

Materials List for

# Quantification of Mouse Heart Left Ventricular Function, Myocardial Strain, and Hemodynamic Forces by Cardiovascular Magnetic Resonance Imaging

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## Materials

Name	Company	Catalog Number	Comments
<b>Equipment</b>			
AccuSens single and multi-channel signal conditioner	Opsens solutions inc., Canada	ACS-P4-N-62SC	Used with fiber optic temperature sensor to monitor body temperature
Duratears eye ointment	Alcon Nederland B.V., Netherlands		
Mouse cell	Équipement Vétérinaire Minerve, France		referred to as mouse cradle
MR-compatible Monitoring & Gating System for Small animals	SA Intuments, Inc., United States	Model 1030	ERT Module (ECG/respiratory interface module) , ERT Control/ Gating Module, battery pack and subdermal ECG Electrode Set
MRI scanner	MR Solutions Ltd., United Kingdom	Model: MRS-7024	Preclinical MRI System 7.0T/24 cm
Multistation temperature control unit and High Flow PCA	Équipement Vétérinaire Minerve, France	Model: URT Multipostes	animal heating system
Respiration Sensor	Graseby Medical Limited, United Kingdom	Ref 2005100	
RF coil	MR Solutions Ltd., United Kingdom	MRS-MVC	38mm mouse volume RF coil for mouse body studies
SF flowmeter	flow-meter, Italy	SF 3	
Vaporizer sigma delta Intermed	Penlon Ltd., United Kingdom		
<b>Materials</b>			
Isoflurane	AST farma, Netherlands		
Vaseline petroleum jelly	Unilever, United Kingdom		
<b>Software</b>			
BART toolbox			<a href="https://mrirecon.github.io/bart/">https://mrirecon.github.io/bart/</a>

Mathematica 12.0	Wolfram Research, Inc., United States		
MATLAB 2019a	The MathWorks, Inc., United States		
MEDIS Suite MR	Medis Medical Imaging Systems B.V., Netherlands		Image analysis software
PC-SAM	SA Intuments, Inc., United States		
Preclinical Scan	MR Solutions Ltd., United Kingdom		Scanning software
Retrospective version 7.0	Amsterdam UMC, the Netherlands		Reconstruction software: <a href="https://github.com/Moby1971?tab=repositories">https://github.com/Moby1971?tab=repositories</a>