

Scripps Clinic Bio-Repository & Bio-Informatics Core (SCBBC)

SCBBC PERSONELL

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TBD

The SCBBC consists of the Scripps Clinic Bio-Repository, which offers collected, categorized and clinically documented biological samples, and the Scripps Clinic Bio-Informatics Core, which provides numerous analytic tools and services for individualized research studies.

Staff are available for study specific consultations.

[Study Protocol IRB-14-6499](#)

SCBBC

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- **Bio-Repository:** Serves as a procurement processing and storage resource for the centralized banking of blood, bio-fluids and tissue specimens procured from patients with malignancies and diseases or normal controls. All malignant samples will be accompanied by clinical and pathological data. All samples are stored in accord with the International Society of Biologic and Environmental Repositories (ISBER) Best Practices and specific protocol defined sample parameters.

Beyond simply serving as a repository of blood, tissue and bio-fluids, the Bio-Repository is be a shared resource of samples that will be made available to researchers and other collaborators approved by the SCBBC Oversight Committee.

- **Bio-Informatics:** Provides data management and analysis services for SCMG and SH investigators, as well as for external researchers/collaborators. We offer scientific support to assist in the planning, collection, analysis, integration and dissemination of biomedical data and knowledge. Projects will often vary in time and cost depending on the scientific goals of the work, and the desired level of detail.

Our goal is to use existing software & tools developed by the group, along with open source software, to support science in a cost-effective manner. We have expertise in analyzing data and building tools across many different scientific areas.

The main focus area centers on Next-Generation Sequencing (NGS) and RNA Microarrays. Additionally, statistical data analysis on primary data and downstream functional analyses are available.



Services Available

- **Bio-Repository**

- I. Sample Collection:**

- Blood
 - Tissue
 - Urine
 - Stool
 - Saliva

- II. Sample Processing:**

- Whole Blood
 - Plasma
 - Serum
 - MNCs
 - Urine (Pellet & Supernatant)
 - Stool

- III. Sample Storage & Tracking:**

- -80°C Thermo Scientific Freezers (x3)
 - LN₂ Thermo Scientific CryoPlus Tank (Vapor Phase)
 - Freezerworks Sample Management Software (Biobanking information management system)

- IV. DNA/RNA Isolation:**

- QIAcube (Fully automated nucleic acid extraction with QIAGEN spin-column kits.)
 - Allows automated DNA, RNA and protein sample processing
 - Eliminates manual processing steps

- V. Individualized/Study Specific Data Collection & Entry**

- VI. Equipment & Laboratory Space:**

- Thermo Scientific 1300 Series A2 Class II Biological Safety Cabinet (with SmartFlow, Digital Airflow Verification and Night Set-Back mode)
 - Thermo Scientific Heraeus Megafuge (centrifuge)
 - Thermo Scientific Pico Microfuge
 - Thermo Scientific Lab-Line Waterbath
 - Thermo Scientific S1 Pipet Filler
 - Thermo Scientific F1-ClipTip Pipette's
 - CO₂ Incubator
 - 400 Sq Feet Communal Laboratory Space



