

Materials List for:

## Using Cell-substrate Impedance and Live Cell Imaging to Measure Realtime Changes in Cellular Adhesion and De-adhesion Induced by Matrix Modification

Martin D. Rees<sup>1</sup>, Shane R. Thomas<sup>1,2</sup>

Correspondence to: Martin D. Rees at m.rees@unsw.edu.au, Shane R. Thomas at shane.thomas@unsw.edu.au

URL: https://www.jove.com/video/52423

DOI: doi:10.3791/52423

## **Materials**

Name	Company	Catalog Number	Comments
96 well gold cell-substrate impedance microelectrode array	ACEA Biosciences / Roche	E-Plate 96	single-use plate used for performing cell-based assays on the xCELLigence system
blebbistatin	Sigma	B0560	selective inhibitor of non-muscle myosin-II
Bovine Aortic Endothelial Cells, cryopreserved	Lonza	BW-6001	
Bovine serum albumin	Sigma	05470	
EGM-2 BulletKit	Lonza	CC-3162	endothelial cell growth media kit
Fibronectin, lyophilized powder	Sigma	F-4759	from bovine plasma
Fluorodish 35 mm glass-bottomed cell culture dish	World Precision Instruments	FD35-100	Cell cuture dish with optical quality glass bottom for imaging
Gelatin from bovine skin	Sigma	G9391	cell culture substratum
Hank's Balanced Salt Solution	Life Technologies	14025076	
Hydrogen peroxide	Merck	107298	
Medium-199	Life Technologies	11150-059	serum-free cell media
Methionine	Sigma	M9500	quenches chlorinating oxidants generated by myeloperoxidase
Myeloperoxidase, Human Polymorphonuclear Leukocytes	Millipore	475911	
RTCA MP Instrument / xCELLigence cell substrate impedance system	ACEA Biosciences / Roche		Consists of RTCA Analyzer, RTCA (Multiple Plate) MP Station and RTCA Control Unit
Trypsin-EDTA (0.5%)	Gibco	15400-054	

<sup>&</sup>lt;sup>1</sup>Centre for Vascular Research, University of New South Wales

<sup>&</sup>lt;sup>2</sup>School of Medical Sciences, University of New South Wales