

An optimised patient-derived explant platform for breast cancer reflects clinical responses to chemotherapy and antibody-directed therapy

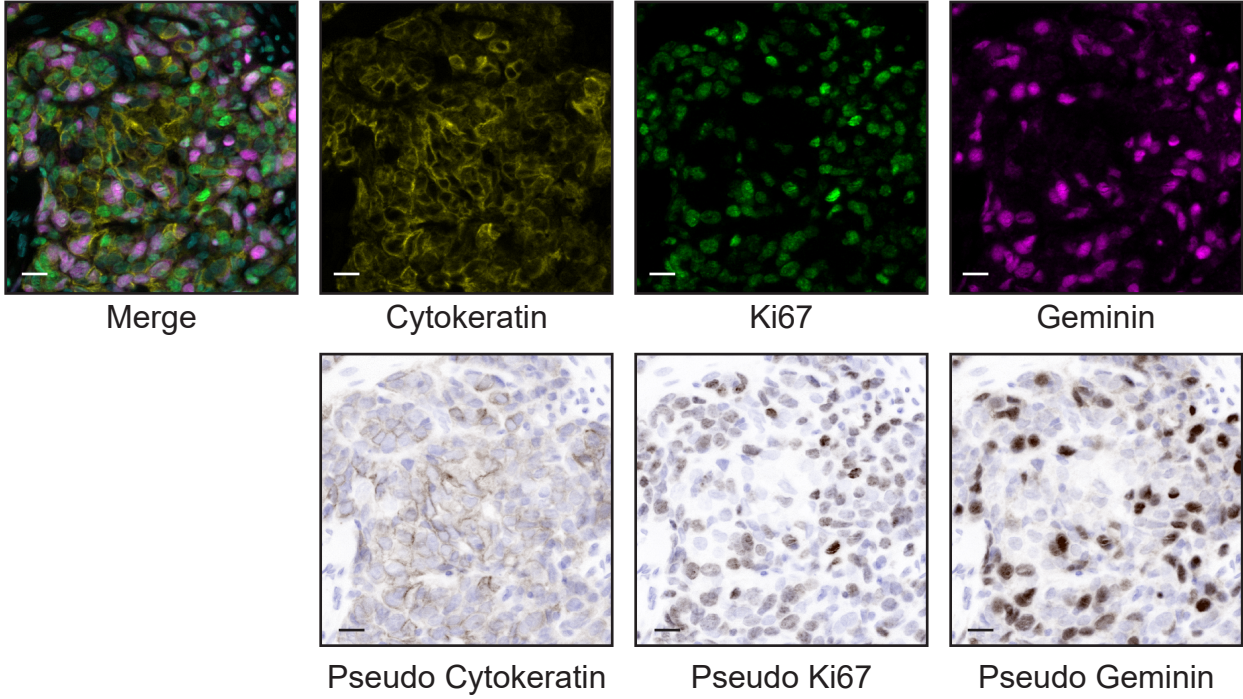
Constantinos Demetriou¹, Naila Abid¹, Michael Butterworth¹, Larissa Lezina¹, Pavandeep Sandhu¹, Lynne Howells¹, Ian R Powley¹, James Howard Pringle¹, Zahirah Sidat², Omar Qassid^{1,3}, Dave Purnell³, Monika Kaushik⁴, Kaitlin Duckworth⁴, Helen Hartshorn⁴, Anne Thomas¹, Jacqui A Shaw¹, Marion MacFarlane^{5,6*}, Catrin Pritchard^{1*}, Gareth J Miles^{1*}

Additional File 8: Ki67 and Geminin changes in BC-PDEs in response to FET

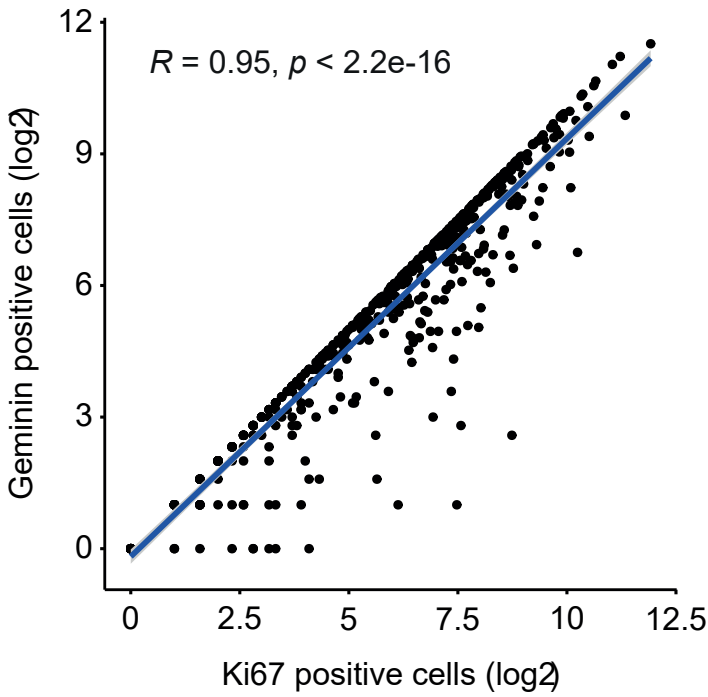
A, whole slide Ki67, cytokeratin and Geminin mIF-stained sections of BC-PDEs derived from 37 patients were digitised using the Vectra Polaris. Captured images were used to generate pseudo-DAB images of cytokeratin, Ki67 and Geminin using PhenoChart. Scale bar represents 20 μm . Images were then analysed in InForm to identify Geminin+ve and Ki67+ve cells. **B**, Correlation between the number of Ki67 positive cells and Geminin positive cells in BC-PDEs. Each dot represents a single explant, derived from either control or FET-treated samples. 560 BC-PDEs were used for this analysis **C**, Correlation between fold change Ki67 and fold change geminin with respect to control, in FET treated BC-PDEs, each dot represents the median values for all PDEs derived from a given patient. Correlations are Pearson's rank test where $p < 0.05$ is considered significant.

Additional File 8

A



B



C

