

MOUNT SINAI SCHOOL OF MEDICINE

## Background

• A variety of tumor tissue and body fluid repositories have been established to bank human tumor tissue and blood collected from cancer patients.

• The NCI promulgated a Best Practices document emphasizing the need for high quality, clinically annotated human specimens that are linked to donors' clinical information.

• The Mount Sinai School of Medicine Tisch Cancer Institute recently established the Genitourinary (GU) Cancer Biorepository to develop a repository for biomarker development through collection of liquid and tissue specimens from cancer patients at multiple times points during their cancer therapy.

• All specimens are linked to a comprehensive clinical database.

• This GU Biorepository requires ongoing multidisciplinary collaborations to ensure the acquisition of timely, accurate clinical information.

### Methods

• All patients with a GU cancer diagnosis irrespective of specimen availability are approached for tissue participation.

• Patient medical records are reviewed and data points relevant to cancer diagnosis, disease progression, and treatment information are entered into a clinical database. the Electronic Research Application Portal (eRAP). Each patient record is coded with a 5-digit Patient ID.

• A blood draw is performed at each standard-of-care (SOC) clinic visit and resulting liquid specimens banked.

• If a patient is scheduled for an SOC surgical procedure, research samples are isolated from any excised tissue and placed in formalin and frozen via Optimal Cutting Temperature (OCT).

• Specimens are entered into an independent Specimen Database which also requires a Tracking username/password combination. Each specimen is coded with a 5-digit Specimen ID. A data link is made between each Patient ID and all associated Specimen Ds.

## **Implementation Of A Data Feedback Loop For Accurate Clinical Annotation Of A Biorepository**

Steven A. Grossman<sup>1</sup>, Sonia M. Seng M.D.<sup>1</sup>, Tiffany Yee<sup>1</sup>, Matthew D. Galsky M.D.<sup>1</sup>, Simon J. Hall M.D.<sup>2</sup>, & William K. Oh M.D.<sup>1</sup> <sup>1</sup>The Tisch Cancer Institute, Mount Sinai School of Medicine, NY, NY <sup>2</sup>Department of Urology, Mount Sinai School of Medicine, NY, NY



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