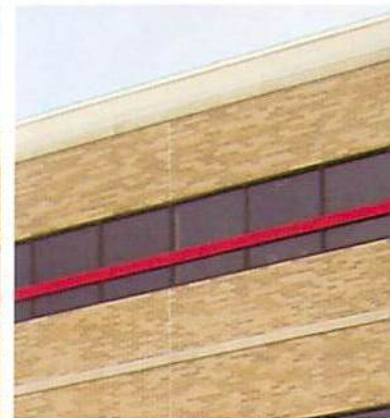










TEXAS TECH UNIVERSITY
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DEPARTMENT of PHARMACEUTICAL SCIENCES



The mission of the Department of Pharmaceutical Sciences at TTUHSC School of Pharmacy is to create and disseminate knowledge through world-class, integrated biomedical and pharmaceutical research with the goal of increasing understanding of disease processes and developing new therapies.

The Department, which is chaired by *Dr. Quentin Smith*, is committed to innovative education of professional and graduate students to become outstanding pharmacists and scientists. Students can earn M.S. and Ph.D. degrees through the Graduate Program in Pharmaceutical Sciences, which is part of the Graduate School of Biomedical Sciences.

The graduate program is designed to train students for careers in academia, industry and government. There were 32 Ph.D./M.S. students enrolled in the graduate program during 2006; three completed their Ph.D. and another received M.S.

Research interests within the Department center on drug delivery, receptor signaling/function and therapeutic development for neurological, cardiovascular and oncologic disease.

In 2006, the Department continued to advance and develop its research capabilities. Faculty investigators received nearly \$3 million in annual grant funding, which was used to support research by more than 20 postdoctoral associates.

Funding agencies included the National Institutes of Health (*Drs. Thomas Abbruscato, Fakhru Ahsan, Ulrich Bickel, Jochen Klein, Paul Lockman, Reza Mehvar, U.S. Rao, Quentin Smith, Kalkunte Srivenugopal, James Stoll, Thomas Thekkumkara, Ming-Hai Wang, Jon Weidanz and Margaret Weis*); the U.S. Department of Defense (*Drs. Lockman, Rao and Smith*); the Alzheimer's Association (*Dr. Klein*); the Association for the Research of Childhood Cancer (*Dr. Srivenugopal*); the American Heart Association

(*Drs. Stoll, Weidanz and Weis*); the Women's Health Research Institute (*Dr. Srivenugopal*); the Epilepsy Foundation (*Dr. Karin Borges*); and Novartis Pharmaceuticals Corporation (*Dr. Klein*).

Internally, *Dr. Weis, Dr. Jayarama Gunaje and Dr. Eugene Shek* received Enhancement Grants, which were provided by TTUHSC as a special funding and support mechanism for investigators pursuing extramurally-fundable and novel ideas. In addition, *Drs. Bickel and Klein* received seed grants from the TTUHSC School of Medicine for cardiovascular research and *Dr. Majid Moridani* received a seed grant from the TTUHSC Office of Research

The department also continued to make a name for itself in research scholarship during 2006. Faculty published roughly 50 peer-reviewed articles in major research journals and served as reviewers for various granting agencies. They also made numerous presentations at national and international scientific conferences.



efforts of pharmaceutical sciences FACULTY RECOGNIZED

The Texas Tech Board of Regents granted tenure to three TTUHSC – SOP Department of Pharmaceutical Sciences faculty members in 2006. The trio included Dr. Thomas Abbruscato, Dr. Jochen Klein and Dr. Cornelis (Neels) Van der Schyf. The Board of Regents also approved the promotion of Dr. Abbruscato to associate professor.

In September Department professor Dr. Ulrich Bickel was recognized for his research efforts when he received the TTUHSC President's Research Achievement Award.

Assistant professor Dr. Majid Moridani was voted chair-elect of the Pharmacogenomics Focus Group in December. Dr. Moridani will chair one of 7ve focus groups within the

Clinical Pharmacology and Translation Section at the American Association of Pharmaceutical Science.

Dr. Thomas Abbruscato was appointed to a National Institutes of Health study section and will serve a four-year regular membership on the Brain Injury Neurovascular Pathologies study section for the National Institute of Neurological Disorders and Stroke.

Several Department of Pharmaceutical Sciences faculty members were also honored in 2006 with TTUHSC – SOP teaching awards. The group included Dr. Jayarama Gunaje, Dr. Jochen Klein, Dr. Paul Lockman Dr. Reza Mehvar, Dr. James Stoll and Dr. Ming-Hai Wang.

pharmaceutical
sciences
GRADUATE
PROGRAM



TTUHSC School of Pharmacy's Graduate Program in Pharmaceutical Sciences has been in existence for seven years and is the largest program within TTUHSC's Graduate School of Biomedical Sciences. Its mission is to educate students as quality scientists and prepare them for careers in the pharmaceutical industry, academia, and federal drug regulatory agencies.

The Program continued to excel in 2006 despite a change in leadership. Associate professor and graduate program advisor Dr. Neels Van der Schyf left in August to become a founding department chair at the Northeast Ohio Universities College of Pharmacy. Associate professor Dr. Thomas Abbruscato, who joined TTUHSC - SOP in January 2000, has since assumed the role of GPPS advisor.

Under the leadership of Drs. Van der Schyf and Abbruscato, GPPS enrollment grew to 32 Ph.D./M.S. students in 2006 and the Program graduated three Ph.D. and one M.S. student. In addition, GPPS Ph.D. student Alamdar Hussain, Ph.D. was named the 2006 Outstanding Graduate Student of the Year by the TTUHSC - GSBS, which is the highest award given to a TTUHSC graduate student. Dr. Hussain is presently an assistant professor at the University of Louisiana at Monroe.

Graduate programs cannot survive without funding, and GPPS students are primarily supported by stipends derived from various sources. These funding sources include research incentives from faculty grant salary savings, state monies, extramural grant funding and other positions earned through the GSBS. In 2006, approximately \$700,000 was invested in stipends for GPPS students. A

large part of this funding was generously provided by an increasing number of TTUHSC-SOP faculty researchers who are providing stipends from their grant money for GPPS students to work in their laboratories.

In May GPPS student Katie Bennett was named a recipient of the 2006 Achievement Rewards for College Scientists scholarship. This was the second time in as many years for Bennett to receive the \$5,000 award from the ARCS Foundation, which annually awards scholarships to academically outstanding United States citizens who are studying to complete their degrees in natural sciences, medicine and engineering. Bennett received the award while working as a research assistant for associate professor Dr. James Stoll.

In August a pair of GPPS students were rewarded for their efforts in the laboratory. Jennifer Paulson, who is pursuing her Ph.D. in pharmaceutical sciences, took second place in SOP's 5th Annual Research Days poster competition. Jim Egbert, another Ph.D. candidate, garnered third place honors in the same competition.

The Graduate Student Association at Amarillo, a student organization comprised of Amarillo SOP graduate students, also continued to shine in 2006. Since its inception in 2004, GSAA has become an active part of the Amarillo and TTUHSC communities by volunteering for many local and national organizations, including Tobacco Free Amarillo, the Women Infants and Children nutrition program, the American Heart Association and the Alzheimer's Association. In addition, GSAA members frequently present their research at local, state and national meetings.



faculty & staff awards - spring 2006

Award of Excellence in Staff Services

LYNN FINKENBINDER
Manager
Department of Pharmaceutical Sciences

Graduate Teacher of the Year

DR. JOCHEN KLEIN
Department of
Pharmaceutical Sciences

Graduate Teaching Team of the Year

BIOCHEMISTRY TEAM

Outstanding Pharmacy Teacher of the Year

DR. REZA MEHVAR
Department of
Pharmaceutical Sciences

Faculty Preceptors of the Year

DR. DEEATRA CRADDOCK
DR. SACHIN SHAH
Dallas/Fort Worth

DR. KRYSTAL HAASE
DAVID SIMMONS, R.Ph.
Amarillo

DR. ALLYSON GAYLOR
Lubbock

P1 Class of 2009

TEACHER OF THE YEAR
Dr. James Stoll

TEACHING TEAM OF THE YEAR
Biochemistry Team

P2 Class of 2008

TEACHER OF THE YEAR
Dr. Kenneth McCall

TEACHING TEAM OF THE YEAR
Pharmacokinetics Team

P3 Class of 2007

TEACHER OF THE YEAR
Dr. Paul Lockman

TEACHING TEAM OF THE YEAR
Neurosensory Team

P4 Class of 2006

MOST INFLUENTIAL PROFESSOR
Dr. Anthony Busti

PEER-REVIEWED JOURNAL ARTICLES AND BOOK CHAPTERS - 2006

Following are the peer-reviewed journal articles and book chapters published by TTUHSC – SOP investigators during the 2006 calendar year. Many of these publications address major research areas such as healthy aging, vascular biology, infectious diseases, blood-brain barrier, neurovascular biology, cancer, pharmaceuticals, pharmacokinetics, and cell signaling. Materials that are in-press or have been accepted for publication in 2007 are not included in this document.

DEPARTMENT OF PHARMACEUTICAL SCIENCES

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