

Materials List for:

The Chick Chorioallantoic Membrane *In Vivo* Model to Assess Perineural Invasion in Head and Neck Cancer

Ligia B. Schmitd¹, Min Liu¹, Christina S. Scanlon¹, Rajat Banerjee¹, Nisha J. D'Silva^{1,2}

¹Periodontics and Oral Medicine, University of Michigan School of Dentistry

²Pathology, University of Michigan Medical School

Correspondence to: Nisha J. D'Silva at njdsilva@umich.edu

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Materials

Name	Company	Catalog Number	Comments
0.25% Trypsin-EDTA (1x)	Gibco	# 25200-056	
ACE light source	SCHOTT North America, Inc.		Used to transilluminate the eggs
CellTracker Green CMFDA fluorescent dye	Life Technologies	# C7025	Reconstitute 50µg in 20µL of DMSO and stock at -20°C. Use 1µL of stock solution/mL of culture medium.
CellTracker Red CMTPX fluorescent dye	Life Technologies	# C34552	Reconstitute 50µg in 40µL of DMSO and stock at -20°C. Use 1µL of stock solution/mL of culture medium
Cordless rotary tool	DREMEL	# 866	Used to drill the egg shell
DMEM (1x)	Gibco	# 11965-092	Dulbecco's Modified Eagle Medium
DMSO	Fisher Bioreagents	# BP231-100	Dimethyl Sulfoxide
Dumont # 5 fine forceps	Fine Science Tools (FST)	# 11254-20	Used to harvest DRG
Egg incubator	GQF Digital Sportsman	# 1502	Egg incubator equipped with automatic rotator, digital thermostat, temperature and humidity controls
Engraving cutter	DREMEL	# 108	Used to drill the egg shell
Extra fine Graefe forceps, curved	Fine Science Tools (FST)	# 11151-10	Used to graft DRG onto the CAM on day 8 and to harvest CAM tissue on day 17
Extra fine Graefe forceps, straight	Fine Science Tools (FST)	# 11150-10	Used to graft DRG onto the CAM on day 8 and to harvest CAM tissue on day 17
Fertilized Lohmann White Leghorn eggs			Fertilized eggs at early fertilization days, preferably on first day post-fertilization. Eggs used in this protocol are from Michigan State University Poultry Farm.
Filter Forceps	EMD Millipore	# XX6200006P	Blunt forceps used to remove the egg shell
Fine surgical straight sharp scissor	Fine Science Tools (FST)	#14060-09	Used to harvest the CAM tissue on day 17
HBSS (1x)	Gibco	# 14025-092	Hank's Balanced Salt Solution
HI FBS	Gibco	# 10082-147	Heat-inactivated Fetal Bovine Serum
Paraffin wax membrane	Parafilm laboratory film	# PM-996	Used to temporarily cover the egg openings until DRG grafting on day 8

PBS (1x) pH 7.4	Gibco	# 10010-023	Phosphate Buffered Saline
Pen/Strep	Gibco	# 15140-122	10,000 Units/mL Penicilin, 10,000 µg/mL Streptomycin
PFA (paraformaldehyde solution)	Sigma-Aldrich	# P6148-1KG	Dilute in water to make a 4% PFA solution
Sprague Dawley rats (females)	Charles River laboratories	Strain code: 001	6-7 weeks old (190-210g in weight)
Tegaderm Transparent Film Dressing	3M	# 9505W	Sterile, 6x7cm, used to cover the egg openings during incubation