#### **Supplemental Material**

#### New Insights in Gene Expression Alteration as Effect of Paclitaxel Drug Resistance in Triple Negative Breast Cancer Cells

Ancuta Jurj<sup>a</sup> Laura-Ancuta Pop<sup>a</sup> Oana Zanoaga<sup>a</sup> Cristina Alexandra Ciocan-Cârtiță<sup>a</sup> Roxana Cojocneanu<sup>a</sup> Cristian Moldovan<sup>a</sup> Lajos Raduly<sup>a</sup> Cecilia Pop-Bica<sup>a</sup> Monica Trif<sup>b</sup> Alexandru Irimie<sup>c,d</sup> Ioana Berindan-Neagoe<sup>a,e</sup> Cornelia Braicu<sup>a</sup>

<sup>a</sup>Research Center for Functional Genomics, Biomedicine and Translational Medicine, "Iuliu Hatieganu" University of Medicine and Pharmacy, Cluj-Napoca, Romania, <sup>b</sup>Centiv DE, Bremen, Germany, <sup>c</sup>Department of Surgery, "Prof. Dr. Ion Chiricuta" Oncology Institute, Cluj-Napoca, Romania, <sup>d</sup>Department of Surgical Oncology and Gynecological Oncology, "Iuliu Hatieganu" University of Medicine and Pharmacy, Cluj-Napoca, Romania, <sup>e</sup>Department of Functional Genomics and Experimental Pathology, "Prof. Dr. Ion Chiricuta" Oncology Institute, Cluj-Napoca, Romania



Figure S1. Experimental design on inducing paclitaxel drug resistance.

### **(A)**

#### Hs578T p12 down-regulated



# **(B)**

Hs578T p12 up-regulated



MDA-MB-231 p12 up-regulated







Gene count

## (D)

Hs578T p24 up-regulated





Gene count

**Figure S2.** KEGG pathway classification for the differentially expessed genes. (A) upregulate genes p12 of Hs578T/Pax cell line (B) downregulated genes P12 of Hs578T/Pax cell line (C) upregulate genes p24 of Hs578T/Pax cell line (D) downregulated genes P24 of Hs578T/Pax cell line (E) upregulate genes p12 of MDA-MB-231/Pax cell line (F) downregulated genes P12 of MDA-MB-231/Pax cell line (G) upregulate genes p24 of MDA-MB-231/Pax cell line (H) downregulated genes P24 of MDA-MB-231/Pax cell line (E) upregulated genes P12 of MDA-MB-231/Pax cell line (F) downregulated genes P12 of MDA-MB-231/Pax cell line (G) upregulate genes p24 of MDA-MB-231/Pax cell line (H) downregulated genes P24 of MDA-MB-2