



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: February 24, 2000

SUBJECT: Research News (#1)

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

1. Dr. Mahmoud ElSohly (P.I. – NCNPR/RIPS) – Production and Analysis of Cannabis – Amendment Number 10 (National Institute on Drug Abuse), \$30,000.
2. Dr. Mark T. Hamann (P.I. – Pharmacognosy) – Lead Optimization Studies of the Antimalarial Marine Natural Product Manzamine (The World Health Organization), \$38,500 – 4/1/99-3/31/02.
3. Dr. Charles D. Hufford (P.I. – NCNPR/RIPS) – NMR Spectral Data for King Saud University (King Saud University), \$10,000 – 1/1/00-12/31/00.
4. Dr. Ikhlas Khan (P.I. – NCNPR/RIPS) and Dr. Muhammad Ilias (Co-P.I. – NCNPR/RIPS) – Isolation of Reference Compounds and Their Isolation Procedure (Chromadex), \$525,000 – 1/17/00-6/16/01.
5. Dr. Eugene M. Kolassa (P.I. – Pharmacy Administration/Center for Pharmaceutical Marketing and Management) and Dr. Mickey C. Smith (Pharmacy Administration/CPMM) – Studies in Pharmaceutical Public Policy (Merck & Co., Inc.), \$20,000 – 1/20/00-12/31/00.
6. Dr. Rita Moraes (P.I. – NCNPR/RIPS) – Development of Podophyllum Peltatum as an Alternative Crop for Small Farmers (USDA), \$140,000 – 9/15/99-9/14/02.
7. Dr. Dale G. Nagle (P.I. – Pharmacognosy) – Isolation and Identification of Immunostimulatory Compounds from Marine Algae (American Association of Colleges of Pharmacy New Investigators Program), \$9,450 – 12/01/99-11/30/00.
8. Dr. Kenneth B. Roberts (P.I. – School of Pharmacy) and Dr. Charles D. Hufford (Co-P.I. – School of Pharmacy) – Extramural Research Facilities Construction – Renovation of Faser Hall (NIH – NCRR), \$1,000,000 – 9/30/99-9/29/02.

9. Dr. Phillip David Rogers, (P.I. – Clinical Pharmacy Practice) and Dr. John D. Cleary (Co-P.I. – Clinical Pharmacy Practice) – *In Vivo* Gene Expression in Human Monocytes Involved in Toxicity and Activity of Antifungal Agents (Society of Infectious Diseases Pharmacists), \$11,649 – 10/1/99-9/30/00.
10. Dr. Daniel Schlenk (P.I. – Pharmacology) – Mechanism of Salinity-Induced Toxicity of Aldicarb in Euryhaline Fish (Amendment No. 3) (U.S. Environmental Protection Agency), \$70,921, 3/1/00-2/28/01.
11. Dr. Marc Slattery (P.I. – Pharmacognosy) - Unrestricted Contract for Marine Samples (Merck & Company, Inc.), \$9,240.
12. Dr. Mickey C. Smith (P.I. – Pharmacy Administration/Center for Pharmaceutical Marketing and Management) and Dr. Eugene M. Kolassa (Pharmacy Administration/CPMM) – Studies in Pharmaceutical Policy (Glaxo-Wellcome), \$45,000 – 1/15/00-12/31/01.
13. Dr. John S. Williamson (P.I. – Medicinal Chemistry) – Synthetic Models for Elucidating Paclitaxel Binding (National Cancer Institute), \$72,500, 7/1/99-6/30/02.

The following **PUBLICATIONS** have appeared:

1. M. Ganzera and I.A. Khan – “Analytical Techniques for the Determination of Lactones in *Piper methysticum* Forst.”, *Chromatographia*, **50**, pp. 649-653, 1999.
2. X.-C. Li, H.N. ElSohly, A.C. Nimrod and A.M. Clark – “Antifungal Activity of (-)-Epigallocatechin Gallate from *Coccoloba dugandiana*”, *Planta Med.*, **65**, p. 780, 1999.
3. S.A. Ross and M.A. ElSohly – “CBN and ⁹-THC concentration ratio as an indicator of the age of stored marijuana samples” – Offprint from *Bulletin on Narcotics*, **XLIX** and **L**, pp. 139-147, 1997/1998.
4. E.M. Kolassa - “The cost of research – Generic drug firms get a free ride”, *The Washington Times*, p. A17, December 6, 1999.
5. B.R. Griffin, K.B. Davis and D. Schlenk - “Effect of Simulated Copper Sulfate Therapy on Stress Indicators in Channel Catfish”, *Journal of Aquatic Animal Health*, **11**, pp. 231-236, 1999.
6. H.N. ElSohly, A. Joshi, X.-C. Li and S.A. Ross – “Flavonoids from *Maclura tinctoria*”, *Phytochemistry*, **52**, pp. 141-145, 1999.
7. E.A. Abourashed, F.S. ElFeraly, I.A. Khan and C.D. Hufford – “2-Hydroxy-5-(ethanolamino)-3-(10'-Z-pentadecenyl)-1,4-benzoquinone, New Microbial Phase II Metabolite of Maesanin”, *Chem. Pharm. Bull.*, **48**, pp. 45-47, 2000.
8. I.O. Donkor and A.M. Clark – “*In vitro* antimicrobial activity of aromatic diamidines and diimidazolines related to pentamidine”, *Eur. J. Med. Chem.*, **34**, pp. 639-643, 1999.
9. K.Y. Orabi, A.M. Galal, A.-R.S. Ibrahim, F.S. ElFeraly, S.I. Khalifa and H.N. ElSohly – “Microbial metabolism of artemisitene”, *Phytochemistry*, **51**, pp. 257-261, 1999.
10. X.-C. Li, H.N. ElSohly, C.D. Hufford and A.M. Clark – “NMR assignments of ellagic acid derivatives”, *Magnetic Resonance in Chemistry*, **37**, pp. 856-859, 1999.
11. H.N. ElSohly, S. Danner, X.-C. Li, A.C. Nimrod and A.M. Clark – “New Antimycobacterial Saponin from *Colubrina retusa*”, *Journal of Natural Products*, **62**, pp. 1341-1342, 1999.
12. W.M. Davis, I.W. Waters and M.C. Vinson – “New Drug Approvals of 1999 – Part 1”, *Drug Topics*, pp. 82-100, Feb. 7, 2000.
13. R.J.J. Nel, M. Mthembu, J. Coetzee, H. van Rensburg, E. Malan and D. Ferreira - “The novel flavan-3-ol, (2R, 3S)-guibourtinidol and its diastereomers”, *Phytochemistry*, **52**, pp. 1153-1158, 1999.
14. M.B. Rohwer, P.S. van Heerden, E.V. Brandt, B.C.B. Bezuidenhout and D. Ferreira – “Oligomeric isoflavonoids. Part 4. Synthesis of the daljanelin class of isoflavonoid-neoflavonoid dimers”, *J. Chem. Soc., Perkin Trans.*, **1**, pp. 3367-3374, 1999.

15. D.G. Nagle and V.J. Paul – “Production of Secondary Metabolites by Filamentous Tropical Marine Cyanobacteria: Ecological Functions of the Compounds”, *J. Phycol.*, **35**, pp. 1412-1421, 1999.
16. S.M. Allen and W.M. Davis – “Relationship of dopamine to serotonin in the neonatal 6-OHDA rat model of Lesch-Nyhan syndrome”, *Behavioural Pharmacology*, **10**, pp. 467-474, 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

- Alicia Bouldin, Mike Fortenberry, Noel Wilkin
- N. P. Dhammika Nanayakkara and Kevin Schrader
- Isamu Katsuyama, David Stewart, and Jordan Zjawiony

PATENT APPLICATIONS PENDING APPROVAL

- Mark T. Hamann, Khalid ElSayed, D. Charles Dunbar, James M. O’Neal
- Mitchell A. Avery et. al.
- Mitchell A. Avery
- David S. Pasco et. al.
- David S. Pasco
- John K. Buolamwini et. al.
- Mahmoud A. ElSohly, Dr. Samir A. Ross
- N. P. Dhammika Nanayakkara et. al.
- Franck E. Dayan, Dr. Camilo Canel, Rita M. Moraes, Charles Burandt
- Jordan K. Zjawiony, Alice M. Clark, Charles D. Hufford, Khaled Orabi et. al.

RECENT PATENTS GRANTED:

“*Method of Preparing Delta-9-Tetrahydrocannabinol Esters*”

Mahmoud A. ElSohly, Samir Ross, et. al.

US Patent 6,008,383 Issued: December 28, 1999.

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

- Dr. Walt Chambliss was selected as a member of the Advisory Board for the Southern Regional Poison Control Center in Memphis. The Center serves Tennessee, North Mississippi and Eastern Arkansas.
- Dr. Walt Chambliss served on the U.S. Steering Committee for the recently published 3rd Edition of The Handbook of Pharmaceutical Excipients, published by APhA.
- Three Pharmacognosy colleagues will be presenting results of their research during the 219th National American Chemical Society Meeting in San Francisco during March, 2000. Mr. John Bowling will have an oral presentation in the Agrochemical Division; Mr. Jeremy Stewart will present a poster in the Medicinal

Chemistry Division; and Dr. Isamu Katsuyama will present a poster in the Organic Chemistry Division. The subjects of these presentations are related to both marine and terrestrial natural products chemistry. Mr. Bowling and Mr. Stewart were awarded travel grants from ACS.

- Dr. Dennis Frate has been appointed by Dr. Gloria Kellum to serve on the University Employee Fitness and Wellness Working Group. Dr. Frate will be representing Pharmacy. The purpose of the group is to coordinate existing activities and develop new programs on campus geared toward employee fitness.
- Dr. Dennis Frate will return to the Delta during the summer to continue his work to help residents avoid exposure to farm chemicals. Dr. Frate has received a grant of up to \$17,000 to take another group of volunteers to the Delta to survey residents concerning pesticide exposure and educate them about avoiding the chemicals. A health manual has been published with the results from surveys conducted by Dr. Frate and his group in 1998. The Center for Field Research has approved the project for Earthwatch support. They recruit Earthwatch volunteers who will pay for the privilege to work with Dr. Frate to collect field data and to learn about his research interests first hand and why it matters in a global context.
- Dr. Dennis Frate and Dr. Mick Kolassa have been selected as co-editors for The Journal of Pharmacoepidemiology.

Please continue to send me important research and graduate information so that I might share it with your faculty colleagues. Thank you.

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