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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 30, 2000

SUBJECT: Research News (#3)

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 41st 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 41st 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