• UF PathLabs’ Gastrointestinal & Liver Pathology Division 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 Johns Hopkins Hospital.

• Our pathologists’ experience is gained from years of subspecialty practice in a challenging multidisciplinary academic environment.

• Each year, our Gastrointestinal & Liver Pathology Division reviews more than 7,000 gastrointestinal cases and more than 1,000 liver biopsies. Our GI/liver pathologists also perform countless slide review consultations, including many difficult cases that are submitted by clinicians and pathologists from around the southeastern United States.

• UF PathLabs’ physicians participate in daily consensus slide review conferences on challenging cases, grading of dysplasia (inflammatory bowel disease, Barrett’s esophagus, etc.) and new cancer diagnoses.

• Our laboratories boast an extensive in-house immunohistochemical test menu and molecular pathology testing (MSI, KRAS, BRAF), which allows for quick and accurate diagnoses and prognoses.

Specialized Tests for Colorectal Carcinoma (All Performed On-Site):

• Mismatch repair genes by immunohistochemistry (hMLH1, hMSH2 and hMSH6)

• Microsatellite instability (MSI) evaluated by PCR (molecular)

• KRAS mutation (pyrosequencing molecular)

• BRAF mutation (pyrosequencing molecular)
Unit Director Gastrointestinal & Liver Pathology | Chen Liu, M.D.

Dr. Chen Liu is the director of the Gastrointestinal & Liver Pathology Division at University of Florida Pathology Laboratories; the director of the UF College of Medicine’s GI/Liver Pathology Fellowship; and a professor at UF. With more than 20 years of clinical experience, Dr. Liu is an expert GI/liver pathologist and an accomplished researcher whose interests include viral hepatitis, liver transplantation and hepatocellular carcinoma.

He has published more than 130 peer-reviewed articles and book chapters, including the chapter on gastrointestinal pathology in Robbins’ and Cotran’s *Pathological Basis of Disease*—the gold-standard general pathology textbook.

Dr. Liu works in a multidisciplinary environment at UF and regularly interacts with gastroenterologists and hepatologists. Because of this, he can easily guide treating physicians in selecting the most effective therapies for their patients.

Outside of work, Dr. Liu enjoys spending time with his family and friends and being outdoors.

UF PathLabs’ Gastrointestinal & Liver Pathology Unit focuses on three primary concerns:

**Academic:**
- Educating University of Florida pathology residents and fellows in gastrointestinal and liver pathology
- Educating UF trainees in adult and pediatric gastroenterology and hepatology
- Educating UF medical students

**Clinical:**
- Making gastrointestinal and liver pathology services available to patients at UF, Shands Cancer Hospital and Shands Hospital for Children
- Making consultative services available to United States veterans at the Malcom Randall VA Medical Center in Gainesville, Fla.
- Making academic-caliber pathology services available to community gastroenterologists and hepatologists

**Research:**
- Conducting scientific and translational research to advance the discipline of gastrointestinal and liver pathology and incorporating that research into standard practice

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Dr. Liu has authored numerous publications on his studies in gastrointestinal and liver pathology, including:

1. DNA methylation suppresses expression of the urea cycle enzyme carbamoyl phosphate synthetase 1 (CPS1) in human hepatocellular carcinoma.

2. The antigen for Hep Par 1 antibody is the urea cycle enzyme carbamoyl phosphate synthetase 1.

3. Reactive oxygen species is essential for cycloheximide to sensitize lexatumumab-induced apoptosis in hepatocellular carcinoma cells.

**Other fellowship-trained GI/liver pathologists include:**
- May R. Arroyo, M.D., Ph.D.
- Lisa R. Dixon, M.D.
- Tania Zuluaga Toro, M.D.

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**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/Neu immunohistochemistry and fluorescence in-situ hybridization (FISH) for gastric/GE carcinoma

**Colonic/Rectal Biopsies**
- Consensus review for initial diagnosis of IBD
- Consensus review for grading of dysplasia in IBD

**Liver Biopsies**
- Routine staining with trichrome, reticulin and iron to evaluate for cirrhosis and/or iron accumulation

**Consensus review for malignant diagnoses**

**Pediatric Biopsies**
- Evaluation for Hirschsprung’s disease and dysmotility

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Knowledge and Experience. Academics and Research.

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Contact us today to learn how UF PathLabs can work for you.

4800 SW 35th Drive | Gainesville, FL 32608 | Phone: (352) 265-9900 | Fax: (352) 265-9901
Toll-Free: (888) 375-LABS (5227) | www.pathlabs.ufl.edu