

Materials List for:

Hemodynamic Characterization of Rodent Models of Pulmonary Arterial Hypertension

Zhiyuan Ma¹, Lan Mao¹, Sudarshan Rajagopal¹

¹Department of Medicine, Duke University Medical Center

Correspondence to: Sudarshan Rajagopal at sudarshan.rajabopal@dm.duke.edu

URL: <https://www.jove.com/video/53335>

DOI: [doi:10.3791/53335](https://doi.org/10.3791/53335)

Materials

Name	Company	Catalog Number	Comments
Vevo 2100 Imaging System (120V)	VisualSonics, inc.	VS-11945	
Vevo 2100 Imaging Station	VisualSonics, inc.		
High-frequency Mechanical Transducers	VisualSonics, inc.	MS250, MS550D, MS400	
Ultrasound Gel Parker	Laboratories Inc.	01-08	
PowerLab 4/35	ADInstruments	ML765	
Labchart 8	ADInstruments		
BP transducer with stopcock and cable	ADInstruments	MLT1199	
BP transducer calibration kit	ADInstruments	MLA1052	
Mikro-Tip Pressure Catheter for mouse	Millar	SPR-1000	Alternative catheter available from Scisense FT111B (mouse) and FT211B (rat)
Mikro-Tip Pressure Catheter for rat	Millar	SPR-513	Alternative catheter available from Scisense FT111B (mouse) and FT211B (rat)
Millar Mikro-Tip ultra-miniature PV loop catheter for mice	Millar	PVR-1035	Alternative catheter available from Scisense FT112 (mouse)
Millar Mikro-Tip ultra miniature PV loop catheter for rats	Millar	SPR-869	Alternative catheter available from Scisense FT112 (mouse)
Millar PV system MPVS-300	Millar	MPVS-300	
4-0 Silk Black Braid 100 Yard Spool	Roboz Surgical	SUT-15-2	
6-0 Silk Black Braid 100 Yard Spool	Roboz Surgical	SUT-14-1	
Iris Scissors, Delicate, Integra Miltex	VWR	21909-248	
VWR Dissecting Scissors, Sharp/ Blunt Tip	VWR	82027-588	
VWR Delicate Scissors, 4 1/2"	VWR	82027-582	
Two star Hemostats, Excelta	VWR	63042-090	
Neutral-buffered formalin	VWR	89370-094	
Crotaline	Sigma	C2401	
SU5416	Tocris Biosciences	3037	
3.5X-45X Boom Stand Trinocular Zoom Stereo Microscope	AmScope	SM-3BX	
PE (Polyethylene Tubing)-10	Braintree Scientific Inc	PE10 36 FT	
PE (Polyethylene Tubing)-50	Braintree Scientific Inc	PE50 36 FT	

PE (Polyethylene Tubing)-60	Braintree Scientific Inc	PE60 36 FT	
Tabletop Isoflurane Anesthesia Unit	Kent Scientific	ACV-1205S	
Surgisuite multi-functional surgical platform	Kent Scientific	Surgisuite	
Retractor set	Kent Scientific	SURGI-5002	
Anesthesia induction chamber	VetEquip	941443	
Anesthesia Gas filter canister	Kent Scientific	ACV-2001	
Rodent nose cone	VetEquip	921431	