

Procedures for Pathochip Microarray Experiment for Tumor FFPE samples

Extraction of Tissue from Slides

Note: This is all done in the far tissue culture room in Hood number 3.

1. Wipe the surface of laminar flow with 70% ethanol.
2. For each tumor sample, 10 slides were provided, each containing 10 micron thickness of formalin fixed paraffin embedded (FFPE) tissues and 5 slides of 5 micron thickness of the same tissue for IHC study. One guide slide was provided in which the boundary of the tumor tissue is marked.
3. Place the guide slide on top of one of the 10 slides containing the sample. Using a marker, trace the outline of the tumor in the guide slide on the sample slide. (Trace on the other side of the sample slide so that the shape of the tumor is now marked on the back of the slide).
4. Using a sterile razor, (you can also bake them overnight in the oven prior to use), scrape off the excess wax outside the trace of the marked tumor sample. Do not scrape off the wax within the outline of the marker. That is your tumor sample.
5. Repeat step 3 and 4 for four more slides of the same 10 micron sample, for a total of five slides so that all of the excess wax is removed.
6. Throw away all the kim wipes with the excess wax. Spray down the area with 70% ethanol and place new kim wipes on the surface. Wipe the razor with 70% ethanol and carefully scrape off all of the tissue contained within the outline of the tumor and place it in a sterile 1.5 ml eppendorf tube and close cap.
7. Repeat step 6 for the remaining 4 slides per sample. Put the scraped tumor tissue from all the 5 slides per sample in the same eppendorf tube. Label the tube with the sample ID.
8. After you are done, throw away the glass slides in the white bucket and the kimwipes in the gray bucket. Wipe down your area again with 70% ethanol and repeat this procedure for how many samples you wish to extract that day.

Stack and tape the remaining slides of each sample (5 slides of 10 micron thickness tumor tissue and 5 slides of 5 micron thickness tumor tissue.) with the guide slide on top after you have finished scraping 5 slides for each sample.