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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: June 27, 2002

SUBJECT: Research News (#2)

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

1. **Dr. Bonnie Avery** (P.I. – Pharmaceuticals) – Assaying of Injectable Drugs (Delta Pharma Inc.), \$2,500 – June-August, 2002.
2. **Dr. Nikolaus Fischer** (P.I. – Pharmacognosy) – Ethnobotanical Based Anti-RSV Therapeutics (NIH-SBIR/Zymetx, Inc.), \$200,000 – May 2002-April 2003.
3. **Dr. Deborah Gochfeld** (P.I. – RIPS/NCNPR) – Antimicrobial Activity of Scleractinian Corals (University of Mississippi Faculty Small Grants), \$3,000, 2002.
4. **Dr. Mark Hamann** (P.I. – Pharmacognosy) – Unrestricted Research on Marine Natural Products (Sequoia Sciences), \$600 – December 2001.
5. **Dr. Mark Hamann** (P.I. – Pharmacognosy) – Anti-AIDS Agents from Marine Organisms (National Institute of Allergy and Infectious Diseases), \$322,875 – June 2002-May 2003.
6. **Dr. Christopher McCurdy** (P.I. – Medicinal Chemistry) – Design and Synthesis of ORL-1 Receptor Ligands (University of Mississippi Faculty Small Grants), \$5,000, 2002.
7. **Dr. David Pasco** (P.I. – RIPS/NCNPR), **Dr. Ikhlas Khan** (Co-P.I. – RIPS/NCNPR) and **Dr. Rita Moraes** (Co-P.I. – RIPS/NCNPR) – New Immuno-Active Principles for Optimizing *Echinacea* (National Center for Complementary and Alternative Medicine), \$358,750 – July 2002-May 2003.
8. **Dr. Michael Repka** (P.I. – Pharmaceuticals) – Trans-Nail Patch Matrix System for Delivery of Antifungal Medicaments (University of Mississippi Faculty Small Grants), \$5,000, 2002.
9. **Dr. Larry Walker** (P.I. – RIPS/NCNPR) – Development of Natural Products from Plants and Microbes for Replacement of Synthetic Pesticides (USDA), \$2,068,283 – October 2001-September 2002.

The following **PUBLICATIONS** have appeared:

1. S.Y. Ablordeppey, P. Fan, S. Li, **A.M. Clark** and **C.D. Hufford** – “Substituted Indoloquinolines as New Antifungal Agents”, *Bioorganic & Medicinal Chemistry*, **10**, pp. 1337-1346, 2002.
2. E.S. Al-Sheddi, J.S. Mossa, **I. Muhammad**, E.A. El-Kashoury and F.S. El-Feraly – “Sesquiterpenes from *Tarchonanthus Camphoratus*: An Alternative Natural Source of Parthenolide and of Feverfew (*Tanacetum Parthenium*)”, *Saudi Pharmaceutical Journal*, **10**, pp. 30-35, 2002.
3. H. Assefa, A. Nimrod, **L.A. Walker** and **R.D. Sindelar** – “Enantioselective Synthesis and Complement Inhibitory Assay of A/B-Ring Partial Analogues of Oleanolic Acid”, *Bioorganic & Medicinal Chemistry Letters*, **11**, pp. 1619-1623, 2001.
4. L. Bennie, J. Coetzee, E. Malan and **D. Ferreira** – “(4,6)-Coupled Proteracacinidins and Promelacacinidins from *Acacia galpinii* and *Acacia caffra*”, *Phytochemistry*, **60**, pp. 521-532, 2002.
5. **J.P. Bentley** – “Pharmaceutical Marketing’s Contributions to Quality of Life”, *Journal of Pharmaceutical Marketing & Management*, **14**, pp. 109-127, 2002.
6. S.T. Boyd and **D.S. King** – “Angiotensin II Inhibition: Expanding the Roles of ACE Inhibitors and ARBs”, *Drug Topics*, pp. 57-66, June 3, 2002.
7. S.T. Boyd and **D.S. King** – “Strategies for Motivating Patients in Disease State Management”, *Drug Topics*, pp. 49-58, June 4, 2001.
8. S.L. Broom, K.J. Sufka, **M.A. ElSohly** and **S.A. Ross** – “Analgesic and Reinforcing Properties of ⁹-THC-Hemisuccinate in Adjuvant-Arthritic Rats” – published simultaneously in: (1) *Journal of Cannabis Therapeutics*, **1**, pp. 171-182, 2001; and (2) *Cannabis Therapeutics in HIV/AIDS*, pp. 171-182, 2001.
9. **W.M. Davis** and **M.C. Vinson** – “New Drug Approvals of 2001 – Part 1”, *Drug Topics*, pp. 42-54, February 4, 2002.
10. **W.M. Davis** and **M.C. Vinson** – “New Drug Approvals of 2001 – Part 2”, *Drug Topics*, pp. 61-74, February 18, 2002.
11. **W.M. Davis** – “Phototoxicity: Environmental Hazard and Therapeutic Tool”, *Drug Topics*, pp. 41-50, July 16, 2001.
12. R.A. Dixon and **D. Ferreira** – “Molecules of Interest – Genistein”, *Phytochemistry*, **60**, pp. 205-211, 2002.
13. K.A. El Sayed, **M.T. Hamann**, N.E. Hashish, T. Shier, and M. Kelly – “Antimalarial, Antiviral and Antitoxoplasmosis Norsesterterpene Peroxide Acids from a Red Sea Sponge *Diacarnus erythraeanus*”, *Journal of Natural Products*, **64**, pp. 522-524, 2001.
14. K.A. El Sayed, M. Kelly, U.A.K. Kara, K.K.H. Ang and **M.T. Hamann** – “New Manzamine Alkaloids with Potent Activity Against Infectious Disease”, *Journal of the American Chemical Society*, **123**, pp. 1804-1808, 2001.
15. A.M. Galal, **S.A. Ross**, **M.A. ElSohly**, **H.N. ElSohly**, F.S. El-Feraly, M.S. Ahmed and A.T. McPhail – “Deoxyartemisinin Derivatives from Photooxygenation of Anhydrodeoxydihydroartemisinin and Their Cytotoxic Evaluation”, *Journal of Natural Products*, **65**, pp. 184-188, 2002.
16. **D.J. Gochfeld** and **M.T. Hamann** – “The Isolation and Biological Evaluation of Filiformin, Plakortide F and Plakortone G from the Caribbean Sponge *Plakortis* sp.”, *The Journal of Natural Products*, **64**, pp. 1477-1479, 2001.
17. **T.K. Harrell**, K.W. Kelley and **D.S. King** – “Counseling Patients and Families about Head Lice”, *Drug Topics*, pp. 35-44, August 20, 2001.

18. **T.K. Harrell**, N.N. Horton, **D.S. King**, M.R. Wofford, A.K. Low and S.L. Noble – “Assessment of the Awareness of Obesity and Blood Pressure as Cardiovascular Risk Factors in a Historically African-American University” – (1) *Pharmacotherapy*, **21**, p. 1262, 2001 & (2) *Obesity Research*, **9**, p. 163S, 2001.
19. **S. Hogan** – “Understanding Anticancer Drug Combinations”, *Hospital Pharmacist Report*, pp. 32-40, December 2001.
20. **J.F. Hu**, **J.A. Schetz**, M. Kelly, J.N. Peng, K.H. Ang, H. Flotow, C.Y. Leong, S.B. Ng, A.D. Buss, S.P. Wilkins and **M.T. Hamann** – “New Antiinfective and Human 5-HT₂ Receptor Binding Natural and Semisynthetic Compounds from the Jamaican Sponge *Smenospongia aurea*”, *Journal of Natural Products*, **65**, pp. 476-480, 2002.
21. **J.F. Hu**, M. Kelly, H.F. Gao and **M.T. Hamann** – “Plakortides I-L, Four New Cyclic Peroxides from an Undescribed Jamaican Sponge *Plakortis* sp. (Homosclerophorida, Plakinidae)”, *Tetrahedron*, **57**, pp. 9379-9383, 2001
22. **J.F. Hu.**, Y. Lu, B. Zhao, X.Z. Feng and **M.T. Hamann** – “New Eudesmenoic Acid Methyl Ester from *Artemisia selengensis*”, *Spectroscopy Letters*, **34**, pp. 75-81, 2001.
23. **M.S. Jaradat**, B. Wongsud, S. Phornchirasilp, S.M. Rangwala, G. Shams, M. Sutton, K.J. Romstedt, D.J. Noonan, and **D.R. Feller** – “Activation of Peroxisome Proliferator-Activated Receptor Isoforms and Inhibition of Prostaglandin H₂ Synthases by Ibuprofen, Naproxen and Indomethacin”, *Biochem. Pharmacol.*, **62**, pp. 1587-1595, 2001.
24. K.W. Kelley, **D.S. King**, M.R. Wofford, S.B. Wyatt and D.W. Jones – “The Use of Ambulatory Blood Pressure Monitoring to Influence Drug Regimens in a Hypertension Specialty Clinic”, *Pharmacotherapy*, **21**, p. 1261-1262, 2001.
25. **S.I. Khan**, A.C. Nimrod, M. Mehrpooya, J.L. Nitiss, **L.A. Walker** and **A.M. Clark** – “Antifungal Activity of Eupolauridine and Its Action on DNA Topoisomerases”, *Antimicrobial Agents and Chemotherapy*, **46**, pp. 1785-1792, 2002.
26. **D.S. King** and S.E. Harpe – “An Update on the Management of Chronic Heart Failure”, *Hospital Pharmacists Report*, pp. 31-38, 2001.
27. **D.S. King** and M.R. Wofford – “New Treatment Guidelines, Challenges and Opportunities for Pharmacist Management of Hyperlipidemia”, *Drug Topics*, pp. 1-16 supp., 2002.
28. **R.M. Moraes**, **Ebru Bedir**, H. Barrett, **C. Burandt**, C. Canel and **I.A. Khan** – “Evaluation of *Podophyllum peltatum* Accessions for Podophyllotoxin Production”, *Planta Medica*, **68**, pp. 341-344, 2002.
29. T.P. Perry, A. Dickerson, A.A. Khan, R.K. Kondru, D.N. Beratan, P. Wipf, M. Kelly and **M.T. Hamann** – “New Peroxylactones from a Jamaican Sponge *Plakinastrella onkodes*, with Inhibitory Activity Against the AIDS Opportunistic Parasitic Infection *Toxoplasma gondii*”, *Tetrahedron*, **57**, pp. 1483-1487, 2001.
30. **J.R. Pittman** – “Analgesia in the Elderly”, *Drug Topics*, pp. 43-51, January 7, 2002.
31. **L.A. Ramsey** and B.S. Ross – “Innovation in Pharmacy Practice: Disease Management”, *Drug Topics*, pp. 81-90, May 20, 2002.
32. B.S. Ross, **L.A. Ramsey** and **W.R. Brittsen** – “Focus on Statin Therapy”, *Drug Topics*, pp. 77-86, April 15, 2002.
33. **W. Schuhly**, **I.A. Khan** and **N.H. Fischer** – “The Ethnomedicinal Uses of Magnoliaceae from the Southeastern United States as Leads in Drug Discovery”, *Pharmaceutical Biology*, **39**, pp. 63-69, 2001.

34. K.K. Smith, **H.R.W. Dharmaratne**, M.W. Feltenstein, S.L. Broom, J.T. Roach, **N.P.D. Nanayakkara**, **I.A. Khan** and K.J. Sufka – “Anxiolytic Effects of Kava Extract and Kavalactones in the Chick Social Separation-Stress Paradigm”, *Psychopharmacology*, **155**, pp. 86-90, 2001.
35. **A.R. Spies** – “Patient Counseling: Legal Considerations”, *Drug Topics*, pp.49-58, December 10, 2001.
36. **A.R. Spies** – “Recent Legal Cases of 2001: A Heads-up for Pharmacists”, *Drug Topics*, pp. 52-61, March 18, 2002.
37. B.J. Sucher, **D.S. King** and M.R. Wofford – “Practical Management of Obesity”, *Drug Topics*, pp. 82-91, May 6, 2002.
38. D. Vargas, **N.H. Fischer** and E.S. Younathan – “Inhibition of Phosphofructokinase by Molluscicidal Sesquiterpene Lactones” *Revista de la Sociedad Quimica de Mexico*, **45**, pp. 159-162, 2001.
39. **J.S. Williamson** and **C.M. Wyandt** – “What Pharmacists Need to Know About Breast Cancer”, *Drug Topics*, pp. 84-93, March 4, 2002.

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 2002: 3

U.S. Patent Applications Pending: 10

Recent Patents Granted: Patent #: 6,365,416

“Method of Preparing Delta-9-Tetrahydrocannabinol”

Dr. Mahmoud ElSohly and Dr. Samir Ross

Issued: April 2, 2002

Patent #: 6,376,511

“8-Aminoquinolines”

Dr. Dhammika Nanayakkara

Issued: April 23, 2002

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

- **Dr. Mary Haasch** served as a member of NIH/NIEHS NCRR Comparative Medicine Review Committee, February 7-8, 2002 in Bethesda, Maryland.
- **Dr. Mary Haasch** also served on the Editorial Board of a new international on-line journal, *Comparative Hepatology*, 2002.
- **Ms. Nan Johnson** (NCNPR/Medicinal Plant Garden) received the 2002 Sustainable Agriculture Award from the Mississippi 2020 Network, an organization that promotes economic and environmental sustainability in the state. The award is in recognition of her long-standing efforts in the promotion of organic agriculture.

- \$2,500 has been funded to **Dr. John Williamson** and **Ms. Jennifer Elzy** by the American Society of Pharmacognosy for a research proposal, “Optimization of the Bioconversion of 10-Deoxyrtemisinin by *Mucor ramannianus* Using Fractional Factorial Methods: Illustration of How Whole-Cell Microbial Transformations Can be Integrated into Organic Synthesis as Useful Reagents”. Ms. Elzy is an undergraduate Biochemistry major working with Dr. Williamson.
- **Mr. Vernon Rayford** (P-4 Student) and **Dr. Jordan Zjawiony** were awarded a 2002 American Foundation for Pharmaceutical Education Gateway Research Scholarship in the amount of \$5,000. At the conclusion of Vernon’s research project in June 2003, he is required to submit a final report, which will be included in the annual publication “2002-2003 AFPE Scholars, Fellows and Pharmacy Faculty New Investigators”.
- The following awards have been presented: (a) **Mr. Srinivas Annavarapu** (Pharmacology Graduate Student) received the Teaching Assistant Award from the third year Pharmacy class during School of Pharmacy Honors Day, April 4, 2002; (b) **Dr. John Rimoldi** received the P-3 Faculty Teacher of the Year Award during Honors Day; (c) **Dr. Tomoko Mineno** (Medicinal Chemistry) and **Dr. Saurabh Sewak** (Pharmacy Administration) received the Graduate Student Achievement Awards during Honors Day; (d) **Ms. Supriya Bavadekar** (Pharmacology Graduate Student) received the Best Poster Award in the Health Research Area at the Sigma Xi Poster Competition in April.
- The following Poster Presentations were made during the Society of Toxicology Annual Meeting in Nashville, Tennessee, March 17-21, 2002: (a) **Ms. Rooha Contractor, Dr. Kristie Willett, S. Li, T. Chiang and C. Foran** – “Differences in Methylation Patterns of the Estrogen Receptor and Aromatase Genes in *Japanese Medaka*”; (b) **Mr. James Weston, D. Huggett, C. Foran and Dr. Marc Slattery** – “Effects of the Selective Serotonin Reuptake Inhibitor, Prozac, on the Reproduction of *Japanese Medaka*”; (c) **Dr. Mary Haasch, M. Johnston and S. Codi** – “Environmental Induction of CYP1A- and CYP2K1-Like Proteins in Two Tropical Fish Species by Produced Formation Water on the Northwest Shelf of Australia”; (d) **Ms. Christine Metzger, R. Di Giulio and Dr. Kristine Willett** – “CYP1B mRNA Expression in Two Related Catfish Species”; (e) L. Zhang, **Dr. Ikhlas Khan** and C. Foran – “Estrogenic Responses to Genistein in *Japanese Medaka (oryzias latipes)*”.
- **Dr. Kristie Willett** presented a poster, “Environmental Contaminants that Affect CYP1B Gene Expression in Channel Catfish (*Ictalurus punctatus*)” during the Annual Mississippi Water Resources Conference, April 23-24, 2002.

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. Dabney Weems