**Table S4. Ingenuity Pathway Analysis of Predicted Exosome Oncomir Targets**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Functional Annotation** | **Exosome****Oncomirs# of genes** | **P value** | **WNV Induced mirs** **# of genes** | **P value** |
| **Cell cycle progression** | 57 | E-55 | 1 | E-04 |
| Cell death of immune cells | 50 | E-50 | - | 1 |
| Differentiation of cells | 61 | E-49 | - | 1 |
| **Cell transformation** | 42 | E-48 | 1 | E-04 |
| Cell survival | 56 | E-46 | 1 | E-03 |
| **Proliferation of tumor cell lines** | 57 | E-46 | - | 1 |
| Differentiation of blood cells | 46 | E-46 | - | 1 |
| Cell viability | 54 | E-44 | 2 | E-04 |
| Cell death of tumor cell lines | 57 | E-43 | - | 1 |
| **Apoptosis** | 64 | E-41 | 2 | E-05 |
| Apoptosis of leukocytes | 39 | E-39 | - | 1 |
| Proliferation of immune cells | 44 | E-39 | - | 1 |
| **Development of tumor** | 32 | E-37 | - | 1 |
| Development of lymphocytes | 36 | E-36 | - | 1 |
| Proliferation of lymphocytes | 40 | E-35 | - | 1 |
| Cell death of tumor cells | 34 | E-34 | - | 1 |
| **Colony formation of cells** | 33 | E-33 | 1 | E-04 |
| Cell death of leukocyte cell lines | 28 | E-33 | - | 1 |
| Differentiation of tumor cell lines | 31 | E-32 | - | 1 |
| Cell cycle progression of tumor cell lines | 27 | E-31 | - | 1 |
| **Cell death of cancer cells** | 30 | E-31 | - | 1 |
| **Invasion of cells** | 36 | E-30 | 3 | E-04 |
| **Contact growth inhibition** | 23 | E-30 | 1 | E-04 |
| **Cancer** | 61 | E-29 | 2 | E-04 |
| Senescence of cells | 24 | E-29 | 1 | E-04 |
| **Tumorigenesis of cells** | 23 | E-28 | 1 | E-04 |
| **Cell movement** | 49 | E-28 | 1 | E-04 |
| **Migration of cells** | 47 | E-28 | 1 | E-04 |
| **Progression of tumor** | 20 | E-27 | - | 1 |
| **Growth of tumor** | 28 | E-26 | - | 1 |
| **Colony formation of tumor cell lines** | 22 | E-24 | - | 1 |