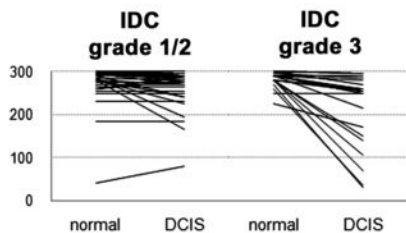
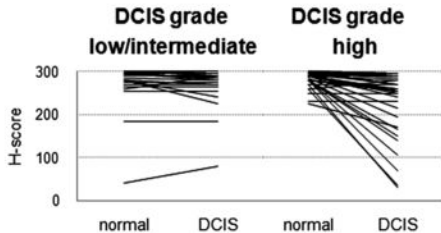
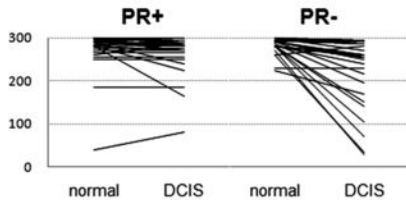
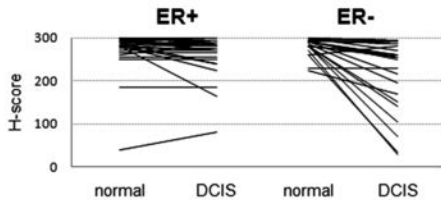


# HDAC1





**Supplemental Table 2.** Association among markers

		normal		DCIS		IDC	
		Rho <sup>§</sup>	p*	Rho	p	Rho	p
ac-H4	ac-H4K12	0.364	0.007	0.456	0.001	0.605	< 0.0001
ac-H4	ac-tubulin	0.212	-	0.115	-	0.079	-
ac-H4	HDAC1	0.373	0.005	0.398	0.003	0.478	0.0003
ac-H4	HDAC2	-0.096	-	0.191	-	0.296	0.026
ac-H4	HDAC6	0.110	-	0.234	-	0.118	-
ac-H4K12	ac-tubulin	0.066	-	0.102	-	-0.036	-
ac-H4K12	HDAC1	-0.021	-	0.113	-	0.227	0.087
ac-H4K12	HDAC2	0.270	0.041	0.250	0.059	0.214	-
ac-H4K12	HDAC6	0.218	-	0.147	-	0.285	0.032
ac-tubulin	HDAC1	0.198	-	0.040	-	0.082	-
ac-tubulin	HDAC2	-0.182	-	0.052	-	-0.145	-
ac-tubulin	HDAC6	0.152	-	0.455	0.001	0.097	-
HDAC1	HDAC2	-0.106	-	-0.047	-	0.154	-
HDAC1	HDAC6	0.035	-	0.128	-	-0.090	-
HDAC2	HDAC6	0.326	0.014	0.194	-	0.242	-
ER	ac-H4	0.164	-	0.278	0.036	0.318	0.016
ER	ac-H4K12	0.197	-	0.281	0.034	0.445	0.001
ER	ac-tubulin	0.137	-	0.203	-	0.179	-
ER	HDAC1	0.039	-	0.380	0.004	0.308	0.020
ER	HDAC2	0.035	-	-0.121	-	-0.047	-
ER	HDAC6	0.169	-	0.236	0.075	0.218	-
PR	ac-H4	0.061	-	0.247	0.062	0.297	0.025
PR	ac-H4K12	0.158	-	0.201	-	0.381	0.004
PR	ac-tubulin	0.094	-	0.309	0.020	0.286	0.031
PR	HDAC1	-0.017	-	0.237	0.074	0.227	0.087
PR	HDAC2	0.103	-	-0.096	-	-0.085	-
PR	HDAC6	0.310	0.019	0.322	0.015	0.306	0.021
ER	PR	0.498	0.0002	0.746	< 0.0001	0.730	< 0.0001

<sup>§</sup> Rho, Spearman rank correlation coefficient

\* p-value by Spearman rank correlation, > 0.1 shown as -

**Supplemental Table 3.** Subgroup analyses for differences

			ac-H4		ac-H4K12		ac-tubulin		HDAC1		HDAC2		HDAC6	
			score <sup>§</sup>	p*	score	p	score	p	score	p	score	p	score	p
ER	Δ normal-DCIS	positive	80	0.054	145	-	30	0.089	0	0.0001	25	-	20	-
		negative	130		140		45		30		10		50	
	Δ DCIS-IDC	positive	0	-	0	-	0	-	0	-	0	-	0	-
		negative	0		0		0		0		0			
	Δ normal-IDC	positive	85	0.020	155	0.033	45	-	0	0.0006	70	-	60	-
		negative	150		210		80		50		30		90	
PR	Δ normal-DCIS	positive	83	0.09	143	-	25	0.03	0	0.0004	25	-	20	-
		negative	125		143		53		30		13		50	
	Δ DCIS-IDC	positive	0	-	0	-	0	-	0	-	0	-	0	-
		negative	0		0		0		0		0			
	Δ normal-IDC	positive	85	0.014	153	0.029	45	0.064	3	0.002	65	-	55	-
		negative	145		210		83		45		30		80	
IDC grade	Δ normal-DCIS	grade 1/2	80	0.001	130	0.006	28	0.045	0	< 0.0001	25	-	23	-
		grade 3	170		200		65		33		13		45	
	Δ DCIS-IDC	grade 1/2	0	-	0	-	0	-	0	-	0	-	0	-
		grade 3	0		0		0		0		0			
	Δ normal-IDC	grade 1/2	83	0.0006	153	0.005	45	-	3	0.0006	60	-	55	-
		grade 3	170		229		83		45		23		90	
DCIS grade	Δ normal-DCIS	low/intermediate	80	-	130	-	23	0.004	0	0.001	33	-	10	0.022
		high	113		145		53		25		13		50	
	Δ DCIS-IDC	low/intermediate	0	-	0	-	0	-	0	-	0	-	0	-
		high	0		0		0		0		0			
	Δ normal-IDC	low/intermediate	88	-	150	0.041	38	0.004	3	0.007	75	-	40	0.036
		high	130		175		93		28		28		90	
HER2	Δ normal-DCIS	positive	85	-	125	-	80	-	0	-	0	-	100	0.005
		negative	88		143		30		5		23		23	
	Δ DCIS-IDC	positive	0	-	0	-	0	-	0	-	0	-	0	-
		negative	0		0		0		0		0			
	Δ normal-IDC	positive	85	-	125	-	120	-	0	-	0	-	100	-
		negative	128		163		48		10		40		55	
age	Δ normal-DCIS	≤ 50	113	-	148	-	35	-	10	-	28	-	28	-
		> 50	83		130		30		5		15		38	
	Δ DCIS-IDC	≤ 50	0	-	0	-	0	-	0	-	0	-	0	-
		> 50	0		0		0		0		0			
	Δ normal-IDC	≤ 50	130	-	165	-	73	-	18	-	48	-	78	-
		> 50	100		155		45		5		40		73	

<sup>§</sup> score, median of difference in H-score in all cases from normal epithelium to DCIS (Δ normal-DCIS), from DCIS to IDC (Δ DCIS-IDC), from normal epithelium to IDC (Δ normal-IDC)

\* p-value by Mann-Whitney U test, > 0.1 shown as -