SUPPLEMENTARY MATERIAL

Breast Cancer Research and Treatment

MicroRNA signatures in hereditary breast cancer

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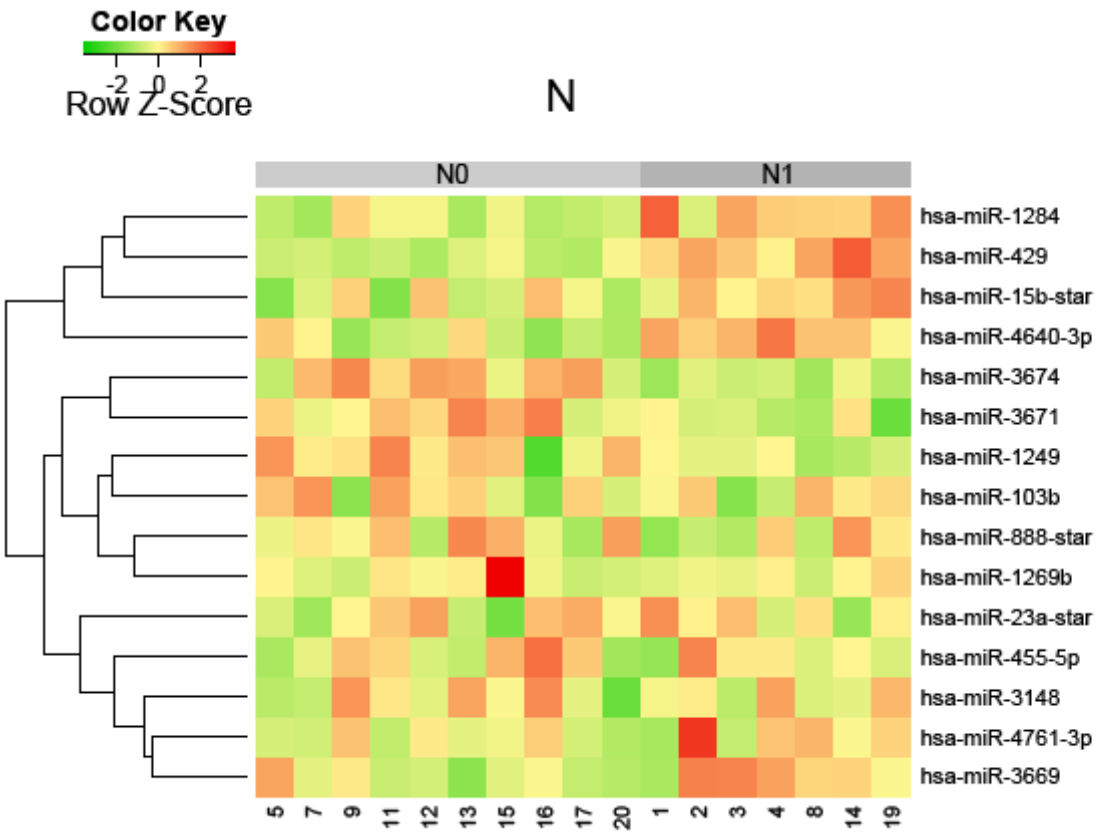
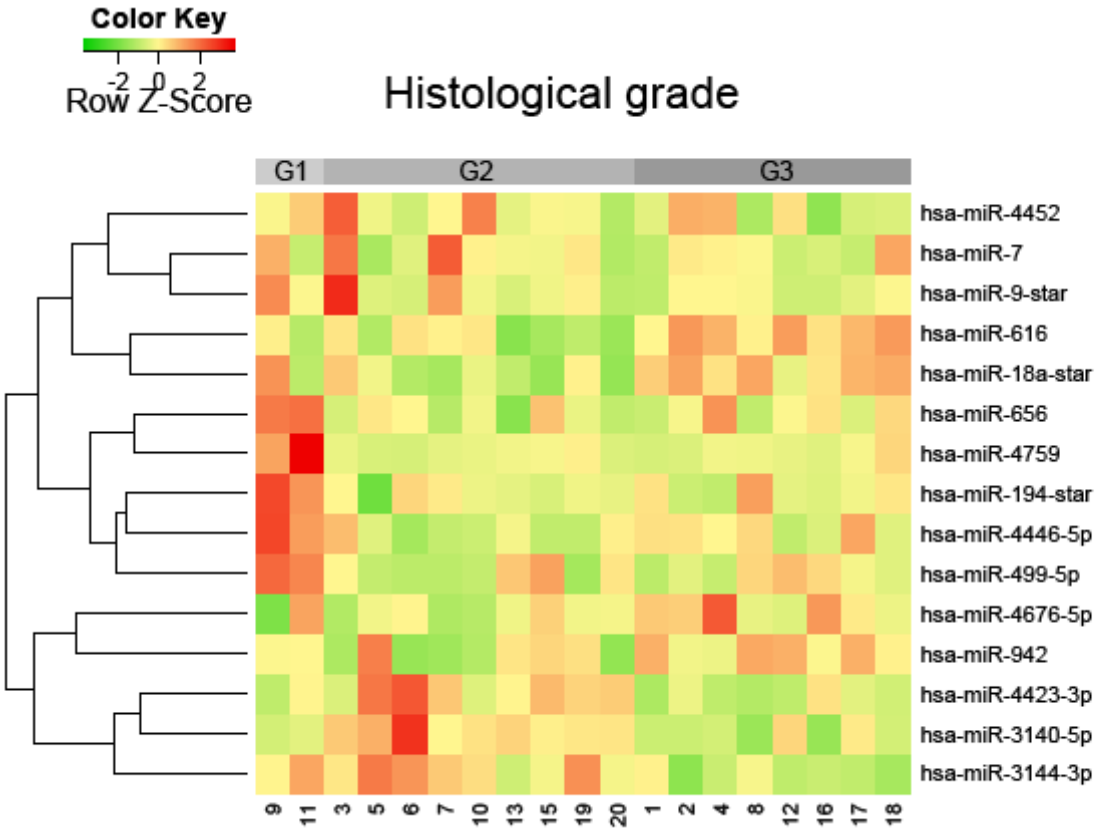


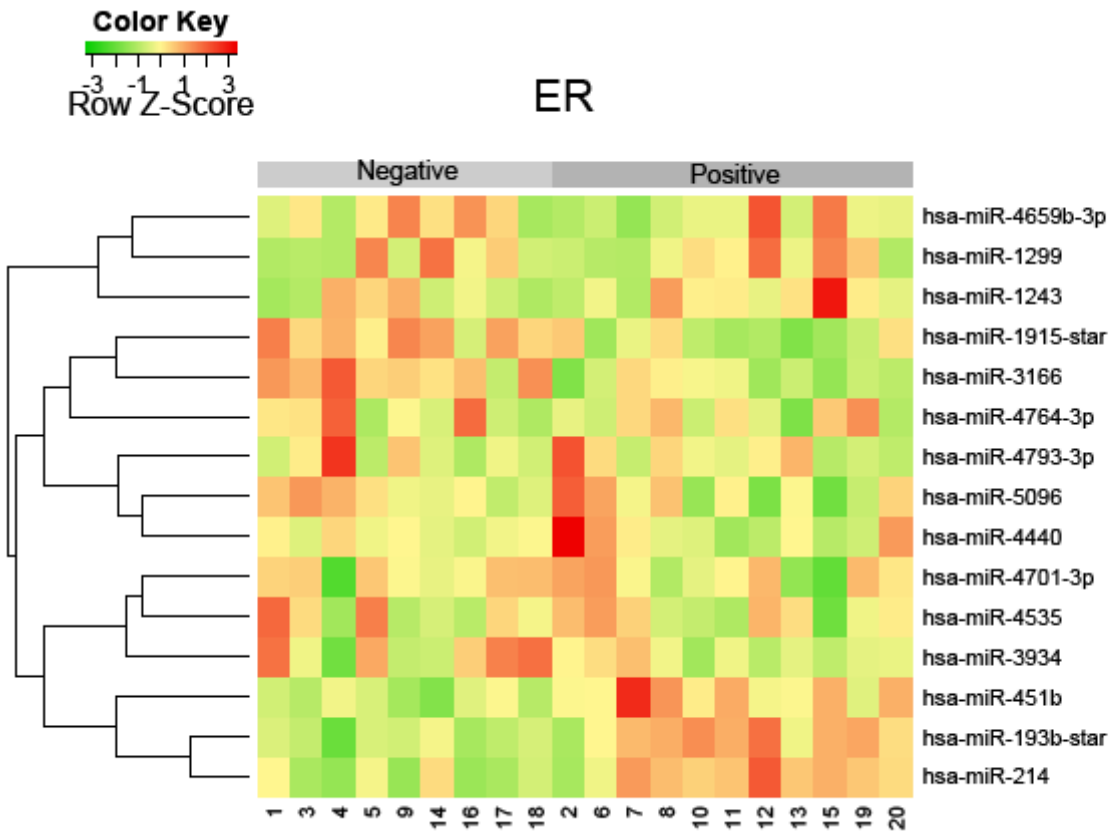
Online Resource 1: Cluster analysis Node involvement (N0/N1).

N0: lymph nodes not affected; N1: level1 lymph nodes; Numbers at the base of the image correspond to the identification of patients: 1-5 *BRCA1* mutation carrier; 6-10 *BRCA2* mutation carrier; 11-15 BRCAX; 16-20 SBC.

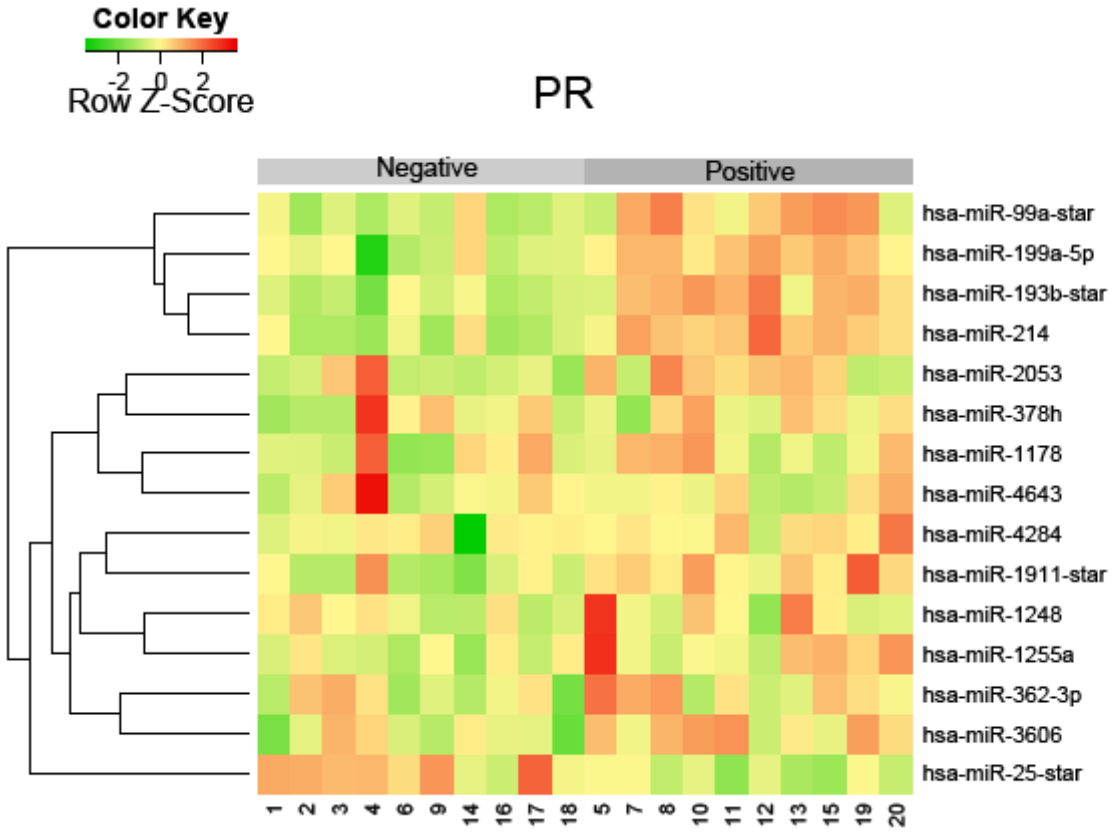


Online Resource 2: Cluster analysis Histological grade (G1/G2/G3)

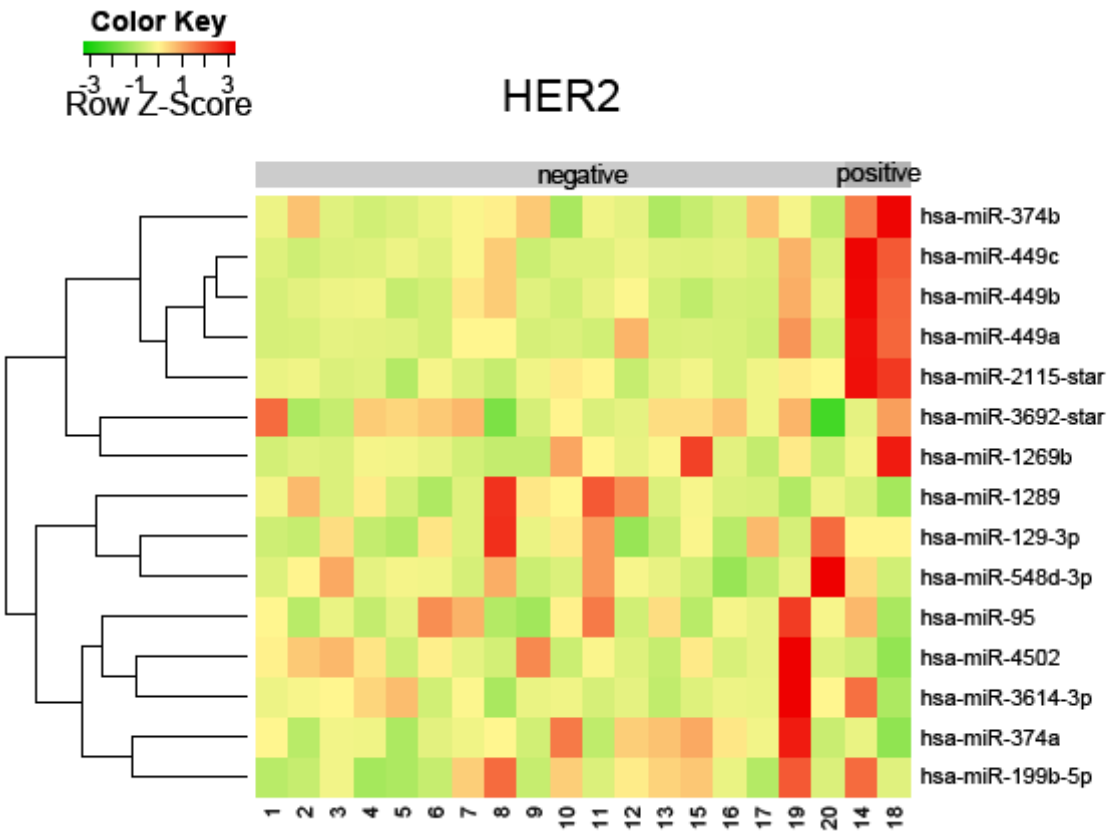
G1: Grade 1; G2: Grade 2; G3 Grade 3. Numbers at the base of the image correspond to the identification of patients: 1-5 *BRCA1* mutation carrier; 6-10 *BRCA2* mutation carrier; 11-15 BRCAX; 16-20 SBC.



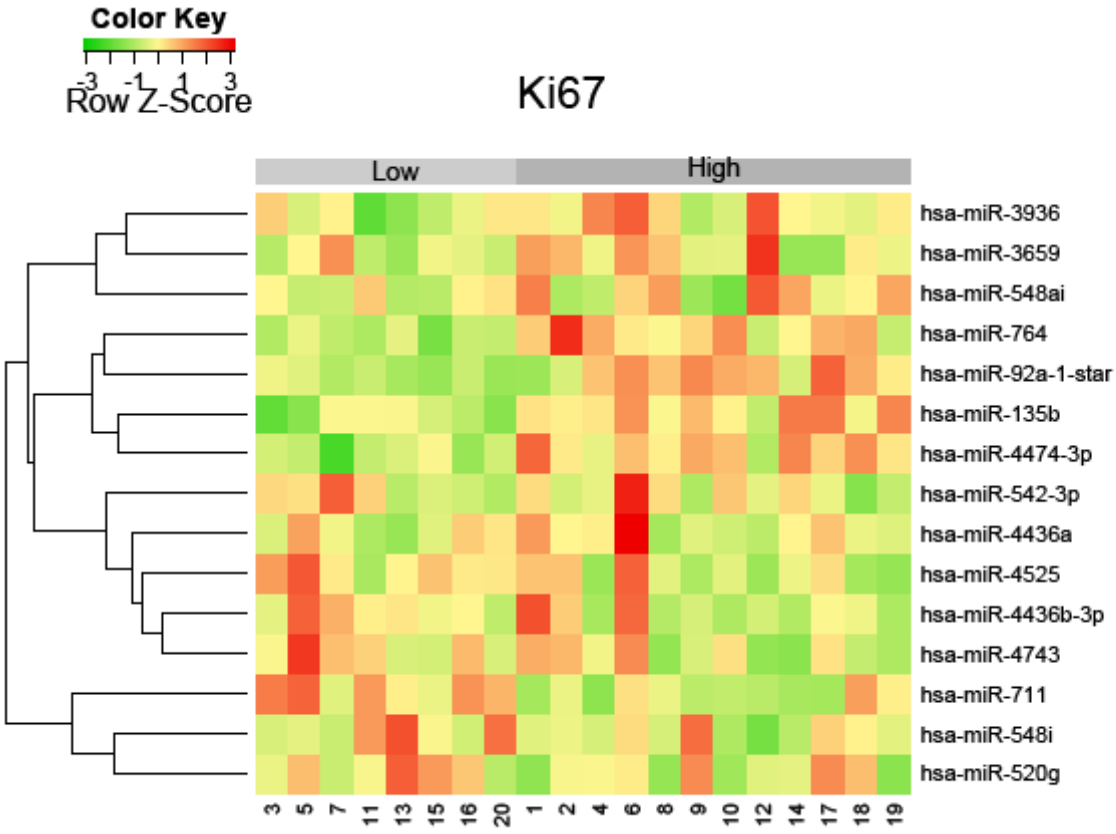
Online Resource 3: Cluster analysis Estrogens Receptors (ER Negative/Positive) expression.
Numbers at the base of the image correspond to the identification of patients: 1-5 *BRCA1* mutation carrier; 6-10 *BRCA2* mutation carrier; 11-15 BRCAX; 16-20 SBC.



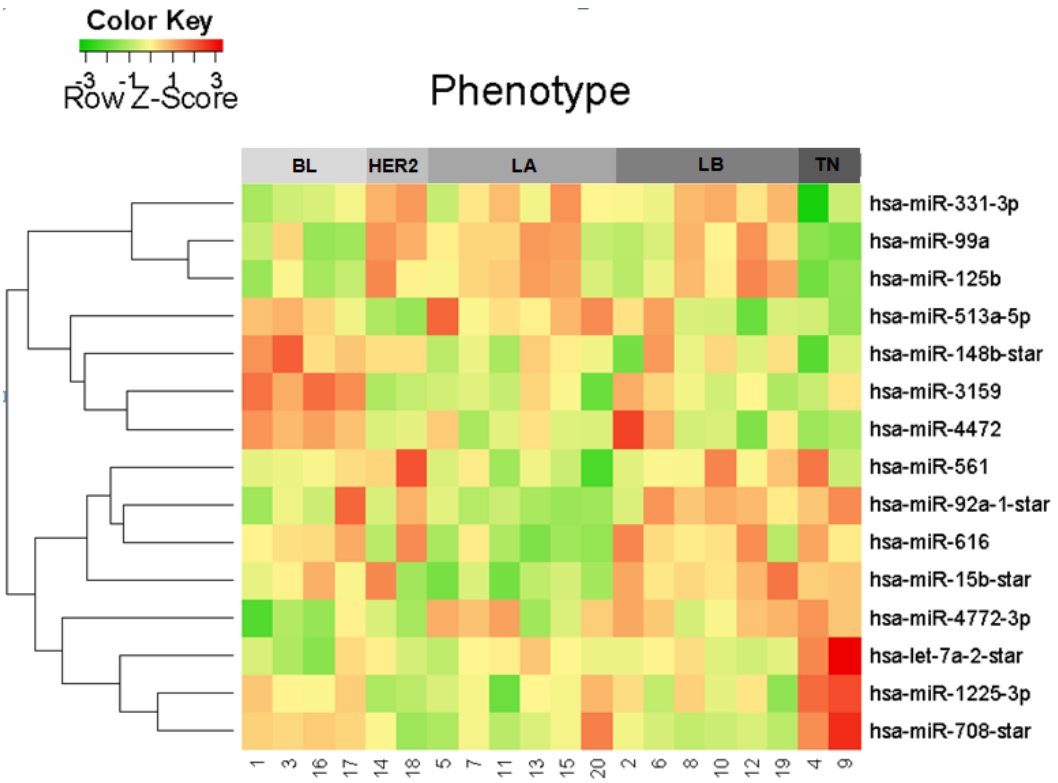
Online Resource 4: Cluster analysis Progesterone Receptors (PR Negative/Positive) expression.
Numbers at the base of the image correspond to the identification of patients: 1-5 *BRCA1* mutation carrier; 6-10 *BRCA2* mutation carrier; 11-15 BRCAX; 16-20 SBC.



Online Resource 5: Cluster analysis HER2 (Negative/Positive) expression.
Numbers at the base of the image correspond to the identification of patients: 1-5 *BRCA1* mutation carrier; 6-10 *BRCA2* mutation carrier; 11-15 BRCAX; 16-20 SBC.



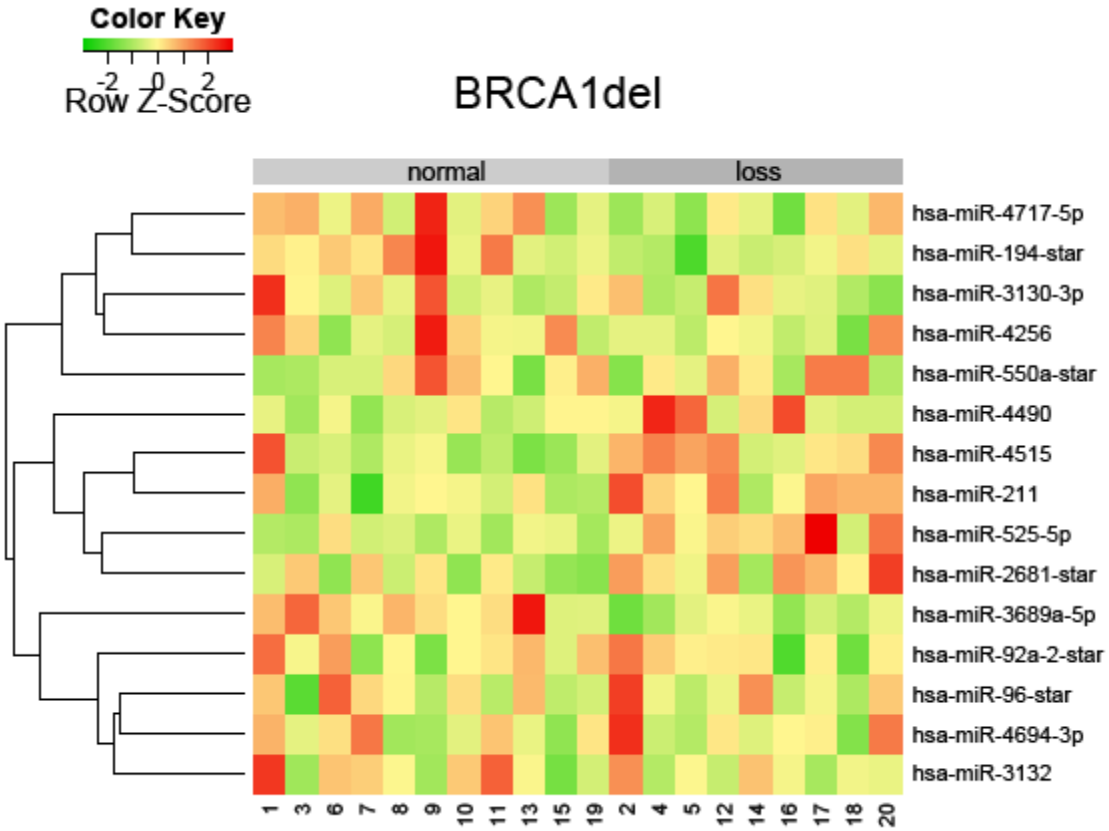
Online Resource 6: Cluster analysis Ki67 (Low/High) expression.
Numbers at the base of the image correspond to the identification of patients: 1-5 *BRCA1* mutation carrier; 6-10 *BRCA2* mutation carrier; 11-15 BRCAX; 16-20 SBC.



Online Resource 7: Cluster analysis immune-phenotype.

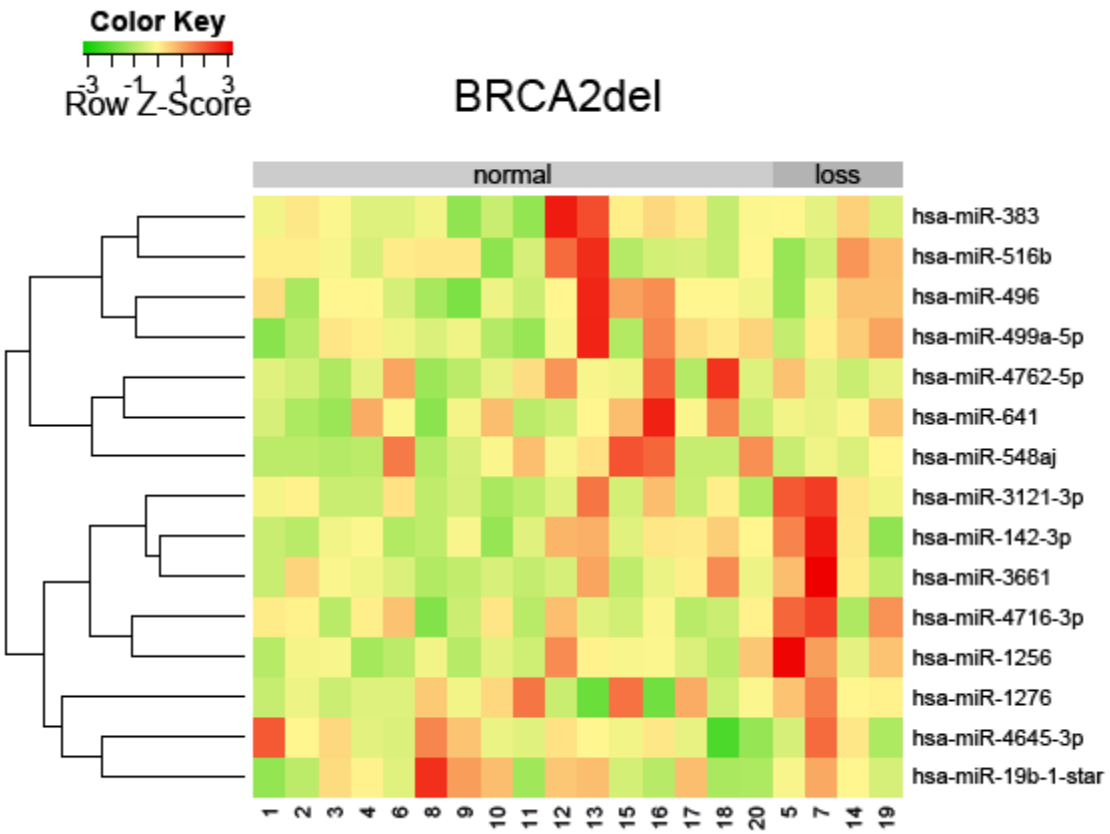
BL: Basal; HER2: HER2 classic; LA: Luminal A; LB: Luminal B; TN: Triple negative

Numbers at the base of the image correspond to the identification of patients: 1-5 *BRCA1* mutation carrier; 6-10 *BRCA2* mutation carrier; 11-15 BRCAX; 16-20 SBC.



Online Resource 8: Cluster analysis *BRCA1* deletions (Normal/Loss).

Numbers at the base of the image correspond to the identification of patients: 1-5 *BRCA1* mutation carrier; 6-10 *BRCA2* mutation carrier; 11-15 BRCAX; 16-20 SBC.



Online Resource 9: Cluster analysis *BRCA2* deletions (Normal/Loss).
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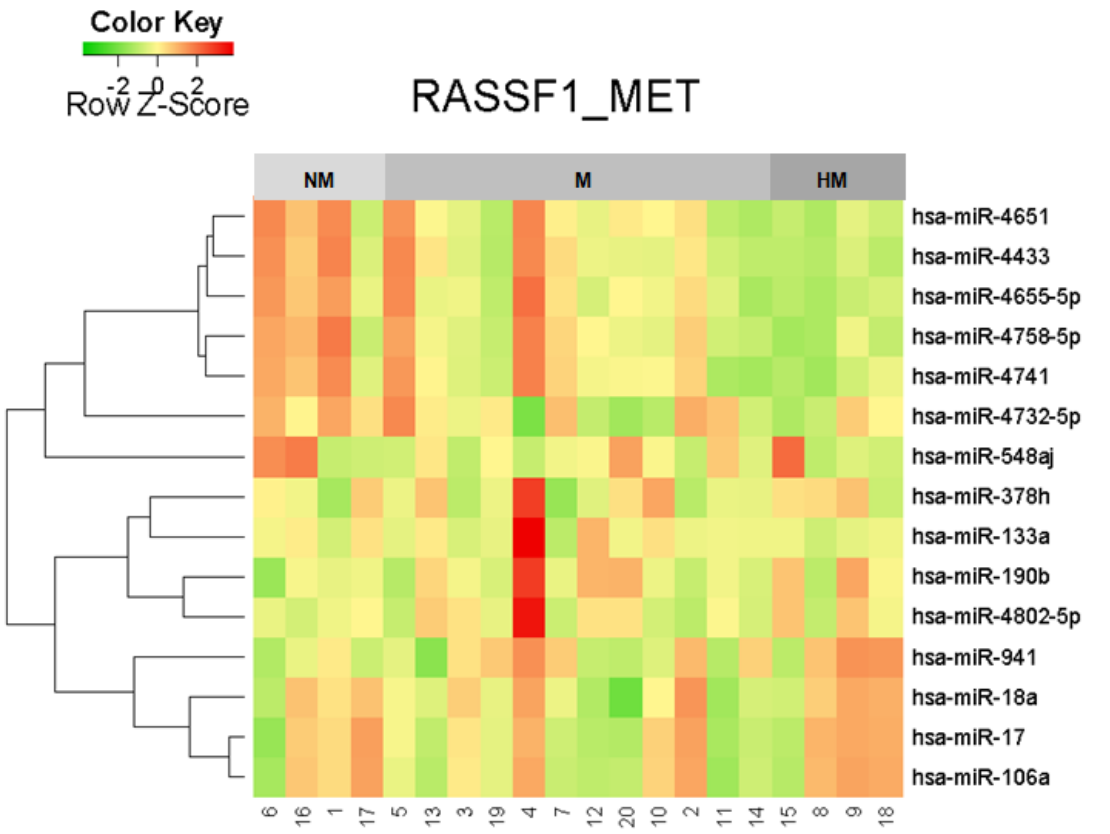
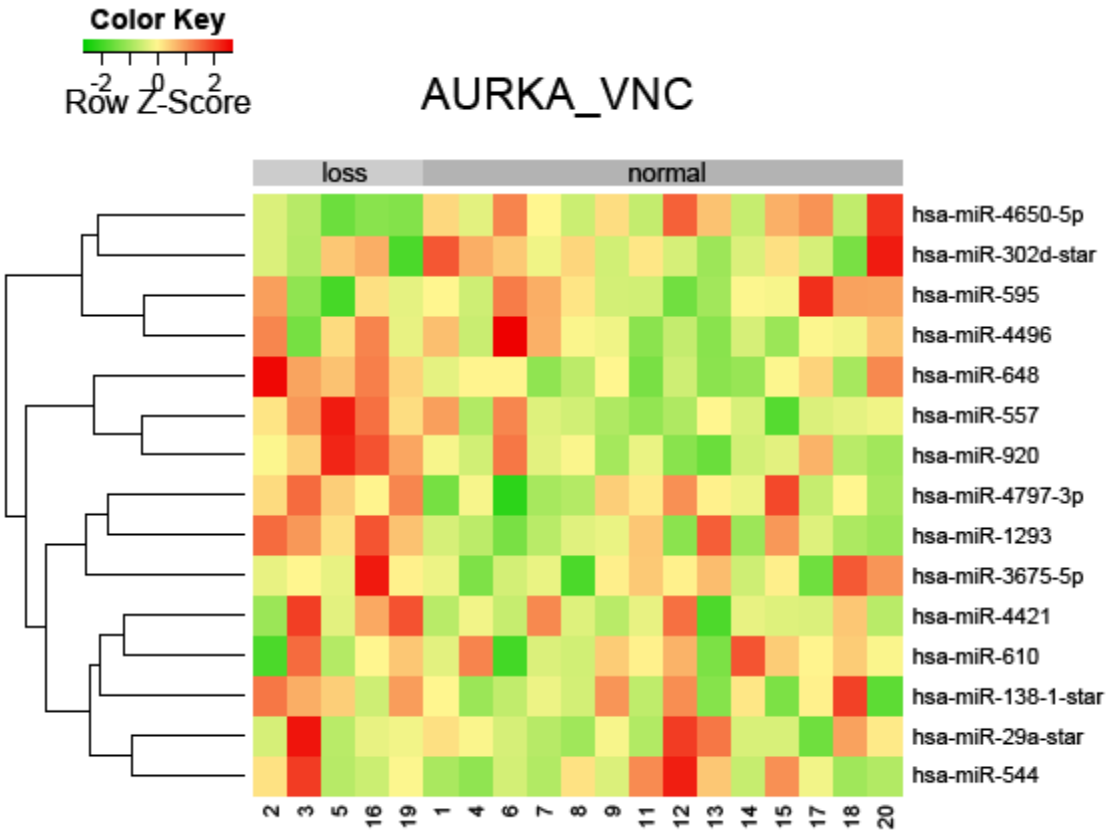


Online Resource 10: Cluster Analysis *RASSF1* promoter methylation.
NM: Non methylated; M: Methylated; HM: Higly methylated. Numbers at the base of the image correspond to the identification of patients: 1-5 *BRCA1* mutation carrier; 6-10 *BRCA2* mutation carrier; 11-15 BRCAX; 16-20 SBC.



Online Resource 11: Cluster analysis *AURKA* copy number variations (Loss/Normal).
Numbers at the base of the image correspond to the identification of patients: 1-5 *BRCA1* mutation carrier; 6-10 *BRCA2* mutation carrier; 11-15 BRCAX; 16-20 SBC.