**How to embed the tissues and cut the paraffin blocks for histological analysis**

Leica Tissue Processor:

* Do not turn off, just press |STOP| the agitation
* Temp and program vary depend on the size of tissues
* |\_| 12 indicating that the tissue is in the last bucket = done
  + Turn the agitator off by press |STOP|
  + 
  + Take the bucket out, dump the blocks into the embedding chamber
  + Leave the bucket in the hood out side the machine
  +  & |STOP|
  + Close the door of the machine
  + Lower the sash of the hood

Leica Embedding Apparatus (Leica EG1150H)

* Embedding chamber that are filled with the paraffin: set temp = 60-65°C
* Bed = 55°C
* Paraffin spout = 70°C

Embedding molds

* Fisher disposable base molds:
  + Big one: 15x15x5 mm Cat# 22-363-553
  + Medium one: 7x7x5 mm Cat# 22-363-552
* These mold can be reused
* Leave the mold on the cooler for at least 2 hours, before pop the blocks off the mold

Leica Microtome (Leica RM2245)

* Before you do it, turn on the water bath, set temp @ 38°C – don’t need to clean every time.
* Can use the kimwipe to wipe off the dust on the surface of the water before starting
* Turn on the switch on the back of the microtome.
* The blocks can be chilled before cutting, this may help with the wrinkle of the sections
* If the block size is too big, you can trim the block.
* Trim the block – 30 μm (when you turn this feature off, it’s still cut another 30 μm after you turn it off)
* Clean the medal part with 95% Alcohol (the receiving part after you cut)
* Cut tissues ~5-6 μm around 6-7 sections as a ribbon
* Use 2 wooden sticks to break the sections apart on the metal plate (receiving part after cut) maybe easier than breaking them on the water bath surface
* Face the bottom side onto the water surface, don’t flip the section, it will get wrinkle.
* If needed to break the sections on the water surface, use the tip of the metal forceps to break them apart… very gently
* Small size blocks tend to wrinkle less
* Lock the handle when you are not cutting
* Clean the machine with brush with you are done

\*\*\*If the tissues fall off of the slides when do the IHC, try to use the fresh or new charged slide when cut. Tissues will stick better on the newer charged slide… lose the charges when old