Tissue Preparation for Paraffin Embedding

- 1. Disect desired tissue and immersion fix in 3.75% paraformaldehyde (EM grade), 1X PBS (Mg & Ca free) overnight at 4°C (if left longer than o/n at 4°C, epitopes may be lost)
 - -heat PBS (atleast 55°C), add PFA while stirring into solution, 0.4 μm filter, cool to 4°C on ice.
 - -this is a convenient state for shipping (FedEx o/n on wet ice), or wait until tissues are embedded (end of step #4)
- 2. Rinse tissues briefly in 1X Mg- Ca-free PBS
- 3. Place tissues in embedding cassettes (if tissue is skin, place gauze or small sponge on top of tissues to eliminate curling)
- 4. Process embedding cassettes through graded alcohols to xylene with constant stirring

start tii	me
	30 min 30% ETOH @ RT
	30 min 50% ETOH @ RT
	30 min 70% ETOH @ RT **Convenient stopping point; place at 4°C up to several days
	60 min 80% ETOH @ RT
	60 min 95% ETOH @ RT
	60 min 95% ETOH @ RT
	60 min 100% ETOH @ RT
	60 min 100% ETOH @ RT
	60 min 100% ETOH Highest grade
	45 min Xylene in hood @ RT
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	45 min Xylene in hood @ RT
	60 min 55°C paraffin in vacuum oven (stirring not necessary)
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	Equilibrate cassettes/tissues in embedding paraffin for 30 min if different from
	processing paraffin

Embed in paraffin blocks paying attention to orientation, leave border of paraffin around tissues

Cool blocks slowly to avoid cracking.

- 5. Cool blocks to -20°C prior to cutting 5µ sections
- 6. Let sections dry @ RT o/n prior to analysis.