Additional File 4.

Title: MicroRNA selected for this study from miRNAs significantly associated with young women's breast cancer in discovery set and its validation.

Description: Clusters were constructed using Average hierarchical clustering method. Statistics of the discovery set were calculated via t-test. FDR stands for False Discovery rate multitesting corrected p-value. Only miRNAs remarked in bold were validated on an independent set of patients. Fold change of the validation set were calculated using $\Delta\Delta$ Ct method and p-values were estimated via ANOVA test comparing the age groups and adjusted for multiple testing using Tukey's method. Bold denotes significant associated results in validation set.

Additional File 4. MicroRNA selected for this study from miRNAs significantly associated with young women's breast cancer in discovery set and its validation.

		Discovery	set (n=37)	Validation set (n=56)
				Adjusted
cluster	miR	FDR	Fold change	p-value
Node 15	hsa-miR-1275	1.40x10 ⁻⁴	5.89	2.86x10 ⁻³
	hsa-miR-1207-5p	7.60x10 ⁻⁴	4.86	0.047
	hsa-miR-4281	1.37x10 ⁻³	4.61	
	hsa-miR-1268	7.2x10 ⁻⁴	5.01	
	hsa-miR-663	1.29x10 ⁻³	4.04	
	hsa-miR-149	4.10x10 ⁻³	-4.03	0.712
	hsa-miR-762	1.40x10 ⁻⁴	6.65	
	hsa-miR-3196	1.40x10 ⁻⁴	6.74	1.98x10 ⁻⁴
	hsa-miR-1908	1.40x10 ⁻⁴	5.41	
	hsa-miR-1228*	1.40x10 ⁻⁴	6.02	4.73 x10 ⁻⁵
	hsa-miR-3141	1.90x10 ⁻⁴	5.30	
	hsa-miR-92b	7.00x10 ⁻⁴	-4.60	0.012
Node 63	hsa-miR-139-5p	0.020	-3.13	0.018
	hsa-miR-132	1.40x10 ⁻⁴	-5.57	0.908
	hsa-miR-379	0.092	-2.14	0.052
	hsa-miR-409-3p	0.043	-2.62	0.107
	hsa-miR-134	0.086	-2.20	
	hsa-miR-127-3p	0.050	-2.53	
	hsa-miR-433	0.093	-2.15	0.132
	hsa-miR-181a-2*	0.029	-2.92	

Clusters were constructed using Average hierarchical clustering method. Statistics of the discovery set were calculated via t-test. FDR stands for False Discovery rate multitesting corrected p-value. Only miRNAs remarked in bold were validated on an independent set of patients. Expression values of the validation set were calculated using $\Delta\Delta$ Ct method and p-values were estimated via ANOVA test comparing the age groups and adjusted for multiple testing using Tukey's method. Bold denotes significant associated results in validation set.