The following GRANTS/CONTRACTS have recently been awarded:

1. **Dr. Mitchell Avery** (P.I.-Medicinal Chemistry), and **Dr. Stephen Cutler** (Co-P.I.-Medicinal Chemistry). Development and Testing of New Antimalarial Drugs - FY 2009-2010 (Centers for Disease Control and Prevention), $200,000, August 8, 2008-July 31, 2010.

2. **Dr. Benjamin Banahan** (P.I.-Center for Pharmaceutical Marketing and Management/Research Institute for Pharmaceutical Sciences), **Dr. Yi Yang** (Co-P.I.-Pharmacy Administration), **Dr. Patrick Pace** (Co-P.I.-Center for Pharmaceutical Marketing and Management/Research Institute for Pharmaceutical Sciences), **Dr. John Bentley** (Co-P.I.-Pharmacy Administration), and **Dr. Donna West** (Co-P.I.-Pharmacy Administration). Using a Medicare Claims Data Repository to Evaluate Medication Utilization and Safety in the Elderly Population (Department of Health and Human Services/Health Resources and Services Administration), $235,620, September 1, 2009-August 31, 2011.

3. **Dr. Alice Clark** (P.I.-National Center for Natural Products Research), and **Dr. Ameeta Agarwal** (Co-P.I.-National Center for Natural Products Research). New Drugs for Opportunistic Infections - FY 2009-2010 (National Institute of Allergy and Infectious Disease), $361,649, July 1, 2009-June 30, 2010.


5. **Dr. Stephen Cutler** (P.I.-Medicinal Chemistry), and **Dr. Susan Manly** (Co-P.I.-National Center for Natural Products Research). Center for Research Excellence in Natural Products Neuroscience – Administrative Supplement (National Institutes of
6. **Dr. Robert Doerksen** (P.I.-Medicinal Chemistry). Innovations through Computational Science-Bridge Funding (Mississippi State University/National Science Foundation), $13,491, June 9, 2009-July 31, 2009.


8. Dr. Raymond Highsmith (P.I.-National Institute for Undersea Science and Technology [NIUST]), **Dr. Marc Slattery** (Co-P.I.-Pharmacognosy), and Dr. Carol Lutken (Co-P.I.-MS Mineral Resources Institute). NIUST Tropical Ecosystem Science and Technology (U.S. Dept. of Commerce/National Oceanic and Atmospheric Administration), $849,000, October 1, 2009-September 30, 2010.


10. **Dr. Ikhlas Khan** (P.I.-National Center for Natural Products Research), and **Dr. Larry Walker** (Co-P.I.-National Center for Natural Products Research). Discovery and Development of Natural Product-Based Insect Management Compounds for Medical, Veterinary and Urban Concern - Amendment 2 (U.S. Department of Agriculture), $520,002, September 24, 2007-June 14, 2010.

11. **Dr. Ikhlas Khan** (P.I.-National Center for Natural Products Research), and **Dr. Larry Walker** (Co-P.I.-National Center for Natural Products Research). Botanical Dietary Supplement Research (Food and Drug Administration), $1,608,000, September 20, 2009-August 31, 2010.

12. **Dr. Ikhlas Khan** (P.I.-National Center for Natural Products Research). Science Based Authentication of Dietary Supplements (Food and Drug Administration), $552,000, July 1, 2009-June 30, 2010.

13. **Dr. David Murray** (P.I.-Pharmacology). The Role of Protease Activated Receptor-2 (PAR-2) and Cyclo-oxygenase-2 (Cox-2) in Ventricular Remodeling (American Heart Association), $132,000, July 1, 2009-June 30, 2011.


15. **Dr. Dale Nagle** (P.I.-Pharmacognosy), and **Dr. Yu-Dong Zhou** (Co-P.I.-Pharmacognosy). Anticancer Drug Discovery that Targets Tumor Hypoxia - Year 5 (National Institutes of Health/National Cancer Institute), $280,987, July 1, 2009-May 31, 2010.


18. **Dr. Leigh Ann Ross** (P.I.-Pharmacy Practice). University of Mississippi Medical Center/University of Mississippi School of Pharmacy/Pharmacy Practice’s

20. **Dr. Leigh Ann Ross** (P.I.-Pharmacy Practice), and **Dr. Barbara Wells** (Co-P.I.-Dean’s Office). Delta Pharmacy Patient Care Management Project (Delta Health Alliance/Health Resources and Services Administration), $200,000 (revising budget from $800,000 for a total of $1,000,000), July 1, 2009-June 30, 2010.


22. **Dr. Leigh Ann Ross** (P.I.-Pharmacy Practice). UM School of Pharmacy/Pharmacy Practice/University of Mississippi Medical Center/Department of Medicine/Division of Infectious Diseases Agreement - FY 2009-2014 (University of Mississippi Medical Center), $69,725, July 1, 2009-June 30, 2014.

23. **Dr. Leigh Ann Ross** (P.I.-Pharmacy Practice). University of Mississippi School of Pharmacy and Baptist Memorial Hospital-North Mississippi Agreement - FY 2009-2010 (Baptist Memorial Hospital-North Mississippi), $56,250, August 19, 2009-August 18, 2010.

24. **Dr. Leigh Ann Ross** (P.I.-Pharmacy Practice). University of Mississippi Medical Center/University of Mississippi School of Pharmacy/Dept. of Pharmacy Practice – Contract for Residency Program Support - FY 2009-2010 (University of Mississippi Medical Center), $25,000, July 1, 2009-June 30, 2010.


27. **Dr. Babu Tekwani** (P.I.-National Center for Natural Products Research), **Dr. Muhammad Ilias** (Co-P.I.-National Center for Natural Products Research), and **Dr. Dhammika Nanayakkara** (Co-P.I.-National Center for Natural Products Research). Natural Product Leads for New Drug Discovery Against Leishmaniasis (U.S. Army Medical Research Acquisition Activity), $1,132,768, August 1, 2009-August 31, 2012.

28. Dr. Gregory Tschumper, Dr. Amal Dass, Dr. Nathan Hammer, Dr. Keith Hollis, Dr. Randy Wadkins (P.I.’s-Chemistry and Biochemistry), Dr. Yixin Chen (P.I.-Computer and Information Science), **Dr. Robert Doerksen** (P.I.-Medicinal Chemistry), and Dr. Maxine Harper (P.I.-Center for Educational Research and Evaluation). Modeling and Simulation of Complex Systems (Mississippi State University/National Science Foundation), $792,655, September 1, 2009-August 31, 2010.

29. **Dr. Larry Walker** (P.I.-National Center for Natural Products Research). Development of Natural Products from Plants and Microbes for Replacement of Synthetic Pesticides - Amendment 5 (U.S. Department of Agriculture/Agricultural Research Service), $2,380,393, September 6, 2006-July 31, 2011.
30. **Dr. Barbara Wells** (P.I.- Dean’s Office), and **Dr. Charles Hufford** (Co-P.I.- Dean’s Office). National Center for Natural Products Research – Phase II (Department of Health and Human Services/Health Resources and Services Administration), $941,490, September 1, 2008-September 30, 2013.

31. **Dr. Barbara Wells** (P.I.- Dean’s Office), and **Dr. Leigh Ann Ross** (Co-P.I.- Pharmacy Practice). UM School of Pharmacy Instructional and Research Facility – Year 2 (Department of Health and Human Services/Health Resources and Services Administration), $5,651,910, September 1, 2008-September 30, 2011.

32. **Dr. Donna West-Strum** (P.I.-Pharmacy Administration), and **Dr. John Bentley** (Co-P.I.-Pharmacy Administration). Baseline Evaluation of Science of Safety at U.S. Colleges of Pharmacy (Virginia Commonwealth University/American Association of Colleges of Pharmacy), $21,000, January 1, 2009-September 30, 2009.


34. **Dr. Kristine Willett** (P.I.-Pharmacology/Environmental Toxicology Research Program). Fish Gill Toxicity (U.S. Army, Engineering Research and Development Center), $2,500, July 1, 2009-September 30, 2009.

35. **Dr. Kristine Willett** (P.I.-Pharmacology), and **Dr. Marc Slattery** (Co-P.I.-Pharmacognosy). YES Analysis of Cruise Ship Effluent (Florida-Spectrum Environmental Services, Inc.), $2,400, March 1, 2009-September 30, 2009.

36. **Dr. Kristine Willett** (P.I.-Pharmacology), and **Dr. Marc Slattery** (Co-P.I.-Pharmacognosy). YES Analysis of Cruise Ship Effluent (SGS North America, Inc.), $4,500, February 1, 2009-August 31, 2009.


38. **Dr. Jordan Zjawiony** (P.I.-Pharmacognosy), and **Dr. Charles Burandt** (Co-P.I.-National Center for Natural Products Research). Chemistry and Pharmacology of Newly Emerging Psychoactive Plants (National Institutes of Health), $71,584, May 1, 2009-April 30, 2011.

The following PUBLICATIONS have appeared:


17. Ahmed Galal, Waseem Gul, Desmond Slade, Samir Ross, S. Feng, M.G. Hollingshead, M.C. Alley, G. Kaur, and Mahmoud ElSohly, “Synthesis and evaluation of dihydroartemisinin and dihydroartemisitene acetal dimers showing


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 in 2009: 1
US Patents Pending: 29
Recent US Patents Granted: none

The following SPECIAL ANNOUNCEMENTS are also listed:
• Pharmacy Administration faculty selected: Suvapun Bunniran as the recipient of the 2009-2010 Outstanding Student Research Paper Award; and Kyle Null as the recipient of the 2009-2010 William E. Farlow Fellowship Award.
• Dr. S. Narasimha Murthy received a Global Indus Technovators Award from MIT’s IBC for his ongoing study of electrically mediated, non-invasive technologies for drug delivery, diagnosis and treatment of various diseases. Dr. Murthy has developed several technologies to rapidly infuse pharmaceuticals across the skin and into the body.
• Dr. Michael Repka was an Invited Speaker at a workshop sponsored by Thermo Fisher Scientific, June 3-4, 2009, at Amgen, Thousand Oaks, CA. His topic was “Hot-Melt Extrusion of Polymer Blends and Sensitive Actives”.
• Dr. John Rimoldi has been awarded the Chemists Travel Assistance Award by the Society of Environmental Toxicology and Chemistry (SETAC). The award will cover registration fees and lodging expenses for Dr. Rimoldi to attend the SETAC North America 30th Annual Meeting, set for November 19-23 in New Orleans. The award will also provide for up to three graduate students to attend the meeting at a reduced cost.
• Dr. Samir Ross was presented with the School of Pharmacy Researcher of the Year Award during the Faculty Retreat in August.
• The article, “Biologically Active Cannabinoids from High-Potency Cannabis sativa” - Mohamed Radwan, Mahmoud ElSohly, Desmond Slade, S.A. Ahmed, Ikhlas Khan, and Samir Ross - was one of the Ten Most-Accessed Articles from the Journal of Natural Products during April-June 2009.

• Amir Wahba was the recipient of the Robert A. Magarian Student Podium Presentation Award at the 2009 Medicinal Chemistry/Pharmacognosy MALTO Meeting.

• Recent Poster/Podium Presentations:
  (a) Sunil Battu, Z. Rahman, Soumyajit Majumdar, Waseem Gul, Mahmoud ElSohly, and Michael Repka, “Evaluation of a Novel Δ⁹-Tetrahydrocannabinol Prodrug, ELI-UNI-88-4”, Annual Neuroscience and Behavior Research Day, The University of Mississippi School of Medicine, Jackson, MS, 2008 (Poster).


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