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Tissue biopsy FFPE preparation

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We use this protocol and it's working

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Abstract

Creating human tissue FFPE block from excisional biopsy, and sectioning to create H&E slides.

Troubleshooting

Tissue biopsy collection

- 1 Take excisional biopsy of human skin in abdomen or scalp
- 2 After excisional biopsy from a operating room (OR), place the skin tissue into a tissue container prefilled with buffered formalin for 12-24 hours at room temperature (RT)
- 3 Discard formalin, rinse with PBS, refill PBS, and leave the tissue in PBS for 1 minute
- 4 Take tissue out on a large Petri dish and measure the tissue size
- 5 Label a slotted cassette with a pencil with tissue ID and place the tissue in the cassette
- 6 Put cassette with the tissue back into the tissue container filled with PBS

Paraffin Embedding

- 7 Dehydrate tissue by submerging cassettes into ethanol at increasing concentrations from 70% to 99%.
- 8 Embed cassette paraffin at 60 deg C and store at room temperature

FFPE sectioning

- 9 Section tissue and place on water bath to expand
- 10 Place expanded tissue section on a Superfrost Plus microscope slide

H&E stain



11 Stain with Hematoxylin and Eosin

12 Place coverslip