

Data Key: CDP Breast Cancer Progression TMA (2nd Generation; Case Sets 3-8)

Column	Field	Options	Description
A	Row	1-16	Location of core on y-axis
B	Column	A-V	Location of core on x-axis
C	Case Type	Cell Line	Control
		DCIS	May be CIS from a patient with no invasive cancer or the DCIS component of an invasive cancer. In the latter case, the location of the invasive specimen from the same patient is given by the coordinates in column M.
		Invasive, node negative Invasive, node positive Invasive, distant mets	Primary invasive breast cancer specimens. In some cases, DCIS or normal breast tissue from the same case is represented on the array.
		Normal breast	May be normal breast tissue from an individual without breast cancer, or normal tissue adjacent to an invasive cancer. In the latter case, the location of the invasive specimen from the same patient is given by the coordinates in column M.
		Normal (non-breast tissue)	Control
D	Race	Text, or blank	Self-reported, administrative records or physician notes. This field is blank for controls.

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Column	Field	Options	Description
E	Age	Integer, or blank	Age at initial diagnosis. Self-reported, administrative records or physician notes. This field is blank for controls.
F	T-Stage	TIS = Carcinoma In-situ T1 = Tumor ≤ 20 mm T1a = Tumor ≤ 5 mm T1b = Tumor > 5 mm and ≤ 10 mm T1c = Tumor > 10 mm and ≤ 20 mm T2 = Tumor > 20 mm and ≤ 50 mm T3 = Tumor > 50 mm T4 = Tumor any size + extension T4a = Extension to chest wall T4b = Edema or ulceration or satellite skin nodules T4c = Both T4a and T4b T4d = Inflammatory carcinoma Blank	T Stage at initial diagnosis. From Manual for Staging of Cancer, 5 th Ed. This field is blank for controls.
G	N-Stage	NX = Minimum req. not met (unknown) N0 = No evidence of regional LN involvement N1 = Mets to movable, ipsilateral node N1a = Only micromets (≤ 2 mm) N1b = Any nodal mets > 2 mm N1b1 = Mets to 1-3 nodes, any > 2 mm and all <20 mm N1b2 = Mets to 4 or more nodes, any > 2 mm and all < 20 mm N1b3 = Extension of tumor beyond node capsule and < 20 mm N1b4 = Mets to nodes ≥ 20 mm N2 = Mets to ipsilateral nodes that are fixed to one another or to other structures N3 = Mets to ipsilateral internal mammary lymph node Blank	N Stage at initial diagnosis. From Manual for Staging of Cancer, 5 th Ed. This field is blank for controls.

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Column	Field	Options	Description
H	M-Stage	MX = Distant mets not assessed M0 = No known distant mets M1 = Distant mets present Blank	M Stage at initial diagnosis. From Manual for Staging of Cancer, 5 th Ed. This field is blank for controls.
I	Number of nodes positive	Integer, or blank	The number of nodes positive at initial diagnosis. This field is blank for controls.
J	Size of Invasive Cancer (in cm)	Integer, or blank	Measurement (in centimeters) of the longest diameter of tumor. For multifocal tumors, size is taken from the largest grossly evident mass in the breast. Size may be unknown in cases where T stage is known OR M stage is M1. This field is blank for controls.
K	Total Score	1 = Grade 1 2 = Grade 2 3 = Grade 3	The histologic grade applies only to the invasive component of the tumor. Grade is determined by the Elston and Ellis approach to the Scarff Bloom Richardson method. The grade is derived from the total score calculated from the extent of tubule formation, extent of nuclear pleomorphism, and the mitotic count.
L	ER Score	0 = Negative (< 1% expressing cells) 1 = Positive (≥ 1% expressing cells) NA = Not applicable	ASCO CAP Guidelines for ER Scoring.
M	PR Score	0 = Negative (< 1% expressing cells) 1 = Positive (≥ 1% expressing cells) NA = Not applicable	ASCO CAP Guidelines for PR Scoring.

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Column	Field	Options	Description
N	HER2 IHC	<p>0 = No staining</p> <p>1+ = Weak, incomplete membrane staining in any proportion of invasive tumor cells, or weak, complete membrane staining in less than 10% of cells.</p> <p>2+ = Complete membrane staining that is non-uniform or weak but with obvious circumferential distribution in at least 10% of cells, or intense complete membrane staining in 30% or less of tumor cells.</p> <p>3+ = Uniform intense membrane staining of more than 30% of invasive tumor cells.</p> <p>NA = Not applicable</p>	ASCO CAP Guidelines for HER2 Scoring.
O	Invasive Link	Alphanumeric	If this specimen is matched to an invasive specimen that appears elsewhere on the array, this column gives the coordinates of that matched invasive specimen. This field is blank for non-matched specimens.