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Research News: 2001, no. 3

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: August 1, 2001

SUBJECT: Research News (#3)

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

1. **Dr. Mitchell Avery** (P.I. – Medicinal Chemistry), **Dr. Dennis Feller** (Co-P.I. – Pharmacology) and **Dr. Alice Clark** (Co-P.I. – NCNPR/RIPS) – Development of Novel Antifungal AntiPC Natural Products (Year 3) (National Institutes of Health/National Institute of Allergy and Infectious Diseases), \$287,602.
2. **Dr. John Bentley** (P.I. – Pharmacy Administration) – Data Management of a Prescription Medication Tracking Study: Year Two Continuation (Roger Green and Associates), \$10,630 – 5/01-12/01.
3. **Dr. Alice Clark** (P.I. – NCNPR/RIPS) and **Dr. Dale Nagle** (Co-P.I. – Pharmacognosy) – New Drugs for Opportunistic Infections (Year 12) (NIH/NIAID), \$215,250.
4. **Dr. John Cleary** (P.I. – Pharmacy Practice) – Pharmacogenomic Evaluation of Antifungal Combination (Elan Pharmaceuticals), \$16,400.
5. **Dr. Mark Hamann** (P.I. – Pharmacognosy) – Antiaids Agents from Marine Organisms (National Institute of Allergy and Infectious Diseases), \$224,284, 9/01/01-8/31/02.
6. **Dr. Ikhlas Khan** (P.I. – NCNPR/RIPS) and **Dr. Larry Walker** (Co- P.I. – NCNPR/RIPS) – Collection and Authentication of *Ephedra* Species (Food and Drug Administration), \$96,840 – 5/15/01-5/14/02.
7. **Dr. Ikhlas Khan** (P.I. – NCNPR/RIPS) and Dr. Kenneth Sufka (Co- P.I. – Psychology) – Mammalian Metabolism/Kinetics of Xanthohumol (HOP Research Council), \$100,511 – 6/1/01-5/31/02.
8. **Dr. David McCaffrey** (P.I. – Pharmacy Administration) – 2001 Mississippi Pharmacists Compensation Survey (Mississippi Pharmacists Association), \$2,000 – 7/15/01-7/14/02.

9. **Dr. Marc Slattery** (P.I. – Pharmacognosy) and **Dr. Bonnie Avery** (Co-P.I. – Pharmaceutics) – Marine Biotechnology: Antimicrobial Natural Products from Cave Sponges (CMRC NURP), \$18,746 – 11/00-11/02.
10. **Dr. Steven Stodghill** (P.I. – Pharmaceutics) – Thermal Analytical Techniques for Determining the Stability and Compatibility of Nutraceuticals (University of Mississippi Faculty Small Grants), \$3,280.
11. **Dr. Kristine Willett** (P.I. – Pharmacology) and **Dr. Christy Foran** (Co-P.I. – ECHR/RIPS) – Characterization of Bioassays and Chemical Contaminants in Croaker, Oyster, and Sediments Collected at Two Sites in the Mobile Bay National Estuary (Mobile Bay National Estuary Program), \$5,000.
12. **Dr. John Williamson** (P.I. – Medicinal Chemistry) Short-term Training for Minority Students (National Institutes of Health), \$48,168 – 5/15/01-5/14/02.
13. **Dr. John Williamson** (P.I. – Medicinal Chemistry) MBRS Rise Program (Mississippi Valley State University), \$15,000 – 5/29/01-8/15/01.
14. **Dr. John Williamson** (P.I. – Medicinal Chemistry) Molecular Modeling of Signal Peptidases to Design New Inhibitors for *E coli* Type I Signal Peptidases (American Society of Pharmacognosy), \$2,500.

The following **PUBLICATIONS** have appeared:

1. **E.A. Abourashed, I. Muhammad**, M. Resch, R. Bauer, F.S. El-Feraly and **C.D. Hufford** – “Inhibitory Effects of Maesanin and Analogs on Arachidonic Acid Metabolizing Enzymes”, *Planta Med.*, **67**, pp. 360-361, 2001.
2. A.J. Al-Rehaily, T.A. Al-Howiriny, M.S. Ahmad, M.A. Al-Yahya, F.S. El-Feraly, **C.D. Hufford** and A.T. McPhail – “Alkaloids from *Haplophyllum tuberculatum*”, *Phytochemistry*, **57**, pp. 597-602, 2001.
3. **E. Bedir**, I. Calis, **C. Dunbar**, R. Sharan, J.K. Buolamwini and **I.A. Khan** – “Two Novel Cycloartane-type Triterpene Glycosides from the Roots of *Astragalus prusianus*”, *Tetrahedron*, **57**, pp. 5961-5966, 2001.
4. L. Bennie, J. Coetzee, E. Malan and **D. Ferreira** – “Structure and Stereochemistry of Triflavanoids Containing Both Ether and Carbon-carbon Interflavanyl Bonds”, *Phytochemistry*, **57**, pp. 1023-1034, 2001.
5. **M. Ganzera**, P. Pujol, **L.A. Walker** and **I.A. Khan** – “An Improved Method for the Determination of Betaine in *Echinacea* Products”, *Pharmazie*, **56**, pp. 552-553, 2001.
6. **M. Ganzera**, **I. Muhammad**, **R.A. Khan** and **I.A. Khan** – “Improved Method for the Determination of Oxindole Alkaloids in *Uncaria tomentosa* by High Performance Liquid Chromatography”, *Planta Med.*, **67**, pp. 447-450, 2001.
7. **A.S. Joshi**, **X.-C. Li**, A.C. Nimrod, **H.N. ElSohly**, **L.A. Walker** and **A.M. Clark** – “Dihydrochalcones from *Piper longicaudatum*”, *Planta Med.*, **67**, pp. 186-188, 2001.
8. **I.A. Khan**, **J. Allgood**, **L.A. Walker**, E.A. Abourashed, D. Schlenk and W.H. Benson – “Determination of Heavy Metals and Pesticides in Ginseng Products”, *Journal of AOAC International*, **84**, pp. 936-939, 2001.
9. A.F. Kiderlen, O. Kayser, **D. Ferreira** and H. Kolodziej – “Tannins and Related Compounds: Killing of Amastigotes of *Leishmania donovani* and Release of Nitric Oxide and Tumour Necrosis Factor α in Macrophages *in vitro*”, *Zeitschrift fur Naturforschung*, pp. 444-454, 2001.

10. A.A. Konkar, V.I. Nikulin, J. De Los Angeles, S.-S. Hong, R.H. Fertel, D.D. Miller and **D.R. Feller** – “Biochemical Activities of Trimetoquinol Analogs at Human α_1 and α_3 -Adrenergic Receptors”, *Pharmacology*, **62**, pp. 45-55, 2001.
11. J.W. McGinity, F. Zhang, **M.A. Repka** and J.J. Koleng – “Hot-Melt Extrusion as a Pharmaceutical Process”, *American Pharmaceutical Review*, **4**, pp. 25-36, Summer 2001.
12. **I. Muhammad, D.C. Dunbar, R.A. Khan, M. Ganzera** and **I.A. Khan** – “Investigation of Una De Gato I. 7-Deoxyloganic Acid and ^{15}N NMR Spectroscopic Studies on Pentacyclic Oxindole Alkaloids from *Uncaria tomentosa*”, *Phytochemistry*, **57**, pp. 781-785, 2001.
13. **I. Rajbhandari, S. Takamatsu** and **D.G. Nagle** – “A New Dehydrogeranylgeraniol Antioxidant from *Saururus cernuus* that Inhibits Intracellular Reactive Oxygen Species (ROS)-Catalyzed Oxidation within HL-60 Cells”, *Journal of Natural Products*, **64**, pp. 693-695, 2001.
14. **M.A. Repka** and J.W. McGinity – “Influence of Chlorpheniramine Maleate on Topical Hydroxypropylcellulose Films Produced by Hot-Melt Extrusion”, *Pharmaceutical Development and Technology*, **6**, pp. 295-302, 2001.
15. **A.R. Spies** – “Fraud, Pharmacy and the Law”, *Drug Topics*, pp. 65-74, January 2001.
16. W. Zheng, L. Jing, P.N. Patil, L. Lei, **D.R. Feller** and D.D. Miller – “4-(5-Isothiocyanato-1,2,3,4-Tetrahydro-1-Naphthyl)-1H-Imidazole: An Imidazole-Type Affinity Label for the α_1 -Adrenergic Receptor”, *Med. Chem. Res.*, **10**, pp. 318-327, 2001.

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 2001: 3
 US Patent Applications Pending: 8
Recent Patents Granted: none

SPECIAL ANNOUNCEMENTS:

None were submitted.

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. Beverly Urbanek
 Ms. Dabney Weems