

Materials List for

# An Orthotopic Resectional Mouse Model of Pancreatic Cancer

Tony C. Y. Pang<sup>1,2,4,5</sup>, Zhihong Xu<sup>1,2</sup>, Alpha Raj Mekapogu<sup>1,2</sup>, Srinivasa Pothula<sup>1,2</sup>, Therese M. Becker<sup>3</sup>, David Goldstein<sup>1</sup>, Romano C. Pirola<sup>1,2</sup>, Jeremy S. Wilson<sup>1,2</sup>, Minoti V. Apte<sup>1,2</sup>

<sup>1</sup>Pancreatic Research Group, South Western Sydney Clinical School, University of New South Wales <sup>2</sup>Ingham Institute for Applied Medical Research

<sup>3</sup>Centre for Circulating Tumour Cell Diagnostics and Research, Ingham Institute for Applied Medical Research <sup>4</sup>Surgical Innovations Unit, Westmead Hospital <sup>5</sup>Westmead Clinical School, University of Sydney

## Corresponding Authors

**Tony C. Y. Pang**

tony.pang@sydney.edu.au

**Minoti V. Apte**

m.apte@unsw.edu.au

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jove.com/video/61726

## Materials

Name	Company	Catalog Number	Comments
<b>Animals, Materials and Equipment for Implantation Procedure</b>			
AsPC-1 human pancreatic cancer cell line, luciferase tagged (luc+ gene from Promega PGL3 Basic plasmid)	American Type Culture Collection, Manassas, VA, USA		supplied by Professor Takashi Murakami, Saitama Medical University, Saitama, Japan
Autoclip wound clips, 9 mm	Becton Dickson Pty Ltd, North Ryde, NSW, Australia	500346	
Basic Dressing Pack	Multigate Medical Products Pty Ltd, Villawood, NSW, Australia		
Cancer associated human pancreatic stellate cells	Pancreatic Research Group cell bank		In house cell bank
Cryogenic tubes, 1.0 mL	Thermo Fisher Scientific Australia Pty Ltd, Scoresby, VIC, Australia	366656	
Disposable stainless-steel scalpel blade with handle, size 15	Livingstone International, Mascot, NSW,	SCP15	
Foetal bovine serum (FBS)	Life Technologies Corporation, Tullamarine, VIC, Australia	16000044	
Gilles fine tooth forceps 12 cm			Generic stainless steel microsurgical instrument set
Heated mats to maintain body temperature during surgery and postoperative recovery	Generic		
Homozygous athymic nude mice: Strain BALB/c-Fox1nu/Ausb, female	Australian Bioresources, Moss Vale, NSW, Australia		
Iscove's modified Dulbecco's medium (IMDM) with 4mM L-glutamine and no phenol red	Life Technologies Corporation, Tullamarine, VIC, Australia	21056023	
Jewellers forceps 11.5 cm			Generic stainless steel microsurgical instrument set
Micro needle holder (round handle) 15 cm straight			Generic stainless steel microsurgical instrument set

Micro scissors (round handle) 15 cm straight			Generic stainless steel microsurgical instrument set
Penicillin 10,000 U/mL, streptomycin 10,000 µg/mL	Life Technologies Corporation, Tullamarine, VIC, Australia	15140122	
Polyglycolic acid suture, size USP 5/0 on 13mm half-circle round-bodied needle	Braun Australia Pty Ltd, Bella Vista, NSW, Australia	C1049407	
Portable weighing scale	Precision balances, Bradford, MA, USA		
Reflex clip applier and clip remover	World Precision Instruments, Sarasota, FL, USA	500345	
Roswell Park Memorial Institute (RPMI) 1640 with phenol red and 300 mg/L Lglutamine	Life Technologies Corporation, Tullamarine, VIC, Australia	11875085	
Round bodied vessel dilator 15 cm, 0.1 mm tip			Generic stainless steel microsurgical instrument set
Trypsin 0.05%, EDTA 0.02%	Life Technologies Corporation, Tullamarine, VIC, Australia	25300054	For pancreatic stellate cells
Trypsin 0.25%, EDTA 0.02%	Life Technologies Corporation, Tullamarine, VIC, Australia	25200056	For ASPC-1 cells
U-100 insulin syringes, 0.5 mL with 29 G (0.33 mm) × 13 mm needle	Terumo Medical Corporation, Elkton, MD, USA		
<b>Equipment for Resection Procedure</b>			
Alm self-retaining retractor			Generic stainless steel microsurgical instrument set
Autoclip wound clips 9 mm	Becton Dickson Pty Ltd, North Ryde, NSW	500346	
Basic Dressing Pack	Multigate Medical Products Pty Ltd, Villawood, NSW, Australia	08-559NP	
Disposable stainless-steel scalpel blade with handle, size 15	Livingstone International, Mascot, NSW,	SCP15	
Gilles fine tooth forceps 12 cm			Generic stainless steel microsurgical instrument set
Hand-held high temperature fine tip cautery	Bovie Medical Corporation, Melville, NY, USA	AA01	
Heated mats to maintain body temperature during surgery and postoperative recovery	Generic		
IVIS Lumina II Bioluminescent Imaging Device	Caliper Life Sciences, Hopkinton, MA, USA		
Jewellers forceps 11.5 cm			Generic stainless steel microsurgical instrument set
Micro needle holder (round handle) 15 cm straight			Generic stainless steel microsurgical instrument set
Micro scissors (round handle) 15 cm straight			Generic stainless steel microsurgical instrument set
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Portable weighing scale	Precision balances, Bradford, MA, USA		
Reflex wound clip applier and clip remover	World Precision Instruments, Sarasota, FL, USA	500345	
Round bodied vessel dilator 15 cm, 0.1 mm tip			Generic stainless steel microsurgical instrument set
Titanium "Weck style" Ligaclip, small	HZMIM, Hangzhou, China		

Titanium Ligaclip applier for open surgery, small	HZMIM, Hangzhou, China		
Volatile anaesthetic machine, including vapouriser and induction chamber	Generic		Generic vapouriser and induction chamber
<b>Drugs for Procedures</b>			
70% w/w ethanol solution	Sigma-Aldrich Pty Ltd, Castle Hill, NSW, Australia		Applied topically as surgical skin preparation
Buprenorphine 0.3 mg/mL	Troy Laboratories Pty Ltd, Glendenning, NSW, Australia		Dose: 0.05 mg/kg s.c.
D-Luciferin (1 U/g)	PerkinElmer, Inc., Waltham, MA, USA	122799	diluted in PBS to 15 mg/mL. Dose: 150 mg/kg i.p.
Enrofloxacin 50 mg/mL	Troy Laboratories Pty Ltd, Glendenning, NSW, Australia		Dose: 5 mg/kg s.c.
Flunixin 50 mg/mL	Norbrook Laboratories Australia, Tullamarine, VIC, Australia		Dose: 2.5 mg/kg s.c.
Isoflurane	Zoetis Australia Pty Ltd., Rhodes, NSW, Australia		Dose (vapourised with oxygen): 4% induction, 3% maintenance
Ketamine 100 mg/mL	Maylab, Slacks Creek, QLD, Australia		Dose: 80 mg/kg i.p.
Povidone-Iodine 10% w/v solution	Perrigo Australia, Balcatta, WA, Australia	RIO00802F	Applied topically to the anterior abdomen as surgical skin preparation
Refresh eye ointment (liquid paraffin 42.5% w/w, soft white paraffin 57.3% w/w)	Allergan Australia Pty Ltd, Gordon, NSW, Australia		Applied to both eyes
Sodium chloride 0.9% w/v	Braun Australia Pty Ltd, Bella Vista, NSW, Australia	9481P	Dose: 900 µL s.c.
Water for injections BP	Pfizer Australia, Sydney, NSW, Australia		For dilution of drugs
Xylazine 20 mg/mL	Troy Laboratories Pty Ltd, Glendenning, NSW, Australia		Dose: 10 mg/kg i.p.