

## **Summary of Medanta Institutional Tissue Repository (MITR)**

**Scope:** To enable discovery and validation of novel biomarkers, diagnostic tests and new therapeutics.

A bio-repository is place that collects human biological material (specimens) and associated data for research purposes. These help advance medical treatment of the disease like by finding new markers to identify the disease early or find new sites for medicines to act.

The bio-repositories have a growing impact on medical research and represent a huge opportunity for public heath impact.

**Start Date: 14-JUL-2017**

**Summary:** The Medanta Institutional Tissue Repository (MITR) is collecting, processing and storing the biological samples in compliance with in-house SOPs and ICMR Ethical Guideline.

- The Medanta Institutional Tissue Repository (MITR) is running under the department of **Medanta Institute of Education and Research (MIER)**, which is a non-profit trust, proposed that benefits will be shared between the investigators, MIER, and the community from which the participants have arisen (disease specific patient advocacy organizations or the community per se towards awareness and early testing)
- MITR provides the researcher a reliable and organized source of (frozen) human tissues for RNA-based analysis with corresponding relevant clinical information.
- **MITR Infrastructure:**







### **A. Research Team**

- The research team is trained on in-house SOPs, ICH-GCP, Schedule Y, Indian GCP and ICMR guidelines

### **B. MITR Infrastructure**

- Confined access controlled Laboratory with 24x7 security and CCTV surveillance
- MITR laboratory equipped with calibrated instruments, IT infrastructure and synchronized GPS controlled digital clocks, for accurate time management
- Established calibration and maintenance plan for all equipment
- Well established Standard Operating Procedures (SOPs)
- MITR has Bio-repository Management System, **CloudLIMS software**, which is HIPAA compliant Cloud based software

### **C. Specific Equipment – MITR Laboratory**

- Refrigerated Centrifuge
- Non-refrigerated Centrifuge
- Deep Freezer -80°C (02 Nos.)
- Deep Freezer -40°C (02 Nos.)
- Pharmaceutical Refrigerator (2-8°C)
- Analytical Balance

### **D. List of Documents being used**

- Bio-repository Consent Form
- Histo-pathology Requisition Form
- Discharge Summary/Medical History
- MITR Clinical Data Form

### **E. Documentation: Electronic Data Captured via CloudLIMS**

- Demographic details
- Samples (Tissue/Plasma) details
- Storage of MITR samples
- Loading of scanned documents (Consent form, Histo-pathology Requisition form, MITR Clinical Data Form & Discharge Summary)

### **F. Current Department Involved**

- Parathyroid Tissue
- Ca Breast Tissue
- Gastrointestinal (Colo-rectum, pancreas)
- Urology Team – (Prostate, Kidney, Urinary Bladder)
- Future: Gall Bladder, Lung ....others!

### **G. Regulatory Approval Process**

- Turnaround Time by Ethics Committee, Submission and Approval: Approx. 1.5 Months
- Approval from the Medanta Institutional Ethics Committee (MIEC) will be needed for the repository proposal as well as for the research proposals in the future that will use the stored samples.
- Approval of the sample and data sharing by the Repository Committee will be needed to the investigators other than collectors

