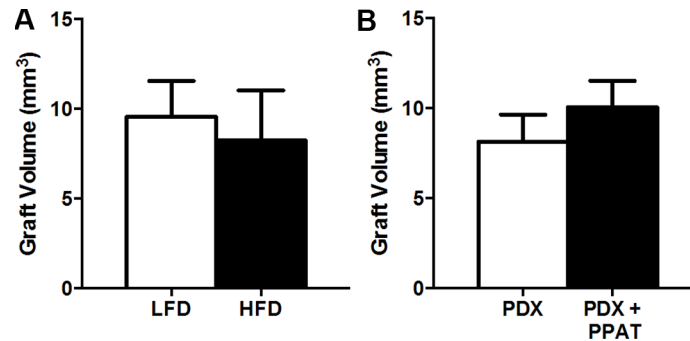
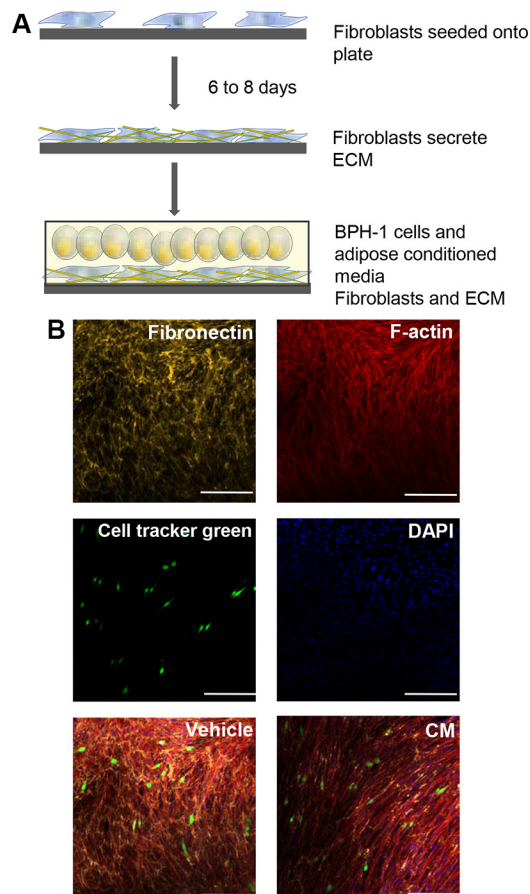


## Obesity does not promote tumorigenesis of localized patient-derived prostate cancer xenografts

### Supplementary Materials



**Supplementary Figure S1: Graft volume of PDXs.** Graft volumes of harvested PDXs obtained from mice. (A) LFD vs. HFD ( $n = 3$  patients per group) and (B) PDX alone vs. PDX + PPAT ( $n = 3$  patients per group). Data are shown as mean  $\pm$  SEM.



**Supplementary Figure S2: Establishment of the cellularized matrix in 3D co-culture model.** (A) Schematic representation of the co-culture model. Human primary stromal fibroblasts (normal prostatic fibroblasts) are plated and allowed to produce naturally occurring extracellular matrix proteins over 6–8 days. BPH-1 cells stained with cell tracker green dye are then culture on the stromal – matrix layer for 24 hours. PPAT condition media is added to the culture wells. (B) Immunofluorescent labelling of 3D co-culture components. Fibronectin staining of extracellular matrix secretions, immunofluorescent labelling of F-actin in fibroblasts, BPH-1 cells labelled with cell tracker green and DAPI staining of cell nuclei. Composite image of BPH-1 cells co cultured on cellularised matrix in vehicle media alone and with adipose conditioned media. Images are representative of all co-cultured. Scale bar = 50  $\mu$ m (B).

**Supplementary Table S1: Dietary information.** See Supplementary\_Table\_S1

**Supplementary Table S2: Details of primary and secondary antibody used for immunohistochemistry staining**

<b>Primary Antibody</b>	<b>Clone</b>	<b>Supplier</b>	<b>Species and isotype</b>	<b>Concentration used</b>
<b>AMACR</b>	13H4	DAKO	Rabbit IgG	0.55 µg/ml
<b>AR</b>	A9853	Sigma Aldrich	Rabbit IgG	2.0 µg/ml
<b>CK8/18</b>	NCL-L-5D3	Novocastra	Mouse IgG <sub>1</sub>	0.26 µg/ml
<b>ERG</b>	EPR3864	AbCAM	Rabbit IgG	3.26 µg/ml
<b>Ki-67</b>	MM1	Novocastra	Mouse IgG <sub>1</sub>	0.2 µg/ml
<b>MYC</b>	Y69	AbCAM	Rabbit IgG	0.19 µg/ml
<b>Nkx3.1</b>	-	Athena Enzyme Systems	Rabbit IgG	0.67 µg/ml
<b>p63</b>	-	AbCAM	Rabbit IgG	0.25 µg/ml
<b>PSA</b>	A0562	DAKO	Rabbit IgG	1 µg/ml
<b>PTEN</b>	-	Cell Signalling	Rabbit IgG	0.06 µg/ml