

Materials List for:

Quantifying Branching Density in Rat Mammary Gland Whole-mounts Using the Sholl Analysis Method

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URL: <https://www.jove.com/video/55789>

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Materials

Name	Company	Catalog Number	Comments
Dissecting board	NA	NA	A piece of styrofoam roughly 10"x12" is suitable.
Dissecting T-Pins	Daigger	EF7419A	
Spray bottle with ethanol	NA	NA	70% ethanol is suitable.
Curved dissecting scissors	Fine Science Tools	14569-09	
Straight dissecting scissors	Fine Science Tools	14568-09	
Curved forceps	Fine Science Tools	11003-12	
Superfrost Plus 24 x 75 x 1 mm microscope slides	ThermoFisher Scientific	4951PLUS-001	Thermo Scientific Superfrost Plus & Colorfrost Plus slides hold tissue sections on permanently without the need for expensive coatings in IHC and Anatomical Pathology applications. This treatment reduces tissue loss during staining as well as hours of slide preparation. Slides electrostatically attract frozen tissue sections and cytology preparations and feature a chemistry similar to silane, although optimized to improve application performance. https://www.thermofisher.com/order/catalog/product/4951PLUS4 .
Fisherfinest Premium Cover Glass 24 x 60 x 1 mm	Fisher scientific	12-548-5P	
Bemis Parafilm M Laboratory Wrapping Film	Fisher scientific	13-374-12	
Chloroform	Sigma-Aldrich	C2432	
Glacial acetic acid	Sigma-Aldrich	A9967	
Ethanol absolute, ≥99.8% (GC)	Sigma-Aldrich	24102	
Xylene	Sigma-Aldrich	214736	
Carmine alum	Sigma-Aldrich	C1022	
Aluminum potassium sulfate	Sigma-Aldrich	A6435	
Permout mounting media	Fisher Scientific	SP15	
Macroscope	Leica	Z16 APO	This is the image capturing hardware and software used in this laboratory. As there are many different options, the methods and applications may vary between laboratories.
Digital camera	Leica	DFC295	
Camera software	Leica	Leica Application Suite v3.1	

ImageJ software	Open source	http://imagej.net/Welcome	
Sholl analysis	Open source	http://imagej.net/Sholl_Analysis	