

Materials List for

Leveraging Micro-CT Scanning to Analyze Parasitic Plant-Host Interactions

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jove.com/video/63423

Materials

Name	Company	Catalog Number	Comments
3D X-ray microscope (XRM) system		Zeiss Versa 620	used to scan <i>Pyricularia pubera</i>
3D X-ray microscope + A2:D22	Zeiss	Versa 620	Used for scanning the species <i>P. pubera</i>
CT-Pro 3D software	Nikon	version XT 3.1.11	Used for three-dimensional reconstruction of scans
CT-Vox software	Bruker	version 3.3.1	Used for analyses and acquisition of images and videos
Dragonfly software	Object Research Systems - ORS	version	Used for analyses and acquisition of images and videos
Glass vials	Glass Vials Inc. SE	V2708C-FM-SP	Sold by VWR - USA; make sure that vials are able to withstand vacuum at ca. 10 psi
Inspect-X	Zeiss	version XT 3.1.11	Used for controlling the Nikon X-Tek HMXST225 system
Iodine solution 0.0282 N	WR Chemicals BDH	BDH7422-1	Sold by VWR - USA
Lead Nitrate II PA 500 g	Vetec	361.08	Sold by SPLab
Microtomography scanner	Bruker	Skyscan1176	Used for scanning the species <i>C. americana</i> , <i>S. martianus</i> , and <i>S. fungiforme</i>
Microtomography scanner	Nikon	X-Tek HMXST225	Used for scanning the species <i>V. minimum</i>
NRecon software	Bruker	version 1.0.0	Used for three-dimensional reconstruction
Phosphotungstic acid hydrate 3% in aqueous solution	Electron Microscopy Sciences	101410-756	Sold by VWR - USA
Plastic film (Parafilm)	Heathrow Scientific	PM996	Sold by VWR - USA
Plastic IV bag 500 mL	Taylor	3478	Sold by Fibra Cirurgica Produtos para Saude
PVC tubing 3/4"	Nalge Nunc International	SC63013-164	Sold by VWR - USA
Scanning system		Nikon X-Tek HMXST225	used to scan <i>Viscum minimum</i>
Scanning system		Bruker Skyscan 1176	used to scan <i>C. americana</i>

Scout-and-Scan™ software	Zeiss	version 16	Used for controlling the Zeiss Versa 620 system and for three-dimensional reconstruction of scans
Three-way valve	ToToT	DMTWVS-5	Sold by Amazon USA
Two-part syringe	HSW Henke-Ject	4850001000	Used without the plunger
Vacuum chamber	Binder	80080-434	Sold by VWR - USA; includes pump and connecting tubes
VG Studio Max software	Volume Graphics	version 3.0	Used for analyses and acquisition of images and videos