Key questions defining research program:

- Can we define subgroups of patients which comprise inflammatory bowel disease (IBD)?
- Can we predict which patient groups are at risk of severe disease?
- Can we predict which patients will respond to specific forms of therapy?
- Can we determine the impact of diet/nutrition on the natural history of IBD?
- Can we develop predictive biomarkers to help with IBD patient prognostication?

Key words describing research program:

- Big Data and Precision Medicine
- Predictive analytics
- Metadata
- Phenotyping
- Trajectory analysis

Titles for shovel-ready research projects:

- Identifying biomarkers of severity in IBD
- Predicting dysplasia/cancer in IBD patients with multiyear serum biomarkers
- Dietary patterns of IBD patients in prolonged remission
- Association of endoscopic findings with clinical trajectories in IBD
- Identifying clinical factors contributing to high cost IBD patients

Data sources for shovel-ready research projects:

- UPMC IBD Research Registry
- UPMC Nutrition Research Registry