

Materials List for

# Nuclei Isolation and Super-Resolution Structured Illumination Microscopy for Examining Nucleoporin Alterations in Human Neurodegeneration

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jove.com/video/62789

## Materials

Name	Company	Catalog Number	Comments
50 mL conical tubes	Fisher Scientific	14-959-49A	
Beckman Ultracentrifuge	Beckman Coulter		
Cell Scrapers	Sarstedt	83.183	
Collagen	Advanced Biomatrix	5005	
Coverslips	MatTek	PCS-170-1818	
Cytofunnel	Thermo Fisher Scientific	A78710020	
Cytospin 4	Fisher Scientific	A78300003	
Dounce Homogenizers	DWK Life Sciences	357542	
DTT	Sigma Aldrich	D0632	
Eppendorf tubes	Fisher Scientific	05-408-129	
Goat Anti-Chicken Alexa 647	Thermo Fisher Scientific	A-21449	
Goat Anti-Mouse Alexa 488	Thermo Fisher Scientific	A-11029	
Goat Anti-Mouse Alexa 568	Thermo Fisher Scientific	A-11031	
Goat Anti-Mouse Alexa 647	Thermo Fisher Scientific	A-21236	
Goat Anti-Rabbit Alexa 488	Thermo Fisher Scientific	A-11034	
Goat Anti-Rabbit Alexa 568	Thermo Fisher Scientific	A-11036	
Goat Anti-Rabbit Alexa 647	Thermo Fisher Scientific	A-21245	
Goat Anti-Rat Alexa 488	Thermo Fisher Scientific	A-11006	
Goat Anti-Rat Alexa 568	Thermo Fisher Scientific	A-11077	
Goat Anti-Rat Alexa 647	Thermo Fisher Scientific	A-21247	
Hemocytometer	Fisher Scientific	267110	
Microscope Slides	Fisher Scientific	12-550-15	
Normal Goat Serum	Vector Labs	S-1000	
Nuclei PURE Prep Nuclei Isolation Kit	Sigma Aldrich	NUC201	Contains Lysis Buffer, 10% Triton X-100, 2 M Sucrose Gradient, Sucrose Cushion Solution, and

			Nuclei Storage Buffer; Referenced in protocol as "nuclei isolation kit"
PBS	Thermo Fisher Scientific	10010023	
PFA	Electron Microscopy Sciences	15714-S	
Prolong Gold Antifade	Invitrogen	P36930	Referenced in protocol as "hard mount antifade mounting media"
SW 32 Ti Ultracentrifuge Rotor	Beckman Coulter	369694	Referenced in protocol as "ultracentrifuge rotor"
Triton X-100	Sigma Aldrich	T9284	
Trypan Blue	Thermo Fisher Scientific	15-250-061	
Ultracentrifuge Tubes	Beckman Coulter	344058	
Nucleoporin Primary Antibodies			Primary antibodies suitable for immunofluorescent detection of individual nucleoporins are available from multiple companies