



Gastroenterology Research and Practice

Special Issue on
**Precision Imaging and Interventions for
Gastrointestinal Diseases**

CALL FOR PAPERS

Precision medicine or the treatment of patients centered around individualized biomarker-driven diagnostic tools and delivered via targeted therapies, is a cornerstone of modern health care and medical research. Applications of precision medicine have recently expanded, due to advancements in molecularly sensitive imaging tools and minimally invasive diagnostic and therapeutic interventions. Precision medicine resides at the intersection of advanced diagnostic imaging, minimally invasive diagnostic and therapeutic interventions, and targeted therapies. Examples include novel imaging biomarker based assessments of chemotherapy to prognosticate outcomes and drive treatment decisions earlier in the patient's course. Additionally, image-guided interventions such as percutaneous biopsies are the *sine qua non* for identifying the most appropriate molecularly targeted therapies based upon tumor genotype.

We invite investigators to contribute original research articles as well as review articles to advance the techniques that provide the foundation of precision medicine, in both the preclinical and the clinical settings. Topics of interest include the study of targeted imaging agents, applications of minimally invasive diagnostic and therapeutic interventions in personalized medicine, and novel biomarkers for both oncologic and nononcologic gastrointestinal diseases.

Potential topics include, but are not limited to:

- ▶ Advanced techniques in imaging modalities applicable to the abdomen and pelvis, including computed tomography (CT), magnetic resonance (MR), optical imaging, nuclear medicine, endoscopy, and ultrasound
- ▶ Novel biomarkers for gastrointestinal diseases, including imaging-based technologies
- ▶ Image-guided interventions providing targeted treatments for both oncologic and nononcologic gastrointestinal disorders
- ▶ Diagnostic interventions that drive targeted therapies including percutaneous biopsies and focal venous sampling procedures
- ▶ Novel imaging tools to guide minimally invasive interventions including image fusion tools (PET/MR fusion, ultrasound/CT fusion, etc.), stereotactic needle guidance, and advanced angiographic imaging reconstruction techniques
- ▶ Advances in targeted endoscopic imaging tools and techniques

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/grp/pii/>.

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