

Materials List for:

Coculture System to Study Osteoblast and Osteoclast Interactions in Prostate Cancer Progression to Hormone Resistance and Metastasis to Bone

Romina F. Amigo^{1,2}, Macarena A. Fariña¹, Nicolás A. Zuñiga¹, Marcelo A. Villagran³, Eileen M. McNerney¹, Sergio A. Onate¹

¹Molecular Endocrinology and Oncology Laboratory, Department of Medical Specialties, School of Medicine, Universidad de Concepción

²School of Health Sciences, Universidad San Sebastián

³Department of Biochemistry, Universidad Católica de la Santísima Concepción

Correspondence to: Sergio A. Onate at onatesa@gmail.com

URL: <https://www.jove.com/video/57708>

DOI: [doi:10.3791/57708](https://doi.org/10.3791/57708)

Materials

Name	Company	Catalog Number	Comments
Water-jacketed CO ₂ incubator	Autoflow	NU-8700E	37 °C
Flow Cytometer	BD Biosciences	23-13347-02 Accuri C6	Flow Cytometer Accuri C6
Centrifuge legend micro 21R	Thermo Scientific	TSO-M21	21R Model
Centrifuge eppendorf	Eppendorf	58040000323	Refrigerated Centrifuge 5803R
Confocal Microscopes	Olympus	IX81/IX81-ZDC	IX81 model
Neubauerchamber	Hirschmann	8020385	0.0025 mm ²
Micropipette	Pipetman Gilson	F144801; F123600; F1123602	P2; P20; P1000
Cryogenic vial	Corning	430488	2 mL
Tips	Biopointe	361-4050	1000 µL
Tips	Biopointe	351-4050	200 µL
Tips	Biopointe	332-4050	10 µL
Tube	Falcon	352097	15 mL
Tube	Falcon	352098	50 mL
Serological Pipettes	Falcon	53300-523	10 mL
Tissue Culture Dish	Corning	25382-428	100mm x 20 mm
Tissue Culture flask	Falcon	3013	25-cm ²
12 Well Format Tissue Culture Plates	Falcon	353043	22.1 mm Diameter Inserts
12 Transwell Format Tissue Culture Plates	Corning	3460-clear	12 mm Diameter Inserts
Eppendorf Tubes	Axygen	MCT-150-C	1.5 mL
RPML-1640 w/ 25mM Hepes, w/L- Glutamine	Corning	45000-414-1	1000 mL
DMEM High, w/o L-Glutamine & Sod.Pyr.	Corning	45000-326	1000 mL
RPML 1640, without L-Glutamine and without Phenol Red	HyClone, Thermo Scientific	SH30605.01	500 mL
Fetal bovine serum, USDA Certified	Corning	35-010-CV	500 mL
FBS (Charcoal Stripped Serum)	Corning	35-072-CV	50 mL
L-glutamine	Corning	45000-676	200mM Solution; 100 mL
Amphotericin B	Corning	45000-808	0.25mg/mL Solution; 100 mL
Penicillin Streptomycin	Corning	45000-652	10 mg/mL Solution; 100 mL
Gentamicine	Corning	45000-636	50 mg/mL; 100 mL

Dimethyl Sulfoxide	Sigma life Science	D4540-500ML	500 mL
PBS 1X	Corning	21-040-CVR	500 mL
0.25% trypsin	Corning	45000-664	2.21 mM EDTA, 1x; 100 mL
Ethanol absolute	Merck	200-578-6	
Flutamide	Sigma Life Science	F 9397	
Bicalutamide	Sigma Life Science	B9061	
Dihydrotestosterone	Sigma Life Science	D-077	
Paraformaldehyde	Sigma Life Science	p6148-500G	
Histone H3 pser10 + Propidium iodide Kit	Abcam	ab151282	
Bead 6 Peak flow citometer standarization	BD Biosciencies	653145	
Bead 8 Peak flow citometer standarization	BD Biosciencies	559123	
VECTASHIELD HardSet Antifade Mounting Medium with DAPI	Vector Laboratories	H-1500	
Bovine Serum Albumin - Fraction V	Rockland	BSA-50	
Triton x-100	Sigma Life Science	9002-93-1	
Antibody Androgen Receptor	Abcam	Ab 9474	
Antibody KAT13A/SRC-1	Abcam	Ab 2859	
Fluorescein (FITC) AffiniPure Goat Anti-Rabbit IgG (H+L)	Jackson ImmunoResearch	111-095-003	
Cy3 AffiniPure Donkey Anti-Rabbit IgG (H+L)	Jackson ImmunoResearch	711-165-152	
HumanHT-12 v4 Expression BeadChip Kit	Illumina	BD-103-0204	
MultiExperiment Viewer v4.9 (tm4MeV)	WebMeV	www.mev.tm4.org	Free software for statistic analysis