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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: October 28, 2002

SUBJECT: Research News (#3)

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

1. **Dr. Mitchell Avery** (P.I. – Medicinal Chemistry) – Development and Testing of New Medications for the Treatment of Emerging Infectious Diseases (Center for Disease Control/National Institute for Infectious Diseases) – \$1,500,000.00 – September 15, 2002-September 14, 2003.
2. **Dr. Mitchell Avery** (P.I. – Medicinal Chemistry) – Development and Testing of New Antimalarial Drugs (Department of Health and Human Services/Centers for Disease Control and Prevention) – \$2,499,996.00 – August 30, 2002-March 31, 2003.
3. **Dr. John Bentley** (P.I. – Pharmacy Administration) and **Dr. Noel Wilkin** (P.I. – Pharmacy Administration) – The Medicare Prescription Continuity of Care Project: Development and Implementation of the Prescription Continuity of Care System (Information and Quality Healthcare – Mississippi's Quality Improvement Organization) – \$216,930.00 – July 1, 2002-June 30, 2003.
4. **Dr. Joseph Byrd** (P.I. – Pharmacy Practice) – Agreement for Teaching, Patient Care, and Clinical Research Services (University of Mississippi Medical Center Department of Pediatrics) – \$22,008.00 – July 1, 2002-until amended.
5. **Dr. Joseph Byrd** (P.I. – Pharmacy Practice) – Agreement for Teaching, Patient Care, and Clinical Research Services (University of Mississippi Internal Medicine Associates) – \$9,000.00 – April 1, 2002-December 31, 2002.
6. **Dr. Joseph Byrd** (P.I. – Pharmacy Practice) – Administration and Operational Support for Residency Training Programs (University Hospitals and Clinics) – \$55,000.00 – July 1, 2002-June 30, 2003.
7. **Dr. Joseph Byrd** (P.I. – Pharmacy Practice) – Clinical and Administrative Services Contract (University Hospitals and Clinics) – \$155,000.00 - July 1, 2002-June 30, 2003.
8. **Dr. Alice Clark** (P.I. – RIPS/NCNPR) and **Dr. Dale Nagle** (Co-P.I. – Pharmacognosy) – New Drugs for Opportunistic Infectious Diseases, Year 13 (National Institute of Allergy and Infectious Diseases) – \$251,125.00 – July 1, 2002-June 30, 2003.
9. **Dr. John Cleary** (P.I. – Pharmacy Practice) and Dr. Stanley Chapman (Co-P.I. – School of Medicine) – A Trial of Zenapax (Daclizumab) for the Prevention of the Nephrotoxicity and Other Adverse Reactions Associated with Amphotericin B Therapy in Fungal Disease (Roche Pharmaceuticals) – \$61,370.00 – September 11, 2002-September 11, 2006.

10. **Dr. John Cleary** (P.I. – Pharmacy Practice) – Pharmacogenomics of Natural Products with Antifungal Activity (National Institute of Allergy and Infectious Diseases) – \$288,151.00 – July 1, 2002-June 30, 2005.
11. **Dr. Mahmoud ElSohly** (P.I. – RIPS/NCNPR) and **Dr. Samir Ross** (Co-P.I. – RIPS/NCNPR) – Production, Analysis and Distribution of Cannabis and Marijuana Cigarettes (Modification No. 7) (National Institute on Drug Abuse) – \$67,531.00.
12. **Dr. Dennis Feller** (P.I. – Pharmacology) and **Dr. Ikhlas Khan** (Co-P.I. – RIPS/NCNPR) – Effects of Ephedra on Human Adrenoceptor Subtypes (National Center for Complementary and Alternative Medicine) – \$179,375.00 – September 1, 2002-August 31, 2003.
13. **Dr. Mark Hamann** (P.I. – Pharmacognosy) – Approaches to Characterization of Antiinfective Agents (National Institute of Allergy and Infectious Diseases) – \$101,250.00 – August 1, 2002-July 31, 2003.
14. **Dr. Ikhlas Khan** (P.I. – RIPS/NCNPR) – Mammalian Metabolism/Kinetics of Xanthohumol (Hop Research Council) - \$103,907.00 – June 1, 2002-May 31, 2003.
15. **Dr. Christopher McCurdy** (P.I. – Medicinal Chemistry) – Molecular Modeling, Design, Synthesis, and Biological Evaluation of Novel Nociceptin/Orphanin FQ (N/OFQ) Receptor Ligands (American Association of Colleges of Pharmacy New Investigators Program/American Foundation for Pharmaceutical Education) - \$10,000.
16. **Dr. Larry Walker** (P.I. – RIPS/NCNPR) – Natural Products Acting via New Anti-Fungal Targets (Georgetown University/National Institutes of Health) – \$303,715.00 - September 1, 2002-August 31, 2003.
17. **Dr. Larry Walker** (P.I. – RIPS/NCNPR) and **Dr. Ikhlas Khan** (Co-P.I. – RIPS/NCNPR) – Botanical Dietary Supplements: Science-Base for Authentication and Analysis (Year 2) (Food and Drug Administration) – \$823,644.00 – September 30, 2002-September 29-2003.
18. **Dr. Larry Walker** (P.I. – RIPS/NCNPR) and **Dr. Ikhlas Khan** (Co-P.I. – RIPS/NCNPR) – Botanical Dietary Supplements: Science-Base for Authentication and Analysis (Supplement) - \$667,356.00 – September 30, 2002-September 29, 2003.
19. **Dr. Noel Wilkin** (P.I. – Pharmacy Administration) and **Dr. David McCaffrey** (Co-P.I. – Pharmacy Administration) – Evaluating the Relationships of Employee Loyalty, Customer Loyalty, and Financial Performance in Community Pharmacies (Institute for the Advancement of Community Pharmacy) – \$7,500.00 – January 1, 2002-January 1, 2003.
20. **Dr. Kristine Willett** (P.I. – Pharmacology) – Characterization of Flavonoids' Ability to Decrease CYP1B1 Activity (American Association of Colleges of Pharmacy New Investigators Program/American Foundation for Pharmaceutical Education) - \$10,000.
21. **Dr. John Williamson** (P.I. – Medicinal Chemistry) – UM BRIP/UIV MBRS (University of the Virgin Islands/NIH) – \$9,500.00 – July 10, 2002.
22. **Dr. John Williamson** (P.I. – Medicinal Chemistry) and **Ms. Jennifer Elzy** (Co-P.I. - Undergraduate Pharmacy Student) – Optimization of the Bioconversion of 10-Deoxaremisinin by *Mucor ramannianus* Using Fractional Factorial Methods: Illustration of How Whole-Cell Microbial Transformations Can Be Integrated Into Organic Synthesis as Useful Reagents (American Society of Pharmacognosy-Undergraduate Research Award) – \$2,500.00.

The following **PUBLICATIONS** have appeared:

1. A.J. Al-Rehaily, M.S. Ahmad, J.S. Mossa and **I. Muhammad** – “New Axane and Oppositane Sesquiterpenes from *Teclea nobilis*”, *Journal of Natural Products*, pp. 1374-1376, 2002.
2. **E. Bedir, I.A. Khan** and **L.A. Walker** – “Biologically Active Steroidal Glycosides from *Tribulus terrestris*”, *Pharmazie*, **57**, pp. 491-493, 2002.
3. **W.G. Chambliss, C.D. Hufford**, M.L. Flagg and J.K. Glisson – “Assessment of the Quality of Reference Books on Botanical Dietary Supplements”, *Journal of the American Pharmaceutical Association*, **42**, pp. 723-734, 2002.
4. **W.M. Davis** – “What Pharmacists Should Know About West Nile Virus – Newest Arbovirus to Cause Encephalitis in the USA”, Bureau of Pharmaceutical Services web site, 2002.
5. **D.C. Dunbar, J.M. Rimoldi, A.M. Clark**, M. Kelly and **M.T. Hamann** – “Anti-Cryptococcal and Nitric Oxide Synthase Inhibitory Imidazole Alkaloids from the Calcareous Sponge *Leucetta cf chagosensis*”, *Tetrahedron*, **56**, pp. 8795-8798, 2000.
6. **D. Ferreira** and **D. Slade** – “Oligomeric Proanthocyanidins: Naturally Occurring O-heterocycles”, *Nat. Prod. Rep.*, **19**, pp. 517-541, 2002.

7. **D.D. Garner** – “Effective Leadership: The Pharmacist’s Role and Responsibility”, *Drug Topics*, pp. 76-84, September 16, 2002.
8. T.R. Hoye, S.E.N. Ayyad, B.M. Eklov, N.E. Hashish, W.T. Shier, K.A. ElSayed and **M.T. Hamann** – “Toward Computing Relative Configurations: 16-*epi*-Latrunculin B, a New Stereoisomer of the Actin Polymerization Inhibitor Latrunculin B”, *Journal of American Chemical Society*, **124**, pp. 7405-7410, 2002.
9. Y. Luo, J.V. Smith, V. Paramasivam, A. Burdick, K.J. Curry, J.P. Buford, **I.A. Khan**, W.J. Netzer, H. Xu and P. Butko – “Inhibition of Amyloid- Aggregation and Caspase-3 Activation by the *Ginkgo biloba* Extract EGb761”, *Proceedings of the National Academy of Sciences*, pp. 12197-12202, 2002.
10. **D.J. McCaffrey** and **D.D. Garner** – “2001 Mississippi Compensation Survey”, *Mississippi Pharmacist*, pp. 16-19, Summer 2002.
11. **C.R. McCurdy** – “Pharmacy Education: From Prescott to Pharmacogenomics”, *Journal of the American Pharmaceutical Association*, **42**, pp. 688-691, 2002.
12. **H. Mishra, A.L. Parrill** and **J.S. Williamson** – “Three-Dimensional Quantitative Structure-Activity Relationship and Comparative Molecular Field Analysis of Dipeptide Hydroxamic Acid *Helicobacter pylori* Urease Inhibitors”, *Antimicrobial Agents and Chemotherapy*, **46**, pp. 2613-2618, August 2002.
13. **K.K. Schrader, D.G. Nagle** and **D.E. Wedge** – “Algal and Cyanobacterial Metabolites as Agents for Pest Management”, *Advances in Microbial Toxin Research and its Biotechnological Exploitation*, pp. 171-195, 2002.
14. **A.R. Spies** – “Compounding: The Practice of Pharmacy or a Liability Risk?”, *Drug Topics*, pp. 36-45, July 15, 2002.
15. **S. Takamatsu, Q. Zhang, K.K. Schrader, H.N. ElSohly** and **L.A. Walker** – “Characterization of *Mycotypha* Metabolites Found to be Inhibitors of Cell Adhesion Molecules”, *The Journal of Antibiotics*, **55**, pp. 585-592, June 2002.
16. R.L. Wood and **E.H. Hood** – “Management of Urinary Incontinence”, *Drug Topics*, pp. 53-62, June 2002.
17. **Z. Zhang, H.N. ElSohly, M.R. Jacob, D.S. Pasco, L.A. Walker** and **A.M. Clark** – “New Sesquiterpenoids from the Root of *Guatteria multivenia*”, *Journal of Natural Products*, **65**, pp. 856-859, 2002.
18. **Z. Zhang, H.N. ElSohly, M.R. Jacob, D.S. Pasco, L.A. Walker** and **A.M. Clark** – “Natural Products Inhibiting *Candida albicans* Secreted Aspartic Proteases from *Lycopodium cernuum*”, *Journal of Natural Products*, **65**, pp. 979-985, 2002.
19. **Z. Zhang, H.N. ElSohly, M.R. Jacob, D.S. Pasco, L.A. Walker** and **A.M. Clark** – “Natural Products Inhibiting *Candida albicans* Secreted Aspartic Proteases from *Tovomita krukovi*”, *Planta Med*, **68**, pp. 49-54, 2002.

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: 8
Patent Applications Pending: 11
Recent Patents Granted: N/A
Patents Recently Assigned to UM:

- Patent #: 6,375,963
“Bioadhesive hot-melt extruded film for topical and mucosal adhesion applications and drug delivery and process for preparation thereof”
Michael Repka et. al.
- Patent #: 5,714,165
“Bioadhesive polyethylene glycol ointment for medicaments”
Michael Repka et. al.
- Patent #: 5,112,620
“Polyethylene glycol ointment for apthous ulcers”
Michael Repka et. al.

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

- **Dr. Daneel Ferreira** has been selected as President-elect for the Phytochemical Society of North America for the period 2002-2003.
- **Mr. Scott Hicks** was presented the 2002 Nobles Sam Award for his presentation entitled "Virtual High Throughput Screening of Lead Analogs: Selection of a Focused Library of Inhibitors of Human Granzyme B with Increased Potency". The award is presented each year to a Graduate Student in the Department of Medicinal Chemistry.
- The American Association of Colleges of Pharmacy recognized the outstanding accomplishments of 101 pharmacy educators from 63 U.S. colleges and schools of pharmacy during the AACP Annual Meeting Awards Banquet on July 16, 2002 in Kansas City, Missouri. **Dr. Rachel Robinson** was selected by students and faculty to be honored as The University of Mississippi School of Pharmacy's Outstanding Teacher during the banquet.
- The American Association of Colleges of Pharmacy installed its eleven-member Board of Directors on July 17, 2002 at the conclusion of its 103rd Annual Meeting. **Dean Barbara G. Wells** was installed as the President and Chairman of the Board of Directors.
- **Mr. Francis Tukov** (Pharmacology Graduate Student) was awarded the first place award and **Mr. Ruben Salas** (Visiting Scholar) was awarded the second place award for their poster presentations at the recent Southeastern Pharmacology Meeting, which was held in Johnson City, Tennessee.

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