

Title: Cisplatin and phenanthriplatin modulate long-noncoding RNA expression in A549 and IMR90 cells revealing regulation of microRNAs, Wnt/ β -catenin and TGF- β signaling

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Supplementary Table 1: Regulated lncRNAs and microRNA targets in the A549 cell line			
<u>A549 cisplatin vs. A549 control-Upregulated</u>			
lnc-IMMP2L-1			
Identifier	Predicting Target Site	Targeting mRNA	p value
hsa_miR_1253	AACAATACAATCTTCTTGCTCT	AGAGAAGAAGATCAGCCTGCA	0.00333
hsa_miR_1254	TCTTCTTGCTCTGTCACCCAGGCT	AGCCTGGAAGCTGGAGCCTGCAGT	0.00333
hsa_miR_30a_3p	CTTGCTCTGTCACCCAGGCTGAAAT	CTTTCAGTCGGATGTTTGACGC	0.00333
hsa_miR_650	ATCTTCTTGCTCTGTCACCC	AGGAGGCAGCGCTCTCAGGAC	0.00333
lnc-CBR3-1			
Identifier	Predicting Target Site	Targeting mRNA	p value
hsa_miR_25_5p	CAGTTTGCAGGGAGCTCAGCTC	AGGCGGAGACTTGGGCAATTG	0.00058
hsa_miR_378j	AAAAGGCCAAGAATTCAGT	ACTGGATTTGGAGCCAGAA	0.00058
hsa_miR_650	CCCCTTTAGAGTTGTAAGCCTTTA	AGGAGGCAGCGCTCTCAGGAC	0.00058
hsa_miR_650	GTTTGCAGGGAGCTCAGCTCTT	AGGAGGCAGCGCTCTCAGGAC	0.00058
hsa_miR_708_5p	CCCTTTAGAGTTGTAAGCCTTT	AAGGAGCTTACAATCTAGCTGGG	0.00058
lnc-ATAD2B-5			
Identifier	Predicting Target Site	Targeting mRNA	p value
hsa_miR_149_3p	GCCACCCACTGGCTTCTCT	AGGGAGGGACGGGGGCTGTGC	0.00675
hsa_miR_185_5p	CCACCCACTGGCTTCTCTCACG	TGGAGAGAAAGGCAGTTCCTGA	0.00675
hsa_miR_4516	GCCACCCACTGGCTTCTCTC	GGGAGAAGGGTCGGGGC	0.00675
hsa_miR_608	CACTGGCTTCTCTCACGGCCACCCTG	AGGGGTGGTGTGGGACAGCTCCGT	0.00675
<u>A549 phenanthriplatin vs. A549 control-Upregulated</u>			
lnc-MRPL39-10			
Identifier	Predicting Target Site	Targeting mRNA	p value
hsa_miR_25_5p	TAATATACAAGTTTCCA CTG	AGGCGGAGACTTGGGCAATTG	0.019
<u>A549 cisplatin vs. A549 control-Downregulated</u>			
lnc-PGPEP1L-3			
Identifier	Predicting Target Site	Targeting mRNA	p value
hsa_miR_25_5p	TGTATGCCACACCCTTCTCTC	AGGCGGAGACTTGGGCAATTG	7.7E-05

A549 phenanthriplatin vs. A549 control-Downregulated			
Inc-AGO2-1			
Identifier	Predicting Target Site	Targeting mRNA	p value
hsa_miR_149_3p	CTCTCTCCCCCTCTCCCCCT	AGGGAGGGACGGGGGCTGTGC	1E-06
hsa_miR_149_3p	CCTCTCCCCCTCCCCCTCCCT	AGGGAGGGACGGGGGCTGTGC	1E-06
hsa_miR_185_5p	TCTCTCTCTCTCTCTCTCCC	TGGAGAGAAAGGCAGTTCCTGA	1E-06
hsa_miR_4516	CTCTCTCCCCCTCTCCC	GGGAGAAGGGTCGGGGC	1E-06
hsa_miR_608	CTCTCTCTCCCCCTCTCCCCCT	AGGGGTGGTGTGGGACAGCTCCGT	1E-06
Inc-SLC26A3-1			
Identifier	Predicting Target Site	Targeting mRNA	p value
hsa_miR_1253	TGCGGCGCAGCTGCCTCTCT	AGAGAAGAAGATCAGCCTGCA	0.0465
hsa_miR_138_5p	TGGAGGGTGGAGAGCCAGTG	AGCTGGTGTGTGAATCAGGCCG	0.0465
hsa_miR_149_3p	GCGCAGCTGCCTCTCTTA	AGGGAGGGACGGGGGCTGTGC	0.0465
hsa_miR_30a_3p	GCGCCAGGGCCGGATGGAGG	CTTTCAGTCGGATGTTTGCAGC	0.0465
hsa_miR_378j	ACTGGGCGCCAGGGCCGGA	ACTGGATTTGGAGCCAGAA	0.0465
hsa_miR_608	CCAGTGCGGCGCAGCTGCCTCTCT	AGGGGTGGTGTGGGACAGCTCCGT	0.0465
hsa_miR_650	CAGTGCGGCGCAGCTGCCTCTCT	AGGAGGCAGCGCTCTCAGGAC	0.0465
hsa_miR_708_5p	GCCAGTGCGGCGCAGCTGCCTC	AAGGAGCTTACAATCTAGCTGGG	0.0465
Inc-COX7A1-2			
Identifier	Predicting Target Site	Targeting mRNA	p value
hsa_miR_1254	ACTGCAAAGCTCCGCTCCAGGTT	AGCCTGGAAGCTGGAGCCTGCAGT	0.0487
hsa_miR_25_5p	TCACTGCAAAGCTCCGCT	AGGCGGAGACTTGGGCAATTG	0.0487
hsa_miR_608	TCGGCTCACTGCAAAGCTCCGCTCC	AGGGGTGGTGTGGGACAGCTCCGT	0.0487
hsa_miR_650	CTCACTGCAAAGCTCCGCTCCC	AGGAGGCAGCGCTCTCAGGAC	0.0487

Supplementary Table 2: Regulated lncRNAs and microRNA targets in the IMR90 cell line			
IMR90 cisplatin vs. IMR90 control-Upregulated			
Inc-GNG11-3			
Identifier	Predicting Target Site	Targeting mRNA	p value
hsa_miR_149_3p	ACATGAGATTTAGCTCTCTCTG	AGGGAGGGACGGGGGCTGTGC	0.0581
hsa_miR_650	AACATGAGATTTAGCTCTCTCT	AGGAGGCAGCGCTCTCAGGAC	0.0581
Inc-ATAD2B-5			
Identifier	Predicting Target Site	Targeting mRNA	p value
hsa_miR_185_5p	CCACCACTGGCTTCTCTCACG	TGGAGAGAAAGGCAGTTCCTGA	0.0068

hsa_miR_4458	AGCCACCCACTGGCTTCT	AGAGGTAGGTGTGGAAGAA	0.0068
hsa_miR_4516	GCCACCCACTGGCTTCTCTC	GGGAGAAGGGTCGGGGC	0.0068
hsa_miR_608	CACTGGCTTCTCTCACGGCCACCCTG	AGGGGTGGTGTGGGACAGCTCCGT	0.0068
hsa_miR_708_5p	CCCAAAGCCACCCACTGGCTTCTC	AAGGAGCTTACAATCTAGCTGGG	0.0068
Inc-MRPS5-1			
Identifier	Predicting Target Site	Targeting mRNA	p value
hsa_miR_608	GAACAAACAACCCACATCTACACCCA	AGGGGTGGTGTGGGACAGCTCCGT	0.0151
<u>IMR90 phenanthriplatin vs. IMR90 control-Upregulated</u>			
Inc-TMEM243-1			
Identifier	Predicting Target Site	Targeting mRNA	p value
hsa_miR_608	CCGGTGCAGTTCACAAAATACACTTTG	AGGGGTGGTGTGGGACAGCTCCGT	0.0009
<u>IMR90 cisplatin vs. IMR90 control-Downregulated</u>			
Inc-HYPM-1			
Identifier	Predicting Target Site	Targeting mRNA	p value
hsa_miR_608	TTGGAACAACCTCTCCAGCCCA	AGGGGTGGTGTGGGACAGCTCCGT	0.0162
<u>IMR90 phenanthriplatin vs. IMR90 control-Downregulated</u>			
Inc-AGO2-1			
Identifier	Predicting Target Site	Targeting mRNA	p value
hsa_miR_149_3p	CTCTCTCCCCCTCTCCCCCT	AGGGAGGGACGGGGGCTGTGC	1E-06
hsa_miR_149_3p	CCTCTCCCCCTCCCCCTCCCT	AGGGAGGGACGGGGGCTGTGC	1E-06
hsa_miR_185_5p	TCTCTCTCTCTCTCTCTCCC	TGGAGAGAAAGGCAGTTCCTGA	1E-06
hsa_miR_4458	CCCCTCCCCCTCCCTCT	AGAGGTAGGTGTGGAAGAA	1E-06
hsa_miR_4516	CTCTCTCCCCCTCTCCC	GGGAGAAGGGTCGGGGC	1E-06
hsa_miR_608	CTCTCTCTCCCCCTCTCCCCCT	AGGGGTGGTGTGGGACAGCTCCGT	1E-06
Inc-HYPM-1			
Identifier	Predicting Target Site	Targeting mRNA	p value
hsa_miR_149_3p	GTATTTCCCTCCTCTCCCC	AGGGAGGGACGGGGGCTGTGC	0.0103
hsa_miR_4458	CTCTCCCCATTTTCTCC	AGAGGTAGGTGTGGAAGAA	0.0103
hsa_miR_4516	TTCCCTCCTCTCCC	GGGAGAAGGGTCGGGGC	0.0103
hsa_miR_608	TTGGAACAACCTCTCCAGCCCA	AGGGGTGGTGTGGGACAGCTCCGT	0.0162
hsa_miR_708_5p	TCCAGCCCAGGACATGCCAGCGCTTA	AAGGAGCTTACAATCTAGCTGGG	0.0162

hsa_miR_185_5p	CCTCCCTCTGGCTCTCTCCA	TGGAGAGAAAGGCAGTTCCTGA	0.0362
hsa_miR_650	AGCCTGTGTCTGTCTGCCTTTG	AGGAGGCAGCGCTCTCAGGAC	0.0362
hsa_miR_650	GTCTGCCTTTGCTTCCTCCC	AGGAGGCAGCGCTCTCAGGAC	0.0362
Inc-ARCN1-1			
Identifier	Predicting Target Site	Targeting mRNA	p value
hsa_miR_149_3p	GCAACCTCCACCTCCA	AGGGAGGGACGGGGGCTGTGC	0.001
hsa_miR_185_5p	TCACCTCACTGCAACCTCCA	TGGAGAGAAAGGCAGTTCCTGA	0.001
hsa_miR_608	GATTCCTCTCCACACCCACCCTG	AGGGGTGGTGTGGGACAGCTCCGT	0.0016