

UF Health Pathology Laboratories

Gastrointestinal & Liver Pathology



- ▶ University of Florida Health Pathology Laboratories' Gastrointestinal & Liver Pathology Laboratory supports gastroenterologists, hepatologists, surgeons and oncologists in the care of their patients, incorporating the most up-to-date research and techniques that only an academic health center can provide.
- ▶ We employ expert pathologists whose focus is gastrointestinal pathology, and all are subspecialty trained in gastrointestinal pathology from outstanding institutions, including the University of Florida, MD Anderson Cancer Center and Cleveland Clinic.
- ▶ Our pathologists' experience is gained from years of subspecialty practice in a challenging multidisciplinary academic environment.
- ▶ Each year, our Gastrointestinal & Liver Pathology Laboratory reviews more than 30,000 gastrointestinal cases and more than 1,000 liver biopsies. Our pathologists also perform slide review consultations, including many difficult cases that are submitted by clinicians and pathologists from around the southeastern United States.
- ▶ UF Health Pathology Laboratories' physicians participate in daily consensus slide review conferences on challenging cases, grading of dysplasia, including inflammatory bowel disease and Barrett's esophagus, etc., and new cancer diagnoses.
- ▶ Our laboratories boast an extensive in-house immunohistochemical test menu, with a targeted gene-analysis panel by next-generation sequencing, and molecular pathology testing (MSI, KRAS, BRAF, NRAS, PIK3CA), which allows for quick and accurate diagnoses and prognoses.

Specialized tests for colorectal carcinoma (all performed on-site):

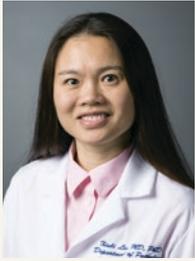
- ▶ Mutation tumor profiling by comprehensive next-generation sequencing or single analyte testing (KRAS, BRAF and many others; visit pathlabs.ufl.edu/services/ngs for a complete list of targeted genes.)
- ▶ Mismatch repair genes by immunohistochemistry (hMLH1, hMSH2 and hMSH6)
- ▶ KRAS, BRAF mutation (pyrosequencing molecular)
- ▶ Next-generation sequencing tumor profiling (KRAS, NRAS, BRAF, EGFR, ERBB2, PIK3CA and others)

UFHealth
PATHOLOGY LABORATORIES

Diagnostics. Done right.

UF Health Pathology Laboratories

Gastrointestinal & Liver Pathology



Xiuli Liu, MD, PhD | Unit Director Gastrointestinal & Liver Pathology

Xiuli Liu, MD, PhD, is a professor at the University of Florida Department of Pathology, Immunology and Laboratory Medicine. With more than 10 years of clinical experience, Dr. Liu is an expert GI/liver pathologist with strong clinical and translational research in Barrett's esophagus, inflammatory diseases of the gastrointestinal tract, pancreatic cancer and liver diseases.

Dr. Liu currently works in a multidisciplinary environment at UF and regularly interacts with gastroenterologists and hepatologists, as well as colorectal, hepatopancreatobiliary and transplant surgeons. Prior to this, Dr. Liu practiced internal medicine for five years, in addition to working in gastrointestinal and hepatopancreatobiliary pathology at the Cleveland Clinic Department of Pathology, one of the busiest and demanding pathology departments in the United States. These combined experiences allow Dr. Liu to truly understand the clinical implication of pathologic diagnoses and guide treating physicians in selecting the most effective therapies for their patients.

An accomplished author, Dr. Liu has published more than 100 peer-reviewed articles, mostly focused on difficult and challenging entities in the gastrointestinal and hepatopancreatobiliary pathology. She has also written seven book chapters on the human esophagus; frozen interpretation of gastrointestinal specimens; and the diagnosis of inflammatory bowel disease and neoplasia, as well as colonic polyps.

Some selected works from Dr. Liu's many other publications on her studies in gastrointestinal and liver pathology include:

1. Horvath B, Singh P, Xie H, Thota PN, Allende D, Pai R, Patil DT, Plescek TP, Goldblum JR, Liu X. Risk for esophageal neoplasia in Barrett's esophagus patients with mucosal changes indefinite for dysplasia. *J Gastroenterol Hepatol.* 30:262-267, 2015. [PMID: 25087917]. Featured on MDLinx.com
2. Kim R, Tan A, Lai KK, Jiang J, Wang Y, Rybicki LA, and Liu X. Prognostic roles of human equilibrative transporter 1 (hENT-1) and ribonucleoside reductase subunit M1 (RRM1) in resected pancreatic cancer. *Cancer* 117: 3126-3134, 2011.
3. Liu X, Goldblum JR, Zhao X, Landau M, Leach BH, Pai R, Lin, J. Distinct clinicohistologic features of inflammatory bowel disease-associated colorectal adenocarcinoma: in comparison to sporadic microsatellite stable and Lynch syndrome-related colorectal adenocarcinoma. *Am J Surg Pathol.* 36:1228-1233, 2012.
4. Chen D, Goldblum JR, Landau M, Rice TW, Rai RK, Xiao S-Y, Liu X. Semiquantitative evaluation of a common histology pattern improves diagnosis of esophageal carcinoma cuniculatum in mucosal biopsy. *Mod Pathol.* 26:806-815, 2013.

Other UF Health fellowship-trained GI/liver pathologists include:

- Amy Collinsworth, MD
- Lisa R. Dixon, MD
- Ashwini Esnakula, MD
- Michael Feely, DO
- David Hernandez Gonzalo, MD
- Jesse Kresak, MD

Routine Tests

Esophagus Biopsy Review

- Consensus evaluation for Barrett's esophagus and grading of dysplasia
- Evaluation of eosinophilic esophagitis

Stomach Biopsy Review

- *H. pylori* immunohistochemistry on all gastric biopsies
- Consensus evaluation on grading of dysplasia
- *HER2* immunohistochemistry and fluorescence in-situ hybridization (FISH) for gastric/GE carcinoma

Colonic/Rectal Biopsies Consensus Review for:

- Initial diagnosis of inflammatory bowel disease (IBD)
- Grading of dysplasia in IBD
- Consensus review for malignant diagnoses

Advanced Molecular Tumor Profiling

- Next-generation sequencing-based test for mutations in KRAS, NRAS, BRAF, EGFR, ERBB2 and PIK3CA
- Microsatellite instability testing by PCR and immunohistochemistry for mismatch repair proteins (hMLH1, hPMS2, hMSH2 and hMSH6)

Liver Biopsies

- Routine staining with trichrome, PAS, PASD and Prussian blue stains in all liver biopsies to diagnose and stage fatty liver disease, chronic and acute hepatitis, autoimmune hepatitis, biliary disease and metabolic diseases
- Immunohistochemical staining to diagnose liver neoplasms, primary or metastatic

Pediatric Biopsies

- Evaluation for Hirschsprung's disease, dysmotility and pediatric liver diseases



Contact us today to learn how UF Health Pathology Laboratories can work for you.

4800 SW 35th Drive | Gainesville, FL 32608 | (O) 352.265.9900 | (F) 352.265.9901 | Toll-Free: 888.375.LABS (5227) | pathlabs.ufl.edu