

# A Preclinical Human-Derived Autologous Gastric Cancer Organoid/Immune Cell Co-Culture Model to Predict the Efficacy of Targeted Therapies

Jayati Chakrabarti<sup>1</sup>, Vivien Koh<sup>2,3</sup>, Jimmy Bok Yan So<sup>2,4</sup>, Wei Peng Yong<sup>2,3</sup>, Yana Zavros<sup>1</sup>

<sup>1</sup>Department of Cellular and Molecular Medicine, University of Arizona, Tucson <sup>2</sup>National University Cancer Institute Singapore, National University Health System, Singapore <sup>3</sup>Cancer Science Institute of Singapore, National University of Singapore <sup>4</sup>Department of Surgery, Yong Loo Lin School of Medicine, National University of Singapore

\*These authors contributed equally

## Corresponding Authors

**Wei Peng Yong**

wei\_peng\_yong@nuhs.edu.sg

**Yana Zavros**

yzavros@arizona.edu

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## Materials

Name	Company	Catalog Number	Comments
12 well plate	Midwest Scientific	92012	
15 mL Falcon tube	Fisher scientific	12-565-269	
24 well plate	Midwest Scientific	92024	
30 µm filters	Miltenyi Biotec	130-041-407	
40 µm filters (Fisher Scientific)	Fisher scientific	352340	
5 mL round bottom polystyrene tubes	Fisher scientific	14956-3C	
50 mL Falcon tube	Fisher scientific	12-565-271	
Advanced DMEM/F12	Thermo Fisher Scientific	12634010	
AIMV	Thermo Fisher Scientific	12055091	Basal medium for PBMCs and DCs
Amphotericin B/ Gentamicin	Thermo Fisher Scientific	R-01510	
B-27 supplement	Thermo Fisher Scientific	12587010	
β-mercaptoethanol	Thermo Fisher Scientific	800-120	
Bone morphogenetic protein inhibitor (Noggin)	Peprtech	250-38	
Bovine Serum Albumin (BSA)	Sigma Aldrich	A7906	
Cabozantinib	Selleckchem	S1119	
Carboxyfluorescein diacetate succinimidyl ester (CFSE)	Biologend	423801	
Collagenase A	Sigma Aldrich	C9891	
Dulbecco's Phosphate Buffered Saline (DPBS)	Fisher scientific	14190-144	cell separation buffer
EasySep Buffer	Stem Cell Technologies	20144	Contains Enrichment Cocktail and Magnetic Particles used in CTL culture

EasySep Human CD8+ T Cell Enrichment Kit	Stem Cell Technologies	19053	cell separation magnet
EasySep Magnet	Stem Cell Technologies	SN12580	
EDTA	Sigma Aldrich	E6758	
Epidermal Growth Factor (EGF)	Peprtech	315-09	
Farma Series 3 Water Jacketed Incubator	Thermo Fisher Scientific	4120	
Fetal Calf Serum (FCS)	Atlanta Biologicals	SI2450H	
Fibroblast growth factor 10 (FGF-10)	Peprtech	100-26	density gradient medium
Ficoll-Paque	GE Healthcare	171440-02	
Gastrin 1	Tocris	30061	
Gelatin	Cell Biologics	6950	
GM-CSF	Thermo Fisher Scientific	PHC6025	
Hank's Balanced Salt Solution (HBSS)	Thermo Fisher Scientific	14175095	
HEPES (2-[4-(2-hydroxyethyl)piperazin-1-yl]ethanesulfonic acid)	Fisher scientific	BP299-100	
Human Epithelial Cell Basal Medium	Cell Biologics	H6621	
human serum AB	Gemini Bioscience	21985023	
Hyaluronidase Type IV-S	Sigma Aldrich	H3884	
Insulin-Transferrin-Selenium	Thermo Fisher Scientific	41400045	
Interleukin 1 $\beta$ (IL-1 $\beta$ )	Thermo Fisher Scientific	RIL1BI	
Interleukin 6 (IL-6)	Thermo Fisher Scientific	RIL6I	
Interleukin 7 (IL-7)	Thermo Fisher Scientific	RP-8645	
Kanamycin	Thermo Fisher Scientific	11815024	
L-glutamine	Fisher scientific	350-50-061	basement membrane matrix
Matrigel (Corning Life Sciences, Corning, NY)	Fisher scientific	CB40230C	
N-2 supplement	Thermo Fisher Scientific	17502048	
N-acetyl-L-cysteine	Sigma Aldrich	A7250	
Nicotinamide (Nicotinamide)	Sigma Aldrich	N0636	
PD-L1 inhibitor	Selleckchem	A2002	
Penicillin/Streptomycin	Thermo Fisher Scientific	SV3000	
Petridish	Fisher scientific	07-202-030	
Potassium chloride (KCl)	Fisher scientific	18-605-517	
Potassium dihydrogenphosphate (KH <sub>2</sub> PO <sub>4</sub> )	Fisher scientific	NC0229895	
prostaglandin E2 (PGE2)	Sigma Aldrich	P0409	
RPMI 1640	Thermo Fisher Scientific	11875119	
Sodium chloride (NaCl)	Fisher scientific	18-606-419	
Sodium hydrogen phosphate (Na <sub>2</sub> HPO <sub>4</sub> )	Fisher scientific	NC0229893	cell dissociation reagent
StemPro Accutase solution	Thermo Fisher Scientific	A1110501	
Transforming growth factor beta 1 (TGF- $\beta$ 1)	Thermo Fisher Scientific	7754-BH-005/CF	
Tumor necrosis factor $\alpha$ (TNF- $\alpha$ )	Thermo Fisher Scientific	PHC3015	
Vascular endothelial growth factor (VEGF)	Thermo Fisher Scientific	RVGEFI	
Y-27632 ROCK inhibitor	Sigma Aldrich	Y0350	