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Research News: 2000, 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: November 16, 2000

SUBJECT: Research News (#4)

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

1. Dr. Mitchell Avery (P.I. – Medicinal Chemistry) – Design, Econ. Synth. and Testing of Nontoxic Artemisinin Analogs (World Health Organization), \$43,490 – (Year 3).
2. Dr. Mitchell Avery (P.I. – Medicinal Chemistry) – Rational Design and Synthesis of Novel Drugs for the Treatment of Emerging Infectious Diseases (CDC), \$1,500,000 – 10/1/00-9/30/01.
3. Dr. Mitchell Avery (P.I. – Medicinal Chemistry) – Development and Testing of New Antimalarial Drugs (CDC), \$5,000,000 – 9/1/00-8/31/01.
4. Dr. Alice M. Clark (P.I. – RIPS/NCNPR); Dr. Ikhlas Khan (Co-P.I. – RIPS/NCNPR); Ms. Allyson Best (Co-P.I. – RIPS/NCNPR); and Dr. Charles Burandt (Co-P.I. – RIPS/NCNPR) – Natural Products Initiative (Alcorn State University), \$700,000 – 7/01/00-6/30/01.
5. Dr. Alice M. Clark (P.I. – RIPS/NCNPR); Dr. Larry Walker (Co-P.I. – RIPS/NCNPR); and Dr. Charles Burandt (Co-P.I. – RIPS/NCNPR) – Phytomedicines at the University of Mississippi (CDC), \$1,823,000 – 9/30/00-9/29/01.
6. Dr. Alice M. Clark (P.I. – RIPS/NCNPR) – NCNPR/NPURU Development of Natural Products from Plants and Microbes for Replacement of Synthetic Pesticides, Amendment 5 (USDA), \$10,140.
7. Dr. Mahmoud ElSohly (P.I. – RIPS/NCNPR) – Appropriate Quality Control Procedures of Herbal Drugs in Egypt (U.S. Agency for International Development/Funds via Foreign Relations Coordination Unit, Egypt), \$40,000.
8. Dr. Mark Hamann (P.I. – Pharmacognosy); Dr. Mitch Avery (Co-P.I. – Medicinal Chemistry); and Dr. Jordan Zjawiony (Co-P.I. – Pharmacognosy) – AntiAIDS Agents from Marine Natural Products (PHS, NIAID, RO1), \$252,000 – 12/01/00-11/30/01.
9. Dr. Mark Hamann (P.I. – Pharmacognosy) – Novel Approaches to the Characterization of Antiinfective Agents – Year 3 (NIH/NIAID), \$91,908.

10. Dr. Ikhlas Khan (P.I. – RIPS/NCNPR) and Dr Alison Nimrod (Co-P.I. – RIPS/NCNPR) – Therapeutic Ratios of Herbs: Ginkgo as a Model (Center for Alternative Medicine Research and Education, Harvard), \$82,121 – 9/1/99-8/31/01.
11. Dr. David McCaffrey (P.I. – Pharmacy Administration) – The State of Pharmacy Affairs Departments within U.S. Pharmaceutical Companies: An Assessment of Structure, Role and Activities (Amgen), \$10,000 – 6/21/00-6/20/02.
12. Dr. David McCaffrey (P.I. – Pharmacy Administration) – Opportunities and Challenges Associated with the Implementation of Pharmaceutical Care in Mississippi (Saint Anthony Educational Foundation, Inc.) – 5,000.
13. Dr. Dale Nagle (P.I. – Pharmacognosy) and Dr. Dennis Feller (Co-P.I. – Pharmacology) – Discovery of New Drugs that Target Peroxisomal Proliferator-Activated Receptor-gamma (PPAR-gamma) for the Treatment of Breast Tumors (Dept. of Defense/2000 Breast Cancer Research Program: Concept Award – U.S. Army Medical Research Acquisition Activity), \$72,000 – 10/1/00-9/30/01.
14. Dr. Dale Nagle (P.I. – Pharmacognosy) – Discovery of New Angiogenesis Inhibitors to Treat Cancer (American Society of Pharmacognosy Foundation), \$2,500.
15. Dr. Dale Nagle (P.I. – Pharmacognosy) – Novel Fungicidal Agents to Control Plant Pathogens (American Society of Pharmacognosy) - \$5,000.
16. Dr. Marc Slattery (P.I. – Pharmacognosy) – Marine Biotechnology: Antimicrobial Natural Products from Cave Sponges (Perry Institute for Marine Science) - \$17,749.
17. Dr. Larry Walker (P.I. – RIPS/NCNPR) and Dr. Alice Clark (Co-P.I. – RIPS/NCNPR) – Natural Products Acting via New Anti-Fungal Targets (NIAID/NCI/Georgetown), \$168,744 – 9/1/00-8/31/01.
18. Dr. Larry Walker (P.I. – RIPS/NCNPR) – Preclinical Development of a New Drug for PCP and Malaria: Research Institute (NIH: Subcontract ElSohly Laboratories, Inc.) - \$192,031 – 10/1/99-9/30/01.

The following **PUBLICATIONS** have appeared:

1. R. Bekker, D. Ferreira, K.J. Swart and E.V. Brandt – “Biflavonoids. Part 5: Structure and Stereochemistry of the First Bibenzofuranoids”, *Tetrahedron*, **56**, pp. 5297-5302, 2000.
2. J.S. Williamson and C.M. Wyandt – “Chlamydia: The Silent STD”, *Drug Topics*, pp. 34-43, September 4, 2000.
3. D.B. Huggett, D.S. Block, I.A. Khan, J.C. Allgood and W.H. Benson – “Environmental Contaminants in the Botanical Dietary Supplement Ginseng and Potential Human Risk”, *Human and Ecological Risk Assessment*, **6**, pp. 767-776, 2000.
4. J.S. Williamson and C.M. Wyandt – “*Helicobacter pylori*: Causes and Cures”, *Drug Topics*, pp. 86-95, November 1, 1999.
5. S.A. Ross – Book Review – Medicinal and Aromatic Plants – Industrial Profiles: Cannabis: The Genus *Cannabis* Edited by D.T. Brown, *J. Nat. Prod.*, 2000.
6. D.G. Nagle, Y.D. Zhou, P.U. Park, V.J. Paul, I. Rajbhandari, C.J.G. Duncan and D.S. Pasco – “A New Indanone from the Marine Cyanobacterium *Lyngbya majuscula* That Inhibits Hypoxia-Induced Activation of the VEGF Promoter in Hep3B Cells”, *J. Nat. Prod.*, **63**, pp. 1431-1433, 2000.
7. J.S. Williamson and C.M. Wyandt – “The Pharmacist as Vitamin Expert”, *Drug Topics*, pp. 76-85, August 16, 1999.
8. J.P.J. Marais, I.M. Harvey, E.V. Brandt and D. Ferreira – “Polyphenols, Condensed Tannins, and Other Natural Products in *Onobrychis viciifolia* (Sainfoin)”, *J. Agric. Food Chem.*, **48**, pp. 3440-3447, 2000.

9. M. Ganzera, E. Bedir and I.A. Khan – “Separation of *Cimicifuga racemosa* Triterpene Glycosides by Reversed Phase High Performance Liquid Chromatography and Evaporative Light Scattering Detection”, *Chromatographia*, **52**, pp. 301-304, 2000.
10. J.S. Williamson and C.M. Wyandt – “What to Tell Your Patients About Antioxidants”, *Drug Topics*, pp. 120-129, December 6, 1999.

The following **TECHNOLOGY TRANSFER** transactions have occurred:

In the interest of protecting confidential information, the titles of invention disclosures and patent applications will not be published until after a patent has been issued. Inventors outside of the School of Pharmacy will not be published until after a patent has been issued.

INVENTION DISCLOSURES FILED IN 2000

- Mahmoud ElSohly, Samir Ross, et al.
- Hamidreza Ghandehari, Anjan Nan, Dhammika Nanayakkara
- John Buolamwini
- Alicia Bouldin, Mike Fortenberry, Noel Wilkin
- N. P. Dhammika Nanayakkara and Kevin Shrader
- Isamu Katsuyama, David Stewart, and Jordan Zjawiony

PATENT APPLICATIONS PENDING APPROVAL

- David S. Pasco, Nirmal Pugh, Mahmoud ElSohly, Samir Ross
- David S. Pasco, Nirmal Pugh, Mahmoud ElSohly, Samir Ross
- Mark T. Hamann, Khalid El Sayed et.al.
- Mitchell A. Avery
- David S. Pasco et. al.
- John K. Buolamwini et. al.
- Mahmoud ElSohly, Samir Ross, et al
- N. P. Dhammika Nanayakkara et. al.

RECENT PATENTS GRANTED:

“1,2-Dithiolane Derivatives”

Mitchell Avery et.al.

US Patent 6,127,394 Issued: October 3, 2000.

“Enhanced Yield Of Podophyllotoxin From Natural Products Through In Situ Conversion Methods”
Camilo Canel; Franck E. Dayan; ; Rita M. Moraes; Charles L. Burandt;

US Patent 6,143,304 Issued: November 7, 2000.

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

- Dr. Walt Chambliss was elected Chair-Elect of Basic Sciences in the APRS section of APhA.
- Dr. Walt Chambliss has been invited to give a presentation at the 4th Annual Consumer and Diversified Products Conference that will be held during the annual Controlled Release Society Meeting in June 2001 in San Diego. The requested title for his presentation is “Dietary Supplements and Controlled Release”.
- Dr. Bruce Parks has been elected a Fellow of the American College of Clinical Pharmacy. Fellowship in the College recognizes and rewards the highest levels of excellence in the practice and science of Clinical Pharmacy. The awarding of Fellow status is the highest honor the College can bestow on its

members. Dr. Parks has helped establish, by example, to people both within and outside the College, the definition of ACCP Fellowship.

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: Interim Dean Robert D. Sindelar
Ms. Barbara Lago
Ms. Beverly Urbanek
Ms. Dabney Weems