Figure S1. Estrogen receptors. (A) Negative IHC staining in a young IBC patient (original magnification x20). (B) Positive IHC staining in an old IBC patient (original magnification x20). IHC, immunohistochemistry; IBC, invasive breast carcinoma.
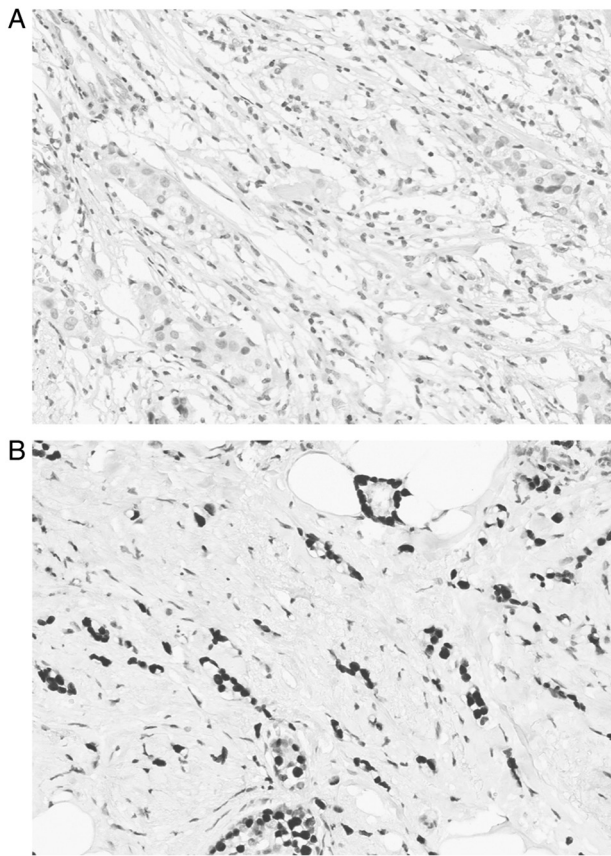
Figure S2. Progesterone receptors. (A) Negative IHC staining in a young IBC patient (original magnification x20). (B) Positive IHC staining in an old IBC patient (original magnification x20). IHC, immunohistochemistry; IBC, invasive breast carcinoma.
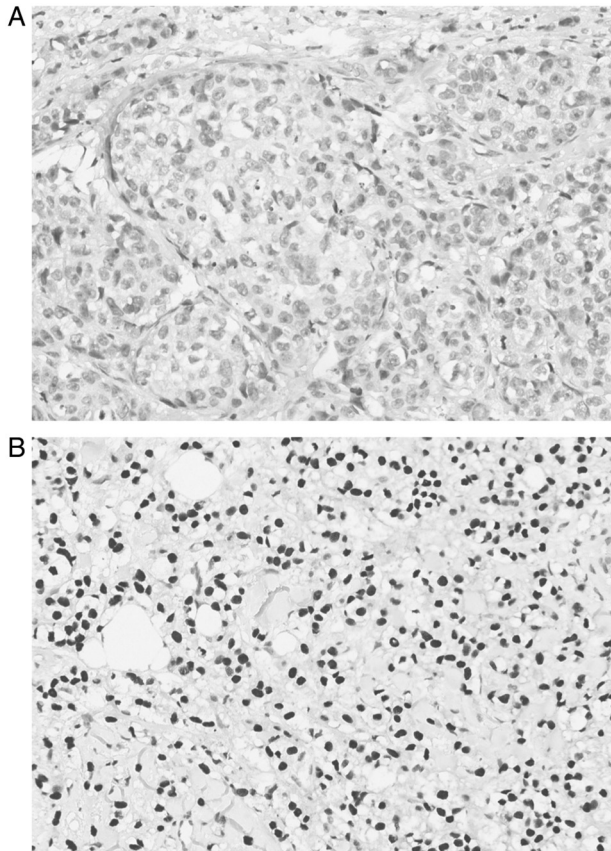
Figure S3. Ki67 index. (A) High Ki67 immunostaining in a young IBC patient (original magnification x20). (B) Low Ki67 immunostaining in an old IBC patient (original magnification x20). IHC, immunohistochemistry; IBC, invasive breast carcinoma.
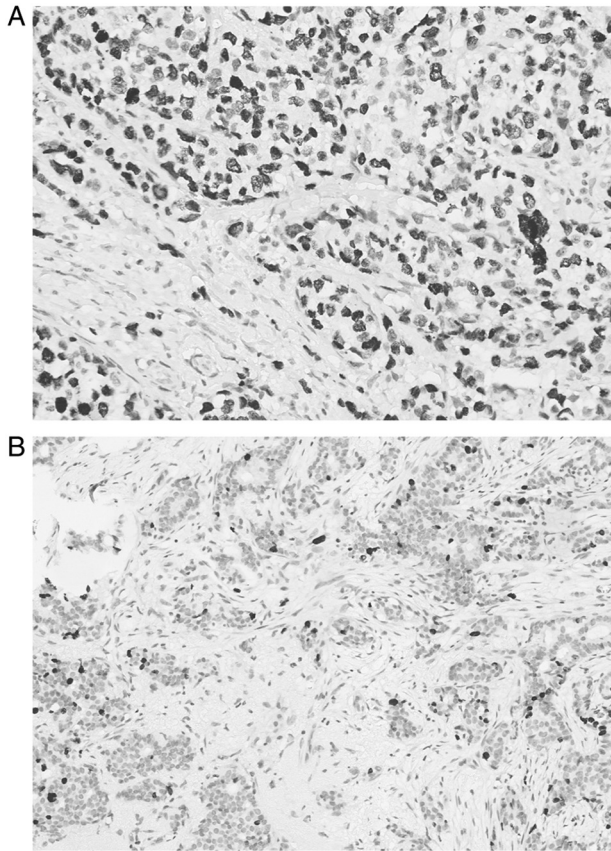
Figure S4. HER2 expression. (A) HER2 positive IHC overexpression (3+) in a young IBC patient (original magnification x20). (B) HER2 negative IHC expression in an old IBC patient (original magnification x20). IHC, immunohistochemistry; IBC, invasive breast carcinoma.
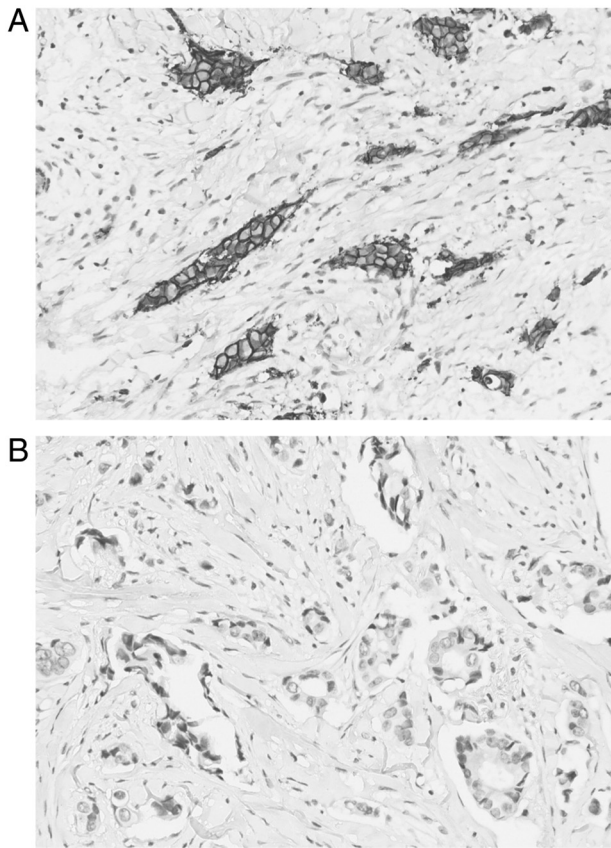
Figure S5. Representative flow cytometry histogram of a DNA aneuploid tumour with DI=1.3 (hyperdiploid) and high SPF (16.4%) in a young patient with IBC. IBC, invasive breast carcinoma; DI, DNA index; SPF, S-phase fraction.

19278.DAT MAMA–1000571   FL2

SL CL SO

ANEUPL. CYCLE
DATA

Mean G1 = 66.5
CV G1   = 6.3
% G1   = 71.7

Mean G2 = 134.0
CV G2   = 6.2
% G2   = 11.8

% S   = 16.4

G2/G1   = 2.015
% Tot   = 88.6
D.I.   = 1.298

DIPLOID PEAK

Mean   = 51.2
CV   = 5.5
% Tot   = 11.4

%B.A.D. = 11.0
% Agg. = 8.4
Chi Sq. = 1.1

MULTICYLE 05/03/05
33063 CELLS %DEBRIS:9.9
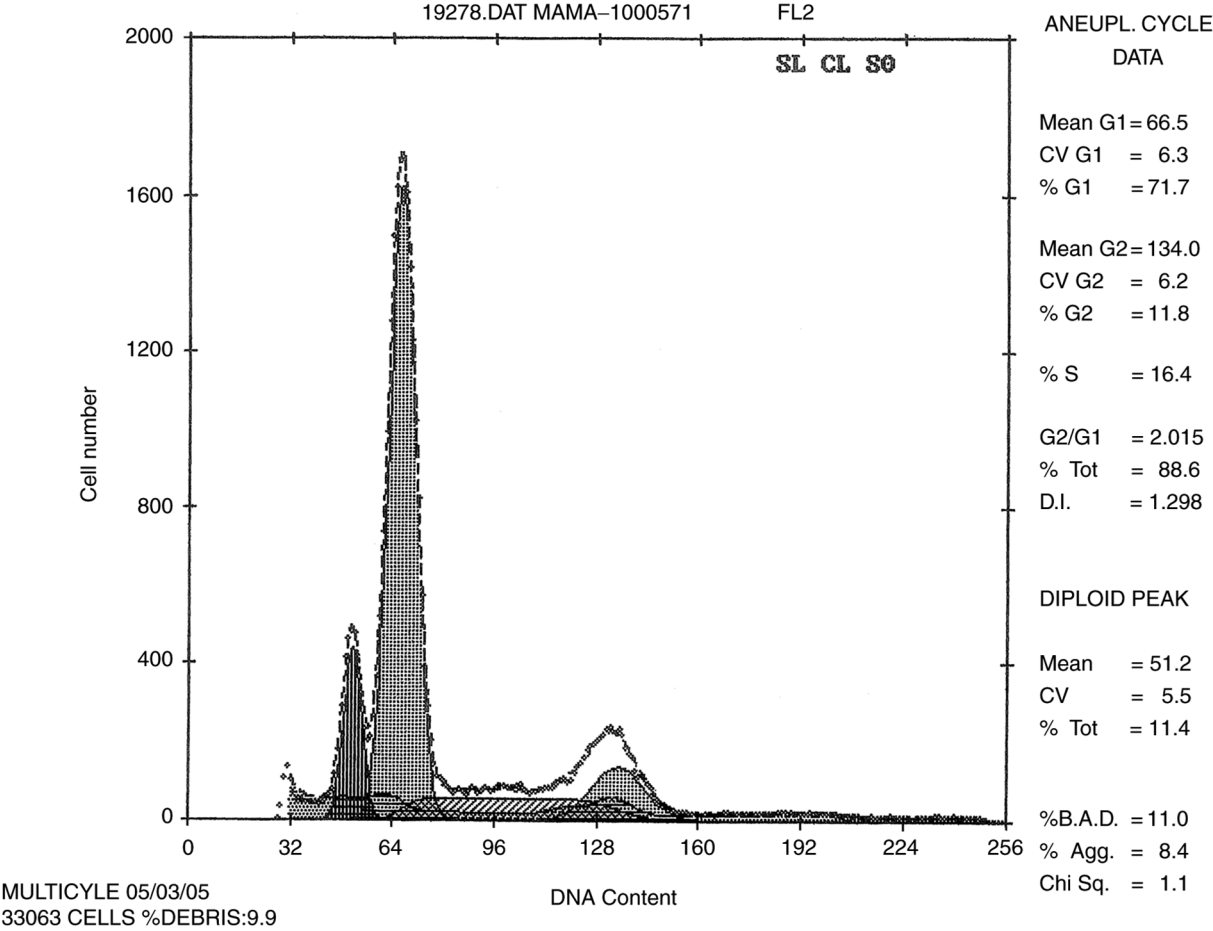
DNA Content

Cell number

Figure S6. Representative flow cytometry histogram of a DNA diploid tumour with low SPF (2.4%) in an old patient with IBC. IBC, invasive breast carcinoma; DI, DNA index; SPF, S-phase fraction.

19277.DAT MAMA-998145 FL2

SL CL S0

CELL CYCLE DATA

Mean G1= 54.9
CV G1 = 4.9
% G1 = 94.7

Mean G2= 105.1
CV G2 = 7.2
% G2 = 2.9

% S = 2.4

G2/G1 = 1.913

%B.A.D. = 5.3
% Agg. = 5.2
Chi Sq. = 2.2

Cell number

DNA Content

MULTICYLE 05/03/05
13787 CELLS %DEBRIS:B.5