**S5 Table: Sensitive compounds for Myxoid liposarcoma cell lines and their target genes**

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| **Compounds** | **Target Genes**  |
| 17-AAG (Tanespimycin) | *HSP90AA1; HSP90AA2; HSP90AB1* |
| 17-DMAG (Alvespimycin) HCl | *HSP90AA1; HSP90AB1* |
| Alisertib (MLN8237) | *AURKA* |
| AT13387 | *HSP90AA1; HSP90AB1* |
| AT9283 | *ABL1; AURKA; AURKB; AURKC; C14ORF129; JAK2; JAK3; MERTK; RET; RPS6KA3; TYK2; YES1* |
| AUY922 (NVP-AUY922) | *ALK; HSP90AA1; HSP90AA2; HSP90AB1* |
| BI 2536 | *PLK1* |
| Cabazitaxel | *IGF2; TUBA4A; TUBB1* |
| CUDC-907 | *PIK3C2A* |
| Dactinomycin | *CLCN6; MTHFR; MTR; TOP2A; TOP2B* |
| Dinaciclib (SCH727965) | *CCNE1; CDK1; CDK2; CDK5; CDK9; MYC* |
| Ganetespib (STA-9090) | *ALK; HSP90AA1; HSP90AA2; HSP90AB1; UGT1A* |
| Gemcitabine hydrochloride | *BAZ2B; BTRC; CAMK4; CMPK1; DAPK1; DCP1B; ENOSF1; IL17F; KRAS; MAGEH1; MS4A2; MTHFR; PRB2; RRM1; RRM2; RRM2B; TYMS; UBASH3B; WEE1; WWOX; XRCC1; ZEB1* |
| GSK1070916 | *AURKA; AURKB; AURKC* |
| GSK461364 | *PLK1* |
| Hesperadin | *MTTP; SOAT1; SOAT2* |
| Irinotecan | *ABCB1; ABCC1; ABCC2; ABCC5; ABCG1; ABCG2; BAIAP3; C18ORF56; C8ORF34; CYP3A4; CYP3A5; ENOSF1; ISG15; KLC1; PLCB1; PDZRN3; SLCO1B1; SLCO1B3; SEMA3C; SHMT1; TDP1; TOP1; TOP1MT; TYMS; VEGFA; XRCC3* |
| Ispinesib (SB-715992) | *KLF11* |
| LAQ824 (Dacinostat) | *HDAC1; HDAC2; HDAC3; HDAC4; HDAC5; HDAC6; HDAC7; HDAC8; HDAC9; HDAC10* |
| Mitoxantrone | *ABCB1; ABCG2; GALNT14; MECP2; TOP2A; TOP2B* |
| MLN0905 | *PLK1* |
| MLN9708 | *PSMC2* |
| Oprozomib (ONX 0912) | *PSMB1; PSMB2; PSMB5; PSMD2* |
| Ouabain | *ATP1A1* |
| Combretastatin A4 | *CDH1; TUBB1* |

**S5 Table: Sensitive compounds for Myxoid liposarcoma cell lines and their target genes (continued)**

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| **Compounds** | **Target Genes**  |
| Paclitaxel | *ABCB1; ABCC3; ABCC10; AURKA; BCL2; BIRC5; CYP1B1; CYP3A; CYP3A4; CYP3A5; DSCAM; EGFR; EIF4E2; ERCC2; ETS2; FCGR2A; GSTP1; KRAS; TLE3; MAP2; MAP4; MAPT; MTHFR; NR1I2; PDCD4; PGP; PTEN; STMN1; SYK; TIGD1; TIMP1; TLR4; TOP2A; TP53; TUBB; TUBB1; TUBB3* |
| Panobinostat (LBH589) | *ABCB1; ATP4A; CYP2C19; HDAC1; HDAC2; HDAC3; HDAC4; HDAC5; HDAC6; HDAC7; HDAC8; HDAC9; HDAC10; HDAC11; SIRT1; SIRT2; SIRT3; SIRT4; SIRT5; SIRT6; SIRT7* |
| PIK-75 | *PIK3CA* |
| Rigosertib (ON-01910) | *PIK3CA; PIK3CB; PIK3CD; PLK1* |
| SB743921 | *KLF11* |
| SNS-032 (BMS-387032) | *CDK2; CDK7; CDK9* |
| SNS-314 Mesylate | *AURKA; AURKB; AURKC* |
| Trichostatin A (TSA) | *HDAC1; HDAC2; HDAC3; HDAC4; HDAC5; HDAC6; HDAC7; HDAC8; HDAC9* |
| Vinorelbine | *BRCA1; MTHFR; SMARCA4; TUBB; TUBB2A; XRCC1* |
| Volasertib (BI 6727) | *PLK1* |
| XL888 | *HSP90AA1; HSP90AB1* |
| YM155 (Sepantronium Bromide) | *BIRC5* |
| SN-38 | *HEATR7B1; TOP1; UGT1A1; UGT1A3; UGT1A4; UGT1A5; UGT1A6; UGT1A7; UGT1A8; UGT1A9; UGT1A10* |