



The University of Mississippi

Interoffice Memorandum

SCHOOL OF PHARMACY OFFICE OF THE DEAN

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TO: All School of Pharmacy Personnel

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

DATE: May 8, 2000

SUBJECT: Research News (#2)

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

1. Dr. John K. Buolamwini (P.I. – Medicinal Chemistry) – Short-Term Training for Minority Students (NIH Training Grant), \$45,058 – 1/1/99-12/30/01.
2. Dr. H. Joseph Byrd (P.I. – Clinical Pharmacy Practice) – Mississippi HIV Rural Area Network Project (NIH/UMMC), \$20,625.
3. Dr. H. Joseph Byrd (P.I. – Clinical Pharmacy Practice) – ASHP Midyear Meeting (Smith Kline Beecham), \$4,000.
4. Dr. Alice M. Clark (P.I. – NCNPR/RIPS) and Dr. David S. Pasco (Co-P.I. – NCNPR/RIPS) – Candida Secreted Aspartic Proteases as Drug Targets (NIH/NIAID), \$156,572 – 3/1/00-2/28/01.
5. Dr. Alice M. Clark (P.I. – NCNPR/RIPS) and Dr. Larry A. Walker (Co-P.I. – NCNPR/RIPS) – Development of Natural Products from Plants and Microbes for Replacement of Synthetic Pesticides (USDA), \$1,185,304 – 2000-2001.
6. Dr. Christy M. Foran (P.I. – ECHR/RIPS) – Use of a Transgenerational Model to Evaluate Threshold Effects of Endocrine Disrupting Chemicals in Fish (Year 2) (U.S. Environmental Protection Agency), \$149,457.
7. Dr. Mark T. Hamann (P.I. – Pharmacognosy) – The Isolation and Characterization of Marine Natural Products at Treatments for Cardiovascular, Metabolic Diseases and Neurological Disorders (Chiron Corp.), \$14,771 – 5/1/98-5/31/99.
8. Dr. Dale Nagle (P.I. – Pharmacognosy) – Validation of New Assay Methods That Can Be Used to Discover Novel Antiangiogenic Drugs to Treat Cancer (University of Mississippi), \$2,500 – 6/1/00-5/31/01.
9. Dr. John Rimoldi (P.I. – Medicinal Chemistry) – Parallel Synthesis and Biological Evaluation of Azetidines as Protein Kinase C Inhibitors (University of Mississippi), \$3,500 – 6/1/00-5/31/01.

10. Dr. John Schetz (P.I. – Pharmacology) – Molecular Basis of Dyselective Pharmacology (University of Mississippi), \$3,500 – 6/1/00-5/31/01.
11. Dr. Daniel K. Schlenk (P.I. – ECHR/RIPS) – Fipronil Toxicity Testing in the Crawfish (*Procambarus clarki*) (Lundy-Davis L.L.P.), \$46,922 – 2/00-6/01.
12. Dr. Daniel K. Schlenk (P.I. – ECHR/RIPS) – Approval of Drugs for Public Fish Production (Amendment No. 3) (USDA), \$3,000.
13. Dr. Marc H. Slattery (P.I. – Pharmacognosy) – Unrestricted Contract for Marine Samples (Merck Co.), \$9,460 – 6/1/98-5/31/99.
14. Dr. John S. Williamson (P.I. – Medicinal Chemistry) – Biomedical Research Internship Program (NIH), \$163,065 – 2/1/00-1/31/01.
15. Dr. John S. Williamson (P.I. - Medicinal Chemistry) - Biomedical Research Internship Program (NIH) - \$51,030 - 4/1/99-3/31/01.
16. Dr. Jordan K. Zjawiony (P.I. – Pharmacognosy) and Dr. Kazimierz Glowinski (Poland – Co-P.I.) – Isolation, Structure Elucidation and Biological Evaluation of Natural Products from *Chrysanthemum segetum* and *Peucedanum verticillare* (Short-Term Project Development Grant, Collaboration in Basic Science and Engineering Program, National Science Foundation), \$2,500 – 6/10/00-6/24/00.

The following **PUBLICATIONS** have appeared:

1. J.K. Buolamwini - “Cell Cycle Molecular Targets in Novel Anticancer Drug Discovery”, *Current Pharmaceutical Design*, **6**, pp. 379-392, 2000.
2. E. Bedir and I.A. Khan – “Cimiracemoside A: A New Cyclolanostanol Xyloside from the Rhizome of *Cimicifuga racemosa*”, *Chem. Pharm. Bull.*, **48**, pp. 425-427, 2000.
3. D. Schlenk, W.C. Colley, A. El-Alfy, R. Kirby and B.R. Griffin - “Effects of the Oxidant Potassium Permanganate on the Expression of Gill Metallothionein mRNA and Its Relationship to Sublethal Whole Animal Endpoints in Channel Catfish”, *Toxicological Sciences*, **54**, pp. 177-182, 2000.
4. E.J. Perkins, Jr. and D. Schlenk – “*In Vivo* Acetylcholinesterase Inhibition, Metabolism and Toxicokinetics of Aldicarb in Channel Catfish: Role of Biotransformation in Acute Toxicity”, *Toxicological Sciences*, **53**, pp. 308-315, 2000.
5. K.Y. Orabi, A.M. Clark and C.D. Hufford – “Microbial Transformation of Benzosampangine”, *J. Nat. Prod.*, pp. 396-398, 2000.
6. J.N. Weinstein and J.K. Buolamwini – “Molecular Targets in Cancer Drug Discovery: Cell-Based Profiling”, *Current Pharmaceutical Design*, **6**, pp. 473-483, 2000.
7. D. Ferreira and X.C. Li – “Oligomeric Proanthocyanidins: Naturally Occurring O-heterocycles”, *Nat. Prod. Rep.*, **17**, pp. 193-212, 2000.
8. M.A. ElSohly, S.A. Ross, Z. Mehmedic, R. Arafat, B. Yi and B.F. Banahan – “Potency Trends of ⁹-THC and Other Cannabinoids in Confiscated Marijuana from 1980-1997”, *Journal of Forensic Sciences*, pp. 24-30, 2000.
9. N. Puri, A.B. Jones, J.H. Kou and C.M. Wyandt – “Release of Bovine Serum Albumin from Preformed Porous Microspheres of poly(L-lactic acid)”, *J. Microencapsulation*, **17**, pp. 207-214, 2000.
10. L. Bennie, E. Malan, J. Coetzee and D. Ferreira – “Structure and Synthesis of Ether-Linked Proteracacinidin and Promelacacinidin Proanthocyanidins from *Acacia caffra*”, *Phytochemistry*, **53**, pp. 785-793, 2000.

11. J. Coetzee, L. Mciteka, E. Malan and D. Ferreira – “Structure and Synthesis of the First Procassinidin Dimers Based on Epicatechin, and Gallo- and Epigallo-catechin”, *Phytochemistry*, **53**, pp. 795-804, 2000.
12. J. Coetzee, E. Malan and D. Ferreira – “Synthesis and Reactions of Flav-3-en-3-ols”, *Tetrahedron*, **56**, pp. 1819-1824, 2000.
13. I. Katsuyama and J.K. Zjawiony – “Theoretical and Experimental Aspects of Bromination of Sampangine”, *Chemistry Letters*, pp. 568-569, 2000.
14. S.A. Ross, D.S. Ziska, K. Zhao and M.A. ElSohly – “Variance of Common Flavonoids by Brand of Grapefruit Juice”, *Fitoterapia*, **71**, pp. 154-161, 2000.

The following Technology Transfer transaction 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 ElSayed, 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.

RECENT PATENTS GRANTED:

“*Flavonoid derivatives*”

Mitchell A. Avery and Harrihar A. Pershadsingh

US Patent 6,028,088 Issued: February 22, 2000.

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

- The School of Pharmacy has named Ms. Maria Alvim-Gaston (Medicinal Chemistry) and Ms. Abir El-Alfy (Pharmacology) as the recipients of the 2000 Graduate Student Achievement Awards. These students were recognized during this year’s Honor’s Day Ceremony.

- Mr. Douglas Paul (Pharmacy Administration) has been awarded a Pre-Doctoral Fellowship by the American Foundation for Pharmaceutical Education. The \$6,000 fellowship is for the twelve-month academic year: September 1, 2000 – August 31, 2001.
- Mr. Nirmal Pugh (Pharmacognosy) has been awarded the distinguished International Paper Marine Science Scholar Fellowship in the amount of \$5,000 in support of his research project, “Marine Cyanobacteria and Algae as a Source of New Pharmaceuticals that Induce Macrophage Activation”. The award is funded by a grant from the International Paper Company to the Mississippi-Alabama Sea Grant Consortium. The University of Mississippi has also agreed to match the award thus making it a full graduate scholarship award.
- Dr. Walter Chambliss has been selected to serve on the Steering Committee of The Handbook of Pharmaceutical Excipients – 4th Edition.
- Dr. Daneel Ferreira has been invited to join the Editorial Board of *Phytochemistry*.
- Dr. Daneel Ferreira was invited to participate as a speaker to the 219th National American Chemical Society Meeting, which was held in San Francisco, California from March 26-30, 2000.
- Dr. Dale Nagle served as an invited Discussion Leader for the Gordon Research Conference on Marine Natural Products Chemistry in Ventura, California, February 28-March 2, 2000. Dr. Nagle, Dr. Mark Hamann, Dr. Marc Slattery, Dr. Yu-Dong Zhou, Ms. Melany Puglisi, Mr. Tony Perry and Mr. Nirmal Pugh represented the University of Mississippi at this Gordon Research with a number of scientific presentations.
- A recent research publication by Dr. Dale Nagle and Dr. Valerie Paul (University of Guam) has been given the significant distinction of being nominated for the 1999 Provasoli Award by the Editorial Board of the *Journal of Phycology*.
- Dr. Nagle also attended The First Asia-Pacific Conference on Chemical Ecology in Shanghai, China. This international conference was organized to bring researcher from Asia, Europe, the Pacific and the Americas together to discuss recent developments in the science of chemical ecology, with a special emphasis in agriculture.

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