

2009-2010
Summary of Scholarly Activities
Department of Pathology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS

Ayar S, Dyess DL, Carter E. Matrix-producing carcinoma: a rare variant of metaplastic breast carcinoma with heterologous elements. *Breast J* 2010 Jul;16(4):420-3.

Goel S, Carter JE, Culpepper M, Kahn AG. Primary renal zygomycotic infarction mimicking renal neoplasia in an immunocompetent patient. *Am J Med Sci* 2009 Oct;338(4):330-3.

Laurini JA, Carter JE. Gastrointestinal stromal tumors: a review of the literature. *Arch Pathol Lab Med* 2010 Jan;134(1):134-41.

Ren S, Liu S, Howell PM Jr, Zhang G, Pannell L, Samant R, Shevde-Semant L, Tucker JA, Fodstad O, Riker AI. Functional characterization of the progesterone-associated endometrial protein gene in human melanoma. *J Cell Mol Med* 2010 Jun;14(6b):1432-42.

Richard HT, Harrison JF, Abel TW, Maertens P, Martino AM, Sosnowski JS. Pediatric gliomatosis cerebri mimicking acute disseminated encephalomyelitis. *Pediatrics* 2010 Aug;126(2):e479-82. Available from: <http://pediatrics.org/cgi/content/full/126/2/e479>

Titford M. Rudolph Virchow: cellular pathologist. *Lab Med* 2010 May;41(5):311-2.

Titford M, Roncal O. Test your knowledge: malignant melanoma. *J Histotechnol* 2009;32(4):211.

Tucker JA. UltraPath XV: Grecian treasure! *Ultrastruct Pathol* 2010 May;34(3):105.

Wang J, Wang H, Wang Y, Chen T, Wu X, Jiang Y. Two novel gap junction protein α 12 gene mutations in two Chinese patients with Pelizaeus-Merzbacher-like disease. *Brain Dev* 2010 Mar;32(3):236.

Xiang B, Zhu H, Shen Y, Miller DT, Lu K, Hu X, Andersson HC, Narumanchi TM, Wang Y, Martinez JE, Wu BL, Li P, Li MM, Chen TJ, Fan YS. Genome wide oligonucleotide array comparative genomic hybridization for etiological diagnosis of mental retardation: a multicenter experience of 1,499 clinical cases. *J Mol Diagn* 2010 Mar;12(2):204-12.

II. PUBLISHED ABSTRACTS

Boudreaux CW, Laurini JA, Zuo Z, Kahn AG. High risk human papillomavirus (HPV) DNA testing in SurePath liquid-based Papanicolaou test specimens: difference in results among pre- and peri-postmenopausal women with atypical squamous cells of undermined significance (ASCUS). *Cancer Cytopathol* 2009 Oct 25;117(S5):389. Abstract no. 53.

Chen TJ, Wang Y, Steen G, Lee A, Tuck-Muller C, Hobart H, Martinez JE. A first case of mosaic double aneuploidy (46,X,+14/46,XX) in a patient with short stature, pigmentary abnormalities, mental retardation, dysmorphic features and hypogonadism. *Annual Meeting of the American Society of Human Genetics* 2009 Oct 20-24; Honolulu, HI. p. 404. Abstract no. 1353/W.

Cucoranu IC, Finan MA, Boudreaux CW. Malignant mixed Mullerian tumor of the cervix: a case report and review of the literature. *Arch Pathol Lab Med* 2009 Oct;133(10):1635. Abstract no. 31.

Duvic M, Crissinger K, Bonfante E, Hamm C, Manci E, Ponnambalam A. Neonatal hemochromatosis: a rare and potentially fatal cause of neonatal liver failure. *J Investig Med* 2010;58(2):478. Abstract no. 432.

Fan YS, Xiang B, Wu BL, Shen YP, Li P, Li M, Chen TJ. Classification of pathogenic imbalances detected by genome-wide array CGH in patients with mental retardation and genetic counseling. *Annual Meeting of the American Society of Human Genetics* 2009 Oct 20-24; Honolulu, HI. p. 425. Abstract no. 1433/W.

Hu X, Fan YS, Li P, Chen TJ, Xiang B, Li M. Microdeletion at 15q11.2 between breakpoints 1 and 2 of the PWS/AS critical region: a new genomic disorder? *Annual Meeting of the American Society of Human Genetics* 2009 Oct 20-24; Honolulu, HI. p. 441. Abstract no. 1379/W.

Li MM, Fan YS, Li P, Chen TJ, Xiang B, Hu X, Andersson HC, Narumanchi TC, Wang Y. Genomic duplication identified by genome-wide array CGH: a multi-center study of 1,670 cases. *Annual Meeting of the American Society of Human Genetics* 2009 Oct 20-24; Honolulu, HI. p. 415. Abstract no. 1395/W.

Ravula S, Kahn AG, Hollingshead TE, Lasecki MA, Tucker JA. Her-2 gene analysis by dual probe chromogenic in situ hybridization (DCISH) in 19 invasive breast carcinoma cases. *Am J Clin Pathol* 2009;132 (Meeting Issue):44.

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Chen TJ. Invited speaker. Mutation, mosaicism, X-inactivation and sequence variant: lessons from unusual molecular findings. International Conference on Genetic and Genomic Medicine; 2010 May 4; Academia Sinica, Taipei, Taiwan-ACGA.

Tucker JA. Invited speaker. Ultrastructural diagnosis of soft tissue tumors: avoiding pitfalls. United States and Canadian Academy of Pathology Annual Meeting; 2010 Mar 21; Washington, DC.

Tucker JA. Invited speaker. Building research in non-research-intensive departments: how to foster collaborative research. Association of Pathology Chairs Annual Meeting; 2010 Jul 14; Seattle, WA.

Tucker JA. Invited speaker. Resident training gap analysis workgroup report. Association of Pathology Chairs Annual Meeting; 2010 Jul 15; Seattle, WA.

V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Allan Tucker was program director for UltraPath VX, the biennial meeting of the Society for Ultrastructural Pathology which was held in Richmond, Virginia, with registrants from twelve different countries. He continues to serve as treasurer of that organization. He was also elected as treasurer of board of directors of the American Registry of Pathology, and continues to serve as secretary and treasurer of the History of Pathology Society. He was selected as an international councilor to the International Academy of Pathology, and selected as chair of the finance committee of that organization. For the College of American Pathologists, he serves on the economic affairs committee and as a representative (alternate member) to the AMA relative value scale update committee (RUC). He is also a member of the graduate medical education committee. He is on the executive council of the Association of Pathology Chairs and a member of its graduate medical education committee. He is a member of the training program committee of the Renal Pathology Society. He serves on the finance committee and abstract review board as well as serving as an ambassador for the United States and Canadian Academy of Pathology. He is a member of the electron microscopy ad hoc review group for the Veteran Affairs electron microscopy program. He continues service as associate editor for *Ultrastructural Pathology* and editorial board member of *Annals of Clinical and Laboratory Science*.

Dr. Elizabeth Mancini served as vice president of the Board of Censors for the Mobile County Medical Society. She is involved in a number of extramural collaborations, including the study of angiogenesis in sickle cell disease with Dr. Ofori-Acquah Solomon at Emory, transgenic mouse models of inflammation-induced endothelial adhesion and of acute chest syndrome with Dr. Lewis Hsu at NIH, and a murine model of diet and sickle cell disease with Dr. Jacqueline Hibbert at Morehouse.

She is a peer reviewer for *Journal of Pediatric Pathology*, *Archives of Pathology*, and *Pediatric and Developmental Pathology*. She is the director of the Alabama Placental Registry. She is a member of the executive board for Camp Rappahope.

Dr. Andrea Kahn served as a trustee of History of Pathology Society. She is a member of the International Union Against Global Cancer Control Community. She is a College of American Pathologists' laboratory inspector, and served as a team leader on an inspection of a laboratory in Pensacola, Florida.

Dr. Gary Carnahan is an inspector of the College of American Pathologists, and was a team leader for an inspection in Lake City, Florida. He is also an assessor for the American Association of Blood Banks, and performed inspections at Wake Forest University and at Mayo Clinic.

Dr. Tian-Jian Chen serves on the editorial board of *Applied Immunohistochemistry and Molecular Morphology* and is a member of the board of directors of the Association of Chinese Geneticists in America.

Dr. Elliot Carter serves as an associate counselor for the Southern Medical Association and on the Board of Censors for the Mobile County Medical Society.

Mr. Michael Titford is on the editorial advisory board of *Journal of Histotechnology* and serves on the safety committee of the National Society of Histotechnology.

Dr. Jacek Polski serves as an editorial board member on *Annals of Clinical and Laboratory Science*.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

In part to promote molecular and cytogenetic testing, the university reorganized what had traditionally been the medical genetics department, moving those laboratories into the pathology department. Dr. Holly Hobart shifted from a joint appointment to a primary appointment in the department of pathology, and the department added Dr. Tian-Jian Chen and Dr. Yueying Wang, as well as ten additional individuals in that area. The department welcomes these skilled individuals and is excited at the opportunities to look to expand molecular and cytogenetic testing.

The department continues several successful external collaborations. The department's work with Gulf Regional Pathologists (the Mobile Infirmity pathology group) continues to go very well including a highly successful residency experience there. The department also continues a long and successful relationship with the Alabama Department of Forensic Sciences. And the department is fortunate to be entering into the second year of a contract with the Biloxi Veterans Affairs Hospital for surgical pathology work.

Four residents completed the program this year. Dr. Javier Laurini embarked on a surgical pathology fellowship at Mayo Clinic. Dr. John Nelson began a cytopathology fellowship at the University of Arkansas. Dr. Kelly Mizell joined Vanderbilt for a surgical pathology fellowship. And Dr. Ken Whithaus undertook a surgical pathology fellowship at the University of Texas at San Antonio. The department enjoyed a highly successful recruiting year, with four new residents joining the department: Dr. Rocky Adams from Tufts University School of Medicine, Dr. Jennifer Corneal from the University of Louisville School of Medicine, Dr. Jennifer Guthrie from Mercer University School of Medicine, and Dr. Crystal Harris from the University of South Alabama College of Medicine.

Two faculty members received the red sash award from the medical school this year for outstanding teaching: Dr. Jeff Sosnowski and Dr. Allan Tucker. Dr. Sosnowski further received the award as best basic science professor. This year, the Betsy D. Bennett award for outstanding teaching in the second year small group by a resident was shared by Dr. Blythe Bowman and Dr. Sree Ravula. The faculty recognition award for excellence in residency teaching was presented to Dr. Gary Carnahan.

Mr. Michael Titford was also recognized by the housestaff for outstanding contributions to their educational experience. The graduating student receiving the William A. Gardner, Jr., pathology award was James Frost.