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12-17-2003

Research News: 2003, no. 4

University of Mississippi. School of Pharmacy

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The University of Mississippi

Interoffice Memorandum

**SCHOOL OF PHARMACY
OFFICE OF THE DEAN
University, MS 38677**

Phone: (662) 915-7265 Fax: (662) 915-5704

TO: All School of Pharmacy Personnel

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

DATE: December 17, 2003

SUBJECT: Research News (#4)

The following GRANTS/CONTRACTS have recently been awarded:

1. **Dr. Mitchell Avery** (P.I. – Medicinal Chemistry) – Rational Design and Synthesis of Novel Drugs for the Treatment of Emerging Infectious Diseases (Centers for Disease Control and Prevention), \$1,500,000.00 – September 15, 2003-September 14, 2004.
2. **Dr. Joseph Byrd** (P.I. – Pharmacy Practice) – Agreement for Clinical Liaison: Dr. Billy Brown (University of Mississippi Medical Center), \$43,363.00 – July 1, 2003-March 31, 2004.
3. **Dr. Joseph Byrd** (P.I. – Pharmacy Practice) – Agreement for Support of Residency Training Programs (University Hospitals and Clinics), \$55,000.00 – July 1, 2003-June 30, 2004.
4. **Dr. Joseph Byrd** (P.I. – Pharmacy Practice) – Agreement for Clinical and Administrative Services (University Hospitals and Clinics), \$31,380.38 – July 1, 2003-June 30, 2004.
5. **Dr. Christopher McCurdy** (P.I. – Medicinal Chemistry) – Salvinorin A: A Structurally Novel Opioid Agonist Lead (National Institute on Drug Abuse), \$71,750.00 – September 30, 2003-June 30, 2004.
6. **Dr. Michael Repka** (P.I. – Pharmaceuticals) and **Dr. Samir Ross** (Co-P.I. – Pharmacognosy/RIPS/NCNPR) – Transmucosal Intra-Oral Drug Delivery System for THC (Small Business Technology Transfer Program, National Institutes of Health), \$59,980.00 – June 1, 2003-May 31, 2004.
7. **Dr. Larry Walker** (P.I. – RIPS/NCNPR), **Dr. Walter Chambliss** (Co-P.I. – RIPS/NCNPR) and **Dr. Marc Slattery** (Co-P.I. – Pharmacognosy) – New Drugs from Marine Natural Resources – Jamaican Reefs (National Institutes of Health), \$173,000.00 – September 1, 2003-August 31, 2005.
8. **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) (Food and Drug Administration), \$564,156.00 – September 30, 2003- September 29, 2004.

9. **Dr. Barbara Wells** (P.I. – RIPS/Pharmacy Practice) and **Dr. Charles Hufford** (Co-P.I. – RIPS/Pharmacognosy) – Health Care and Other Facilities-National Center for Natural Products Research - Phase II (Health Resources and Services Administration [HRSA]), \$934,389.00 – October 1, 2003-September 30,2008.
10. **Dr. Noel Wilkin** (P.I. – Pharmacy Administration) – Attribution of Blame by Physicians: Perceptions of Generic and Branded Products (Food and Drug Administration), \$89,303.00.
11. **Dr. Jordan Zjawiony** (P.I. – Pharmacognosy) – Special American Business Internship Training Program (United States Department of Commerce), \$13,700.00 – July 1, 2003-December 31, 2003.

The following PUBLICATIONS have appeared:

1. A.J. Al-Rehaily, M.S. Ahmad, **I. Muhammad**, A.A. Al-Thukair and H.P. Perzanowski – “Furoquinoline alkaloids from *Teclea nobilis*”, *Phytochemistry*, **64**, pp. 1405-1411, 2003.
2. **A.B. Beeler, R.S.V.S. Gadepalli**, S. Steyn, N. Castagnoli, Jr. and **J.M. Rimoldi** – “Synthesis and In Vitro Biological Evaluation of Fluoro-Substituted-4-phenyl-1,2,3,6-tetrahydropyridines as Monoamine Oxidase B Substrates”, *Bioorganic and Medicinal Chemistry*, **11**, pp. 5229-5234, 2003.
3. **R.S.V.S. Gadepalli, M.S.R. Murty, S.R. Slauson, J.M. Rimoldi** and F.R. Fronczek – “(+)-6-Benzyl-17-oxosparteine”, *Acta Crystallographica*, **59**, pp. 1832-1834, 2003.
4. **R.S.V.S. Gadepalli, J.M. Rimoldi** and F.R. Fronczek – 1- -Hydroxycorticosterone hemihydrate”, *Acta Crystallographica*, **59**, pp. 1525-1527, 2003.
5. H.J. Kumpaty, **J.S. Williamson** and S. Bhattacharyya – “Synthesis of *N*-methyl secondary amines”, *Synthetic Communications*, **33**, pp. 1411-1416, 2003.
6. **W.B. Lobb** and **N.E. Wilkin** – “Admission and Progression Standards at U.S. Schools and Colleges of Pharmacy: An Exploration of Criteria Changes”, *American Journal of Pharmaceutical Education*, **67**, 2003.
7. **B. Miriyala** and **J.S. Williamson** – “An Efficient and Rapid Synthesis of -Carboxamide Derivatives Using 2,2-Dimethyl-2*H*,4*H*-1,3-dioxin-4-ones by Microwave Irradiation”, *Tetrahedron Letters*, **44**, pp. 7957-7959, 2003.
8. E.M.F. Muri, **H. Mishra, M.A. Avery** and **J.S. Williamson** – “Design and Synthesis of Heterocyclic Hydroxamic Acid Derivatives as Inhibitors of *Helicobacter pylori* Urease”, *Synthetic Communications*, **33**, pp. 1977-1995, 2003.
9. **I. Muhammad, S. Takamatsu, L.A. Walker** J.S. Mossa, H.H.S. Fong and F.S. El-Feraly, – “Cytotoxic and Antioxidant Activities of Alkylated Benzoquinones from *Maesa lanceolata*”, *Phytotherapy Research*, **17**, pp. 887-891, 2003.
10. H. Villa, Y.P. Pertejo, C.G. Estrada, R.M. Reguera, J.M. Requena, **B.L. Tekwani**, R.B. Fouce and D. Ordonez – “Molecular and functional characterization of adenylate kinase 2 gene from *Leishmania donovani*”, *Eur. J. Biochem.*, **270**, pp. 4339-4347, 2003.
11. **B.G. Wells** – “Why Leadership: It’s All About Patients”, *American Journal of Pharmaceutical Education*, **67**, 2003.
12. **B.G. Wells** – “Leadership for Ethical Decision Making”, *American Journal of Pharmaceutical Education*, **67**, 2003.
13. **J.S. Williamson** and **C.M. Wyandt** – “Prostate Cancer: A Race and Age Biased Disease”, *Bureau of Pharmaceutical Services, Continuing Education for Pharmacists*, November 26, 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 2003: 13
US Patent Applications Pending: 19
Patent issued in 2003: 0
Patents Recently Assigned to UM: 0

The following SPECIAL ANNOUNCEMENTS are also listed:

- A recent presentation titled, “Evaluation of a GC/MS Procedure for the Analysis of ⁹-THC and ⁹-THC Hemisuccinate in Suppository Formulations as Part of a Stability Study” by Dr. Zlatko Mehmedic, Dr. Mahmoud ElSohly, Dr. Samir Ross and Mr. Donald Stanford was presented at the Second Annual Conference on Cannabinoids in Medicine held by the International Association for Cannabis as Medicine in Cologne, Germany, September 12-13, 2003.
- Dr. Samir Ross was the invited speaker at the International Conference on Natural Products: Chemistry, Technology and Medicinal Perspectives, held October 8-11, 2003 in Almaty, Kazakhstan. The title of his talk was “Mushrooms as a Potential Source for Biologically Active Compounds”. Dr. Ross also attended the North American Mycological Association – Foray 2003, held at Saint-Augustin-de-Desmaures, Quebec, Canada, August 29-September 1, 2003.
- Dr. Bryan Brooks, a graduate of the graduate program in Environmental Toxicology Research Program (Pharmacology), recently had a news release regarding the exposure of fish to the antidepressant drug Prozac. See full details at:
http://www.msnbc.com/modules/exports/ct_email.asp?/news/984141.asp
- The Poster Session held in TCRC on October 16, 2003 had 87 posters submitted. The breakdown is listed below:

Natural Products Center	60
Department of Chemistry	10
USDA	4
Pharmacognosy	4
Pharmaceutics	3
Environmental Toxicology	2
Pharmacy Administration	2
Pharmacology	1
Biology	1

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