

2000 - 2001
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF PATHOLOGY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles.

D.E. Culberson, E.A. Mancini, A.K. Shah, J. Haynes, S.K. Ballas, C. Pegelow, and E. Vichinsky. Nesidioblastosis in Sickle Cell Disease. *J. Ped. Pathol. Mol. Med.* 20 (2):155-165 (2001).

A.H. Diwan, E.D. Graves, J.A.C. King, and M.G. Horenstein. Nuchal-Type Fibroma in Teo Related Patients With Gardner's Syndrome. *Am. J. Surg. Pathol.* 24:1563-567 (2000).

C.H. Dunphy, J.M. Polski, H.L. Evans, and L.J. Gardner: Evaluation of Bone Marrow Specimens With Acute Myelogenous Leukemia for CD34, CD15, CD117, and Myeloperoxidase. *Arch. Pathol. Lab. Med.* 125(8):1063-9 (2001).

C.H. Dunphy, J.M. Polski, H.L. Evans, and L.J. Gardner. Paraffin Immunoreactivity of cd10, cdw75, and bcl-6 in Follicle Center Cell Lymphoma. *Leuk. Lymphoma* 41 (5-6) 585-92 (2001).

C.H. Dunphy, J.M. Polski, G. Johns, H. L. Evans, and L.J. Gardner. Acute Promyelocytic Leukemia, Hypogranular Variant, With Uncharacteristic Staining With Chloroacetate Esterase. *Leuk. Lymphoma* 42(1-2):215-19 (2001).

C. Evankovich, H.N. Vu, L.F. Latour, M.D. Sirmon, J.G. Hardin, J.A. Tucker, and C.B. Rodning. Splenectomy and Systemic Lupus Erythematosus: Case Report and Literature Review. *Abdom. Surg. Fall*, pp. 12-18 (2000).

H.L. Evans, J.M. Polski, V. Deshpande, and C.H. Dunphy. CD5+True SLL/CLL With Plasmacytic Differentiation and an Unusual Ip36 Translocation; Case Report and Review of the Literature. *Leuk. Lymphoma* 39 (5-6): 625-32 (2000).

L.J. Gardner, J.M. Polski, H.L. Evans, S.L. Perkins, and C.H. Dunphy. CD30 Expression in Follicular Lymphoma. *Arch. Pathol. Lab. Med.* 125(8):1036-41 (2001).

D.A. Gremse, L.J. Sindel, C.J. Hoff, D.J. Wells, and R.C. Boerth. Assessment of Hepatic Function in Cystic Fibrosis by Lidocaine Metabolism. *J. Pediatr. Gastroenterol. Nutr.* 32:434-37 (2001).

M.A. Pappolla, R.A. Omar, Y.-J. Chyan, J. Ghiso, K. Hsiao, P. Bozner, G. Perry, M.A. Smith, and F. Cruz-Sanchez. Induction of NADPH Cytochrome P450 Reductase by the Alzheimer β -Protein. Amyloid as a 'Foreign Body.' *J. Neurochem.* 78: 121-128 (2001).

M. Pieretti, N.H. Khattar, and S.A. Smith. Common Polymorphisms and Somatic Mutations in Human Base Excision Repair Genes in Ovarian and Endometrial Cancers. *Mutat. Res.* 36:1-7 (2000).

J.M. Polski, H.L. Evans, L.E. Grosso, W.J. Popovic, L. Taylor, and C.H. Dunphy. CD7 and CD56 Positive Primary Effusion Lymphoma in a Human Immunodeficiency Virus-Negative Host. *Leuk. Lymphoma* 39 (5-6): 633-639 (2000).

J.M. Polski, Z.A. Saeed, and E.M. Brunt. Chronology of Histologic Changes After Band Ligation of Esophageal Varices in Humans. *Endoscopy* 33(5):443-7 (2000).

J. Sangerman, A. Killilea, R. Chronister, M.A. Pappolla, and S.R. Goodman. α -Spectrins (α Spl Σ^* and α Spl Σ) Are the Major Ubiquitinated Proteins in Rat Hippocampal Neurons and Components of Ubiquitinated Inclusions in Neurodegenerative Disorders. *Brain Res. Bull.* 54: 405-11 (2001).

M. Santucci and J.A. Tucker. Editorial. Ultrathin X: International Resurgence of Ultrastructural Pathology. *Ultrastruct. Pathol.* 24:1-4 (2001).

M. Titford. Comparison of Historic Grubler Dyes With Modern Counterparts. *Biotech. Histochem.* 76:23-30 (2001).

M. Titford. Postage Stamps, Medicine and Laboratorians. *Hist. Pathol. Soc. Newsletter* 2:1-3 (2001).

M. Titford and J.C.U. Downs. Case Histories in Forensic Histotechnology. *J. Histotechnol.* 24:23-7 (2001).

J.A. Tucker. The Continuing Value of Electron Microscopy in Surgical Pathology. *Ultrastruct. Pathol.* 24:383-389 (2000).

B. Articles in press.

M.Brunit and J.E. Carter. Pathology Quiz Case: Patient With Systemic Sclerosis and Anemia. Arch. Pathol. Lab. Med. (2001).

Y. Cao, M. Pieretti, J. Marshall, B. Chen, L. Kam-Morgan, and H. Lynch. Challenge in the Differentiation Between Attenuated Familial Adenomatous Polyposis (AFAP) and Hereditary Nonpolyposis Colorectal Cancer (HNPCC): Case Report and Review of the Literature. Am. J. Gastroenterol. (2001).

J.E. Carter and B.D. Bennett. Reference Test Review by Pathology Housestaff: A Cost-Containment Strategy for the Clinical Laboratory. CLMA (2001).

O.E. Emovon, J.A.C. King, C. Op'tHolt, and B.J. Browne. Ranitidine-Induced Acute Interstitial Nephritis in a Cadaver Renal Allograft. Am. J. Kidney Dis. (2001).

J.A.C. King, C.M. Listinsky, and J.A. Tucker. Inguinal Lymph Node Metastasis With Long Microvilli - a Diagnostic Dilemma. Ultrastruc. Pathol. (2001).

J.P. McNeil and J.E. Carter. Pathology Quiz Case: Patient With Systemic Sclerosis and Anemia. Arch. Pathol. Lab. Med. (2001).

M.A. Pappolla, M.J. Simovich, T. Bryant-Thomas, Y.-J. Chyan, B. Poeggeler, M. Duvocovich, R. Bick, M. A. Smith, F. Cruz-Sanchez, and G. Perry. The Neuroprotective Activities of Melatonin Against the Alzheimer β -protein Are Not Mediated by Melatonin Membrane Receptors. J. Pineal. Res. (2001).

M. Pieretti, C. Hopenhayn-Rich, N.H. Khattar, Y. Cao, B. Huang, and T.C. Tucker. Heterogeneity of Ovarian Cancer: Relationship Among Histological Group, Stage of Disease, Tumor Markers, Patient Characteristics and Survival. Cancer Invest. (2001).

L.M. Refolo, M.A. Pappolla, B.T. Malester, J.L. Francois, T. Bryant-Thomas, R. Wang, G.S. Tint, K. Sambamurti, and K.E. Duff. A Cholesterol Lowering Drug Reduces β -Amyloid Deposition in a Transgenic Mouse Model of Alzheimer's Amyloidosis. Neurobiol. Dis. (2001).

D. Ulmer and R. Henry. P-40 Brain Slices Plastination Using Methanol for Dehydration. J. Intl. Soc. Plast. (2001).

D. Ulmer and R. Wade. Plastination of Human Brain Slices: Comparison Between Different Immersion and Impregnation Conditions. *J. Intl. Soc. Plast.* (2001).

II. PUBLISHED ABSTRACTS

P. Bozner and F.L. Wilson. Transient Erythroblastic/Dyserythropoietic Disorder in a Neonate With Down's Syndrome. *Acute Leukemias Clinical Investigation and Other Pathophysiology*, Abstract #4584, 201b (2001).

G.E. Carnahan, A.H. Diwan, and J.R. Stubbs. Two Cases of Transfusion-Transmitted Hepatitis A From a Single Donation. *Transfusion* 40:(10S), SP152 (2000).

G.E. Carnahan. Mechanical Marrow Injury Mimicking Hemolytic Transfusion Reaction in a Patient Under Anesthesia. *Transfusion* 40:(10S), 128S (2000).

A.H. Diwan, M.G. Horenstein, J.A.C. King, and E.D. Graves. Nuchal Type Fibroma in Gardner's Syndrome. *Am. J. Surg. Pathol.* 24:1563-67 (2000).

J.P. McNeil, and M.G. Horenstein. Histologic Correlation of Common Muscle Actin Immunoreactivity With Microfilaments by Transmission Electron Microscopy in Basal Cell Carcinoma. *J. Cutan. Pathol.* 27:555 (2000).

J.A.C. King, D.N. Howell, F. McDonald, C.L. Op'tHolt, S.R. Steven, O.E. Emovon, and B.J. Browne. "Borderline" Changes in Renal Allograft Biopsies: What Is the Clinical Significance of Eosinophils? *Mod. Pathol.* 14:189A (2001).

J.A. King, F. McDonald, T. Weathington, J. Creighton, M. Gillespie, J. Olson, J. Parker, and T. Stevens. Characterization of Phenotypically Distinct Endothelial Cell Populations From Rat Lungs. *FASEB J.* 15:A161 (2001).

J.M. Polski, C.H. Dunphy, H.L. Evans, and D. Brink. Antigen Detection in Necrotic Lymphoid Tissue. *Mod. Pathol.* 14 (1): 176A (2001).

D. Ulmer. Time and Money Savers in S-10 Technique. Acetone Distillation. *J. Int. Soc. Plast.* 15(1):28 (2000).

O. Ulusarac, J.A.C. King, A.H. Diwan, and J.A. Tucker. Nuclear Inclusions in Bronchioloalveolar Carcinoma. *Proc., Ala. Imag. Microsc. Soc.*, 4:2 (2001).

III. BOOKS PUBLISHED

None.

IV. PRESENTATIONS

G.E. Carnahan. Mechanical Marrow Injury Mimicking Hemolytic Transfusion Reaction in a Patient Under Anesthesia. 53rd Annu. Mtg., Am. Assoc. Blood Banks, Washington, DC (2000).

A.H. Diwan. Two Cases of Transfusion-Transmitted Hepatitis A From a Single Donation. 53rd Annu. Mtg., Am. Assoc. Blood Banks, Washington, DC (2000).

A.H. Diwan. Nuchal-Type Fibroma in Two Related Patients With Gardner's Syndrome. Best Scientific Presentation by Resident/Fellow, Am. Soc., Dermatopathol. Mtg., Baltimore, MD (2000).

W.A. Gardner. How to Think about the Prostate and Why. The C. Barrie Cook Annual Lecture, Inova Institute of Research and Education, Inova Fairfax Hospital, Fairfax, VA (2000).

W.A. Gardner. How to Think about the Prostate...Back to the Future. USA College of Medicine Alumni Reunion, Perdido, AL (2001).

W.A. Gardner. Pathology Futures: Visions and Omens. Armed Forces Institute of Pathology Vision Working Group, Washington, DC (2001).

M.G. Horenstein. Dermatopathology Self-Assessment Course. (1) Ibero-Latin_American Soc, Dermatopathol., Viña del Mar, Chile (2000); (2) Int. Soc., Dermatopathol., Washington, DC (2001).

M.G. Horenstein. Review Course on Melanocytic Lesions. Universidad Nacional de Cuyo, Mendoza, Argentina (2000).

J.A.C. King. Microprobe Analysis of Tissue Sections: The Role in Pathology. Ala. Imag. Microsc. Soc. 20th Annu. Mtg., Mobile, AL (2001).

J.A.C. King. Renal Biopsies: Interesting Diagnostic and Transplant Cases. East Carolina University, Dept. Pathol. Lab. Med., Greenville, NC (2000).

J.A.C. King. Electron Microscopy and Confocal Microscopy: Applications in Cytology. Cytol. Assoc. Ala. Mtg., Mobile, AL (2001).

M.A. Pappolla. Melatonin Reduces A β Accumulation in a Transgenic Mouse Model of Alzheimer's Disease. Keystone Symposium on Vascular Pathology and Neurodegenerative Mechanisms in Alzheimer's Disease, Durango, CO (2001).

M.A. Pappolla. Invited Grand Rounds Speaker. Biological Bases of Current Therapeutic Trends in Alzheimer's Disease. UAB, Birmingham, AL (2001).

M.A. Pappolla. Invited Speaker. Hypercholesterolemia Accelerates Amyloid Pathology in a Transgenic Mouse Model of Alzheimer's Amyloidosis. European Congress of Clinical Investigation, Barcelona, Spain (2001).

O. Ulusarac. Nuclear Inclusions in Bronchioloalveolar Carcinoma. Ala. Imag. Microsc. Soc. 20th Annu. Mtg., Mobile, AL (2001).

V. NATIONAL PROFESSIONAL RECOGNITION

Dr. William A. Gardner, Jr., Chair of the Department, serves as International Councilor and Vice President of the International Academy of Pathology as well as Chair of their Finance Committee. He is Alternate Delegate to the American Medical Association House of Delegates and continues to Chair the Scientific Advisory Board of the Armed Forces Institute of Pathology. This year, he was also appointed to the College of American Pathologists International Committee.

Dr. J. Allan Tucker, Vice Chair and Director of Anatomic Pathology, was elected to the executive council of the Association of Directors of Anatomic and Surgical Pathology, a national group of all such directors from academic centers in the United States. He also served as president-elect of the Society for Ultrastructural Pathology, an international society of diagnostic electron microscopists. He served on the editorial board of *Southern Medical Journal* and *Human Pathology*, and he was guest editor for the journal *Ultrastructural Pathology*. He was selected for the education committee of the United States and Canadian Academy of Pathology, and served on the abstract review board of that group. He also served on the electron microscopy ad hoc review group of the Veteran's Affairs Electron Microscopy Program, a national group that provides quality assurance feedback to the electron microscopy laboratories at VA hospitals.

Dr. James R. Stubbs, Vice Chair and Director of Clinical Laboratories, is an editorial Board member of *Annals of Clinical Pathologists*, Resident-In-Service Examination. He Chairs the Medical Advisory Board and is a member of the Board of Directors of the American Red Cross and also serves as a member of the Protection of Human Subjects of the Biomedical Research and Development Division of the American Red Cross. He is a member of the Area Committee on Hematology, National Committee for Clinical Laboratory Standards (NCCLS) as well as membership on the Test Committee for Blood Banking/Transfusion Medicine, of the American Board of Pathology.

Dr. Cynthia Donnell serves on the National Board of Medical Examiners, United States Medical Licensing Examination (USMLE) Step I Anatomy Committee.

Dr. Judy King is Secretary of the Pathology Section of the Southern Medical Association and Associate Councilor of the Alabama Section.

Dr. Elizabeth Mancini serves as Director of the Centralized Pathology Unit for Sickle Cell Disease and is a member of the editorial boards of *Pediatric Pathology* and *Archives of Pathology and Laboratory Medicine*.

Dr. Miguel Pappolla received the American Association of Neuropathologists' Weil Award for the Best Paper on Experimental Neuropathology for the year 2000. He also received the Zenith Award from the Alzheimer's Association. In addition, Dr. Pappolla serves as Associate Editor of the *Journal of Alzheimer's Disease* and on the editorial board of *Journal of Neuropathology and Experimental Neurology*. He was appointed to the Award Committee for the American Association of Neuropathologists and to the NIH Study Section BDCN-3 Board of Consultants.

Dr. LeRoy Riddick was the only Forensic Scientist to serve on the Constitution Project Blue Ribbon Committee to evaluate the present fairness of the death penalty as currently imposed.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

Dr. William A. Gardner, Professor and Chair of the Department, was named Assistant Vice President for Risk Administration in the Spring of this year.

This year saw the departure of several pathology faculty members: Dr. Peter Bozner relocated to a private practice in Louisiana, Dr. Frank Bastian relocated to Tulane, and Dr. David Wells accepted a full-time position as a Senior Research Scientist with InDyne in Washington, DC. Dr. Wells will maintain a Clinical Professor appointment in the Department.

The Department has been actively involved in coalescence of the clinical laboratories at multiple sites. Dr. Prakash Rao has joined the Department as Associate Professor and Director of Histocompatibility Laboratories, and progress is being made in this important area.

Dr. Kimberley Patterson joined the Department as a Surgical Pathology Fellow in July of this year. Three of our departing residents began Fellowships at other institutions: Dr. Hafeez Diwan, Dermatopathology at UAB; Dr. Kenneth Snell, Forensic Pathology at Chapel Hill, NC; and Dr. Lee Chalker at Brown University in Rhode Island. Dr. Dan Roach, currently a PGYV Resident in the Department, will complete an on-line degree program in Medicine Informatics at the University of Oregon.

Dr. Marcelo Horenstein, Assistant Professor of Pathology and Director of Dermatopathology, is a participating investigator in the NIH grant to establish and maintain a national biomedical research resource. He is also working in conjunction with the faculty in the Department of Comparative Medicine and officials of the governments of Argentina and Bolivia to develop a multi-national squirrel monkey breeding and research resource for malaria vaccine development.

Drs. Gardner, Tucker, Stubbs, Donnell, Riddick, and Roveda were honored by the 2001 Graduating Class at the Honors Convocation, and the Department was recognized for the Best Basic Science Course by the Graduating Class.

Dr. Judy King is a co-investigator with Dr. Troy Stevens, in the Department of Pharmacology, on a grant entitled "Calcium Inhibition of cAMP in Lung Endothelial Permeability."

The Rebecca Moring Lecture was delivered by Dr. Robert Birnbaum, author of a number of books on universities and management, including *Management Fads in Higher Education*.

As a contribution to Mobile's "Greece 2000" celebration, the Department hosted a lecture by Dr. Irena Koprowska, the last living student of the Greek physician George Papanicolaou. Dr. Carole Boudreaux developed a companion exhibit demonstrating Papanicolaou's continuing contributions to medicine.

The third Edmund Dowling lecture was delivered by Dr. Barbara Atkinson, Chair of the Department of Pathology at the University of Kansas and author of multiple texts on Cytopathology.

Dr. Renu Virmani, Chair of the Department of Cardiovascular Pathology at the Armed Forces Institute of Pathology, was visiting lecturer and conducted a workshop on cardiac pathology.