, Ph.D.**

Teaching Faculty  
Dallas Nursing Institute  
Dallas, TX

**Alejandra Fernandez, Ph.D.**

Post-Doctoral Fellow  
Emory University  
Atlanta, GA

**Md. Jahidur Rashid, Ph.D.**

Senior Scientist  
Pharmacometrics,  
Clinical Pharmacology  
Halozyme Therapeutics, Inc.  
San Diego, CA

**Debasish Basak, Ph.D.**

Post-Doctoral Fellow  
MD Anderson  
Houston, TX

**Tanvirul Hye, Ph.D.**

Assistant Professor  
TTUHSC SOP  
Dept. of Pharm. Sci.  
Abilene, TX

**2017****A.G.M. Mostofa, Ph.D.**

Research Fellow  
FDA (ORISE)  
Silver Spring, MD

**Benard Ogola, Ph.D.**

Post-Doctoral Fellow  
Tulane University School of  
Med.  
Dept. of Pharmacology  
New Orleans, LA

**Jee Hyun Park, Ph.D.**

Post-Doctoral Scientist  
Eli Lilly and Company  
Washington, DC

**Alok Ranjan, PhD.**

Research Scientist  
Massey Cancer Center, VCU  
Richmond, VA

**Shikha, Ph.D.**

Post-Doctoral Scientist  
Biogen  
Cambridge, MA

**2018****Nihar Kinarivala, Ph.D.**

Drug Discovery Scientist  
Memorial Sloan Kettering Can-  
cer Center  
New York City, NY

**Hanumantha Rao Madala, Ph.D.**

Research Fellow  
Massachusetts Gen. Hospital  
Boston, MA

**Kshitij Verma, Ph.D.**

Post-Doctoral Research Assoc.  
Genentech  
San Francisco, CA

**Md. Abul Kaiser, Ph.D.**

ORISE Fellow  
Oak Ridge Inst. for Sci. and  
Educ., USFDA  
Silver Spring, MD

**Faleh Alqahtani, Ph.D.**

Teaching Assistant  
King Saud University  
Riyadh, Saudi Arabia

**Maria (Heidi) Villalba, Ph.D.**

Post-Doctoral Research Assoc.  
TTUHSC SOP  
Dept. of Pharm. Sciences  
Amarillo, TX

**Laxmi Iyer, Ph.D.**

Post-Doctoral Scientist  
School of Medicine and Health  
Sci.  
George Washington University  
Washington, DC

(Continued on page 13)

## ALUMNI DIRECTORY

**Ronak Patel, Ph.D.**  
Post-Doctoral Res. Sci.  
Alzheimer's Disease and Aging  
Brain at Columbia University  
Medical Center  
New York, NY

2019

**Nehal Gupta, Ph.D.**  
Postdoctoral Scholar  
University of California SF  
Department of Medicine  
San Francisco, CA

**Srinidhi Jayaraman, Ph.D.**  
Postdoctoral Research Sci.  
Columbia University  
New York, NY

**Shyanne Page, Ph.D.**  
Post-Doctoral Research Sci.  
TTUHSC  
Department of Pediatrics  
Nephrology Section  
Amarillo, TX

**Kinzie Sherrill, M.S.**  
Quality Control Analyst  
Alcon  
Department of Microbiology  
Fort Worth, TX

**Racheal Akwii, M.S.**  
PhD Student/RA  
TTUHSC SOP  
Grad Prog in Pharm Sci, GSBS  
Amarillo, TX

**Nausheen Syera, M.S.**  
Technician  
TTUHSC SOP  
Dept. of Pharm. Sciences  
Amarillo, TX

**Juan Valdez, M.S.**  
Scientist/Chemist 1  
Entegris  
Burnet, TX

**Thamer Albekairi, Ph.D.**  
Assistant Professor  
Department of Pharmacology  
and Toxicology  
King Saud University  
College of Pharmacy  
Saudi Arabia

**Md. Anwar Hossain, Ph.D.**  
Postdoctoral Research Assoc.  
The University of North Carolina  
at Chapel Hill  
Chapel Hill, NC

**Ali Ehsan Sifat, Ph.D.**  
Post-Doctoral Research Assoc.  
TTUHSC SOP  
Dept. of Pharm. Sciences  
Amarillo, TX

**Sreedhar Reddy Suthe, Ph.D.**  
Postdoctoral Research Fellow  
AbbVie  
North Chicago, IL

*\*For changes to the Alumni  
Directory, please email:  
Teresa.Carlsle@ttuhsc.edu*

## Alumni Photo Album



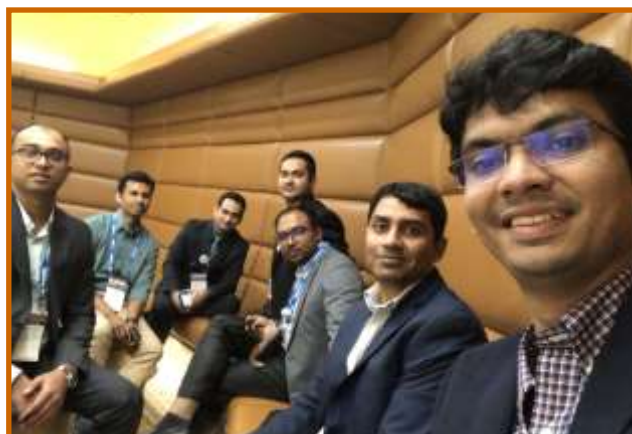
Yoon Jung Lee and  
Angelica Carmona  
were able to  
arrange a visit  
when their holiday  
trips coincided.



Ali Keshavarz (center, on screen) was recognized as one of the **"Best Poster Award Winners" at this year's American Association of Pharmaceutical Scientists—PharmSci360 meeting** at the Henry B. Gonzalez Convention Center in San Antonio, TX. He was one of three, out of more than 6,000 attendees, and the first from our program to receive this honor.



Yoon Jung Lee (center) was the TRIG candidate **in the zany "Mr. Pharmacy" fundraiser.** Fellow graduate students lending support were: (L-R) Behnaz Lahooti, Angelica Carmona, Nausheen Syera, Sounak Bagchi, Fatema Tuz Zahra, Md. Sanauallah Sajib, and Tanya Chhibber.



Taking a break during AAPS: Md. Sanauallah Sajib, Md. Ashraf-Uz-Zaman, Ekram Chowdhury, Ali Sifat, Sujit Biswas, Md. Jahidur Rashid, Abdullah Al Shoyaib.





Sreedhar Reddy Suthe (eighth from left) and his wife, Greeshma (right from Sreedhar), celebrate his Ph.D. dissertation defense. Fellow graduate students celebrating with them: Rachel, Pooja, Tanya, Faisal, Ekram, Sounak, Shoyaib (left from Sreedhar), Behnam, Shiva, Saeideh, Snehal, Aditya, Iqra, Sifat, Behnaz, Fatema (right from Greeshma).



Behnaz Lahooti, Sounak Bagchi, Tanya Chhibber and Nausheen Syera (left) enjoyed the SOP Holiday Gathering for faculty, staff, postdocs and students.



Also enjoying the event (right) were Dhaval Patel and Drs. Rahul Jayant and Bhuvaneshwar "Bob" Vaidya .

## GSAA BULLETIN BOARD

### GSAA Student Officers (updated)

**President:** Daniela Rolph  
**Vice-President:** Shiva Hadi Esfahani  
**Treasurer:** Yoon Jung Lee  
**Secretary:** Sarah Anderson

**Historian:** Saeideh Nozohouri  
**International Representative:** Tanya Chhibber  
**Student Senate Representative:** Behnam Noorani

### Fall 2019 GSAA Event Participation:

#### **September**

- \* Back to School Picnic at John Stiff Park
- \* Medication Cleanout

#### **October**

- \* Halloween Party
- \* 11th Annual PCCF SOS 5K & 1 Mile Fun Run

#### **November**

- \* Roller Skating
- \* Eveline Rivers Christmas Project (wrapping gifts)
- \* Journal Club

#### **December**

- \* Amarillo Zoo Trip
- \* Dr. Weis's holiday party

### Spring 2020 Social & Community Events:

#### **January**

- \* Movie Night

#### **February**

- \* Journal Club
- \* Game Night

#### **March**

- \* Blankets and Beans Agape Ministry (making blankets)



## GSAA Events

Back-to-School  
Picnic  
~ ~ ~  
John Stiff Park



Medication  
Cleanout



Halloween Party



**More  
GSAA  
Events**



11th Annual Panhandle  
Cancer Cure Foundation  
Support Our Survivors  
5K & 1Mile Fun Run



Eveline Rivers Christmas Project



## More GSAA Events



Amarillo Zoo Trip



Roller Skating



**Dr. Weis's**  
Holiday  
Party