

Materials List for

Pipeline for Multi-Scale Three-Dimensional Anatomic Study of the Human Heart

Peter Hanna^{*1,2}, Shumpei Mori^{*1}, Takanori Sato¹, Shili Xu^{3,4,5}

¹University of California Los Angeles (UCLA) Cardiac Arrhythmia Center, UCLA Health System, David Geffen School of Medicine at UCLA

²Neurocardiology Program of Excellence, UCLA ³Department of Molecular and Medical Pharmacology, David Geffen School of Medicine at UCLA ⁴Crump Institute for Molecular Imaging, David Geffen School of Medicine at UCLA ⁵Jonsson Comprehensive Cancer Center, David Geffen School of Medicine at UCLA

* These authors contributed equally

Corresponding Author

Peter Hanna

phanna@mednet.ucla.edu

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jove.com/video/66817

Materials

Name	Company	Catalog Number	Comments
1x Phosphate buffered saline	Sigma-Aldrich	P3813	
3D Viewer	Microsoft		
647 AffiniPure Donkey Anti-Rabbit IgG	Jackson ImmunoResearch Laboratories	711-605-152	
647 AffiniPure Donkey Anti-Sheep IgG	Jackson ImmunoResearch Laboratories	713-605-147	
AF Micro-NIKKOR 200 mm f/4D IF-ED lens	Nikon		
Anti-Actin, α -Smooth Muscle - Cy3 antibody	Sigma-Aldrich	C6198	
Antigen Retrieval Buffer (100x EDTA Buffer, pH 8.0)	Abcam	ab93680	
Anti-PGP9.5 (protein gene product 9.5)	Abcam	ab108986	
Anti-TH (tyrosine hydroxylase)	Abcam	ab1542	
Anti-VACHT (vesicular acetylcholine transporter)	Synaptic Systems	139 103	
Benzyl ether	Sigma-Aldrich	108014	
Bovine serum albumin	Sigma-Aldrich	A4503-10G	
Cheetah 3D printer filament (95A), 1.75 mm	NinjaTek		
Coverslip, 22 mm x 30mm, No. 1.5	VWR	48393 151	
Cy3 AffiniPure Donkey Anti-Rabbit IgG	Jackson ImmunoResearch Laboratories	711-165-152	
Dichloromethane	Sigma-Aldrich	270997-100ML	
Dimethyl sulfoxide	Sigma-Aldrich	D8418-500ML	
Ethanol, 100%	Decon laboratories	2701	
Glycine	Sigma-Aldrich	G7126-500G	

GNEXT PET/CT	SOFIE Biosciences		
Heparin sodium salt from porcine intestinal mucosa	Sigma-Aldrich	H3149-50KU	
Histodenz	Sigma-Aldrich	D2158-100G	
Hydrogen peroxide solution	Sigma-Aldrich	H1009-500ML	
Imaging software	Zeiss	ZEN (black edition)	
Imaging software	Oxford Instruments	Imaris 10	
iSpacer	Sunjin Labs	iSpacer 3mm	
KIRI Engine	KIRI Innovation		
Laser scanning confocal microscope	Zeiss	LSM 880	
LEAD-2 - Vertical & Multi-channels Peristaltic Pump	LONGER		
Lightview XL	Brightech		
Methanol (Certified ACS)	Fischer Scientific	A412-4	
Nikon D850	Nikon		
NinjaTek NinjaFlex TPU @MK4	NinjaTek		
Normal donkey serum	Jackson ImmunoResearch Laboratories	017-000-121	
Original Prusa MK4 3D printer	Prusa Research		
PAP pen	Abcam	ab2601	
Paraformaldehyde, 32%	Electron Microscopy Sciences	15714-S	
Polycam	Polycam		
Primary antibody			
PrusaSlicer 2.7.1	Prusa Research		
SARA-Engine	pita4 mobile LLC		
Scaniverse	Niantic		
Secondary antibody			
SlowFade Gold Antifade Mountant	Invitrogen	S36936	
Sodium azide, 5% (w/v)	Ricca Chemical Company	7144.8-32	
SOMATOM Definition AS	Siemens Healthcare		
Standard Field Surgi-Spec Telescopes,	Designs for Vision		
Stereomicroscope System SZ61	OLYMPUS		
StereoPhoto Maker	Free ware developed by Masuji Suto		
Superfrost Plus Microscope Slides, Precleaned	Fisher Scientific	12-550-15	
Triton X-100	Sigma-Aldrich	T8787-50ML	
Tween-20	Sigma-Aldrich	P9416-100ML	
Xylene	Sigma-Aldrich	534056-4L	
Ziostation2	Ziosoft, AMIN		