The following GRANTS/CONTRACTS have recently been awarded:

1. **Dr. Benjamin Banahan** (P.I.-CPMM), **Dr. Yi Yang** (Co-P.I.-Pharmacy Administration), **Dr. John Bentley** (Co-P.I.-Pharmacy Administration), and **Dr. Patrick Pace** (Co-P.I.-CPMM). Using Medicare/Medicaid Claims Data to Support Medication Outcomes and Pharmacovigilance Research (Department of Health and Human Services [DHHS]/Centers for Medicare & Medicaid Services), $500,000, June 1, 2010-May 31, 2011.

2. **Dr. Alice Clark** (P.I.-Pharmacognosy), and **Dr. Ameeta Agarwal** (Co-P.I.-NCNPR). New Drugs for Opportunistic Infections-FY10-11 (National Institute of Allergy and Infectious Diseases [NIAID]), $388,221, July 1, 2010-June 30, 2011.

3. **Dr. Alice Clark** (P.I.-Pharmacognosy), and **Dr. Xing-Cong Li** (Co-P.I.-NCNPR). New Drugs for Opportunistic Infections-Diversity Supplement-FY10-11 (NIAID), $46,910, July 1, 2010-June 30, 2011.

4. **Dr. John Cleary** (P.I.-Pharmacy Practice), and **Dr. Kayla Stover** (Co-P.I.-Pharmacy Practice). Cardiac Toxicity of Echinocandin Antifungals, $73,397, May 23, 2010-May 22, 2012.


14. Dr. Raymond Highsmith (P.I.-NIUST), **Dr. Marc Slattery** (Co-P.I.-Pharmacognosy), and **Dr. Carol Lutken** (Co-P.I.-MS Mineral Resources Institute). NIUST Integrated Research and Technology Development: OAR Charter Fund Request (U.S. Dept. of Commerce/NOAA), $173,200, October 1, 2010-September 30, 2011.

15. **Dr. Melissa Jacob** (P.I.-NCNPR), and **Dr. Khalid Ashfaq** (Co-P.I.-NCNPR). Development of New Agents Against Cryptococcal Infections-Year 2 (Florida Agricultural and Mechanical University/NIH) $12,875, June 1, 2009-May 31, 2010.

16. **Dr. Ikhsal Khan** (P.I.-NCNPR), **Dr. Mahmoud ElSohly** (Co-P.I.-NCNPR), **Dr. Troy Smillie** (Co-P.I.-NCNPR), and **Dr. Aruna Weerasooriya** (Co-P.I.-NCNPR). Advancing Drug Development in Medicinal Plants Using Transcriptomics and Metabolics (University of Kentucky/NIH), $385,095, September 30, 2009-August 31, 2010.

17. **Dr. Ikhsal Khan** (P.I.-NCNPR), and **Dr. Troy Smillie** (Co-P.I.-NCNPR). Quality Assessment of Botanicals-FY09-10 (Herbalife International, Inc.), $100,000, December 21, 2009-December 20, 2010.

18. **Dr. Xing-Cong Li** (P.I.-NCNPR), and **Dr. Shabana Khan** (Co-P.I.-NCNPR). Chemical Evaluation of *Capsicum annum* (Novus Nutrition Brands, LLC), $75,000, January 1, 2010-March 31, 2011.


20. **Dr. Susan Manly** (P.I.-NCNPR), and **Dr. Khalid Ashfaq** (Co-P.I.-NCNPR). Production of Tolerance and Desensitization to Poison Ivy Urushiols (ElSohly Laboratories, Inc./NIH/ National Institute of Arthritis and Muculoskeletal and Skin Disease), $172,329, September 7, 2009-August 31, 2010.


23. **Dr. Christophe Mesangeau** (P.I.-Medicinal Chemistry), and **Dr. Christopher McCurdy** (Co-P.I.-Medicinal Chemistry). Non-Peptidic Neuropeptide FF Receptor Probes (NIH), $176,555, July 1, 2010-June 30, 2011.


26. **Dr. Dale Nagle** (P.I.-Pharmacognosy), and **Dr. Yu-Dong Zhou** (Co-P.I.-Pharmacognosy). Anticancer Drug Discovery that Targets Tumor Hypoxia-Year 6 (NIH/National Cancer Institute), $270,237, June 1, 2010-May 31, 2011.


29. **Dr. Michael Repka** (P.I.-Pharmaceutics), and **Dr. Soumyajit Majumdar** (Co-P.I.-Pharmaceutics). Fundamental Studies in the Application of Low MW Klucel and Hot-Melt Extrusion for the Oral Delivery of Insoluble Drugs from Tablets, Capsules and Oral Film Dosage Forms-Year 1 (Hercules, Inc.), $47,440, January 1, 2010-December 31, 2010.

30. **Dr. Michael Repka** (P.I.-Pharmaceutics), and **Dr. Soumyajit Majumdar** (Co-P.I.-Pharmaceutics). Center for Thermal Pharmaceutical Processing (Department of Health and Human Services/Health Resources and Services Administration), $611,820, September 1, 2009-August 31, 2011.


33. **Dr. Leigh Ann Ross** (P.I.-Pharmacy Practice). Mississippi State Hospital and University of Mississippi, School of Pharmacy, Pharmacy Practice Agreement-FY10-11 (Mississippi State Hospital), $28,000, May 1, 2010-June 30, 2011.


37. **Dr. Larry Walker** (P.I.-NCNPR). Development of Natural Products from Plants and Microbes for Replacement of Synthetic Pesticides-Amendment 6 (USDA/Agricultural Research Service), $2,380,393, September 6, 2006-July 31, 2011.


39. **Dr. Larry Walker** (P.I.-NCNPR), and **Dr. Charles Hufford** (Co-P.I.-Dean’s Office). Phase II Construction of NCNPR Research Wing (NIH/NCRR), $13,915,445, April 1, 2010-March 31, 2015.

40. **Dr. Larry Walker** (P.I.-NCNPR), and **Dr. Ikhas Khan** (Co-P.I.-NCNPR). Discovery and Development of Natural Product-Based Insect Management Compounds for Medical,

41. **Dr. Kristine Willett** (P.I.-Pharmacology), and **Dr. John Rimoldi** (Co-P.I.-Medicinal Chemistry). Seagrass Proteomics: Profiling and Surveillance in the Gulf of Mexico (NOAA/NIUST), $100,000, October 1, 2009-September 30, 2010.

42. **Dr. Kristine Willett** (P.I.-Pharmacology). BaP-mediated Reproductive and Developmental Toxicity (NIH/National Institute of Environmental Health Sciences), $69,305, April 13, 2010-March 31, 2011.

43. **Dr. Kristine Willett** (P.I.-Pharmacology). Distribution, Bioaccumulation and Toxicity of Nanosilver Particles in Medaka (*Oryzias latipes*)-Year 2 (U.S. Army Engineering Research and Development Center), $140,805, February 27, 2010-February 26, 2011.

44. **Dr. John Williamson** (P.I.-Medicinal Chemistry). Fungal Endophytes as a Source for Antimalarial Drug Leads (U.S. Army Medical Research Acquisition Activity), $310,055, April 12, 2010-May 11, 2011.

45. **Dr. Yu-Dong Zhou** (P.I.-Pharmacognosy), and **Dr. Dale Nagle** (Co-P.I.-Pharmacognosy). Methods to Examine Mitochondria-Targeted Marine Natural Products (NOAA/NIUST), $109,290, October 1, 2009-September 30, 2010.


47. **Dr. Jordan Zjawiony** (P.I.-Pharmacognosy), and **Dr. Charles Burandt** (Co-P.I.-NCNPR). Chemistry and Pharmacology of Newly Emerging Psychoactive Plants-Year 2 (NIH), $71,500, May 1, 2009-April 30, 2011.

The following **PUBLICATIONS** have appeared:


94. Wen-Hui Xu, Yuanqing Ding, Melissa R. Jacob, Ameeta K. Agarwal, Alice M. Clark, Daneel Ferreira, Zong-Suo Liang, Xing-Cong Li, “Puupehanol, a Sesquiterpene-


96. Xian-Wen Yang, Yuanqing Ding, Xing-Cong Li, Daneel Ferreira, Yun-Heng Shen, Su-Mei Li, Ning Wang, and Wei-Dong Zhang, “Cycloabiesesquine A, a unique sesquiterpenoid from *Abies delavayi*, *Chemistry Communication*, (2009) 3771-3773.


TECHNOLOGY TRANSFER transactions:
(In the interest of protecting confidential information, the names and titles associated with School of Pharmacy invention disclosures and patent applications will no longer be published until after a patent has issued.)

Research Disclosures Filed from September 2009 to Present: 3
US Patents Pending: 25
Recent US Patents Granted:
*Agents with Selective K-Opioid Receptor Activity*
7,687,538
Issued: March 30, 2010
Inventors: Jordan Zjawiony, Hesham Fahmy, Jeremy Stewart, Brian Roth
The following SPECIAL ANNOUNCEMENTS are also listed:

• **Mr. Sunil Battu** (Pharmaceutics) and **Mr. Swapnil Kulkarni** (Medicinal Chemistry) were honored with *Graduate Achievement Awards* during Commencement activities in May.

• **Ms. Sarah Chajkowski** was presented with the *Robert A. Magarian Outstanding Podium Presentation Award*, and **Mr. Swapnil Kulkarni** was presented with the *Thomas L. Lemke Outstanding Poster Presentation Award*, during the 2010 MALTO meeting held in May. Both are Medicinal Chemistry graduate students. MALTO is an annual meeting of the Medicinal Chemistry and Pharmacognosy departments from Schools of Pharmacy in Mississippi, Arkansas, Louisiana, Texas and Oklahoma.

• **Dr. Ikhlas Khan** was selected as the recipient of the 2010 American Herbal Products Association (AHPA) *Herbal Insight Award*. This award is given to individuals or non-commercial organizations that have a significant impact on furthering knowledge and understanding of botanicals and their uses. **Dr. Khan** was also named as the recipient of the *2011 Tyler Prize* during the annual meeting of the American Society of Pharmacognosy. The Tyler Prize is awarded to recognize an individual who has made outstanding scientific contributions to the broad field of dietary supplements, with special emphasis on botanicals.

• **Dr. Leigh Ann Ross** was named by the American Association of Colleges of Pharmacy as one of three finalists for the *Transformational Community Service Award*. This award recognizes the project that her very capable and committed team is doing in the Mississippi Delta to meet the needs of under served citizens. This complex and innovative project is truly making a difference in the lives of families and simultaneously creating learning opportunities for our students and pharmacy residents.

• **Mr. Philip Schwab** (Pharmacy Administration) received the *APhA-APRS ESAS Postgraduate Best Paper Award Honorable Mention* during the annual meeting of the American Pharmaceutical Association in March.

Please continue to send me important research and graduate information so that I might share it with your faculty colleagues.

cc: Dean Barbara G. Wells  
Ms. Dabney Weems  
Dr. Robin Buchannon, Office of Research