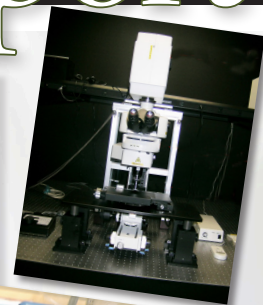


Activity Report



A Word from Dr. Sanjay K. Srivastava, Associate Dean for Sciences:

2016 was another successful year for the School of Pharmacy researchers. Several major new grants were obtained by SOP faculty from NIH, CPRIT and local foundations. About 70 papers were published in scientific journals by our faculty. Some of the software's and equipment from both core and common equipment cores were updated. Once again, LC-MS/MS was the most heavily used equipment by the researchers this year. We were able to attract researchers from TTU to use our LC-MS/MS facility. We started the negotiation to convert our LC-MS/MS facility to GLP and hopefully will achieve this in 2017. We also successfully organized our Annual Research Days at the Amarillo Civic Center with outstanding keynote speakers and the event attended by 150 researchers resulting in several collaborations.



MASS SPEC ANALYSIS - Dr. Rajareddy Kallem

Purchased and installed 96 deepwell plate auto sampler rack on API-5500 QTRAP which will enable researchers to stack 192 samples at once and data will be ready by next day. Purchased and installed Uninterrupted Power Supply which will continue to supply electrical power to 5500 QTRAP Mass Spec during unexpected power failure. XFe24 Flux Analyzer user protocols developed for ready use of the instrument. These protocols help researchers to conduct in-vitro cell based assays to read the 'Mitochondrial Respiration' and 'Glycolysis stress test'.



IMAGING CORE FOCUS - Dr. Zijuan (Amy) Liu

Purchased and updated CellSens software for Olympus IX 81 microscope which will control both fluorescence and bright field microscopes with one software making it easier for new users and will greatly enhance the quality of acquired images. Nikon confocal microscope, 10X, 20X dry air (view large field samples, like brain sections) and 16 water-based objectives (helpful for when the living mouse imaging will be performed in future) were purchased as well.

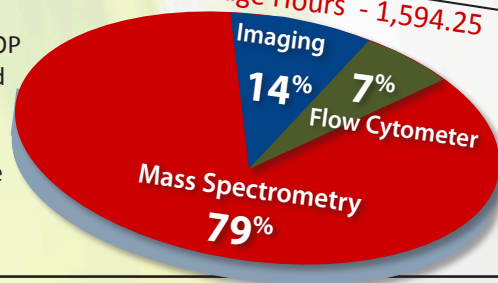


COMMON EQUIPMENT CORNER - Nga Nguyen

Personally repaired common equipment such as: Gamma counter 434 SOP saving us \$5,810 (quote \$5,810); Microtome in ARB-1207 twice; replaced electronic mainboard backup -80 freezer in ARB-2206, liquid scintillation counter in SOP-B34, replaced sensor of CO2 incubator and power supply of a microscope ARB-1304, microscope ARB-1210, plate carrier of a plate reader ARB-1210.

Core Equipment Facilities

Total Usage Hours - 1,594.25

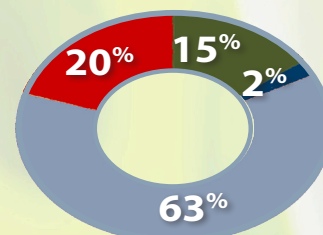


Research and Equipment Seminars, and Services Provided:

Seminars
Sample to Data in 2 Weeks or Less Presentation - New MicroArrays
Cytation 5 Cell Imaging Multi-Mode Reader/ Demonstration
Clinical Research Institute (CRI) Interacting with the School of Pharmacy
Services
Research Videos (Impacts of Research, Cancer Research & Heart Disease Research)
Certifications for the Anesthesia Vaporizers by Veterinary Anesthesia Systems Inc.
Bioteck Platerreader Repair on Synergy MX
Biological Safety Cabinet Certification and Decontamination for Biomed, Pharm Sci, Pharmacy Practice, and LARC
Purchased 3 Biological Safety Cabinets 2 for SOP B38 and 1 for ARB 2206B

Funds Used for Equipment Repairs & Contracts

- Equipment Upgrade
- Repairs to Equipment and Labs
- Core Service Contracts
- Common Service Contracts

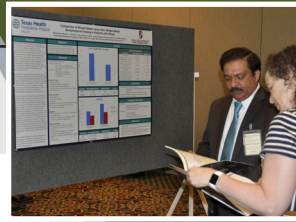


School of Pharmacy

71 Posters / 150 Attendees

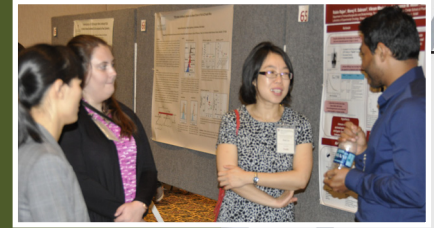
Annual Research Days 2016

Thank you to Participating Vendors:



Sponsors

- ★ Laura W. Bush Institute for Women's Health
- ★ Office of the TTUHSC Vice -President for Research



Grants (2016)

- Dr. Richard Leff**
\$2.5 million grant from CPRIT
- Dr. Kalkunte Srivenugopal**
\$1.2 million grant from CPRIT
- Dr. Maciej Markiewski**
\$1.75 million NIH R01 grant.
- Dr. Paul Trippier**
Leukemia Texas
Texas Alzheimer's Research and Care Consortium
- Dr. Abraham Al-Ahmad**
GLUT1 Deficiency Foundation.
- Dr. Ron Hall**
Merck Investigators Studies Program
- Dr. Luca Cucullo**
Alternatives Research and Development
- Dr. Ulrich Bickel**
Therachon
- Drs. Shanna James and Rachel Basinger**
Texas DSHS

SOP Seed Grants Provided by Office of Sciences (2016)

- Dr. Young Lee**
- Dr. Constantinos Mikelis**
- Dr. Laurence Wood**

SOP Post-Doc Career Enhancement (Travel funds provided by Office of Sciences)

- Taslim Al-Hilal**
- Ravi Sajja**
- Surendra Punganuru**
- Suni Tang**

Women's Health Seed Grant

- Dr. Abraham Al-Ahmad**

High Impact Publications

- Dr. Magdalena Karbowniczek**
In Oncogene: [Read Article](#)
- Dr. Sanjay Srivastava**
In Cancer Research: [Read Article](#)

Texas Tech School of Pharmacy Annual Extramural and Research Grant Funding Curve

