In 2010, more than 100,000 cancer cases will be diagnosed in the state of Florida, second only to California. In north Florida alone, at least 4,500 new cases are diagnosed annually. Given that one in seven adults treated at Shands has a cancer-related condition, it comes as no surprise that the University of Florida has continually strived to stay ahead of the curve when it comes to cancer care.

On November 1, 2009, Shands at UF took a significant step forward in maintaining its status as a regional leader in cancer diagnosis and therapy with the opening of the Shands South Tower. This new, 500,000-square-foot, $388-million medical tower functions as an extension of the academic medical campus, and houses both the Shands Cancer Hospital and Shands Critical Care Center. With 192 private patient rooms, 62 emergency treatment areas, 12 high-tech operating rooms, 4 trauma rooms, and its own on-site, stand-alone power plant, the new tower was built to provide the best treatment possible today and for the foreseeable future.

With so much space dedicated to emergency and surgical services, it would be unsurprising if the needs of surgical pathology and the clinical lab were overlooked. However, we are happy to report that the Department of Pathology was included in the development process, and the result is a spacious surgical pathology and blood bank area.

The South Tower surgical pathology area includes a resident work room, attending sign out room, and gross room. The gross room includes four grossing stations and a frozen section area, as well as large accessioning and specimen storage areas. Each grossing station has elevating platforms, built-in sinks and ventilation systems, and is set in a semi-private nook with computer access. The frozen section area has an identical grossing station, a two-headed microscope with camera, and a wall-mounted, flat panel LCD TV for intra-operative consultation. An identical TV is in the resident work area, which also includes a multi-headed teaching scope and additional computer kiosks. With all of the bells and whistles, it was no surprise that the residents, faculty, and staff were eagerly anticipating the grand opening of the South Tower, but as with many things in life, it is often the simple and unexpected things that can bring the most satisfaction. In our case, that would mean the wall of windows facing the gross room that let in the afternoon sun. It really is hard to beat a room with a view.
The University of Florida Department of Pathology, Immunology, and Laboratory Medicine would like to invite you to the 28th Annual Resident Research Day Symposium to be held Saturday, June 5, 2010 at the Health Professions, Nursing, & Pharmacy (HPNP) Auditorium. The University of Florida pathology residents are encouraged to pursue a wide range of impressive research projects that are presented both at the national level at pathology meetings, as well as, our own Resident Research Day. Both faculty and resident involvement is recognized, and the day provides an excellent opportunity to learn of exciting, new developments in the field.

Our special guest speaker this year is Dr. Jennifer Hunt, M.D., MEd, Associate Professor at Harvard Medical School and Associate Chief of Pathology and Director of Quality and Safety at Massachusetts General Hospital. Dr. Hunt is an expert in the field of head and neck and endocrine pathology and molecular anatomic pathology. She will present a departmental lecture on Friday, June 4th, discussing “Papillary Thyroid Carcinoma: Controversies, Conventions, and Convictions.” Her keynote presentation to be given at the Research Symposium, June 5th, is titled “Molecular Darwinism: The Lifecycle of Biomarkers in Anatomic Pathology.”

The evening will continue with a banquet at the Sweetwater Branch Inn to honor the graduating seniors and fellows as they conclude their training at the University of Florida. In addition, several faculty awards recognizing academic service and achievement will be presented. Alumni and area pathologists are encouraged to attend the day's events. For more information, please contact Linda Harlan at 352-273-7841.

CME credit is available to all attendees. Please see the following topics to be covered:

- H. pylori PCR in Warthin-Starry negative pediatric gastritis
- Flow Cytometric Analysis of Ep-CAM Expression is a Useful Adjunct in the Detection of Metastatic Carcinoma in Fine Needle Aspirates and Body Fluids
- Baskovich, RS Patel, DN Wakefield, and C Liu
- Approaching the Controversial Atypical Lentigineous Melanocytic Proliferation from a Clinician’s Perspective in the Academic and Private Institutions
- Flow Cytometric Analysis of TCR-Vbeta Expression in the Evaluation of T-Cell Clonality in Lymph Nodes and Lymphoid Tissues
- CS Lin, AA Church, M Magill, and V Vincek
- DNA S-Phase Fraction Difference Between Peripheral Blood and Bone Marrow Specimens In Acute Lymphoblastic Leukemia
- JA Jeung, JJ Coran, C Liu, and DM Cardona
- ALK+ Anaplastic Large Cell Lymphomas (ALCL) Characteristically Express the Myeloid Antigen CD13: A Tissue Microarray Study with Comparison to ALK-ALCL
- NA Lancia, SS Goldstein, P Boonsakan, SZ Al-Quran, RC Braylan, and Y Li
- Detection of Degradation Products via Mass Spectrometry in Thalassemia and Hemoglobinopathies
- MicroRNA Profiling of Benign Navi vs Primary Cutaneous Melanoma
- M Simmons, CE Bacchi, G Gualco, BR Oliai, and RW Allan
- Evaluation of the Effects of Plerixafor and Collagenase on Plasma Cells and Blasts from Bone Marrow Samples of Patients with Multiple Myeloma
- J Bowers, G Hortin, C Diaz, and N Harris
- Evaluation of p16INK4a Immunohistochemical Reactivity in Endocervical Glandular Neoplasia
- CM Carter, DM Cardona, Y Li, and SZ Al-Quran
- Oncogenic Human Papillomavirus positive/Cytology negative findings in screening women for cervical neoplasia, a retrospective analysis
- Evaluation of p16INK4a Immunohistochemical Reactivity in Endocervical Glandular Neoplasia
- KS Gilliland and EJ Wilkinson
- M Monroe, EJ Wilkinson, and SL Butler
- HER2 Quantitation in Primary Gastro-esophageal Adenocarcinomas Based on a Proposed HER2 Scoring System for Gastric Cancer
- RS Patel, JA Jeung, L Vila, DN Wakefield, and C Li

Flow Cytometric Analysis of Ep-CAM Expression is a Useful Adjunct in the Detection of Metastatic Carcinoma in Fine Needle Aspirates and Body Fluids
LVila, P Boonsakan, Y Li, RC Braylan, and SZ Al-Quran
Adrenal pathology - a single institution 15 year review.
DN Wakefield and RWAllan
Plasmacytoma-Like PTLD Presenting as Cutaneous Nodule
C Dadisman, IM Bovio, AA Church, and V Vincek
DNA S-Phase Fraction Difference Between Peripheral Blood and Bone Marrow Specimens In Acute Lymphoblastic Leukemia
NA Lancia, SS Goldstein, P Boonsakan, SZ Al-Quran, RC Braylan, and Y Li
MicroRNA Profiling of Benign Navi vs Primary Cutaneous Melanoma
AA Church and V Vincek
Evaluation of the Effects of Plerixafor and Collagenase on Plasma Cells and Blasts from Bone Marrow Samples of Patients with Multiple Myeloma
AG Jones and Y Li
Evaluation of p16INK4a Immunohistochemical Reactivity in Endocervical Glandular Neoplasia
M Monroe, EJ Wilkinson, and SL Butler
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The year 2010 has implemented and brought many new exciting ideas and changes to our program. The most notable of which include a change in program directors. Our current director, the esteemed Dr John Reith will be stepping down after six years of service. In those six years, Dr Reith has successfully recruited a total of 20 exemplary residents into the program and interviewed several hundreds more. As a program director, Dr Reith is known as being practical and approachable, but most of all, a genuine proponent for the residents. Under his care and guidance, the program has flourished into what it is today, a nurturing environment where residents can develop a strong foundation for their future career choices. While he may be stepping down as our Program Director, Dr Reith will still be readily available to the residents as a teacher and mentor since he will continue as our orthopedic and GI pathologist at the University of Florida. His successor, Dr Lisa Dixon, has over this past year begun to slowly transition into the role of residency program director with Dr Reith’s guidance. She will also have plenty of aid from numerous ex-program directors such as Dr. Winter and Dr Fowler, who was the program director at the University of San Antonio. Dr Dixon has been on staff as a clinical assistant professor of gastrointestinal and liver pathology at the University of Florida since 2005 and has shown commendable leadership skills. She was chief resident at the University of Tennessee in Knoxville where she completed her residency in pathology and even did a year of pediatrics. She has already put into motion several propositions that will improve this program such as increasing the budget towards resident laptops/computers, book funds and renovations. The next challenge she is tackling is our next ACGME site-visit in October. The last one that occurred six years ago was a success and under Dr Dixon’s careful guidance we are well positioned for another.

Fellows and Resident Destinations

Ian Bovio will be doing a hematopathology fellowship at the University of Utah.
Chris Dadisman will be staying at UF for a surgical pathology fellowship.
Nick Lancia will be moving to an undisclosed location to be determined by the Air Force.
Crystal Jenkins will be doing a GI fellowship at at Ameripath in Cleveland.
Jackie Russo will be staying at UF for a dermatopathology fellowship.
Sara Shunkwiler will be moving to Iowa for a cytopathology fellowship.
Anne Church will be staying at UF as a dermatopathology attending.
Graham Jones will be taking a private practice partnership track in Birmingham, Alabama.
Manette Monroe will be moving to Orlando to become an assistant professor at UCF.
The University of Florida, Department of Pathology had a wonderful experience attending this year's USCAP conference in our nation's capitol, Washington, DC. Attendings, fellows, and residents enjoyed a busy schedule of education and entertainment. Resident presentations included: "Flow Cytometric Analysis of Ep-CAM Expression Is a Useful Adjunct in the Detection of Metastatic Carcinoma in Fine Needle Aspirates and Body Fluids" by Drs Vila Duckworth and Al-Quran; "The role of K-ras mutations in pancreatic neuroendocrine tumors" by Dr Gilliland, Dr. Dong and Dr. Liu; and "Flow cytometric analysis of TCR-beta Expression in the evaluation of T-Cell clonality in Lymph nodes and lymphoid tissue" by Drs Carter and Al-Quran. Two UF residents, Drs Vila Duckworth and Jeung, participated in the Resident's Forum where there was much discussion about the proposed NRMP Pathology Fellowship Match. Also, the forum spent time with the ongoing discussion and reminder of the pathologist's visual role in medicine and need to be more involved with the clinical team and be a bigger, active part of patient care. Along with the seminars and session, everyone found time for the 6th annual UF Alumni Dinner at the Lebanese Taverna. This meal has become a much-appreciated opportunity to sit down and catch up on UF, pathology, family, and friends. Pathologists in attendance this year included:

Robert W. Allan, M.D.
Emilio Allan
Samer Z. Al-Quran, M.D.
Diana M. Cardona, M.D.
Christopher M. Carter, M.D.
James M. Crawford, M.D., Ph.D.
Peter A. Drew, M.D.
Lizette Vila Duckworth, M.D.
Larry J. Fowler, M.D.
David D. Grier, M.D.
Jennifer Ann Jeung, M.D.
Catherine M. Ketcham, Ph.D.
Chen Liu, M.D., Ph.D.
Roshan S. Patel, M.D.
Suzanne Zein-Eldin Powell, M.D.
John D. Reith, M.D.
Michelle D. Williams, M.D.
Anthony T. Yachnis, M.D.
Last year, the University of Florida agreed to provide over a million dollars for renovations to our autopsy suite, with Shands purchasing some of the equipment. In October of 2009, the autopsy suite closed and construction began in November. Plans were created by Dr. Donnelly and Dr. Burt, funding was cut, plans were readjusted, etc.

When Shands was first built, the autopsy suite was on the sixth floor where experimental pathology is now. In 1968 Dr. Pearson moved it to the current location on the ground floor, an area that was previously used as animal quarters. The only previous renovation was in 1982 by Dr. Donnelly, per Dr. Smith's request.

The most practical improvement this time will be a new ventilation system, dramatically decreasing the risk of cancer in our residents. We'll be moving up from a 6-person to 30-ish-person cooler with a lift, though an epidemiologic issue that may not have been accounted for is the need for most of them to be obese spaces. The autopsy suite will have automatic doors, mobile tables with surgical lighting, and a plasma screen for conferencing. We'll probably also spend $7000 on a professional camera system, despite my recommendations for a $50 webcam.

As a bonus, the adjacent offices are also being renovated, with workspaces and 17 desks for our residents and new offices for Dr. Donnelly as well as Dr. Burt and Dr. Hamilton, our local medical examiners who are taking over most of the Shands autopsy service. In the meantime we've been displaced to offices in the sixth floor lab area. The bathroom will also be renovated, with a nice new shower for our chief resident after his 7-mile bike ride in. Jacuzzi status pending.

The original target date was March of 2010, but due to typical construction delays such as asbestos removal, renovations are currently expected to be done by the end of May.
The UF Department of Pathology and Laboratory Medicine is pleased to welcome Dr. Larry Fowler to its ranks. Dr. Fowler joined our department after twelve years at the University of Texas Health Science Center (UTHSC) in San Antonio, Texas, where he served as residency program director from 1996 to 2009 and as co-director of the cytopathology fellowship from 1994 to 2009.

Dr. Fowler's training began with medical school at Wayne State School of Medicine in Detroit, Michigan. Afterwards, he completed an internal medicine residency in Kalamazoo, Michigan and spent several years in private practice in Hillsdale, Michigan. In 1988, Dr. Fowler made a great career choice and moved to Chapel Hill, North Carolina, where he completed both a pathology residency as well as a fellowship in cytopathology. After completing his second residency and fellowship, Dr. Fowler began his pathology career at the UTHSC, where he remained until joining our department in the fall of 2009.

Dr. Fowler has numerous publications, including several book chapters, multiple original articles and abstracts, book reviews, and many public talks and lectures. His primary areas of interest include endocrine pathology and cytopathology, head and neck pathology and cytopathology, applications of proteomics and ancillary testing in neoplastic and non-neoplastic cytopathology, and the use of computer-based educational tools for residents, medical students, and cytotechnologists.

Jennifer Lazarowicz

**Tania Zuluaga-Toro**

Dr. Tania Zuluaga Toro will be joining us as a gastrointestinal pathologist next year. She is originally from Colombia and went to medical school at the Universidad del Valle where she graduated second in her class. She then completed a one-year training program at the University of Miami. She went to the Cleveland Clinic in Ohio for pathology residency where she trained with Dr. Mary Bronner, then to Vanderbilt for fellowships in surgical and gastrointestinal pathology under Dr. Kay Washington.

At the International Center of Medical Research and Training she studied antibiotic resistance trends in Colombia. She has been involved in teaching at the Cleveland Clinic and at Vanderbilt. Our busy GI attendings look forward to a lightened load with her addition.

Brett Baskovich
Marie L. Rivera-Zengotita will be joining the Department of Pathology as a full-time neuropathology trained attending in July 2010. She will fill the position left by Dr Eskin, who had retired in December of 2009. Dr Rivera-Zengotita graduated from Ponce School of Medicine in Puerto Rico and completed her residency training at the University of Puerto Rico in Anatomical Pathology. She then went on to complete a Neuropathology fellowship at Baylor College of Medicine in Houston where she trained under Dr Susan Powell. Dr Powell is the current program director of Methodist Hospital, on the committee Board of the ACGME, and most importantly, is the first graduate of the Neuropathology fellowship program here at the University of Florida.

Starting in July, Dr Rivera-Zengotita will work with Dr Anthony Yachnis, our Director of Neuropathology and Anatomical Pathology. Her responsibilities will include signing out central nervous system lesions, muscle biopsies and ocular specimens.

Christine Lin

Since 2003, the cytology and FNA clinic at the University of Florida had been under the guidance and directorship of Dr Nicole Ann Massoll, a well-respected colleague, teacher and physician in her professional life as well a nurturing mother of two children at home. Dr Massoll acquired her bachelors of arts degree from Hendrix College in Arkansas and graduated from the University of Arkansas of Medical Sciences in Little Rock. She spent three-years, thereafter, in a general surgery residency with the misguided notion of becoming a pediatric surgeon. However, she soon discovered her true calling and decided to pursue a pathology residency. In 2001, Dr Massoll accepted a Cytopathology fellowship at the University of Florida where she trained under Dr. Wilkinson. She also trained in endocrinology with Dr Ernie Mazzaferri to get the FNA clinic going. She remained as a clinical professor of cytopathology, gynecologic pathology and breast pathology at Shands hospital. During her years at the University of Florida, Dr Massoll served on numerous committees, published multiple articles, participated in national conferences and became a mentor to many medical students and residents. Under her leadership and guidance, Dr Massoll expanded the FNA clinic into what it is today: a flourishing, busy and robust service that sees multiple patients and provides residents with incomparable hands-on experience. In the years she has served this institution, she has made multiple friends and left indelible memories. However, this past year Dr Massoll has turned a new chapter in her life and has decided to take a position back in Arkansas as an FNA specialist. There she will continue on with her dedication to pathology and service to patients. She will be missed at the University of Florida for she has undoubtedly been a true asset to this department.

Christine Lin
Ahmad Alkasawneh

Ahmad, who was born in the north of Jordan and moved to the capital (Amman) to study medicine at the University of Jordan at Amman, the oldest medical school in Jordan. He developed his interest in pathology after working in King Hussein Cancer Center (KKHCC) in Jordan. He joined the pathology program at the University of Florida at Gainesville. His ultimate goal is to practice pathology back in Jordan at the KHCC.

Brett Baskovich

Brett Baskovich was born in the distant land of Clearwater, Florida, where he remained for 17 years before making the long journey to Gainesville, where he studied biochemistry, computer science, and physics. He then attended UF medical school where he became a famous movie producer and rap star, with creations including “House: The Musical” and “Family Practice Guy”. He now continues his career at UF, and is attempting to start a pathology department band.

Jennifer Black

Dr. Jennifer Black was born and raised in St. Petersburg, Florida. She earned her undergraduate degree from the University of Florida in Microbiology and Cell Science. She then attended medical school at Lake Erie College of Osteopathic Medicine where she graduated with her DO degree. Jennifer is excited to be back at her alma mater for her residency training in Pathology. An interesting fact is she will be the second Pathologist in her family as her brother, Michael Black MD is completing his residency in Pathology at the University of Hawaii. Her interests in pathology are diverse and include Cytology, GYN and GI Pathology but, she is currently still “undecided”. Outside of work she enjoys spending time with family and friends, attending Gator football games, running and traveling.

Kristianna Fredenburg

Kristi was raised in Nashville, TN by two science teachers. After high school, she headed to Rochester, New York where she attended the University of Rochester and graduated with BA in Biology. Post-graduation, she spent two years working as a research laboratory assistant before entering graduate school at North Carolina State University. After receiving a doctorate in Cell Biology/Toxicology, she began a two-year post doctoral fellowship at Duke University. Inspired by her bench research, Kristi applied to medical school and was able to attend the University of North Carolina at Chapel Hill College of Medicine. Pathology is the perfect merger of her enthusiasm for cell biology and desire to be involved in patient care. Kristi enjoy all aspects of pathology and could not imagine having to choose a particular subspecialty. When not at the microscope, reading, or grossing in specimens, she loves to spend time with her husband, two little girls, dog, and cat.
Dara was raised on a small farm in a very small town, Double Springs, in Alabama. The daughter of a teacher and retired policeman, she fell easily into the role of “they’re really hurt, call Dara” and knew medicine was a good career choice for her early on. In step with the family tradition, Dara attended Auburn where she soon discovered her love for the microscopic world. Her mentor Dr Kempf also nurtured her love for teaching and helped her transition easily into medical school at UASOM, Birmingham. Dara knew she wanted to be trained at an academic institution and wanted to stay close to family and was excited to match at UAB for residency. After completing her first two years of training in Alabama, and after her husband matched in Emergency Medicine in Gainesville, Dara was fortunate to be able to transfer to Gainesville as a third year resident.

Ann was born and raised in a small town in southern Indiana. She attended the University of Southern Indiana in Evansville, Indiana where she graduated magna cum laude with her undergraduate degree in Biology. After completing her undergraduate work, Ann then began her medical training at Indiana University School of Medicine. Ann graduated medical school in 2005, and subsequently moved to Gainesville to pursue a residency in dermatology at the University of Florida. Ann has since completed her dermatology residency and is certified by the American Board of Dermatology and a fellow of the American Academy of Dermatology. Ann is currently finishing her dermatopathology fellowship here at the University of Florida and will be joining the faculty this July in both dermatology and pathology. In her free time, Ann enjoys spending time with her family; including her two young daughters, Ava-2 years old and Mya-8 months old.

Roshan was born at Coney Island Hospital in Brooklyn, NY and moved to Chicago when he was 2 years old. He spent almost all of his educational years in Chicago. After graduating from the University of Chicago with dual majors in Economics and Biological sciences, Roshan deferred his medical school acceptance for a year and decided to try out the corporate world. He joined Mercer Consulting Firm as a healthcare consulting analyst in Stamford, CT. After a year with Mercer, he moved back to Chicago for medical school (Rush Medical College) and residency (University of Illinois Medical Center at Chicago). During his undergraduate years, Roshan spent six weeks of his summer vacation volunteering at a medical clinic in Gambia (West Africa) through the World Health Organization – one of his “most incredible experiences”. In his free time, Roshan enjoys the newly married life, basketball, audio gear, and traveling. Dr. Patel’s future plans were unavailable at the time of this publication.
Dr. Cesar Moran is a professor of Pathology and Thoracic Head and Neck Medical Oncology at the University Of Texas M.D. Anderson Cancer Center. Currently, he is the Fellowship Program Director for Thoracic Pathology in Academic Affairs. Dr. Moran is a graduate from the University of San Carlos Medical School in Guatemala City and he completed his pathology residency training in Mount Sinai Hospital in New York City and his fellowship training in Surgical Pathology at the Yale University School of Medicine.

The day was started with an unknowns conference for the residents with a carefully selected set of interesting cases of interstitial lung diseases by Dr. Moran. Later on, he talked thoroughly about the thymic neoplasm, he impressed the residents and the faculty by his huge personal experience in this field and his opinion about the WHO (World Health Organization) classification of thymic epithelial tumors. In the afternoon, and being one of the few experts in mesothelioma pathology, he presented an up to date lecture about the pathology of mesothelioma and the recent advances in surgical management.

The residents and faculty enjoyed the visit of an outstanding expert in pathology and one of the nationally well-known figures in pathology.

Ahmad Alkasawneh

Dr. Cesar Moran

Dr. Gregory Davis, MD is currently an Associate Professor of Pathology at University of Alabama and the Associate Coroner/Medical Examiner at Jefferson County Office. He attended medical school and residency at Vanderbilt and completed his fellowship in Forensics at San Diego Country ME Office. One of his accomplishments includes serving as many positions within the American Academy of Forensic Sciences over the years. He is both a member and on the Board of Directors for the National Association of Medical Examiners. He is the Chairman for the Journal of National Association of Medical Examiners. He has served on the editorial boards of several forensic journals and is currently co-editor of ASCP CheckSample series on forensic pathology. He has also found time to author 48 published papers and 1 book.

Dr. Davis started his visit to University of Florida with an unknown slide session with a variety of forensic cases. This session was followed by a lecture on “Forensic pathology in hospital practice” for the residents and fellows. At lunch the residents we able to meet with him in an informal setting, where they discussed interesting cases and current issues in pathology. The day ended with a department conference on “Practicing pathology in litigious times”. It was a memorable day and the residents and faculty greatly appreciated having Dr. Davis visit.

Jennifer Black

Dr. Gregory Davis
The future has always been of great interest to humankind. Rulers will try to shape it; prophets and psychics try to predict it; and physicists try to define it. Though many would say predicting the future is impossible, one of the most basic rules of the universe is causation, or the fact that the present defines the future.

Researchers at the University of Florida are now pioneering the science of predicting the course of a person’s life by their placenta. “Placental pathology is a very young field,” says Dr. William Donnelly, pediatric pathologist. “And we are only beginning to discover what it can tell us.”

Pathologists have recognized for some time now that a placenta can tell you if an infant may have an infection or whether it had sufficient blood supply, but they are just now beginning to consider that it can also tell you their IQ and what college they will go to.

“We look at a number of characteristics,” explains Dr. Demaretta Rush. “From gross features like size and shape to microscopic findings like fibrin deposition and villi structure. For example, a placenta with accelerated villous maturation suggests a baby that will be ambitious and have a type-A personality.”

Placental histology is expected to replace horoscopes as the primary means of predicting one’s future. The only problem now is limited expertise.