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8-30-2000

## Research News: 2000, no. 3

University of Mississippi. School of Pharmacy

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# *The University of Mississippi*

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## *Interoffice Memorandum*

### **SCHOOL OF PHARMACY OFFICE OF THE DEAN**

**University, MS 38677**

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**TO: All School of Pharmacy Personnel**

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

**DATE: August 30, 2000**

**SUBJECT: Research News (#3)**

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

1. Dr. Mitchell Avery (P.I. – Medicinal Chemistry) – Development of Novel Antifungal Anti-PC Natural Products (Year 2) (NIH/National Institute of Allergy and Infectious Diseases), \$279,225.
2. Dr. Alice Clark (P.I. – RIPS/NCNPR) – New Drugs for Opportunistic Infectious Diseases (Year 11) (National Institute of Health/National Institute of Allergy and Infectious Diseases), \$216,000.
3. Dr. Mark Hamann (P.I. – Pharmacognosy) – The Isolation and Structural Characterization of Natural Product Research Chemicals (Sequoia Sciences), \$54,450 – 8/1/99-7/31/00.
4. Dr. Mick Kolassa (P.I. – Pharmacy Administration) – Development of Training Materials and Methods in Pharmaceutical Pricing (SmithKline Beecham), \$5,000 – 4/1/00-5/31/00.
5. Dr. Bruce Parks (P.I. – Clinical Pharmacy Practice) – Pregabalin BID Study (Protocols 1008-034/035) (Supplemental Funding) (Parke-Davis), \$2,200.
6. Dr. David Rogers (P.I. – Clinical Pharmacy Practice) – Azole Antifungal Resistance in *Histoplasma Capsulatum* (American College of Clinical Pharmacy), \$10,000 – 7/00-6/01.
7. Dr. David Rogers (P.I. – Clinical Pharmacy Practice) – Molecular Mechanisms of Azole Antifungal Resistance (Ortho Biotech), \$3,000 – 7/00-6/01.
8. Dr. Marc Slattery (P.I. – Pharmacognosy) and Dr. David Pasco (Co-P.I. – RIPS/NCNPR) - Marine Compounds as p-53 Independent Inducers of Apoptosis (Elsa U. Pardee Foundation), \$29,124 – 3/00-2/01.
9. Dr. John Williamson (P.I. – Medicinal Chemistry) – Support of Biomedical Research Internship Program (Schering-Plough Healthcare Pharmaceuticals), \$8,612 – 1/00-12/00.
10. Dr. Jordan Zjawiony (Co-P.I. – Pharmacognosy), Dr. Mark Hamann (Co-P.I. – Pharmacognosy) and Dr. Marc Slattery (Co-P.I. – Pharmacognosy) – Semisynthetic and Microbial Transformations of

Marine Natural Products for Technological Development in Human Health and Agriculture (Mississippi-Alabama Sea Grant Consortium), \$111,169 (year 3 of grant) – 2/1/00-1/31/01.

11. Dr. Jordan Zjawiony (Co-P.I. – Pharmacognosy) and Dr. Raouf Kilada (Co-P.I. – Suez Canal University) – Development of New Pharmaceuticals from the Red Sea Soft Coral *Sarcophyton Glaucum* (U.S. - Egypt Joint Science and Technology Board), \$24,290 (Zjawiony) and \$25,570 (Kilada).

The following **PUBLICATIONS** have appeared:

1. N.E. Wilkin, editor – Handbook for Pharmacy Educators – Contemporary Teaching Principles and Strategies, Pharmaceutical Products Press, 2000.
2. J.P. Bentley, M.C. Smith, B.F. Banahan, D.A. Frate and B.R. Parks – “Barriers to the Assessment of Health-Related Quality of Life in Community Pharmacies: A Segmentation Analysis”, *Journal of Research in Pharmaceutical Economics*, **10**, pp. 29-50, 2000.
3. K.Y. Orabi, L.A. Walker, A.M. Clark and C.D. Hufford – “Characterization of the Major Metabolite of Sampangine in Rats”, *J. Nat. Prod.*, **63**, pp. 685-687, 2000.
4. H.N. ElSohly, E.M. Croom, W.J. Kopycki, A.S. Joshi, R.M. Moraes and J.D. McChesney – “The Effect of Plant Age on Taxane Content of Cultivated *Taxus*”, *Journal of Herbs, Spices & Medicinal Plants*, **7**, pp. 33-42, 2000.
5. E. Bedir, N. Pugh, I. Calis, D.S. Pasco and I.A. Khan – “Immunostimulatory Effects of Cycloartane-Type Triterpene Glycosides from *Astragalus* Species”, *Biol. Pharm. Bull.*, **23**, pp. 834-837, 2000.
6. D.A. Frate, D.S. Kountz, R.A. Levy, T.L. Strickland and R.A. Williams – “Intelligent prescribing in diverse populations”, *Patient Care*, pp. 135-149, 2000.
7. E. Bedir, I. Calis and I.A. Khan – “Macrophyllosaponin E: A Novel Compound from the Roots of *Astragalus oleifolius*” *Chem. Pharm. Bull.*, **48**, pp. 1081-1083, 2000.
8. E.M. Croom – “Medicinal Plants of the Southeastern United States”, *SIDA, Bot. Misc.*, **18**, pp. 29-33, 2000.
9. W.M. Davis – “Multiple sclerosis – Continuing mysteries and current management”, *Drug Topics*, pp. 93-102, 2000.
10. E.M. Kolassa – “The Marketing Edge - War Games, Football Games, and Other Dysfunctional Market Metaphors”, *Product Management Today*, pp. 21-22, 2000.
11. C.D. Hufford – Book Review – Natural Products from Plants by P.B. Kaufman, L.J. Cseke, S. Warber, J.A. Duke and H.L. Brielmann, *J. Nat. Prod.*, **63**, p. 736, 2000.
12. D.E. Wedge and D.G. Nagle – “A New 2D-TLC Bioautography Method for the Discovery of Novel Antifungal Agents to Control Plant Pathogens” *J. Nat. Prod.*, **63**, pp. 1050-1054, 2000.
13. K. ElSayed, M.S. Al-Said, F.S. El-Feraly and S.A. Ross – “New Quinoline Alkaloids from *Ruta chalepensis*” *J. Nat. Prod.*, **63**, pp. 995-997, 2000.

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 Schrader
- Isamu Katsuyama, David Stewart, and Jordan Zjawiony

PATENT APPLICATIONS PENDING APPROVAL

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

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

- Mr. Tyler Hodges (Graduate Student, Pharmacognosy) was awarded an American Society of Pharmacognosy Undergraduate Research Grant in the amount of \$2,500 to pursue his studies on “Discovery of New Angiogenesis Inhibitors to Treat Cancer.” Dr. Dale Nagle serves as Mr. Hodges’ Advisor.
- Mr. Nirmal Pugh (Graduate Student, Pharmacognosy) was selected to receive an ASP Student Research Award for an all expenses paid attendance at the 41<sup>st</sup> Annual Meeting of the American Society of Pharmacognosy in Seattle, Washington during July, plus a \$500 cash award. The awards were contingent upon Mr. Pugh making a formal presentation of his research at the meeting. The title of Mr. Pugh’s research paper presentation was “Characterization of a Novel Polysaccharide (NP18298) from *Aloe Vera* with Potent Immunostimulatory Activity”. Mr. Pugh was also selected to receive the Kilmer Award, presented jointly by ASP and the American Pharmaceutical Association.
- Ms. Jeanne Kuhajek and Ms. Melany Puglisi (Graduate Students, Pharmacognosy) were selected to receive ASP Student Travel Grants for \$600 each to enable them to attend the 41<sup>st</sup> Annual Meeting of the American Society of Pharmacognosy in Seattle, Washington during July. Ms. Kuhajek presented two papers (posters): “Ecological Patterns Influence the Antifungal Activity of Root Extracts from Rocky Mountain Wetland Plants” and “A Rapid Microbioassay for Discovery of Novel Anti-*Phytophthora* Agents”. Ms. Puglisi’s presentation (oral) was titled “A Case for Marine Chemical Ecology as a Tool for Drug Discovery”.
- Dr. Dan Schlenk was named School of Pharmacy Faculty Researcher of the Year for 1999-2000.

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