

Materials List for:

Visualization and Quantification of the Cell-free Layer in Arterioles of the Rat Cremaster Muscle

Yan Cheng Ng^{1,2}, Liam K. Fisher², Veena Salim², Sangho Kim^{1,2,3}, Bumseok Namgung²

¹NUS Graduate School for Integrative Sciences and Engineering, National University of Singapore

²Department of Biomedical Engineering, National University of Singapore

³Department of Surgery, National University of Singapore

Correspondence to: Bumseok Namgung at cienab@nus.edu.sg

URL: <https://www.jove.com/video/54550>

DOI: [doi:10.3791/54550](https://doi.org/10.3791/54550)

Materials

Name	Company	Catalog Number	Comments
Intravital microscope	Olympus	BX51WI	Equipment
High speed camera	Photron	1024PCI	Equipment
Blue filter	HOYA	B390	Equipment
Pressure sensor & biopac system	Biopac system	TSD104A, MP100	Equipment
Temperature controller	Shimaden	SR 1	Equipment
Plasma Lyte A	Baxter	NDC:0338-0221	Warm in 37 °C water bath before use
Saline 0.9%	Braun		
Heparin (5,000 IU/ml)	LEO		
PE-10 polyethylene tube	Becton Dickinson	427400	.024" OD x .011" ID
PE-50 polyethene tube	Becton Dickinson	427411	.038" OD x .023" ID
PE-205 polyethene tube	Becton Dickinson	427446	.082" OD x .062" ID
2-0 non-absorbable silk suture	Deknatel	113-S	
5-0 non-absorbable silk suture	Deknatel	106-S	
Water circulating heating pad	Gaymar		
Water bath	Fisher Scientific	Isotemp 205	Equipment
Sterile Cotton Gauze	Fisher Scientific	22-415-468	
Cotton-tipped applicators	Fisher Scientific	23-400-124	
Dumont Forceps	Kent Scientific	INS14188	Surgical instrument
Micro Dissecting forceps	Kent Scientific	INS15915	Surgical instrument
Iris forceps 1 x 2 teeth	Kent Scientific	INS15917	Surgical instrument
Vessel cannulation forceps	Kent Scientific	INS500377	Surgical instrument
Micro scissor	Kent Scientific	INS14177	Surgical instrument
Iris scissor	Kent Scientific	INS14225	Surgical instrument
Vessel clip	Kent Scientific	INS14120	Surgical instrument
Gemini cautery system	Braintree Scientific	GEM 5917	Surgical instrument