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Research News: 2003, no. 1

University of Mississippi. School of Pharmacy

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The University of Mississippi

Interoffice Memorandum
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TO: All School of Pharmacy Personnel

FROM: Charles D. Hufford, Associate Dean for Research and Graduate Programs

DATE: January 21, 2003

SUBJECT: Research News (#1)

The following **GRANTS/CONTRACTS** have recently been awarded:

1. **Dr. Kim Adcock** (P.I. – Pharmacy Practice) – The Effects of Inhaled Fluticasone on Inflammatory Mediators in Neonates at Risk for Chronic Lung Disease (American College of Clinical Pharmacy – Aventis Allergy/Asthma Research) - \$2,402.00.
2. **Dr. Charles Burandt** (P.I. – RIPS/NCNPR) and **Mr. Greg Swain** (Co-P.I. – RIPS/NCNPR) – Cultivation of Medicinal Plants on Small Mississippi Farms (Alcorn State University) - \$100,000.00 – July 1, 2002-June 30, 2005.
3. **Dr. Joseph Byrd** (P.I. – Pharmacy Practice) – Agreement for Teaching, Patient Care and Clinical Research: Dr. Deborah King (University of Mississippi Internal Medicine Associates) – \$12,000.00 – January 1, 2003-December 31, 2003.
4. **Dr. John Cleary** (P.I. – Pharmacy Practice) – AMFN-001 (Intermune, Inc.) – \$3,000.00 – November 2002-November 2003.
5. **Dr. Mark Hamann** (P.I. – Pharmacognosy) – Unrestricted Research on Marine Natural Products (Sequoia Sciences) – \$3,000.00 – December 1, 2002-November 30, 2003.
6. **Dr. Mark Hamann** (P.I. – Pharmacognosy) – Marine Natural, Semisynthetic and Synthetic Products as Leads for Drug Discovery Oncology (PharmaMar) - \$78,750.00 – October 1, 2002-September 30, 2003.
7. **Dr. Christopher McCurdy** (P.I. – Medicinal Chemistry) – Molecular Modeling, Design, Synthesis, and Biological Evaluation of Novel Nociceptin/Orphanin FQ Receptor Ligands (American Association of Colleges of Pharmacy) - \$10,000.00 – December 2002-December 2003.
8. **Dr. Rita Moraes** (P.I. – RIPS/NCNPR) – American Mayapple and Eastern Red Cedar as Potential Domestic Sources of the Anti-Cancer Compound *Podophyllotoxin* (Mississippi State University/U.S. Department of Agriculture) - \$53,438.00.

9. **Dr. John Schetz** (P.I. – Pharmacology) – Synthetic and Natural Small Molecule Zebra Mussel Anti-Foulants (U.S. Environmental Protection Agency/EPSCOR/University of Southern Mississippi) - \$54,866.00 – July 1, 2002-June 30, 2003.
10. **Dr. John Schetz** (P.I. – Pharmacology) – Drug Interaction Sites on Dopamine and Serotonin Receptors (University of Mississippi Medical Center/National Institutes of Health/COBRE) - \$230,827.00 – June 1, 2002-June 1, 2003.
11. **Dr. Larry Walker** (P.I. – RIPS/NCNPR) – Natural Products Acting via New Anti-Fungal Targets (Georgetown University/National Institutes of Health) - \$303,715.00 – May 1, 2002-April 30, 2003.
12. **Dr. Kristine Willett** (P.I. – Pharmacology) – Screening of Environmental Contaminants Detected in Mississippi Sediments..., Modification No. 3 (Mississippi State University/U.S. Geological Survey) - \$13,232.00 – March 1, 2002-February 28, 2003.
13. **Dr. Kristine Willett** (P.I. – Pharmacology) – Characterization of Flavonoids' Ability to Decrease CYP1B1 Activity (American Association of Colleges of Pharmacy/New Investigators Program) - \$10,000 – December 1, 2002-November 30, 2003.
14. **Dr. John Williamson** (P.I. – Medicinal Chemistry) – Mississippi Functional Genomics Network: Pharmacogenetics Facility Component/BRIN (University of Southern Mississippi/National Institutes of Health) - \$348,000.00 – September 1, 2002-October 31, 2003.
15. **Dr. Jordan Zjawiony** (P.I.- Pharmacognosy) – Contract for Student Participation on “Neuroendocrinology of the Skin and Connective Tissue: Steroidogenesis” Project (University of Tennessee/National Institutes of Health) - \$4,800.00 – October 1, 2002-July 31, 2003.
16. **Dr. Jordan Zjawiony** (P.I.- Pharmacognosy) – High Performance Liquid Chromatograph for Research on Utilization of Natural Products in Agriculture and Forestry (U.S. Department of Agriculture) - \$25,000.00 – July 1, 2002-December 31, 2002.

The following **PUBLICATIONS** have appeared:

1. **J.P. Bentley, N.E. Wilkin and D.J. McCaffrey** – “Il Problema Della Compliance Dal Punto Di Vista Del Paziente”, *Medical Economics Italia*.
2. **B.R. Brown** – “Managing HIV Disease: 2002”, *Drug Topics*, September 2, 2002.
3. **W.M. Davis** – “What Pharmacists Should Know about West Nile Virus”, *Insights* (State Journal of the California Pharmacists Association), pp. 10-18, October 2002.
4. J.S. Hallam and **D.R. Feller** – “Recreational Sports Injuries and Patient Self-Care” – *Drug Topics*, July 1, 2002.
5. S.G. Lalchandani, L. Lei, W. Zheng, M.M. Suni, B.M. Moore, S.B. Liggett, D. D. Miller and **D.R. Feller** – “Yohimbine Dimers Exhibiting Selectivity for the Human α_2c -Adrenoceptor Subtype”, *The Journal of Pharmacology and Experimental Therapeutics*, **303**, pp. 979-984, 2002.
6. **D.S. King**, M.R. Wofford and J.L. Stewart – “The RAS: A Primary Target for Cardiovascular Disease Prevention”, *Drug Topics*, November 4, 2002.
7. **X.C. Li**, A.S. Joshi, **B. Tan**, **H.N. ElSohly**, **L.A. Walker**, **J.K. Zjawiony** and **D. Ferreira** – “Absolute Configuration, Conformation, and Chiral Properties of Flavanone-(3⁸)-Flavone Biflavonoids from *Rheedia acuminata*”, *Tetrahedron*, **58**, pp. 8709-8717, 2002.
8. **S. Noble**, **R. Ogletree** and **D. King** – “For the Distaff Side: Hormone Replacement Therapy”, *Drug Topics*, November 4, 2002.

9. **A.R. Spies** – “The Controlled Substances Act: Legal Implications for R.Ph.s”, *Drug Topics*, pp. 49-58, October 21, 2002.
10. J.G. Topliss, **A.M. Clark**, E. Ernst, **C.D. Hufford**, G.A.R. Johnston, **J.M. Rimoldi** and B.J. Weimann – “Natural and Synthetic Substances Related to Human Health (IUPAC Technical Report)”, *Pure and Applied Chemistry*, **74**, pp. 1957-1985, 2002.
11. **J.S. Williamson** and **C.M. Wyandt** – “Quelling Gastroesophageal Reflux Disease”, *Drug Topics*, December 16, 2002.
12. **J.S. Williamson** and **C.M. Wyandt** – “The Burden of Depression”, *Drug Topics*, November 18, 2002.
13. D.Y. Xie, S.B. Sharma, N.L. Paiva, **D. Ferreira** and R.A. Dixon – “Role of Anthocyanidin Reductase, Encoded by *BANYULS* in Plant Flavonoid Biosynthesis”, *Science*, **299**, pp. 396-399, January 17, 2003.

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.

Invention Disclosures Filed in 2002: 10
 US Patent Applications Pending: 16
 Recent Patents Granted: N/A
 Patents Recently Assigned to UM: • PATENT NUMBER: 6,087,385
 PATENT TITLE: Flavonoid derivatives
 INVENTORS: Pershadsingh; Harrihar A., **Avery; Mitchell A.**
 • PATENT NUMBER: 6,204,288
 PATENT TITLE: 1,2-Dithiolane Derivatives
 INVENTORS: Pershadsingh; Harrihar A., **Avery; Mitchell A.**
 • PATENT NUMBER: 6,353,011
 PATENT TITLE: 1,2-Dithiolane Derivatives
 INVENTORS: Pershadsingh; Harrihar A., **Avery; Mitchell A.**
 • PATENT NUMBER: 6,369,098
 PATENT TITLE: Dithiolane derivatives
 INVENTORS: Pershadsingh; Harrihar A., **Avery; Mitchell A.**

The following **SPECIAL ANNOUNCEMENTS** are also listed:

- **Dr. Walter Chambliss** was elected Fellow of the American Pharmaceutical Association and will be recognized at the APhA Annual Meeting in March 2003.
- **Dr. Mahmoud ElSohly** was presented the 2002 Distinguished Alumni Award by the University of Pittsburgh.
- **Dr. Leigh Ann Ramsey**, Assistant Professor of Pharmacy Practice, has recently been notified by the Board of Pharmaceutical Specialties (BPS) that she passed the board certification exam in Pharmacotherapy. Effective January 1, 2003, she became the fourth full-time, regular faculty member of the School of Pharmacy to become credentialed as a Specialist by the BPS. Only 2,068

pharmacists in the country are credentialed in this specialty area. Leigh Ann practices at the Pharmaceutical Care Clinic at the Jackson Medical Mall.

- Faculty and Students of the Pharmaceutics Department made presentations at the Annual Meeting of the American Association of Pharmaceutical Scientists in Toronto, Canada - November 10-14, 2002. This is the most important meeting for the Pharmaceutics discipline, with approximately 10,000 in attendance. The department was well represented in a variety of research areas covered by the presentations as shown below:
 - a. **K. Gutta, M. Munjal, S. Ross, M. ElSohly and M.A. Repka** – “Influence of Δ^9 -Tetrahydrocannabinol on the Bioadhesive Properties of Cellulosic Films”
 - b. **M. Munjal, S. Ross, M. ElSohly and M. A. Repka** – “Effect of Processing Temperature on the Stability of Δ^9 -Tetrahydrocannabinol in Klucel Polymer Matrix Systems”
 - c. **K. Gutta, P. Mididoddi, and M. A. Repka** – “Release Studies of Lidocaine-Incorporated Cellulosic Films Produced by Hot-Melt Extrusion Technology”
 - d. **S. P. Stodghill, S. Prodduturi, and M. A. Repka** – “Solid-State Characterization of Hot-Melt Extruded Films Containing Clotrimazole”
 - e. **S. Prodduturi and M.A. Repka** – “Drug Content and Adhesive Uniformity of Hot-Melt Extruded Hydroxypropyl Cellulose Films Containing Clotrimazole”
 - f. **P. Mididoddi and M. A. Repka** – “Bioadhesive Properties Of Hot-Melt Extruded Drug Delivery Systems On The Human Nail”
 - g. **S. P. Stodghill and N. Pavuluri** – “Thermal Analytical Methods in the Physical Characterization of Select Nutraceuticals”
 - h. **C. Illapakurthy and C. M. Wyandt** – “Competitive Inclusion Complexation in a Weak Acid/Drug/Cyclodextrin System at Different pHs”
 - i. **C. Illapakurthy, Y. A. Sabnis, S. P. Stodghill, and C. M. Wyandt** – “Prediction of Complexation Free Energies Between Various Drugs and Hydroxypropyl Beta Cyclodextrin Using Molecular Modeling”
 - j. **S. Cheboyina and C. M. Wyandt** – “Freeze Pelletization Technique for the Preparation of Oral Immediate and Controlled Release Matrix Pellets”
 - k. **V. S. Rudraraju and C. M. Wyandt** – “Rheological Characterization of Microcrystalline Cellulose/Sodium Carboxymethylcellulose Hydrogels: Cause of Thixotropy”
 - l. **V. S. Rudraraju and C. M. Wyandt** – “Rheological Characterization of Thixotropic Hydrogels: Shear Thinning Behavior”
 - m. **K. Shah, B. A. Avery and C. M. Wyandt** – “Evaluation of Selected Commercial Preparations of St. John's Wort”
 - n. **K. Dutta, B. A. Avery and C. M. Wyandt** – “Preformulation Evaluation of a Novel Antimalarial Drug”.

Please continue to send me important research and graduate information so that I might share it with your faculty colleagues. **THIS INFORMATION IS NOW BEING POSTED ON THE SCHOOL OF PHARMACY WEB PAGE!** Thank you.

cc: Dean Barbara G. Wells
Ms. Dabney Weems