

Differential expression of exosomal miRNAs between breast cancer patients with and without recurrence

SUPPLEMENTARY MATERIALS

Supplementary Table 1: Patients' characteristics for tissue miRNA analyses

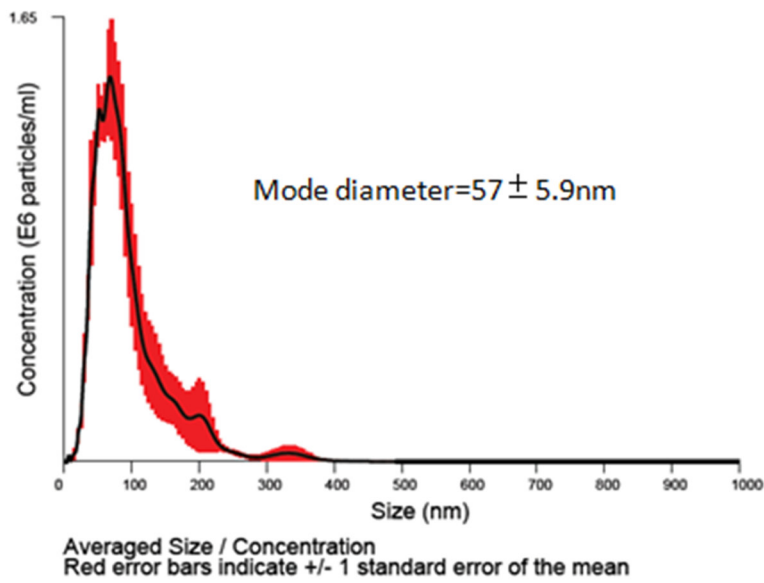
	Patients without recurrence (n = 39)	Patients with recurrence (n = 35)	<i>P</i>
Mean age at diagnosis (min, max)	61 (30–81)	57 (30–91)	0.171
Menopausal status			
Premenopausal	11 (28%)	12 (34%)	
Postmenopausal	28 (72%)	23 (66%)	0.573
Tumor size (cm)			
Median ± SD	1.8 ± 1.02	3.0 ± 2.55	<0.01
Nodal status			
Negative	23 (59%)	16 (46%)	
Positive	16 (41%)	19 (54%)	0.254
Stage			
1	15 (38%)	8 (23%)	
2	22 (56%)	18 (51%)	
3	2 (5%)	9 (26%)	0.034
Nuclear grade			
1,2	28 (72%)	23 (66%)	
3	11 (28%)	12 (34%)	0.573
Ki67 labeling index, Median ± SD	33 ± 22.1	33 ± 26.5	0.691
Tumor subtype			
Luminal (ER and/or PR+ and HER2-)	29 (74%)	22 (63%)	
HER2 (ER and/or PR+/- and HER2+)	7 (18%)	5 (14%)	
TN (ER and PR and HER2-)	3 (8%)	8 (23%)	0.206
Adjuvant treatment			
Endocrine therapy	30 (77%)	20 (57%)	
Chemotherapy	9 (23%)	19 (54%)	
Trastuzumab	4 (10%)	2 (6%)	

ER, estrogen receptor; PR, progesterone receptor; HER2, human epidermal growth factor 2.

Supplementary Table 2: Correlation between miRNA expression in exosomes and tissues

miRNA	Spearman's correlation coefficient	<i>P</i>
has-miR-338-3p	-0.075	0.76
has-miR-340-5p	-0.233	0.34
has-miR-124-3p	-0.153	0.51
has-miR-29b-3p	-0.045	0.85
has-miR-20b-5p	-0.128	0.61
has-miR-17-5p	-0.166	0.48
has-miR-130a-3p	-0.396	0.084
has-miR-18a-5p	-0.298	0.23
has-miR-195-5p	-0.336	0.14
has-miR-486-5p	-0.126	0.6
has-miR-93-5p	-0.434	0.063

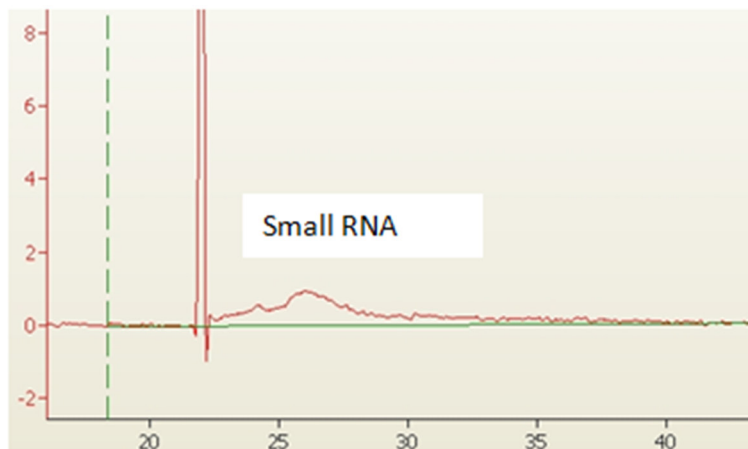
A



B



C



Supplementary Figure 1: (A) Image of the size of exosomes using the Nanosight LM10 instrument. The most frequently found size is 57 nm. (B) Western blot analysis of the exosomal membrane marker CD63. (C) The quality of RNA samples and small RNA fraction by the Agilent 2100 Bioanalyzer.