

Materials List for

A Sectioning, Coring, and Image Processing Guide for High-Throughput Cortical Bone Sample Procurement and Analysis for Synchrotron Micro-CT

Janna M. Andronowski¹, Reed A. Davis¹, Caleb W. Holyoke²

¹Department of Biology, The University of Akron ²Department of Geosciences, The University of Akron

Corresponding Author

Janna M. Andronowski
jandronowski@uakron.edu

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jove.com/video/61081

Materials

Name	Company	Catalog Number	Comments
1-1/8" plunge cutting carbide for composites	Warrior	61812	28.6mm plunge
70% Ethanol	Fisher Scientific	BP8201500	3.8 Liters
Blunt-tipped forceps	Fisher Scientific	10-300	
Centrifuge tubes	ThermoFisher	55398	
Crystalbond 509-3 Epoxy	Ted Pella	821-3	
CTAnalyser	Bruker microCT	v.1.15.4.0	Download and install at https://www.bruker.com/products/microtomography/micro-ct-software/3dsuite.html
Dental Tool Kit	Amazon	787269885110	
Diamond wafering saw blade for composite material	Buehler	#11-4247	
Drill Press	Jet Mill/Drill	350017	Model: JMD-15, benchtop drill presses are suitable substitutes, but typically lack a translatable machine table for positioning samples beneath the drill stem
Fine-tipped forceps	Fisher Scientific	22-327379	
Fixturing clamps for XY machine table for mill/drill	MSC Industrial Supply	#04804571	
Glass microscope slides	Ted Pella	26005	75x50mm slides, 1mm thick
Glass slide chuck	Buehler	#112488	Large enough to hold 75x50mm glass slides
Hot plate capable of reaching 140 °C	ThermoScientific	HP88850105	
Incubator	NAPCO	Model 4200	
Isocut Fluid	Buehler	111193032	Lubricant; 30mL
Jeweler's diamond coring drill bit	Otto Frei	#119.050	2mm inner diameter hollow stem coring bit

NRecon	Bruker microCT	v.1.6.10.2	Download and install at https://www.bruker.com/products/microtomography.html
Oscillating saw	Harbor Freight	62866	
Oven-safe glass dishes	Pyrex	1117715	Glass food storage container
Precision slow-speed saw (Isomet 1000)	Buehler	111280160	
Razor blades	Amazon	25181	
Shallow aluminum tins	Amazon	B01MRWLD0R	~8cm diameter
Specimen cups	Amazon	616784425436 885334344729	
Tergazyme detergent	Alconox	1304-1	1.8kg box
Ultrasonic cleaner	MTI Corporation	KJ201508006	