

Materials List for:

Ex vivo Live Imaging of Lung Metastasis and Their Microenvironment

Renske J.E. van den Bijgaart^{*1}, Niwen Kong^{*1}, Carrie Maynard^{1,2}, Vicki Plaks^{1,3}

¹Department of Anatomy, University of California

²Hubrecht Institute-Royal Dutch Academy of Science and University Medical Center Utrecht

³Department of Cell and Developmental Biology, Sackler Faculty of Medicine

*These authors contributed equally

Correspondence to: Vicki Plaks at vicki.plaks@ucsf.edu; vickiplaks@post.tau.ac.il

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Materials

Name	Company	Catalog Number	Comments
MMTV-PyMT/FVB mice	Jackson Laboratory	2374	Female mice
ACTB-EGFP/FVB mice	UCSF Werb lab		Female mice
c-fms-EGFP/FVB mice	UCSF Werb lab		Female mice
FVB mice	Jackson Laboratory	1800	Female mice
GFP+ VO-PyMT cells	UCSF Werb lab		
70,000 kDa Dextran, rhodamine-conjugated	Invitrogen	D1818	Dilute to 4mg/ml in 1 x PBS and store at -20 °C. Use 0.4 mg per animal.
10,000 kDa Dextran, Alexa Fluor 647 conjugated	Invitrogen	D22914	Dilute to 4mg/ml in 1 x PBS and store at -20 °C. Use 0.4 mg per animal.
Anti-mouse Gr-1 antibody Alexa Fluor 647	UCSF Monoclonal antibody core		Stock 1mg/ml. Use 7 ug per animal.
Anesthetic			Anesthesia approved by IACUC, used for anesthesia and/or euthanasia
1X PBS	UCSF cell culture facility		
PBS, USP sterile	Amresco INC	K813-500ML	Ultra pure grade for i.v. injection
Styrofoam platform			Will be used as dissection board
Fine scissors sharp	Fine Science Tools	14060-11	
Forceps	Roboz Surgical Store	RS-5135	
Hot bead sterilizer	Fine Science Tools	18000-45	Turn ON 30min before use
Air	UCSF		
Oxygen	UCSF		
Carbon dioxide	UCSF		
1 mL syringe without needle	BD	309659	
27 G x 1/2 needle	BD	305109	for i.v. injection
20 G x 1 needle, short bevel	BD	305178	
Low-melting-temperature agarose	Lonza	50111	To make 10 ml of solution, weigh 0.2 g of agarose, add to 10 ml 1 x PBS, and heat to dissolve. Agarose will solidify at room temperature, so maintain in a 37 °C water bath until used for inflation.
RPML-1640 medium without phenol red	Life Technologies	11835-030	

24 well Imaging plate	E&K scientific	EK-42892	
Glass cover slides, 15 mm	Fisher Scientific	22-031-144	
Digital CO2 and temperature controller	Okolab	DGTCO2BX	http://www.oko-lab.com
Climate chamber	Okolab		http://www.oko-lab.com
Cell Observer spinning disk confocal microscope	Zeiss		
Zen software	Zeiss		
Inverted microscope	Carl Zeiss Inc	Zeiss Axiovert 200M	
ICCD camera	Stanford Photonics	XR-Mega-10EX S-30	
Spinning disk confocal scan-head	Yokogawa Corporation	CSU-10b	
Imaris	Bitplane		
mManager	Vale lab, UCSF		Open-source software