Komen Tissue Bank -- Tissue Collection Event

Date created/revised: January 17, 2020 (pr)

Preferred Qualifications:

- experience working with human blood and tissue samples
- familiarity with Universal Precautions
- working knowledge of Sterile Technique

Laboratory Job Descriptions

Upon arrival, please choose your lab coat, eye wear and glove size.

Centrifugers

1. Blood tubes and matching cryovials are received from the runner and accessioned. Confirm that all tubes have matching barcode numbers and note blood draw time on spreadsheet.
2. Place the 2ml lavender top tube in the box marked for whole blood at RT.
3. **Plasma**-The 9ml purple top tubes are used for plasma collection. Immediately centrifuge a *BALANCED* group of tubes at 2000**rcf** for 15 minutes. When centrifugation is complete, give the spun tubes to plasma aliquoter. Note hemolysis on the spreadsheet.
4. **Serum**- The Tiger Top serum tube will have the time of the draw noted. Place a dot sticker on the lid of the tube and write the time that the tube should be centrifuged on the dot sticker. (45 min. ± 10 min. after the draw). At the appropriate time, centrifuge a *BALANCED* group of clotted serum tubes at 1200**rcf** for 10 minutes. When centrifugation is complete, give the spun tubes to serum aliquoter. Note hemolysis on the spreadsheet.

Aliquoters

1. **Plasma-** receive the spun tubes and matching cryovials from the centrifuger. Without disturbing the buffy coat layer, use a transfer pipet to transfer the plasma to a glass culture tube. Recap blood tube with undisturbed buffy coat and place into green tube box at RT. Using a repeater pipet, aliquot **750ul** of plasma into each of five labeled cryovials. Immediately place cryovials into the freezer box in the dry ice cooler.
2. **Serum-**receive the spun tubes from the centrifuger. Using a repeater pipet, aliquot **600ul** of serum into each of five labeled cryovials. Immediately place cryovials into the freezer box in the dry ice cooler.

Tissue Processer

1. Receive the tissue specimen cup from the runner. Confirm that the cup is barcode labeled. If not, send the runner back to the procedure room to get the barcode. (There will be a post-it on the tissue cup with the procedure room number on it.)
2. Carefully remove tissue cores from the cup. One core from each donor is weighed and fixed using the Paxgene fixation system. A second core is prepared for cryopreservation. The remaining cores are immediately snap frozen in liquid Nitrogen for 30-60 seconds and placed into chilled, prelabelled cryovials. Cryovials are then held in temporary LN_2 CryoPod carrier cryoboxes until scanned on site and transferred to LN2 vapor shippers for transport.