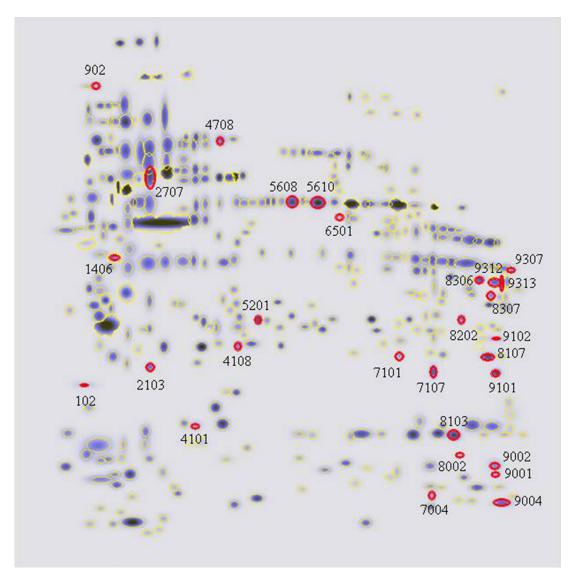
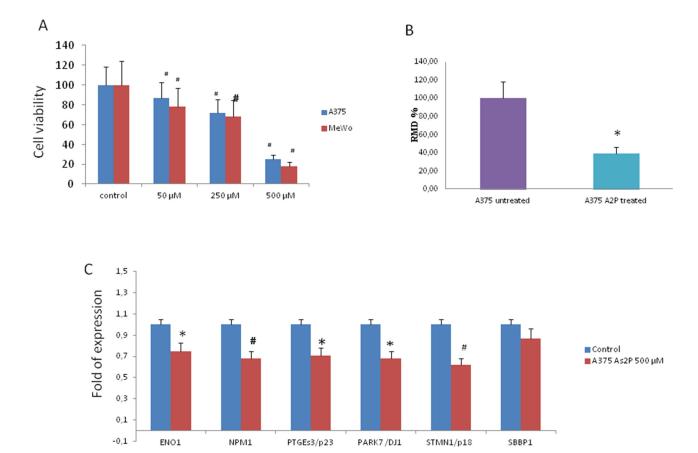
An integrated approach identifies new oncotargets in melanoma

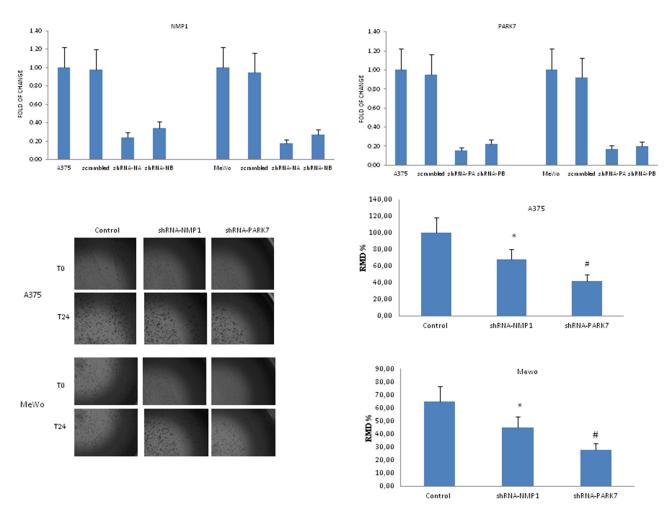
SUPPLEMENTARY MATERIALS



Supplementary Figure 1: Identified protein species marked with the numbers corresponding to the standard spot number.



Supplementary Figure 2: Cell viability in Mewo and A375A (**A**), migration ability of A375 cells (**B**) and gene expression modulation in A375 in A2P treated cells. (*p < 0.05; *p < 0.01).



Supplemental Figure 3: A375 and MeWo melanoma cells were transduced by lentiviral particles encoding sequences for different shRNAs specific for NMP1 (shRNA-NA and shRNA-NB) and PARK7 (shRNA-PA and shRNA-PB) and negative control (scrambled). Transduction efficiency was monitored after 24 h by Real Time gene expression analysis (A). Migration ability in knockdown NMP1 and PARK7 cells was evaluated by Scratch test (B) and Relative Migration Distance values (C) *(p < 0.05), *(p < 0.01).

Supplementary Table 1: Proteins identified and apoptosis. See Supplementary_Table_1

Supplementary Table 2: Protein-protein functional association in apoptosis. See Supplementary_Table_2

Supplementary Table 3: Proteins identified and metastasis. See Supplementary Table 3

Supplementary Table 4: Protein-protein functional association in metastasis. See Supplementary_Table 4

Supplementary Table 5: Mutual exclusion and co-occurrence analysis

Gene Pairs			co-occurrence			
Gene A	Gene B	<i>p</i> -Value	Log Odds Ratio	Association	Statistical significant	
ENO1	PTGES3	0.00000229	1.953	Tendency towards co-occurrence	Significant	
PARK7	STMN1	0.0000101	1.607	Tendency towards co-occurrence	Significant	
ENO1	PARK7	0.0000568	1.587	Tendency towards co-occurrence	Significant	
NPM1	PARK7	0.0183	1.1678	Tendency towards co-occurrence	Significant	
PARK7	SSBP1	0.000454	1.009	Tendency towards co-occurrence	Significant	
PTGES3	SSBP1	0.00555	0.874	Tendency towards co-occurrence	Significant	
ENO1	NPM1	0.0526	1.065	Tendency towards co-occurrence		
ENO1	STMN1	0.0561	0.800	Tendency towards co-occurrence		
PTGES3	NPM1	0.0683	0.978	Tendency towards co-occurrence		
NPM1	STMN1	0.114	0.796	Tendency towards co-occurrence		
PTGES3	PARK7	0.125	0.583	Tendency towards co-occurrence		
NPM1	SSBP1	0.166	0.497	Tendency towards co-occurrence		
STMN1	SSBP1	0.308	0.203	Tendency towards co-occurrence		
Gene	Gene Pairs			mutual exclusion		
Gene A	Gene B	<i>p</i> -Value	Log Odds Ratio	Association	Statistical significant	
ENO1	SSBP1	0.427	-0.141	Tendency towards mutual exclusion		
PTGES3	STMN1	0.126	-0.980	Tendency towards mutual exclusion		