

Supplemental Tables S1 and S2

The ratio of toxic-to-nontoxic microRNAs predicts platinum sensitivity in ovarian cancer

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Table S1: miRNAs involved in therapy resistance or associated with negative treatment outcome in OC

Main miRNA	Other miRNAs	Treatment	OvCa cell lines	Type of OvCa-patient sample	Clinical data/relevance	Identified miRNA target	Ref.
miR-17~92 cluster	-	Taxol	SKOV3 and Taxol-resistant SKOV3-TR30	-	-	BMI	1
miR-17-5p	-	Taxol	OVCAR3, SKOV3	-	-	PTEN	93
miR-21	-	Cisplatin	A2780R (Cis resistant)	-	-	-	2
miR-21-3p	>20 other miRNAs	Cisplatin	A2780, A2780-CP70, OVCAR5, OVCAR8 and IGROV1	Publicly available datasets	Yes	NAV3	3
miR-21-5p	-	Taxol	A2780, PEA1, PEA2, ALST, OVCAR432, OVCAR433, HeyA8, HeyA8-MDR, SKOV3ip, SKOV3-TR, SKOV3, cancer associated fibroblasts and adipocytes	OvCa	Yes	APAF1	4
miR-21-5p	-	Cisplatin	A2780, A2780- Cp resistant, SKOV-3	Recurrent patients enrolled in TCGA	Yes	PDCD4	5
miR-21-5p	320 other miRNAs	Cisplatin	SKOV3ip1, HeyA8, A2780, A2780CP20	-	-	PDCD4	6
miR-27a	-	Taxol	A2780 and A2780/Taxol resistant cells	-	-	HIPK2	7
miR-31	-	Cisplatin	OVCAR5, A2780 and its cisplatin-resistant derivatives, MCP1, CP70	Publicly available datasets	Yes	KCNMA1	8
miR-93-5p	7 other miRNAs	Cisplatin	OVCAR3, SKOV3, OVCAR3/CDDP, SKOV3/CDDP	OvCa	Yes	PTEN	94
miR-98-5p	let-7c-5p, let-7e-5p, let-7g-5p	Cisplatin	C13*, OV2008, A2780, HO8910, SKOV3, CaOV3, Hey, COV362,	Epithelial OvCa	Yes	Dicer1	9
miR-106a-5p	-	Cisplatin	OVCAR3, OVCAR3/CIS	-	-	PDCD4	95
miR-106a-5p	miR-96, miR-629	Taxol	SKOV3 and PTX resistant SKOV3 sublines	Ovarian serous tumors	Yes	BCL10, CASP-7	10
miR-125b-5p	-	Cisplatin	OV2008 and its resistant variant (C13*)	-	-	Bak1	11
miR-125b-2-3p	miR-126-5p	Cisplatin	A2780, A2780CIS, A2780TC1, A2780TC3	-	-	-	15
miR-129-5p	-	Taxol	SKOV3, SKOV3/PTX, HeyA8, HeyA8/PTX	-	-	ABCB	12
miR-130a	miR-374a, miR-146a, miR-182 and 32 others	Cisplatin	A2780, A2780/DDP	-	-	MDR-1/P-gp/PTEN	13
miR-130a	54 other miRNAs	Cisplatin	SKOV3, SKOV3/CIS	-	-	MDR1/P-gp	14
miR-130b	-	Cisplatin, Taxol	A2780, A2780/Taxol	-	-	-	96
miR-141-3p	5 other miRNAs	Cisplatin	A2780 and A2780 DDP, TOV112D, TOV21G, OV56, OAW42	Non-serous tumors	Yes	KEAP1	16
miR-149-5p	-	Cisplatin	TOV-21G, A2780, OVCAR-3, Caov-3, ES-2, HO-8910, SK-OV-3	Ovarian serous cystadenocarcinoma, benign ovarian lesions, TCGA dataset	Yes	Hippo signaling pathway	18
miR-197-3p	-	Taxol	A2780, SKOV3, A2780/Tax	-	-	NLK	20
miR-200c-with cytosolic HuR	-	Cisplatin, Taxol, Patupilone	-	OvCa patients	Yes	-	113
miR-214	miR-100, miR-199a-3p, miR-200a	Cisplatin	A2780S, A2780CP, OV119	Primary OvCa	Yes	PTEN	97
miR-214-3p	-	Cisplatin	A2780, A2780cp, OVCAR-3, SKOV3	-	-	MEG3	21
miR-216a-5p	-	Cisplatin	SKOV3, SKOV3 CR, OVCA433	-	-	PTEN	22
miR-224-5p	-	Cisplatin	A2780CP/A2780S, C13/OV2008	Ovarian papillary serous carcinoma	Yes	PRKCD	23
miR-363-3p	-	Taxol	SKOV3, KF, KF-TX, OVTOKO	OvCa	Yes	LATS2	24
miR-376c-3p	-	Cisplatin, Carboplatin	OV2008, A2780	Serous OvCa	Yes	ALK7	98
miR-433	-	Taxol	A2780, PEO1, PEO4	-	-	CDK6	25
miR-483-3p	-	Cisplatin, Oxiplatin	IGROV-1, IGROV-1/Pt1, IGROV-1/OHP, A2780, A2780/CP, OVCAR5, OVCAR5/Pt	GEO datasets	Yes	PRKCA	99
miR-490-3p	-	Taxol	A2780, A2780/Taxol	-	-	-	100
miR-493-3p	-	Taxol	CAOV- 3, OVCAR-8	High grade serous OvCa	Yes	Mad2	26
miR-493-5p	7 other miRNAs	PARPi, Platinum	BRCA2 mutant KURAMOCHI, OVSAHO, and VU423 cells	BrCa2 mutated OvCa, TCGA cohort	Yes	RNASEH2A, FEN1, SSRP1	27
miR-520g-3p	-	Cisplatin, Taxol	A2780, SKOV3, OVA433, ES-2, OV2008, CaOV-3, MCAS, OVK17	Epithelial OvCa	Yes	DAPK2	117
miR-551b-3p	-	Cisplatin	Side population from primary ascites-derived OvCa cells, SKOV3, 8910	OvCa	Yes	Foxo3, TRIM31	28
miR-622	-	Taxol, Carboplatin	-	High grade serous OvCa	Yes	-	89
miR-622	-	Cisplatin, Carboplatin, Olaparib, Veliparib	UWB1.289	OvCa datasets	Yes	Ku Complex	101
miR-630	-	Taxol	SKOV3 and SKOV3-TR	-	-	APAF-1	29
miR-1307	-	Cisplatin, Taxol	SKOV3 and SKOV3- TR30	Ovarian serous cystadenocarcinoma	Yes	DAPK3	32
miR-1307	-	Taxol	SKOV3, A2780, A2780/Taxol	-	-	ING5	33
let-7e	-	Taxol	A2780, A2780TAX	-	-	-	15

Supplemental Table S1: List of miRNAs shown to be involved in therapy resistance or associated with negative treatment outcome in OC. Each row consists of a main miRNA and other miRNAs studied in a published article as well as other details from the study.

Table S2: miRNAs that can sensitize OvCa cells to therapy or are associated with positive treatment outcome in OC

Main miRNA	Other miRNAs	Treatment	OvCa cell lines	Type of OvCa-patient sample	Clinical data/relevance	Identified miRNA target	Ref.
miR-7-5p	-	Taxol	HO8910pm	-	-	EGFR, ERK pathway	43
miR-9	miR-145, miR-429, miR-26a	Cisplatin	Primary ovarian tumor cells	Serous epithelial OvCa	Yes	-	44
miR-9-5p	-	Cisplatin, PARP1 inhibitor	OV2008, C13*, SKOV3, A2780, CaOV3	Serous OvCa	Yes	BRCA1	45
miR-15a-5p, miR-16-5p	-	Cisplatin	A2780, A2780- CP20, OVSAHO, OVCAR4, OSE tsT/hTERT	High grade serous OvCa	Yes	BMI1	46
miR-18a-3p	miR-15a-5p, miR-25-3p	Docetaxel	SKOV3IP1, HeyA8, HeyA8-MDR, A2780, A2780CP20	High grade serous OvCa	Yes	K-RAS	42
miR-29	-	Cisplatin	CP-70, A2780, HeyAC2, SKOV-3	-	-	COL1A1	37
miR-29b	-	Taxol, Platinum, Cyclophosphamide	OVCAR3	High grade serous, clear cell, and mucinous ovarian adenocarcinomas	Yes	MAPK10, ATG9A	38
miR-29b	miR-7, miR-18a, miR-19a	Taxol	ES2, AMOC2	Epithelial OvCa	Yes	Mcl-1	39
miR-30a/c-5p	-	Cisplatin	A2780, A2780/CP70	-	-	DNMT1, Snail	103
miR-31	-	Taxol, Carboplatin	KFrHuman KF OvCa cells and KFr13 cisplatin-resistant KF13, SK-OV-3, OVCAR-3, TU-OM-144	Serous OvCa	Yes	MET	40
miR-34c-5p	-	Carboplatin, Docetaxel	OVS1, SKOV-I6	Ovarian serous cystadenocarcinoma	Yes	AREG	41
miR-100	-	Cisplatin	SKOV3, SKOV3/DDP	-	-	mTOR, PLK1	47
miR-101-3p	-	Cisplatin	A2780, A2780/DDP, SKOV3, SKOV3/DDP	Epithelial OvCa	Yes	EZH2	48
miR-106a-5p	-	Cisplatin	A2780, A2780/DDP	-	-	MCL1	49
miR-125b-2-3p	-	Taxol	A2780, A2780TAX	-	-	-	15
miR-128	-	Cisplatin	SKOV3, SKOV3/CP	-	-	ABCC5, BMI1	50
miR-130a-3p	-	Cisplatin	A2780, A2780/DDP	-	-	XIAP	104
miR-130a-3p	let-7e, miR-335	Cisplatin	A2780, A2780CIS, A2780TC1, A2780TC3	-	-	M-CSF	15
miR-130b-3p	-	Taxol, Cisplatin	A2780, A2780/CP, A2780/TAX, SKOV3, SKOV3/ TAX	Malignant and benign OvCa	Yes	CSF-1	51
miR-133b-3p	-	Taxol, Cisplatin	A2780, A2780/DDP, A2780/Taxol, OVCAR3	OvCa	Yes	GST- π , MDR1	52
miR-134 cluster	-	Taxol	SKOV3, Taxol-resistant SKOV3-TR30	-	-	c-Myc	1
miR-134-5p	-	Taxol	SKOV3, Taxol-resistant SKOV3-TR30	Serous epithelial OvCa	Yes	TAB1	53
miR-134-5p	-	Taxol	SKOV3, Taxol-resistant SKOV3-TR30	Serous epithelial OvCa	Yes	Pak2	54
miR-136-5p	-	Taxol	SKOV3 & its PTX-resistant sublines	High grade serous OvCa	Yes	Notch3	105
miR-136	-	Cisplatin	OV2008, C13	Epithelial OvCa	Yes	-	55
miR-137	-	Cisplatin	PEO1, PEO4, IGROV1, OV90, IGROV1 CR, OV90 CR	OvCa	Yes	EZH2	56
miR-139-5p	-	Cisplatin	CAOV3, SNU119, CAOV3/cDDP, SNU119/cDDP	OvCa	Yes	ATP7A/B	57
miR-139-5p	-	Cisplatin	SKOV3, A2780, SKOV3-R, A2780-R	-	-	c-Jun	58
miR-141, miR-200a	-	Taxol	SKOV3	OvCa patient, publicly available datasets	Yes	-	116
miR-142-5p	-	Cisplatin	OVCAR3, SKOV3	Epithelial OvCa	Yes	XIAP1, BIRC3, BCL2, BCL2L2, MCL1	59
miR-145-5p	-	Taxol	A2780, SKOV3, A2780/PTX, SKOV3/PTX	Serous epithelial OvCa	Yes	Sp1, Cdk6, P-gp, pRb	17
miR-146a-5p	-	Cisplatin	OVCAR3, SKOV3	Primary epithelial OvCa cells from freshly collected malignant ascites	Yes	XIAP, BCL2L2 and BIRC5	60
miR-146b-5p	-	Taxol, Cisplatin	SKOV3, HO8910, A2780, OVCAR-3	Epithelial OvCa	Yes	FBXL10	61
miR-149-5p	-	Taxol	A2780	-	-	MyD88	19
miR-152-3p	-	Cisplatin	C13*, OV2008, A2780, HO8910, SKOV3, CaOV3, Hey, COV362,	Epithelial OvCa	Yes	-	9
miR-152-3p, miR-185-5p	-	Cisplatin	SKOV3, A2780, A2780/DDP, SKOV3/DDP	-	-	DNMT1	62
miR-155-5p	-	Cisplatin	SKOV3, A2780	Primary epithelial OvCa cells from freshly collected malignant ascites	Yes	XIAP	63
miR-182	-	Platinum	-	High grade serous OvCa	Yes	-	64
miR-186-5p	-	Cisplatin	A2780, OV2008, OVCAR3, SKOV3, CAOV3, the related cDDP-resistant cell lines (ACRP, C13* and OVCAR3/ DDP)	Serous OvCa	Yes	Twist1	65
miR-186-5p	-	Taxol, Cisplatin	OVCAR3, A2780, A2780/DDP, A2780/Taxol	-	-	ABC1	66

Table S2, cont.: miRNAs that can sensitize OvCa cells to therapy or are associated with positive treatment outcome in OC							
Main miRNA	Other miRNAs	Treatment	OvCa cell lines	Type of OvCa-patient sample	Clinical data/relevance	Identified miRNA target	Ref.
miR-199a	-	Taxol, Cisplatin, Adriamycin	CD44+/CD117+ ovarian tumor cells from inpatient clinic patients	Epithelial OvCa	Yes	CD44	67
miR-199a-3p	-	Cisplatin	SKOV3, SKOV3-CDDP	OvCa	Yes	ITGB8	68
miR-199-3p	-	Cisplatin, 5Aza-dC	SKOV3, HO-8910, IOSE386 (immortalized ovarian epithelial cell line)	Epithelial OvCa	Yes	DDR1	106
miR-199b-5p	-	Cisplatin	A2780s, A2780cp, OV2008, C13*, SKOV3, OVCA433, ES-2	Epithelial OvCa	Yes	JAG1	69
miR-200 family	-	Taxol	-	OvCa	Yes	β -tubulin III	114
miR-200a	-	Taxol	OVCAR3	-	-	-	115
miR-200b, miR-200c	-	Cisplatin	HIOSE-80, MCC-3, SKOV3, A2780CP, A2780, OV119	Primary ovarian tumor	Yes	DNMTs	70
miR-200c	-	Taxol	HEY, SKOV3, OVCA 420, OV 1847, OVCA 433	Serous OvCa	Yes	TUBB3	71
miR-200c-3p	-	Cisplatin, Olaparib	UWB1.289, UWB1.289-BRCA and SKOV3	Serous and mucinous carcinomas	Yes	Neuropilin 1	72
miR-200c-3p	-	Cisplatin, Taxol, Doxorubicin, Mitomycin C, Vincristine, Etoposide	2008, Hey, SKOV3, OVCA 420, OVCA 433	-	-	TUBB3	107
miR-200c-with nuclear HuR	-	Cisplatin, Taxol, Patupilone	-	OvCa patients	Yes	-	113
miR-204-5p	-	Cisplatin	A2780, SKOV3, OVCAR3, OV2008, C13*	Epithelial OvCa	Yes	IL-6R	73
miR-215	-	Taxol	OVCAR3, CAOV3, SKOV3, HEY	Epithelial OvCa	Yes	XIAP	74
miR-216b-5p	-	Cisplatin	SKOV3, SKOV3/CDDP	OvCa	Yes	PARP1	75
miR-335	-	-	-	Epithelial OvCa	Yes	-	108
miR-335-5p	8 other miRNAs	Cisplatin	A2780, A2780/DDP, OV90, OVCAR-3,	-	-	BCL2L2	76
miR-338-3p	-	Cisplatin	A2780, A2780/DDP, SKOV3, SKOV3/CDDP	PrimaryOvCa	Yes	WNT2B	77
miR-363-3p	-	Cisplatin	OV2008, A2780, C13, A2780cp	OvCa	Yes	Snail	78
miR-370-3p	-	Cisplatin	SKOV3, UWB1.289, HEY, OV2008, IGROV1, TOV112D, ES-2, TOV21G	Endometriod OvCa	Yes	ENG	109
miR-378a-3p	-	Cisplatin	OVCAR3, SKOV3	OvCa	Yes	MAPK1, GRB2	79
miR-383-5p	-	Taxol	SKOV3, A2780, OVCAR-3, Caov-3	OvCa	Yes	TRIM27	80
miR-411-5p	-	Cisplatin, Taxol	SKOV3, OVCAR3	Primary OvCa	Yes	ABCG2	81
miR-429	-	Cisplatin	OVCAR3 & Hey	-	-	-	112
miR-449a	-	Cisplatin	A2780, A2780/CDDP, SKOV3, SKOV3/CDDP	-	-	NOTCH1	110
miR-489-3p	-	Cisplatin	SKOV3, OVCAR3, SKOV3/CDDP, OVCAR3/CDDP	-	-	Akt3	82
miR-490-3p	-	Cisplatin	SKOV3, OVCAR3, SKOV3/CDDP, OVCAR3/CDDP	OvCa	Yes	ABCC2	83
miR-497-5p	9 other miRNAs	Cisplatin	A2780, A2780/CP, SKOV3, SKOV3/CP	OvCa	Yes	mTOR, P70S6K1	84
miR-503	-	Cisplatin	SKOV3, SKOV3/DDP	-	-	PI3K p85	85
miR-503-5p	-	Taxol	CaOV3, SKOV3, OVCAR3, OV90, CaOV3/PTX-R, SKOV3/PTX-R	-	-	CD97	86
miR-506-3p	-	Cisplatin, Olaparib	HeyA8, OVCA433, SKOV3	Serous OvCa	Yes	RAD-51	111
miR-509-3p	-	Cisplatin	SKOV3	OvCa tissue	Yes	GOLPH3, WLS	87
miR-514-5p	-	Cisplatin	SKOV3, OVCA433	NCBI's GEO datasets	Yes	ATP binding cassette subfamily	88
miR-591	miR-106a-5p	Taxol	SKOV3 and PTX resistant SKOV3 sublines	Epithelial OvCa	Yes	ZEB1	10
miR-708-5p	-	Cisplatin	A2780, A2780/DDP, SKOV3, SKOV3/CDDP	-	-	IGF2BP1	90
miR-770-5p	-	Cisplatin	OV2008, A2780, C13, A2780cp	Epithelial OvCa	Yes	ERCC2	91
miR-873	-	Cisplatin, Taxol	A2780, A2780/DDP, A2780/Taxol, OVCAR3	-	-	ABCB1	30
miR-874-5p, miR-874-3p	-	Taxol	Caov3, SKOV3	Epithelial OvCa	Yes	SIK2	92
miR-1294	-	Cisplatin	SKOV3	Advanced stage OvCa	Yes	IGF1R	31
let-7d-3p	let-7a	Taxol, Carboplatin	SKOV-3	High grade serous, endometrioid, mucinous, serous papillary low grade or clear cell OvCa	Yes	-	34
let-7e-5p	-	Cisplatin	A2780, HO8910, ES2, CAOV3, SKOV3	Serous epithelial OvCa	Yes	BRCA1, Rad51	35
let-7e	-	Cisplatin	A2780, ES2, SKOV3, A2780/CP	-	-	-	102
let-7g	let-7d	Taxol, Carboplatin, Vinblastine	ADR-RES, OVCAR-8, T47D, IGROV1	Epithelial OvCa	Yes	MDR1, IMP-1	36

Supplemental Table S2: List of miRNAs shown to either sensitize OC to therapy or associated with positive treatment outcome in OC. Each row consists of a main miRNA and other miRNAs studied in a published article as well as other details from the study.

References Supplemental Table S1 and S2

1. Zhu H, Yang SY, Wang J, Wang L, Han SY. Evidence for miR-17-92 and miR-134 gene cluster regulation of ovarian cancer drug resistance. *Eur Rev Med Pharmacol Sci* **2016**;20:2526-31
2. Vandghanooni S, Eskandani M, Barar J, Omid Y. AS1411 aptamer-decorated cisplatin-loaded poly(lactic-co-glycolic acid) nanoparticles for targeted therapy of miR-21-inhibited ovarian cancer cells. *Nanomedicine* **2018**;13:2729-58
3. Pink RC, Samuel P, Massa D, Caley DP, Brooks SA, Carter DR. The passenger strand, miR-21-3p, plays a role in mediating cisplatin resistance in ovarian cancer cells. *Gynecol Oncol* **2015**;137:143-51
4. Au Yeung CL, Co NN, Tsuruga T, Yeung TL, Kwan SY, Leung CS, *et al.* Exosomal transfer of stroma-derived miR21 confers paclitaxel resistance in ovarian cancer cells through targeting APAF1. *Nat Commun* **2016**;7:11150
5. Chan JK, Blansit K, Kiet T, Sherman A, Wong G, Earle C, *et al.* The inhibition of miR-21 promotes apoptosis and chemosensitivity in ovarian cancer. *Gynecol Oncol* **2014**;132:739-44
6. Echevarría-Vargas IM, Valiyeva F, Vivas-Mejía PE. Upregulation of miR-21 in cisplatin resistant ovarian cancer via JNK-1/c-Jun pathway. *PLoS One* **2014**;9:e97094
7. Li Z, Hu S, Wang J, Cai J, Xiao L, Yu L, *et al.* MiR-27a modulates MDR1/P-glycoprotein expression by targeting HIPK2 in human ovarian cancer cells. *Gynecol Oncol* **2010**;119:125-30
8. Samuel P, Pink RC, Caley DP, Currie JM, Brooks SA, Carter DR. Over-expression of miR-31 or loss of KCNMA1 leads to increased cisplatin resistance in ovarian cancer cells. *Tumour Biol* **2016**;37:2565-73
9. Wang Y, Bao W, Liu Y, Wang S, Xu S, Li X, *et al.* miR-98-5p contributes to cisplatin resistance in epithelial ovarian cancer by suppressing miR-152 biogenesis via targeting Dicer1. *Cell Death Dis* **2018**;9:447
10. Huh JH, Kim TH, Kim K, Song JA, Jung YJ, Jeong JY, *et al.* Dysregulation of miR-106a and miR-591 confers paclitaxel resistance to ovarian cancer. *Br J Cancer* **2013**;109:452-61
11. Kong F, Sun C, Wang Z, Han L, Weng D, Lu Y, *et al.* miR-125b confers resistance of ovarian cancer cells to cisplatin by targeting pro-apoptotic Bcl-2 antagonist killer 1. *J Huazhong Univ Sci Tech Med Sci* **2011**;31:543
12. Wang J, Ye C, Liu J, Hu Y. UCA1 confers paclitaxel resistance to ovarian cancer through miR-129/ABCB1 axis. *Biochem Biophys Res Commun* **2018**;501:1034-40
13. Li N, Yang L, Wang H, Yi T, Jia X, Chen C, *et al.* MiR-130a and MiR-374a Function as Novel Regulators of Cisplatin Resistance in Human Ovarian Cancer A2780 Cells. *PLoS One* **2015**;10:e0128886
14. Yang L, Li N, Wang H, Jia X, Wang X, Luo J. Altered microRNA expression in cisplatin-resistant ovarian cancer cells and upregulation of miR-130a associated with MDR1/P-glycoprotein-mediated drug resistance. *Oncol Rep* **2012**;28:592-600
15. Sorrentino A, Liu CG, Addario A, Peschle C, Scambia G, Ferlini C. Role of microRNAs in drug-resistant ovarian cancer cells. *Gynecol Oncol* **2008**;111:478-86
16. van Jaarsveld MT, Helleman J, Boersma AW, van Kuijk PF, van Ijcken WF, Despierre E, *et al.* miR-141 regulates KEAP1 and modulates cisplatin sensitivity in ovarian cancer cells. *Oncogene* **2013**;32:4284-93
17. Zhu X, Li Y, Xie C, Yin X, Liu Y, Cao Y, *et al.* miR-145 sensitizes ovarian cancer cells to paclitaxel by targeting Sp1 and Cdk6. *Int J Cancer* **2014**;135:1286-96
18. Xu M, Xiao J, Chen M, Yuan L, Li J, Shen H, *et al.* miR-149-5p promotes chemotherapeutic resistance in ovarian cancer via the inactivation of the Hippo signaling pathway. *Int J Oncol* **2018**;52:815-27
19. Zhan Y, Xiang F, Wu R, Xu J, Ni Z, Jiang J, *et al.* MiRNA-149 modulates chemosensitivity of ovarian cancer A2780 cells to paclitaxel by targeting MyD88. *J Ovarian Res* **2015**;8:48

20. Zou D, Wang D, Li R, Tang Y, Yuan L, Long X, *et al.* MiR-197 induces Taxol resistance in human ovarian cancer cells by regulating NLK. *Tumour Biol* **2015**;36:6725-32
21. Zhang J, Liu J, Xu X, Li L. Curcumin suppresses cisplatin resistance development partly via modulating extracellular vesicle-mediated transfer of MEG3 and miR-214 in ovarian cancer. *Cancer Chemother Pharmacol* **2017**;79:479-87
22. Jin P, Liu Y, Wang R. STAT3 regulated miR-216a promotes ovarian cancer proliferation and cisplatin resistance. *Biosci Rep* **2018**;38
23. Zhao H, Bi T, Qu Z, Jiang J, Cui S, Wang Y. Expression of miR-224-5p is associated with the original cisplatin resistance of ovarian papillary serous carcinoma. *Oncol Rep* **2014**;32:1003-12
24. Mohamed Z, Hassan MK, Okasha S, Mitamura T, Keshk S, Konno Y, *et al.* miR-363 confers taxane resistance in ovarian cancer by targeting the Hippo pathway member, LATS2. *Oncotarget* **2018**;9:30053-65
25. Weiner-Gorzel K, Dempsey E, Milewska M, McGoldrick A, Toh V, Walsh A, *et al.* Overexpression of the microRNA miR-433 promotes resistance to paclitaxel through the induction of cellular senescence in ovarian cancer cells. *Cancer Med* **2015**;4:745-58
26. Tambe M, Pruikkonen S, Mäki-Jouppila J, Chen P, Elgaaen BV, Straume AH, *et al.* Novel Mad2-targeting miR-493-3p controls mitotic fidelity and cancer cells' sensitivity to paclitaxel. *Oncotarget* **2016**;7:12267-85
27. Meghani K, Fuchs W, Detappe A, Drané P, Gogola E, Rottenberg S, *et al.* Multifaceted Impact of MicroRNA 493-5p on Genome-Stabilizing Pathways Induces Platinum and PARP Inhibitor Resistance in BRCA2-Mutated Carcinomas. *Cell Rep* **2018**;23:100-11
28. Wei Z, Liu Y, Wang Y, Zhang Y, Luo Q, Man X, *et al.* Downregulation of Foxo3 and TRIM31 by miR-551b in side population promotes cell proliferation, invasion, and drug resistance of ovarian cancer. *Med Oncol* **2016**;33:126
29. Eoh KJ, Lee SH, Kim HJ, Lee JY, Kim S, Kim SW, *et al.* MicroRNA-630 inhibitor sensitizes chemoresistant ovarian cancer to chemotherapy by enhancing apoptosis. *Biochem Biophys Res Commun* **2018**;497:513-20
30. Wu DD, Li XS, Meng XN, Yan J, Zong ZH. MicroRNA-873 mediates multidrug resistance in ovarian cancer cells by targeting ABCB1. *Tumour Biol* **2016**;37:10499-506
31. Zhang Y, Huang S, Guo Y, Li L. MiR-1294 confers cisplatin resistance in ovarian Cancer cells by targeting IGF1R. *Biomed Pharmacother* **2018**;106:1357-63
32. Zhou Y, Wang M, Wu J, Jie Z, Chang S, Shuang T. The clinicopathological significance of miR-1307 in chemotherapy resistant epithelial ovarian cancer. *J Ovarian Res* **2015**;8:23
33. Chen WT, Yang YJ, Zhang ZD, An Q, Li N, Liu W, *et al.* MiR-1307 promotes ovarian cancer cell chemoresistance by targeting the ING5 expression. *J Ovarian Res* **2017**;10:1
34. García-Vázquez R, Gallardo Rincón D, Ruiz-García E, Meneses García A, Hernández De La Cruz ON, Astudillo-De La Vega H, *et al.* let-7d-3p is associated with apoptosis and response to neoadjuvant chemotherapy in ovarian cancer. *Oncol Rep* **2018**;39:3086-94
35. Xiao M, Cai J, Cai L, Jia J, Xie L, Zhu Y, *et al.* Let-7e sensitizes epithelial ovarian cancer to cisplatin through repressing DNA double strand break repair. *J Ovarian Res* **2017**;10:24
36. Boyerinas B, Park SM, Murmann AE, Gwin K, Montag AG, Zillhardt M, *et al.* Let-7 modulates acquired resistance of ovarian cancer to Taxanes via IMP-1-mediated stabilization of multidrug resistance 1. *Int J Cancer* **2012**;130:1787-97
37. Yu PN, Yan MD, Lai HC, Huang RL, Chou YC, Lin WC, *et al.* Downregulation of miR-29 contributes to cisplatin resistance of ovarian cancer cells. *Int J Cancer* **2014**;134:542-51
38. Dai F, Zhang Y, Chen Y. Involvement of miR-29b signaling in the sensitivity to chemotherapy in patients with ovarian carcinoma. *Hum Pathol* **2014**;45:1285-93
39. Sugio A, Iwasaki M, Habata S, Mariya T, Suzuki M, Osogami H, *et al.* BAG3 upregulates Mcl-1 through downregulation of miR-29b to induce anticancer drug resistance in ovarian cancer. *Gynecol Oncol* **2014**;134:615-23
40. Mitamura T, Watari H, Wang L, Kanno H, Hassan MK, Miyazaki M, *et al.* Downregulation of miRNA-31 induces taxane resistance in ovarian cancer cells through increase of receptor tyrosine kinase MET. *Oncogenesis* **2013**;2:e40

41. Tung SL, Huang WC, Hsu FC, Yang ZP, Jang TH, Chang JW, *et al.* miRNA-34c-5p inhibits amphiregulin-induced ovarian cancer stemness and drug resistance via downregulation of the AREG-EGFR-ERK pathway. *Oncogenesis* **2017**;6:e326
42. Rodriguez-Aguayo C, Monroig PDC, Redis RS, Bayraktar E, Almeida MI, Ivan C, *et al.* Regulation of hnRNPA1 by microRNAs controls the miR-18a-K-RAS axis in chemotherapy-resistant ovarian cancer. *Cell Discov* **2017**;3:17029
43. Cui X, Sun Y, Shen M, Song K, Yin X, Di W, *et al.* Enhanced Chemotherapeutic Efficacy of Paclitaxel Nanoparticles Co-delivered with MicroRNA-7 by Inhibiting Paclitaxel-Induced EGFR/ERK pathway Activation for Ovarian Cancer Therapy. *ACS Appl Mater Interfaces* **2018**;10:7821-31
44. Zhao HM, Wei W, Sun YH, Gao JH, Wang Q, Zheng JH. MicroRNA-9 promotes tumorigenesis and mediates sensitivity to cisplatin in primary epithelial ovarian cancer cells. *Tumour Biol* **2015**;36:6867-73
45. Sun C, Li N, Yang Z, Zhou B, He Y, Weng D, *et al.* miR-9 regulation of BRCA1 and ovarian cancer sensitivity to cisplatin and PARP inhibition. *J Natl Cancer Inst* **2013**;105:1750-8
46. Dwivedi SK, Mustafi SB, Mangala LS, Jiang D, Pradeep S, Rodriguez-Aguayo C, *et al.* Therapeutic evaluation of microRNA-15a and microRNA-16 in ovarian cancer. *Oncotarget* **2016**;7:15093-104
47. Guo P, Xiong X, Zhang S, Peng D. miR-100 resensitizes resistant epithelial ovarian cancer to cisplatin. *Oncol Rep* **2016**;36:3552-8
48. Liu L, Guo J, Yu L, Cai J, Gui T, Tang H, *et al.* miR-101 regulates expression of EZH2 and contributes to progression of and cisplatin resistance in epithelial ovarian cancer. *Tumour Biol* **2014**;35:12619-26
49. Rao YM, Shi HR, Ji M, Chen CH. MiR-106a targets Mcl-1 to suppress cisplatin resistance of ovarian cancer A2780 cells. *J Huazhong Univ Sci Technol Med Sci* **2013**;33:567-72
50. Li B, Chen H, Wu N, Zhang WJ, Shang LX. Deregulation of miR-128 in ovarian cancer promotes cisplatin resistance. *Int J Gynecol Cancer* **2014**;24:1381-8
51. Yang C, Cai J, Wang Q, Tang H, Cao J, Wu L, *et al.* Epigenetic silencing of miR-130b in ovarian cancer promotes the development of multidrug resistance by targeting colony-stimulating factor 1. *Gynecol Oncol* **2012**;124:325-34
52. Chen S, Jiao JW, Sun KX, Zong ZH, Zhao Y. MicroRNA-133b targets glutathione S-transferase π expression to increase ovarian cancer cell sensitivity to chemotherapy drugs. *Drug Des Devel Ther* **2015**;9:5225-35
53. Shuang T, Wang M, Zhou Y, Shi C, Wang D. NF- κ B1, c-Rel, and ELK1 inhibit miR-134 expression leading to TAB1 upregulation in paclitaxel-resistant human ovarian cancer. *Oncotarget* **2017**;8:24853-68
54. Shuang T, Wang M, Shi C, Zhou Y, Wang D. Down-regulated expression of miR-134 contributes to paclitaxel resistance in human ovarian cancer cells. *FEBS Lett* **2015**;589:3154-64
55. Zhao H, Liu S, Wang G, Wu X, Ding Y, Guo G, *et al.* Expression of miR-136 is associated with the primary cisplatin resistance of human epithelial ovarian cancer. *Oncol Rep* **2015**;33:591-8
56. Sun J, Cai X, Yung MM, Zhou W, Li J, Zhang Y, *et al.* miR-137 mediates the functional link between c-Myc and EZH2 that regulates cisplatin resistance in ovarian cancer. *Oncogene* **2019**;38:564-80
57. Xiao F, Li Y, Wan Y, Xue M. MicroRNA-139 sensitizes ovarian cancer cell to cisplatin-based chemotherapy through regulation of ATP7A/B. *Cancer Chemother Pharmacol* **2018**;81:935-47
58. Jiang Y, Jiang J, Jia H, Qiao Z, Zhang J. Recovery of miR-139-5p in Ovarian Cancer Reverses Cisplatin Resistance by Targeting C-Jun. *Cell Physiol Biochem* **2018**;51:129-41
59. Li X, Chen W, Jin Y, Xue R, Su J, Mu Z, *et al.* miR-142-5p enhances cisplatin-induced apoptosis in ovarian cancer cells by targeting multiple anti-apoptotic genes. *Biochem Pharmacol* **2019**;161:98-112
60. Li X, Jin Y, Mu Z, Chen W, Jiang S. MicroRNA-146a-5p enhances cisplatin-induced apoptosis in ovarian cancer cells by targeting multiple anti-apoptotic genes. *Int J Oncol* **2017**;51:327-35

61. Yan M, Yang X, Shen R, Wu C, Wang H, Ye Q, *et al.* miR-146b promotes cell proliferation and increases chemosensitivity, but attenuates cell migration and invasion via FBXL10 in ovarian cancer. *Cell Death Dis* **2018**;9:1123
62. Xiang Y, Ma N, Wang D, Zhang Y, Zhou J, Wu G, *et al.* MiR-152 and miR-185 co-contribute to ovarian cancer cells cisplatin sensitivity by targeting DNMT1 directly: a novel epigenetic therapy independent of decitabine. *Oncogene* **2014**;33:378-86
63. Chen W, Huang L, Hao C, Zeng W, Luo X, Li X, *et al.* MicroRNA-155 promotes apoptosis in SKOV3, A2780, and primary cultured ovarian cancer cells. *Tumour Biol* **2016**;37:9289-99
64. Ramalho S, Andrade LAA, Filho CC, Natal RA, Pavanello M, Ferracini AC, *et al.* Role of discoidin domain receptor 2 (DDR2) and microRNA-182 in survival of women with high-grade serous ovarian cancer. *Tumour Biol* **2019**;41:1010428318823988
65. Zhu X, Shen H, Yin X, Long L, Xie C, Liu Y, *et al.* miR-186 regulation of Twist1 and ovarian cancer sensitivity to cisplatin. *Oncogene* **2016**;35:323-32
66. Sun KX, Jiao JW, Chen S, Liu BL, Zhao Y. MicroRNA-186 induces sensitivity of ovarian cancer cells to paclitaxel and cisplatin by targeting ABCB1. *J Ovarian Res* **2015**;8:80
67. Cheng W, Liu T, Wan X, Gao Y, Wang H. MicroRNA-199a targets CD44 to suppress the tumorigenicity and multidrug resistance of ovarian cancer-initiating cells. *Febs j* **2012**;279:2047-59
68. Cui Y, Wu F, Tian D, Wang T, Lu T, Huang X, *et al.* miR-199a-3p enhances cisplatin sensitivity of ovarian cancer cells by targeting ITGB8. *Oncol Rep* **2018**;39:1649-57
69. Liu MX, Siu MK, Liu SS, Yam JW, Ngan HY, Chan DW. Epigenetic silencing of microRNA-199b-5p is associated with acquired chemoresistance via activation of JAG1-Notch1 signaling in ovarian cancer. *Oncotarget* **2014**;5:944-58
70. Liu J, Zhang X, Huang Y, Zhang Q, Zhou J, Zhang X, *et al.* miR-200b and miR-200c co-contribute to the cisplatin sensitivity of ovarian cancer cells by targeting DNA methyltransferases. *Oncol Lett* **2019**;17:1453-60
71. Cittelly DM, Dimitrova I, Howe EN, Cochrane DR, Jean A, Spoelstra NS, *et al.* Restoration of miR-200c to ovarian cancer reduces tumor burden and increases sensitivity to paclitaxel. *Mol Cancer Ther* **2012**;11:2556-65
72. Vescarelli E, Gerini G, Megiorni F, Anastasiadou E, Pontecorvi P, Solito L, *et al.* MiR-200c sensitizes Olaparib-resistant ovarian cancer cells by targeting Neuropilin 1. *J Exp Clin Cancer Res* **2020**;39:3
73. Zhu X, Shen H, Yin X, Long L, Chen X, Feng F, *et al.* IL-6R/STAT3/miR-204 feedback loop contributes to cisplatin resistance of epithelial ovarian cancer cells. *Oncotarget* **2017**;8:39154-66
74. Ge G, Zhang W, Niu L, Yan Y, Ren Y, Zou Y. miR-215 functions as a tumor suppressor in epithelial ovarian cancer through regulation of the X-chromosome-linked inhibitor of apoptosis. *Oncol Rep* **2016**;35:1816-22
75. Liu Y, Niu Z, Lin X, Tian Y. MiR-216b increases cisplatin sensitivity in ovarian cancer cells by targeting PARP1. *Cancer Gene Ther* **2017**;24:208-14
76. Liu R, Guo H, Lu S. MiR-335-5p restores cisplatin sensitivity in ovarian cancer cells through targeting BCL2L2. *Cancer Med* **2018**;7:4598-609
77. Niu Q, Liu Z, Gao J, Wang Q. MiR-338-3p Enhances Ovarian Cancer Cell Sensitivity to Cisplatin by Downregulating WNT2B. *Yonsei Med J* **2019**;60:1146-56
78. Cao L, Wan Q, Li F, Tang CE. MiR-363 inhibits cisplatin chemoresistance of epithelial ovarian cancer by regulating snail-induced epithelial-mesenchymal transition. *BMB Rep* **2018**;51:456-61
79. Xu ZH, Yao TZ, Liu W. miR-378a-3p sensitizes ovarian cancer cells to cisplatin through targeting MAPK1/GRB2. *Biomed Pharmacother* **2018**;107:1410-7
80. Jiang J, Xie C, Liu Y, Shi Q, Chen Y. Up-regulation of miR-383-5p suppresses proliferation and enhances chemosensitivity in ovarian cancer cells by targeting TRIM27. *Biomed Pharmacother* **2019**;109:595-601

81. Chen FD, Chen HH, Ke SC, Zheng LR, Zheng XY. SLC27A2 regulates miR-411 to affect chemo-resistance in ovarian cancer. *Neoplasma* **2018**;65:915-24
82. Wu H, Xiao Z, Zhang H, Wang K, Liu W, Hao Q. MiR-489 modulates cisplatin resistance in human ovarian cancer cells by targeting Akt3. *Anticancer Drugs* **2014**;25:799-809
83. Tian J, Xu YY, Li L, Hao Q. MiR-490-3p sensitizes ovarian cancer cells to cisplatin by directly targeting ABCC2. *American journal of translational research* **2017**;9:1127-38
84. Xu S, Fu GB, Tao Z, OuYang J, Kong F, Jiang BH, *et al.* MiR-497 decreases cisplatin resistance in ovarian cancer cells by targeting mTOR/P70S6K1. *Oncotarget* **2015**;6:26457-71
85. Wu D, Lu P, Mi X, Miao J. Downregulation of miR-503 contributes to the development of drug resistance in ovarian cancer by targeting PI3K p85. *Arch Gynecol Obstet* **2018**;297:699-707
86. Park GB, Kim D. MicroRNA-503-5p Inhibits the CD97-Mediated JAK2/STAT3 Pathway in Metastatic or Paclitaxel-Resistant Ovarian Cancer Cells. *Neoplasia* **2019**;21:206-15
87. Niu L, Ni H, Hou Y, Du Q, Li H. miR-509-3p enhances platinum drug sensitivity in ovarian cancer. *Gene* **2019**;686:63-7
88. Xiao S, Zhang M, Liu C, Wang D. MiR-514 attenuates proliferation and increases chemoresistance by targeting ATP binding cassette subfamily in ovarian cancer. *Mol Genet Genomics* **2018**;293:1159-67
89. Vigneron N, Vernon M, Meryet-Figuière M, Lambert B, Briand M, Louis MH, *et al.* Predictive Relevance of Circulating miR-622 in Patients with Newly Diagnosed and Recurrent High-Grade Serous Ovarian Carcinoma. *Clin Chem* **2020**;66:352-62
90. Qin X, Sun L, Wang J. Restoration of microRNA-708 sensitizes ovarian cancer cells to cisplatin via IGF2BP1/Akt pathway. *Cell Biol Int* **2017**;41:1110-8
91. Zhao H, Yu X, Ding Y, Zhao J, Wang G, Wu X, *et al.* MiR-770-5p inhibits cisplatin chemoresistance in human ovarian cancer by targeting ERCC2. *Oncotarget* **2016**;7:53254-68
92. Xia B, Lin M, Dong W, Chen H, Li B, Zhang X, *et al.* Upregulation of miR-874-3p and miR-874-5p inhibits epithelial ovarian cancer malignancy via SIK2. *J Biochem Mol Toxicol* **2018**;32:e22168
93. Fang Y, Xu C, Fu Y. MicroRNA-17-5p induces drug resistance and invasion of ovarian carcinoma cells by targeting PTEN signaling. *J Biol Res (Thessalon)* **2015**;22:12
94. Fu X, Tian J, Zhang L, Chen Y, Hao Q. Involvement of microRNA-93, a new regulator of PTEN/Akt signaling pathway, in regulation of chemotherapeutic drug cisplatin chemosensitivity in ovarian cancer cells. *FEBS Lett* **2012**;586:1279-86
95. Li H, Xu H, Shen H, Li H. microRNA-106a modulates cisplatin sensitivity by targeting PDCD4 in human ovarian cancer cells. *Oncol Lett* **2014**;7:183-8
96. Zong C, Wang J, Shi TM. MicroRNA 130b enhances drug resistance in human ovarian cancer cells. *Tumour Biol* **2014**;35:12151-6
97. Yang H, Kong W, He L, Zhao JJ, O'Donnell JD, Wang J, *et al.* MicroRNA expression profiling in human ovarian cancer: miR-214 induces cell survival and cisplatin resistance by targeting PTEN. *Cancer Res* **2008**;68:425-33
98. Ye G, Fu G, Cui S, Zhao S, Bernaudo S, Bai Y, *et al.* MicroRNA 376c enhances ovarian cancer cell survival by targeting activin receptor-like kinase 7: implications for chemoresistance. *J Cell Sci* **2011**;124:359-68
99. Arrighetti N, Cossa G, De Cecco L, Stucchi S, Carenini N, Corna E, *et al.* PKC-alpha modulation by miR-483-3p in platinum-resistant ovarian carcinoma cells. *Toxicol Appl Pharmacol* **2016**;310:9-19
100. Chen S, Chen X, Xiu YL, Sun KX, Zong ZH, Zhao Y. microRNA 490-3P enhances the drug-resistance of human ovarian cancer cells. *J Ovarian Res* **2014**;7:84
101. Choi YE, Meghani K, Brault ME, Leclerc L, He YJ, Day TA, *et al.* Platinum and PARP Inhibitor Resistance Due to Overexpression of MicroRNA-622 in BRCA1-Mutant Ovarian Cancer. *Cell Rep* **2016**;14:429-39

102. Cai J, Yang C, Yang Q, Ding H, Jia J, Guo J, *et al.* Deregulation of let-7e in epithelial ovarian cancer promotes the development of resistance to cisplatin. *Oncogenesis* **2013**;2:e75
103. Han X, Zhen S, Ye Z, Lu J, Wang L, Li P, *et al.* A Feedback Loop Between miR-30a/c-5p and DNMT1 Mediates Cisplatin Resistance in Ovarian Cancer Cells. *Cell Physiol Biochem* **2017**;41:973-86
104. Zhang X, Huang L, Zhao Y, Tan W. Downregulation of miR-130a contributes to cisplatin resistance in ovarian cancer cells by targeting X-linked inhibitor of apoptosis (XIAP) directly. *Acta Biochim Biophys Sin (Shanghai)* **2013**;45:995-1001
105. Jeong JY, Kang H, Kim TH, Kim G, Heo JH, Kwon AY, *et al.* MicroRNA-136 inhibits cancer stem cell activity and enhances the anti-tumor effect of paclitaxel against chemoresistant ovarian cancer cells by targeting Notch3. *Cancer Lett* **2017**;386:168-78
106. Deng Y, Zhao F, Hui L, Li X, Zhang D, Lin W, *et al.* Suppressing miR-199a-3p by promoter methylation contributes to tumor aggressiveness and cisplatin resistance of ovarian cancer through promoting DDR1 expression. *J Ovarian Res* **2017**;10:50
107. Cochrane DR, Spoelstra NS, Howe EN, Nordeen SK, Richer JK. MicroRNA-200c mitigates invasiveness and restores sensitivity to microtubule-targeting chemotherapeutic agents. *Mol Cancer Ther* **2009**;8:1055-66
108. Cao J, Cai J, Huang D, Han Q, Chen Y, Yang Q, *et al.* miR-335 represents an independent prognostic marker in epithelial ovarian cancer. *Am J Clin Pathol* **2014**;141:437-42
109. Chen XP, Chen YG, Lan JY, Shen ZJ. MicroRNA-370 suppresses proliferation and promotes endometrioid ovarian cancer chemosensitivity to cDDP by negatively regulating ENG. *Cancer Lett* **2014**;353:201-10
110. Zhou Y, Chen Q, Qin R, Zhang K, Li H. MicroRNA-449a reduces cell survival and enhances cisplatin-induced cytotoxicity via downregulation of NOTCH1 in ovarian cancer cells. *Tumour Biol* **2014**;35:12369-78
111. Liu G, Yang D, Rupaimoole R, Pecot CV, Sun Y, Mangala LS, *et al.* Augmentation of response to chemotherapy by microRNA-506 through regulation of RAD51 in serous ovarian cancers. *J Natl Cancer Inst* **2015**;107
112. Wang L, Mezencev R, Švajdler M, Benigno BB, McDonald JF. Ectopic over-expression of miR-429 induces mesenchymal-to-epithelial transition (MET) and increased drug sensitivity in metastasizing ovarian cancer cells. *Gynecol Oncol* **2014**;134:96-103
113. Prislei S, Martinelli E, Mariani M, Raspaglio G, Sieber S, Ferrandina G, *et al.* MiR-200c and HuR in ovarian cancer. *BMC Cancer* **2013**;13:72
114. Leskelä S, Leandro-García LJ, Mendiola M, Barriuso J, Inglada-Pérez L, Muñoz I, *et al.* The miR-200 family controls beta-tubulin III expression and is associated with paclitaxel-based treatment response and progression-free survival in ovarian cancer patients. *Endocr Relat Cancer* **2011**;18:85-95
115. Liu N, Zhong L, Zeng J, Zhang X, Yang Q, Liao D, *et al.* Upregulation of microRNA-200a associates with tumor proliferation, CSCs phenotype and chemosensitivity in ovarian cancer. *Neoplasia* **2015**;62:550-9
116. Mateescu B, Batista L, Cardon M, Gruosso T, de Feraudy Y, Mariani O, *et al.* miR-141 and miR-200a act on ovarian tumorigenesis by controlling oxidative stress response. *Nat Med* **2011**;17:1627-35
117. Zhang J, Liu L, Sun Y, Xiang J, Zhou D, Wang L, *et al.* MicroRNA-520g promotes epithelial ovarian cancer progression and chemoresistance via DAPK2 repression. *Oncotarget* **2016**;7:26516-34