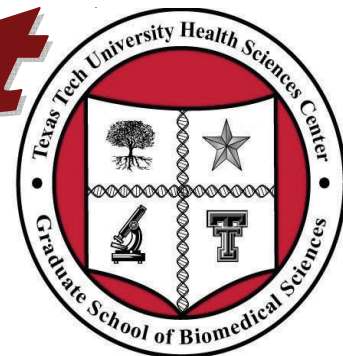




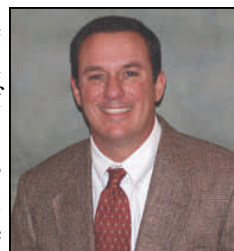
# Agonist

The Official Newsletter for the  
Graduate Program of  
Pharmaceutical Sciences  
Amarillo, Texas



## UPDATE FROM DR. ABRUSCATO

The Graduate Program in Pharmaceutical Sciences would like to welcome two new students this spring (profiles on page 3); **Sukesh Voruganti** will start in the lab of Dr. Ruiwen Zhang, and **Amit Bansal** will start in the lab of Dr. Paul Lockman. Our GPPS continues to be active in their research pursuits. In fall 2010, GPPS graduate students participated in a total of 20 presentations at national meetings including the Society for Neuroscience in San Diego, American Association of Pharmaceutical Sciences in New Orleans, and the Society of Toxicology in Houston. Additionally, just last fall, GPPS students authored a total of 10 peer reviewed publications. It was impressive to see that 9 of the 10 publications had our graduate students as first author! I also urge faculty and lab staff to attend our Graduate Program in Pharmaceutical Sciences Seminar Program, which occurs every **Wednesday at 4:00 PM in SOP 107**. It is a great opportunity to showcase the research of the SOP every week and provide scientific feedback to our graduate students. Please also consider attending the **14th Annual Wendy and Stanley Marsh 3rd Endowed Lectureship on Tuesday, March 9<sup>th</sup>**. This year's speaker is **Dr. Cindy Ehlers, Ph.D.**, Professor at The Scripps Research Institute, Molecular & Integrative Neurosciences and Molecular & Experimental Medicine. In her research, Dr. Ehlers uses neuropharmacology and genetics to understand normal brain function as well as the etiology substance abuse (alcohol/drug dependence) in both basic and clinical studies. This is a great opportunity to see and interact with a distinguished scientist here in West Texas. ■



**Quentin Smith, Ph.D.**, TTUHSC School of Pharmacy, Department of Pharmaceutical Sciences, was the Keynote Speaker for the **2nd Annual Graduate School of Biomedical Sciences (GSBS) Graduate Student and Faculty Mentor Retreat**. The event took place Tuesday, January 11th at the Health Sciences Center in Lubbock. He presented a talk entitled *"Unraveling the Blood-Brain Barrier through Collaborative Science."* The goal of Dr. Smith's talk was to present his research with particular emphasis on the role that graduate students and postdocs played in conducting his work. Also at this retreat, first year Lubbock GSBS students were advised on the importance of selecting a mentor and lab. They enjoyed sundaes and watched the research documentary "Naturally Obsessed." Amarillo graduate students **Shashi Kudugunti** and **Prabodh Kandala** were part of a group of researchers who presented posters highlighting their individual research interests. After a lab tour **Dr. Thomas Abbruscato** and **Teresa Carlisle** talked with interested students and provided information about the Graduate Program in Amarillo and the ABRI (Amarillo Biomedical Research Intern) program (see page 3). The day's events concluded with a dinner to facilitate interaction between new students, faculty and graduate students. ■



## GPPS OFFICE - Suite 217 - 806-356-4015; Fax 356-4021

**Dr. Tom Abbruscato**, Associate Dean for GSBS,

Graduate Program Advisor, Associate Professor, Pharmaceutical Sciences, x 320

**Teresa Carlisle**, Graduate Program Coordinator, x287

**Shari Morris**, Graduate Student Advisor, x227

**Agonist is published every fall and spring semester by the Graduate Program of Pharmaceutical Sciences (GPPS). For updates and new information, email Shari at [shari.morris@ttuhsc.edu](mailto:shari.morris@ttuhsc.edu).**

## Spring 2011 Issue 7

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**[Click here for deadlines of Current Awards and Scholarships](#)**

## FALL 2010 GRADUATES

**Vivek Gupta**

Lab of Dr. Fakhru Ahsan

**Dissertation Presented**

October 20, 2010

“Inhalable Formulations of Prostaglandin E1 (PGE1) for Sustained Vasodilation in Pulmonary Arterial Hypertension (PAH)”

**Professional Information:**

Postdoctoral Research Associate  
Dept of Chemical Engineering  
University of California at Santa Barbara  
Mail Code 5080  
Santa Barbara, CA - 93106-5080  
Phone: 806-392-3892  
[vkg4280@gmail.com](mailto:vkg4280@gmail.com)

**Rachita Sumbria**

Lab of Dr. Ulrich Bickel

**Dissertation Presented**

October 25, 2010

“Intracerebral Microdialysis Studies of Blood-Brain Barrier Permeability and Neurochemical Parameters in a Minute Stroke Model”

**Professional Information:**

Postdoctoral Research Associate  
Dept of Medicine  
University of California at Los Angeles (UCLA)  
900 Veteran Avenue  
Los Angeles, CA 90024  
Phone: 806-290-3488  
[rachita.sumbria@gmail.com](mailto:rachita.sumbria@gmail.com)

**Rajendar Mittapalli**

Lab of Dr. Lockman

**Dissertation Presented**

October 15, 2010

“Tumor Vascular Permeability and Drug Delivery in a Preclinical Model of Brain Metastases of Breast Cancer”

**Professional Information:**

Postdoctoral Research Associate  
Dept of Pharmaceutics  
University of Minnesota  
3-140 WDH, 308 Harvard St SE  
Minneapolis, MN 55455  
Phone: 806-283-7035  
[rajendarmrk@gmail.com](mailto:rajendarmrk@gmail.com)

**Kunal Taskar**

Lab of Dr. Quentin Smith

**Dissertation Presented**

October 22, 2010

“Anticancer Drug Distribution to Brain Metastases of Breast Cancer”

**Professional Information:**

Postdoctoral Research Associate  
Dept of Pharmaceutical Sciences  
Texas Tech University HSC  
1406 Coulter, Lab 2210  
Amarillo, TX 79106  
Phone: 806-356-4015 x247  
[kunal.taskar@ttuhsc.edu](mailto:kunal.taskar@ttuhsc.edu)

**Arun Satelli**

Lab of Dr. U.S. Rao

**Dissertation Presented**

October 13, 2010

“Expression and Functional Characterization of Galectins in Human Colorectal Cancer “

**Professional Information:**

Postdoctoral Fellow  
M.D. Anderson Cancer Institute  
7777 Knight Rd.  
Houston, TX 77054  
Phone: 813-514-3576  
[arun.satelli@gmail.com](mailto:arun.satelli@gmail.com)

**SPRING 2011 DISSERTATIONS**

**Satyanarayana Goda** - Lab of Dr. Quentin Smith  
Thursday, March 3, 2011 - 1:00 - 2:00 pm  
AMA107/ABI1130/LUB ACB260D

**Li Yang** - Lab of Dr. Thomas Abbruscato  
Monday, March 7, 2011 - 11:30 am - 12:30 pm  
AMA107/ABI1130/LUB HSC 2C101

**Vinay Rudraraju** - Lab of Dr. Quentin Smith  
Thursday, March 10, 2011 - 1:00 - 2:00 pm  
AMA107/ABI1130/LUB ACB260D

**Venkateswaran Chithambaram Pillai**  
Lab of Dr. Reza Mehvar  
Monday, March 21, 2011 - 1:00 - 2:00 pm  
AMA107/ABI2200/LUB HC 2B480

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## NEW STUDENTS FOR SPRING 2011



**Sukesh Voruganti**  
**Lab: Ruiwen Zhang**  
**Pharmaceutical Sciences**

B.Pharm  
 Jawaharlal Nehru  
 Technological University  
 Hyderabad, India



**Amit Bansal**  
**Lab: Paul Lockman**  
**Pharmaceutical Sciences**

B.Pharm/M.Pharm  
 Panjab University  
 Chandigarh, India

## GRADUATE STUDENT SEMINAR PROGRAM - FALL 2010

9/1/10—**Rajendar Mittapalli** - Quantitative fluorescent microscopy to measure passive diffusion and p-gp mediated efflux at the blood-brain barrier”

9/8/10 - **Sivakrishna Koganti** - “Estradiol Mediated Transcriptional Repression of Angiotensin Type 1 Receptor”

9/15/10 - **Li Yang** - “Characterization of Neuroprotective Effects of Biphalin, an Opioid Receptor Agonist in a Model of Focal Brain Ischemia of the Non-AT1 Non-AT2 Ang II Binding Site”

9/15/10 - **Vivek Gupta** - “Inhaled PGE<sub>1</sub> Produces Sustained and Selective Reduction of Pulmonary Arterial Pressure in PAH Induced Rats”

9/22/10 - **Prabodh Kandala** - “Diindolylmethane Suppresses Growth of Ovarian Cancer Invitro and Invivo by Targeting STAT-3 & EGFR Pathways”

9/22/10 - **Vinay Rudraraju** - “Doxorubicin Uptake in Brain Metastases of Breast Cancer – Concentrations and Interpretations”

9/29/10 - **Shashi Kudugunti** - “Bioactivation of Caffeic Acid Phenethyl Ester Prodrug by Tyrosinase Selectively Inhibits Glutathione S-transferase”

9/29/10 - **Yan Xu** - “Pharmacokinetics of a TCRmimic Monoclonal Antibody in HLA Transgenic Mice”

10/6/10 - **Brijesh Patel** - “Chemically Modified Heparin Reduces Heparin Induced Thrombocytopenia”

10/6/10 - **Kaushik Shah** - “Effect of High Glucose on Glucose Transport Across the Blood Brain Barrier”

11/3/10 - **Ameya Paranjpe** - “Potent Redox-Based Inhibition of MGMT for Improved Anticancer Strategy”

11/3/10 - **Parul Gupta** - “Anticancer Effects of Phenethyl Isothiocyanate against Breast Cancer Cells”

11/10/10 - **Satyanarayana Goda** - “Loop Diuretics as Potential CNS Therapeutic Agents: Limitations by Active Efflux Transport at the Blood-Brain Barrier”

12/1/10 - **Jun Liu** - “Characterization of Low Affinity Choline Transporter - Recent Approaches”

12/1/10 - **Raghavender Chivukula** - “Acetylation of p53 by Aspirin in Colon Cancer Cells: Identification of Aspirin Acetylated Sites on p53”

12/8/10 - **Pooja Naik** - “The Effects of Inflammation on P Glycoprotein at the Blood Brain Barrier”

12/8/10 - **Nina Blakeman** - “Triacsin C Modulates Vascular Nitric Oxide Response in Ischemia-Reperfusion Injury”

[GPPS Seminar Schedule Online - Click to View](#)

## STUDENT RESEARCH WEEK

“Vaccine Development - A Shot in the Dark”



March 2-4, 2011

**Student Research Week in Lubbock** this year will be featuring speakers **Dr. Richard Cummings**, Emory University (focusing on *Schistosoma mansoni* vaccine); **Dr. Richard Webb**, United States Army Research Institute (focusing on Botulism vaccine); and **Dr. Stanley Maloy**, San Diego State University (focusing on novel mini cell vaccines). The **Keynote speaker** will be **Dr. Glen Barber**, University of Miami, who will focus on novel immune based vaccine against viruses and cancer. Abstracts submission will close January 28, 2011. At the website, you will find more information: [SRW 2011](#). If you have any questions please contact Cecily Haley, 2011 SRW organizer, at [cecily.haley@ttuhsc.edu](mailto:cecily.haley@ttuhsc.edu) .

**ABRI**

The 10-week Amarillo Biomedical Research Internship Program for 2011 will begin the end of May and run thru the beginning of August. Applications will be accepted until Wednesday, March 15th. Interested undergrad students are encouraged to apply [online](#), in person to the Graduate Program Office or by email to [teresa.carlisle@ttuhsc.edu](mailto:teresa.carlisle@ttuhsc.edu) .

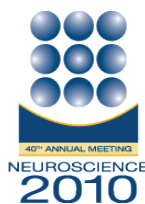
## CONFERENCE PRESENTATIONS



**2010 Conference, Houston, TX  
October 14-15, 2010**

**Shashi Kudugunti**, Nikhil Vad, Helen Thorsheim, Mohammad Yousef, Lan Guan, Majid Moridani. "In-vitro and in-vivo investigation of Caffeic Acid Phenethyl Ester (CAPE) as a selective anti-melanoma agent: a selective tyrosinase and glutathione S-transferase dual targeted prodrug approach"

**40th Annual Meeting of  
Neuroscience 2010  
November 13-17, 2010  
San Diego, CA**



**Mamunur Rashid**, Li Yang, Thiruma V. Arumugam, Thomas J. Abbruscato, Vardan T. Karamyan. "Ischemia-reperfusion injury causes upregulation of the novel non-AT1, non-AT2 angiotensin binding site in the mouse brain"



**American Association of  
Pharmaceutical Sciences  
November 14-18, 2010  
New Orleans, LA**

**Mohammad S Absar**, Suna Choi, Nolan Toups, Victor C. Yang, Young Min Kwon. "Targeted and Triggered Release of Tissue Plasminogen Activator (tPA) for Safer Thrombolytic Therapy"

**Chris E Adkins**, Rajendar K Mittapalli, Kunal Taskar, Vamshi K Manda, Vinay Rudraraju, Kaci A Bohn, Quentin R Smith and Paul R Lockman. "Quantitative Fluorescent Microscopy to Measure Permeability Alterations in Brain Adjacent to Tumor"

**V. C. Pillai**, R. Yesudas, I. Shaik, T. Thekkumkara, U. Bickel, R. Mehvar. "NADPH-Cytochrome P450 Reductase (CPR): Functional Perspectives and Gene Silencing Approach"

**V. C. Pillai**, R. Mehvar. "Inhibitory Effects of Tannic Acid on Cytochrome-P450 Reductase (CPR) is Confounded by Its Ability to Directly Reduce Cytochrome C"

**Satyanarayana Goda**, Helen R. Thorsheim, Kunal S. Taskar, Thomas J. Abbruscato, Quentin R. Smith. "Restricted Brain Distribution of Bumetanide is Mediated by Active Efflux Transporters (Oatp2 & OAT3) at the Blood-Brain Barrier"

**\*Vivek Gupta**, Kamrun Nahar and Fakhru Ahsan. "Prostaglandin E1 (PGE1) Encapsulated Large Porous

Microparticles - An Approach for Sustained Pulmonary Vasodilation"

**\*Shashi Kudugunti**, Helen Thorsheim, Quentin Smith, Majid Moridani. "Bioactivation of Caffeic Acid Phenethyl Ester Prodrug by Tyrosinase Inhibits Human Glutathione S-Transferase in Melanoma Cells"

Sudha Chennasamudram, **\*Shashi Kudugunti**, Tetyana Vasylyeva, Nicholas Muro and Majid Moridani. "Effects of (+)-catechin in the progression of diabetic nephropathy in rats"

**Mittapalli RK**, Geldenhuys WJ, Xinli Liu, Lockman PR. "Hyaluronic acid-Paclitaxel Conjugates for Brain Tumor Targeting"

Manda VK, **Mittapalli RK**, Chris AE, Lockman PR. "Drug-drug interaction between nicotine and saquinavir at blood brain barrier"

**Vinay Rudraraju**, Kunal Taskar, Rajendar Mittapalli, Kaci Bohn, Amanda Roberts, Helen Thorsheim, Paul Lockman and Quentin R. Smith. "Blood-Tumor Barrier Permeability and Drug Uptake in a New Model (4T1-Br5) of Metastatic Breast Cancer"

**Ramakrishna Samala**, Kunal Taskar, Vinay Rudraraju, Kaci Bohn, Rajendar Mittapalli, Helen Thorsheim, Paul Lockman and Quentin R. Smith. "Free Drug Concentrations in Metastatic Brain Tumors"

**\*Arun Satelli** and U.S. Rao. "Loss of Galectin-3 and Galectin-4 from the Human Colonic Epithelia Leads to the Onset and Development of Colorectal Cancer"

**Rachita K. Sumbria**, Yan Xu, Peter M. Bungay and Ulrich Bickel. "Intracerebral microdialysis to study passive blood-brain barrier permeability and neurochemical changes following cerebral ischemia reperfusion"

**\*Kunal S. Taskar**, Satya Goda, Vinay Rudraraju, Ramakrishna Samala, Fancy Thomas, Helen R. Thorsheim, Quentin Smith. "Role of Blood-Brain Barrier Transporters in the Brain Uptake of the Anticancer Drug, Paclitaxel"

**\*Bhavna Verma**, Rinki Jain, Francisca Neethling, Shannon Caseltine, Jon Weidanz. "TCRm antibodies against peptide/HLA complexes represent a novel class of therapeutic antibodies for targeting cancer"

**\*Yan Xu**, Rachita Sumbria, Md. Ashequr Rahman, Jon A Weidanz, Ulrich Bickel. "Pharmacokinetics of a HLA-A2 monoclonal antibody in transgenic mice"

**\*Li Yang**, Kaushik Shah, Thomas J. Abbruscato. "Neuroprotective Role of Biphalin, an Opioid Receptor Agonist, in the Treatment of Stroke"

\*Denotes AAPS scholarship recipient ■

## PUBLICATIONS

**Manda VK, Mittapalli RK, Bohn KA, Adkins CE, Lockman PR.** Nicotine and Cotinine Increases the Brain Penetration of Saquinavir in Rat. *Journal of Neurochemistry* 2010 Dec;115(6):1495-507. Epub 2010 Nov 11.

**Pillai VC, Yesudas R, Shaik IH, Thekkumkara T, Bickel U, Mehvar R.** Delivery of Cytochrome P450 Reductase Antisense Oligos Using Avidin-Biotin Approach. *Bioconjugate Chemistry* 2010 Feb 17;21(2):203-7.

**Gupta V, Ahsan F.** Inhalational therapy for pulmonary arterial hypertension: current status and future prospects. *Critical Reviews Therapeutic Drug Carrier Systems* 2010;27(4):313-70.

**Sahu RP, Batra S, Kandala PK, Brown TL, Srivastava SK.** The role of K-Ras gene mutation in TRAIL-induced apoptosis in pancreatic and lung cancer cell lines. *Cancer Chemotherapy and Pharmacology* 2010 Sep 17. [Epub ahead of print]

**Rashid M, Arumugam TV, Karamyan VT.** Association of the novel non-AT1, non-AT2 angiotensin binding site with neuronal cell death. *J Pharmacol Exp Ther.* 2010 Dec;335(3):754-61. Epub 2010 Sep 22.

**Samala R, Klein J, Borges K.** The ketogenic diet changes metabolite levels in hippocampal extracellular fluid.

*Neurochemistry International* 2011 Jan;58(1):5-8. Epub 2010 Nov 9.

**Arun Satelli, Prema S. Rao, Sheshadri Tirumala, and U.S. Rao** (2010). Galectin-4 functions as a tumor suppressor in human colorectal cancer. *International Journal of Cancer* 2010 Nov 9. [Epub ahead of print]

**Arun Satelli and U.S. Rao** (2010). Galectin-1 is silenced by promoter hypermethylation and its re-expression induces apoptosis in human colorectal cancer cells. *Cancer Letters* 2010 Nov 29. [Epub ahead of print]

**Rachita K. Sumbria, Jochen Klein, Ulrich Bickel.** Acute Depression of Energy Metabolism after Microdialysis Probe Implantation is Distinct from Ischemia-Induced Changes in Mouse Brain. *Neurochemical Research* 2010 Sep 28. [Epub ahead of print]

**Verma B, Neethling FA, Caseltine S, Fabrizio G, Largo S, Duty JA, Tabaczewski P, Weidanz JA.** TCR mimic monoclonal antibody targets a specific peptide/HLA class I complex and significantly impedes tumor growth in vivo using breast cancer models. *Journal of Immunology* 2010 Feb 15;184(4):2156-65. Epub 2010 Jan 11.

**Willis S, Stoll J, Sweetman L, Borges K.** Anticonvulsant effects of a triheptanoin diet in two mouse chronic seizure models. *Neurobiology of Disease* 2010 Dec;40(3):565-72. Epub 2010 Aug 4. ■



## WISE - WOMEN IN SCIENCE ENDEAVORS

Alejandra Fernandez and Naomi Wangler represented the TTUHSC graduate students at WiSE, which was held at the Amarillo Area Center for Advanced Learning on Saturday, November 13th. Over 180 middle school girls came together to hear about the many opportunities that are available to girls and women in the math and science fields. Alejandra and Naomi demonstrated how to extract DNA from a strawberry, used lava lamps to demonstrate the separation of liquids, and “burned money” using a 50/50 solution of ethanol and water. ■



## UPCOMING CONFERENCES

## American Association for Cancer Research

April 2 - 6, 2011 \* Orlando, FL



## 38th Annual Meeting and Exposition of the Controlled Release Society

July 30 - August 3, 2011

National Harbor, MD

Deadline for abstracts: Jan. 27, 2011



## Experimental Biology 2011

April 9 - 13, 2011 \* Washington DC

Deadline for abstracts: February 9, 2011

## American Society for Neurochemistry

42<sup>nd</sup> Annual ASN Meeting, St. Louis, Missouri  
March 19 - 23, 2011

## Awards &amp; Scholarships

Venki Chithambaram Pillai

Dean's Scholars Award of \$5000.

Prabodh Kandala

Mary Lou Clements Scholarship of \$500.

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**Texas Tech School of Pharmacy Annual Friends and Alumni Reception  
AAPS Annual Meeting \* November 15, 2010 \* New Orleans**

The Third Annual Texas Tech SOP Friends and Alumni Reception was held at the Hilton New Orleans Riverside on November 15, 2010, to coincide with the FIP Pharmaceutical Sciences 2010 World Congress in association with the American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition. The reception was enjoyed by past faculty, Dr. Celestin Youan and graduate program alumni Vikas Agararwal (pharmaceutical industry); Anitha Pamalakula (FDA); Sami Nazzal (University of Louisiana Monroe); Rahki Shah (FDA); Jagan Parepally (FDA); Haritha Mandula (FDA); and Nusrat Motlekar (FDA). Fifteen graduate students attended as well as SOP faculty members Dr. Quentin Smith, Dr. Paul Lockman, Dr. Young Min Kwon, Dr. Karen Mark, Dr. Ulrich Bickel, and Postdocs Dr. Imam Shaik and Dr. Jill Roberts. See poster presentations listed on Page 4. ■



Chris Adkins, Satya Goda, Raj Mittapalli, RK Samala



Jagan Parepally, Sammi Nazzal, Young Min Kwon



Sami Nazzal, Anitha Palamakula, Nusrat Motlekar, Rakhi Shah



Paul Lockman, Quentin Smith, Ulrich Bickel, Siva Vaithiyalingam



Rachita Sumbria

**The Wendy and Stanley Marsh 3 Endowed Lectureship  
in Pharmacology & Neurochemistry of Substance Abuse/Addiction**



**Cindy Ehlers, Ph.D.**, Professor at The Scripps Research Institute, Molecular & Integrative Neurosciences Department, La Jolla, CA, has been nominated as this year's Endowed Lecturer. Dr. Ehlers will give a talk entitled "*Understanding Firewater: Risk Factors for Alcoholism in Native Americans*" on Tuesday, March 8th at 4:00 pm. She will also be the speaker for Grand Rounds on Wednesday, March 9th presenting "*Genetic and Environmental Determinants of Alcoholism Risk in Different Ethnic Groups.*" Her research is focused on the use of neuropharmacology and genetics to understand normal brain function as well as the etiology substance abuse (alcohol/drug dependence) in both basic and clinical studies. For more information, contact [Logan.Larue@ttuhsc.edu](mailto:Logan.Larue@ttuhsc.edu). ■

♥Rachita Sumbria & Vijay Kulkarni  
11/30/10 \* India

♥Hussaini Syed Sha Qhattal & Shabana Begum  
12/18/10 \* India

♥Kunal Taskar & Pradnya Gupte  
12/24/10 \* India

♥Siva Koganti & Divya Madala  
12/12/10 \* India

♥Snehal Padhye & Sanket Acharya  
12/22/10 \* India



**CONGRATULATIONS to  
Kaushik Shah and wife Tina on the birth of their  
daughter Alisha on 1/14/11! She weighed 7.1 lb  
and was 19 1/4" long!**


**NEW Department Contacts**

**Department of Biomedical Sciences** - SOP Suite 400; 806-356-4015  
Chair - Junxuan "Johnny" Lu, Ph.D., x 250  
Unit Coordinator - Stacy Schaffler Leos, x271.  
**Amarillo Research Building (ARB)** - ARB Reception; 806-356-4750  
Reception - Charetta West, x221

**Watch the TTUHSC  
Dance video filmed here  
on campus and featuring  
our grad students!**

## COMMUNITY SERVICE OPPORTUNITIES

GPPS students participated in:  
 \*8/28/10 - Juvenile Diabetes Research Foundation (JDRF) walk to cure diabetes  
 \*10/30/10 - American Heart Association Heart Walk  
 \*11/3/10 - AAPS Blood drive for Coffee Memorial Blood Center  
 \*11/27/10 - Salvation Army bell ringers



**BLOOD DRIVE**  
 Thanks for giving the gift of life!  
**TEXAS TECH PHARMACY SCHOOL**  
 Wednesday, November 3, 2010  
 1:00 pm - 5:00 pm  
 1st Floor - Student Lounge

All eligible donors who present to donate will receive a Whataburger coupon and a chance to win Whataburger for a year.  
 Photo ID or Driver Card Required to Donate.  
 When you give blood, you save lives.

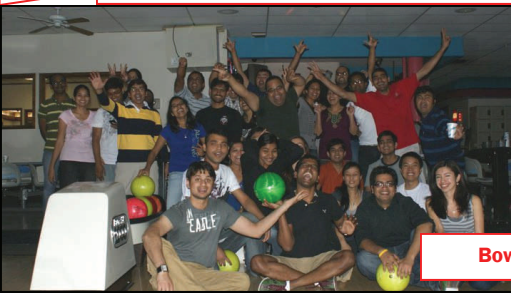
COFFEE MEMORIAL BLOOD CENTER  
 2000 Williams Blvd., Amarillo, TX 79106  
 Call for an appointment: 806-439-4100 or 439-4101  
 Follow us on Twitter: @BloodCenter  
 www.donorgift.org



Naomi

Chris

## CRAZY FUN WITH GSAA



Bowling



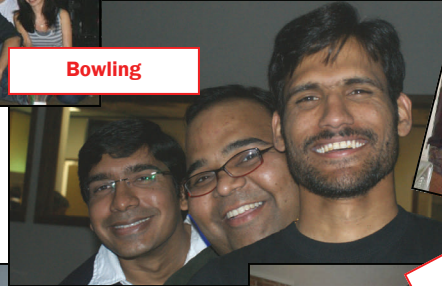
Prabodh



Vinay



Birthday Party for Vindhya & Alejandra



Halloween



Diwali



You taste it first!



Holiday Party



Aren't we fabulous?

**Did you know?**  
 Dr. Abbruscato will run in the prestigious Boston Marathon April 18th! WAY TO GO!



Perfect for me!



Yeah, that's what I said!



Teresa's gift from students

**Graduated 2001**

Vikas Agarwal, Ph.D.  
CIMA LABS INC  
Brooklyn Park, MN  
[vikas.agarwal@cimalabs.com](mailto:vikas.agarwal@cimalabs.com)

Sivakumar Vaithiyalingam, Ph.D.  
OPS/CDER/FDA  
Pamona, NY  
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**Graduated 2002**

Sami Nazzal, Ph.D.  
Dept of Basic Pharmaceutical  
Sciences, College of Pharmacy  
The University of Louisiana at  
Monroe  
[nazzal@ulm.edu](mailto:nazzal@ulm.edu)

**Graduated 2003**

Paul Lockman, Ph.D.  
TTUHSC  
Dept of Pharmaceutical Sciences  
Amarillo, TX  
[paul.lockman@ttuhsc.edu](mailto:paul.lockman@ttuhsc.edu)

**Graduated 2004**

Anitha Palamakula, Ph.D., R.Ph  
CDER/FDA  
Rockville, MD  
[anitha\\_100@yahoo.com](mailto:anitha_100@yahoo.com)

Rakhi Shah, Ph.D.  
FDA  
Silver Springs, MD  
[rakhi.shah@fda.hhs.gov](mailto:rakhi.shah@fda.hhs.gov)

Fatima Mustafa, MS, RPh  
Rite Aid  
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[fkhan810@gmail.com](mailto:fkhan810@gmail.com)

Mohammad Nutan, Ph.D.  
Dept of Pharmaceutical Sciences  
Rangel College of Pharmacy  
Kingsville, Texas  
[mnutan@pharmacy.tamhsc.edu](mailto:mnutan@pharmacy.tamhsc.edu)

**Graduated 2005**

Anjaneya Chimalakonda, Ph.D.  
Bristol-Myers Squibb Co.  
Pennington, NJ  
[anjaneya.chimalakonda@bms.com](mailto:anjaneya.chimalakonda@bms.com)

Ragini Vuppugalla, Ph.D.  
Bristol-Myers Squibb  
Princeton, NJ  
[ragini.vuppugalla@bms.com](mailto:ragini.vuppugalla@bms.com)



Ridhi Parasrampur (2010) &  
Chaitanya Chimalakonda (2007)

**ALUMNI DIRECTORY**

Alamdar Hussain, Ph.D.  
Dept of Basic Pharmaceutical  
Sciences, College of Pharmacy  
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