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STR-NCCS-Satellite Tissue Bank

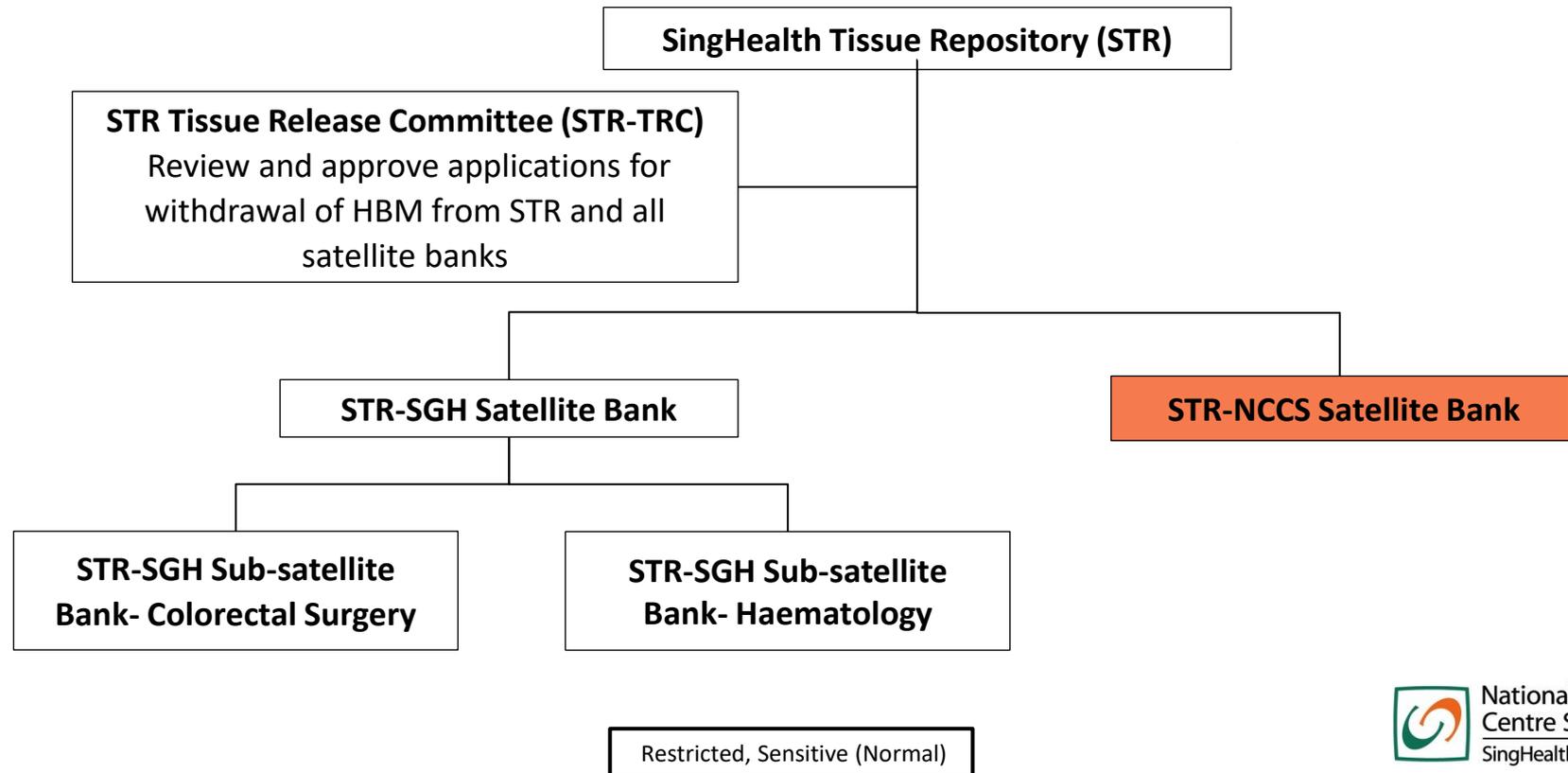


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Introduction to STR-NCCS Tissue Bank

- SingHealth Tissue Repository supports the collection and storage of samples for future research for the SingHealth cluster.



Principles of Tissue Banking

- According to the Human Biomedical Research Act, tissues collected for future research is required to be banked with Tissue Banks.

When is an entity considered a TB?

Scenario 1: Where researcher is considered a TB

A researcher **intends to collect 10 ml of blood** – 5 ml of blood would be used for his/her own current HBR **while the other** 5 ml of blood would be stored for **future research studies** (i.e. collection of **additional** blood).

The researcher would be considered to be conducting tissue banking activities not just for his/her own IRB-approved HBR and **would need to be a TB or come under the supervision and control of a TB.**

Scenario 2: Where researcher is not considered a TB

A researcher **intends to collect 10 ml of blood** – the entire 10 ml was intended to be used in his/her own current HBR; however he/she only used 5 ml in the research and the other 5 ml was **leftover**. The researcher decides to use the leftover blood for his/her other own IRB-approved HBR.

The researcher would be considered to be conducting tissue banking activities just for his/her own IRB-approved HBR. Hence the researcher **would not need to be a TB or come under the supervision and control of a TB**, until he/she decides to supply the leftover blood to other researchers.

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Future* research alongside current research studies

- Cohort studies - study a particular disease
- Clinical Annotation/Event - 2 types of samples

Scheduled collection:



Sample collection

- Samples linked to ongoing/upcoming studies
- Example: Lung, Colorectal, HNSCC, Lymphoma

Unscheduled Collection:



Banked for future research

- Staged Analyses (pending initial results or availability of assay platforms)
- Future Research (pending emerging literature, technologies)
- Future collaborations
- BUILDS UPON initial research Cohort/research findings

“Future”*

pre-planned intent to layer on additional analyses on

but “what” analyses is determined in the future

type of analyses, population subset not yet determined, depends on findings, literature, networks &

“serendipity”/opportunity

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STR-NCCS Role in Biobanking

- STR-NCCS Satellite Tissue bank is a satellite tissue bank of STR which serves NCCS research.
- STR-NCCS-SB will bank samples
 1. Collected for future research
 2. Leftover samples from current research with proper consent for future research (Section 12 (2) HBRA)

When to use scheduled, unscheduled and accompanying collection

- Scheduled Collection: collecting HBM for IRB protocol only.
- Unscheduled collection: collecting specimens not linked to any study.
- Accompanying collection: enabling future research alongside current research studies
 - (additional samples for future research analyses that are not yet pre-defined) for patients in current cohorts.

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Catalogue of HBM within NCCCS

- STR-NCCCS aims to build a comprehensive, well-annotated catalogue of all HBM available within NCCCS will allow us to form linkage between HBM used for current research and future research.
- This will allow for synergy between current and future research. This allows for future research to build upon current research.

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Informed Consent

- STR Broad Consent Form
 - Allows for researchers to collect HBM for future research
 - Covers all 12(2) elements of HBRA
 - Can be used prospectively to collect informed consent for leftover samples
 - Can be used to collect additional HBM (these samples will come under STR custody)
- IRB Consent Form
 - Used for collection of HBM for current IRB Studies
 - If 12(2) elements of HBRA are present, the informed consent can be used for future research.
 - HBM will remain under PI custody until the HBM are donated to STR-NCCS.

Responsibility of Researcher

- Inform STR-NCCS for any NCCS studies that are using STR broad consent form to take consent for future research.
- Inform STR-NCCS for any NCCS studies with intention to bank leftover samples with STR-NCCS at end of study.

Accompanying Collection

- Accompanying collection can refer to
 - Additional HBM collected on top of samples collected for IRB approved studies
 - Leftover HBM from IRB approved studies transferred to STR-NCCS
- These HBM are under custody of STR-NCCS and are subjected to audits by ORIC and MOH.
 - HBM if stored with researchers will be subjected to audit by STR-NCCS to ensure proper storage conditions and track usage of these HBM.
 - To use these HBM, a withdrawal request for the HBM will need to be made to STR-NCCS.

STR-NCCS-SB Costing

- Researchers requesting STR-NCCS-SB services will be given a quote based on the latest STR-NCCS-SB costing.
 - Available services include:
 - Storage of HBM at STR-NCCS facility
 - Transfer of HBM to STR for biobanking
 - HBM request and withdrawal
- For services done by STR, the costing will be based upon the STR costing.