Imetelstat Induces Leukemia Stem Cell Death in Pediatric Acute Myeloid Leukemia Patient-derived Xenografts

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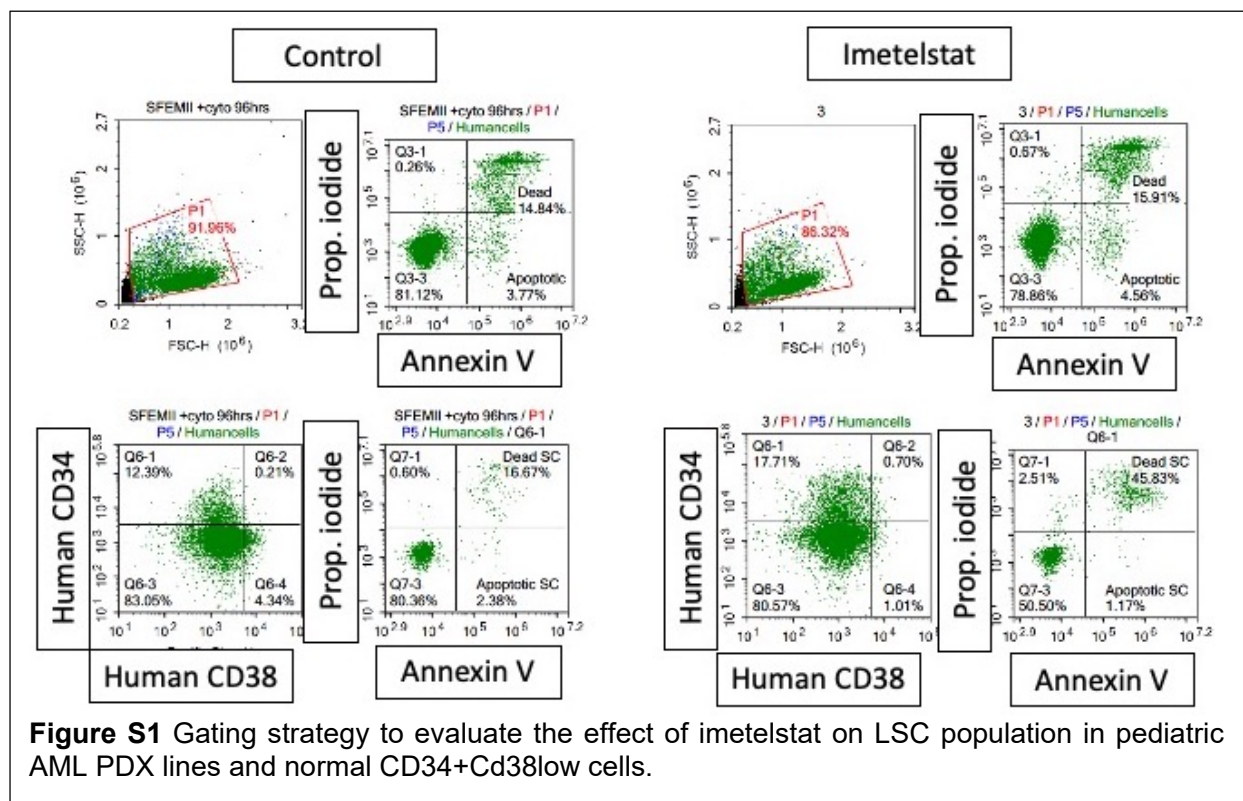Nemours Children's Health

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Figure S1 Gating strategy to evaluate the effect of imetelstat on LSC population in pediatric AML PDX lines and normal CD34+Cd38low cells.
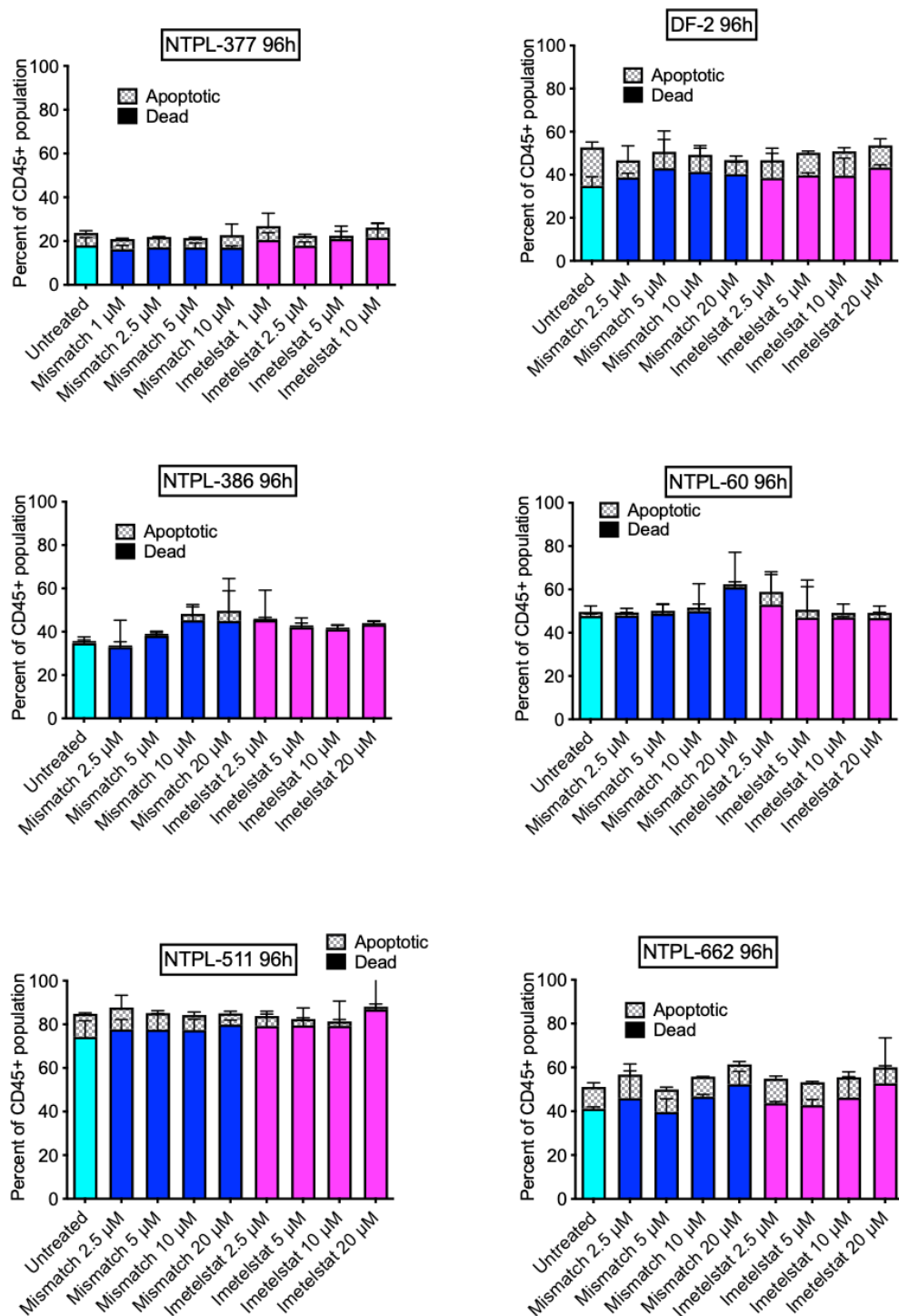
Figure S2 Imetelstat had minimal effect on the percentage of dead cells in pediatric AML PDX lines. Error bars denote SD of the mean from 2 independent experiments in duplicates.
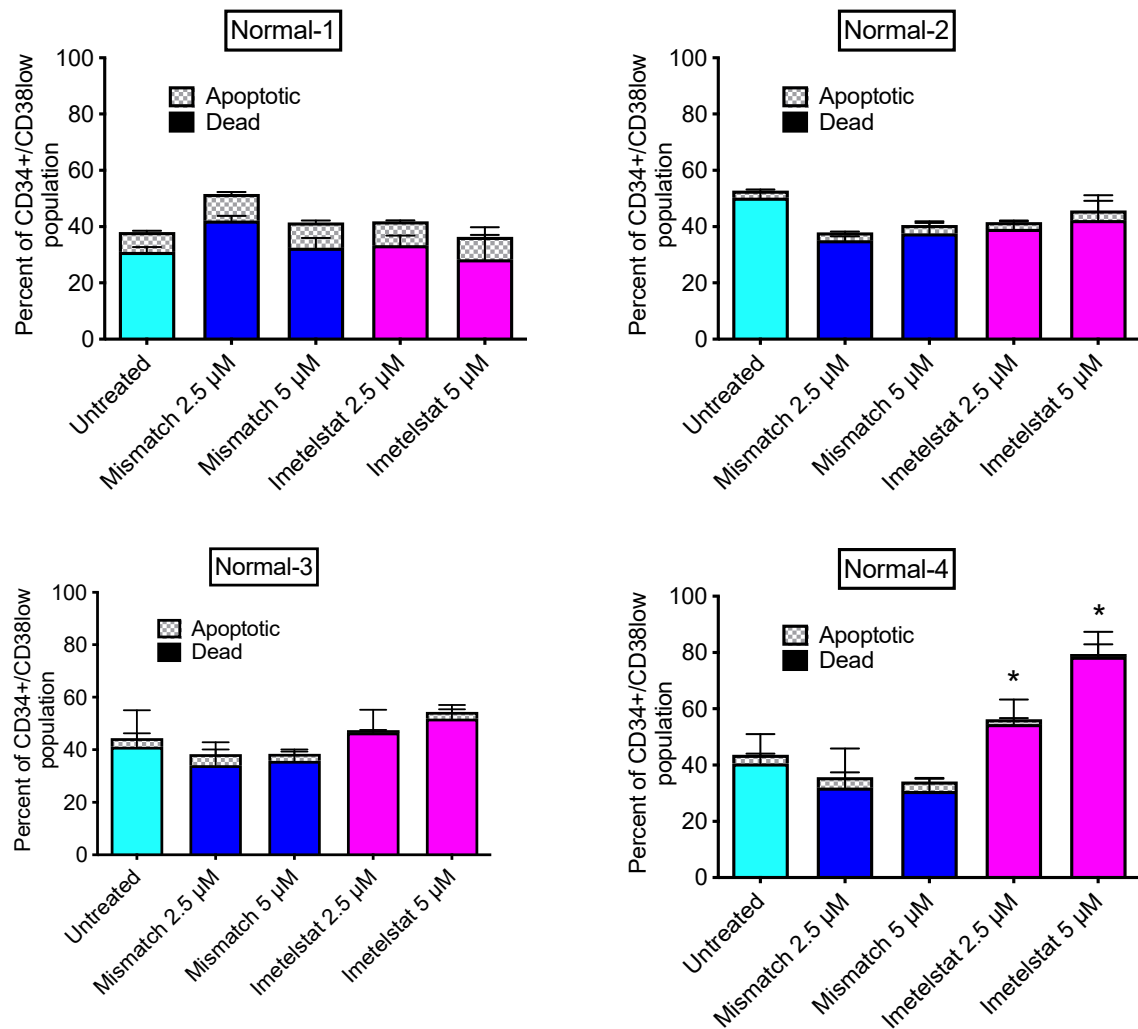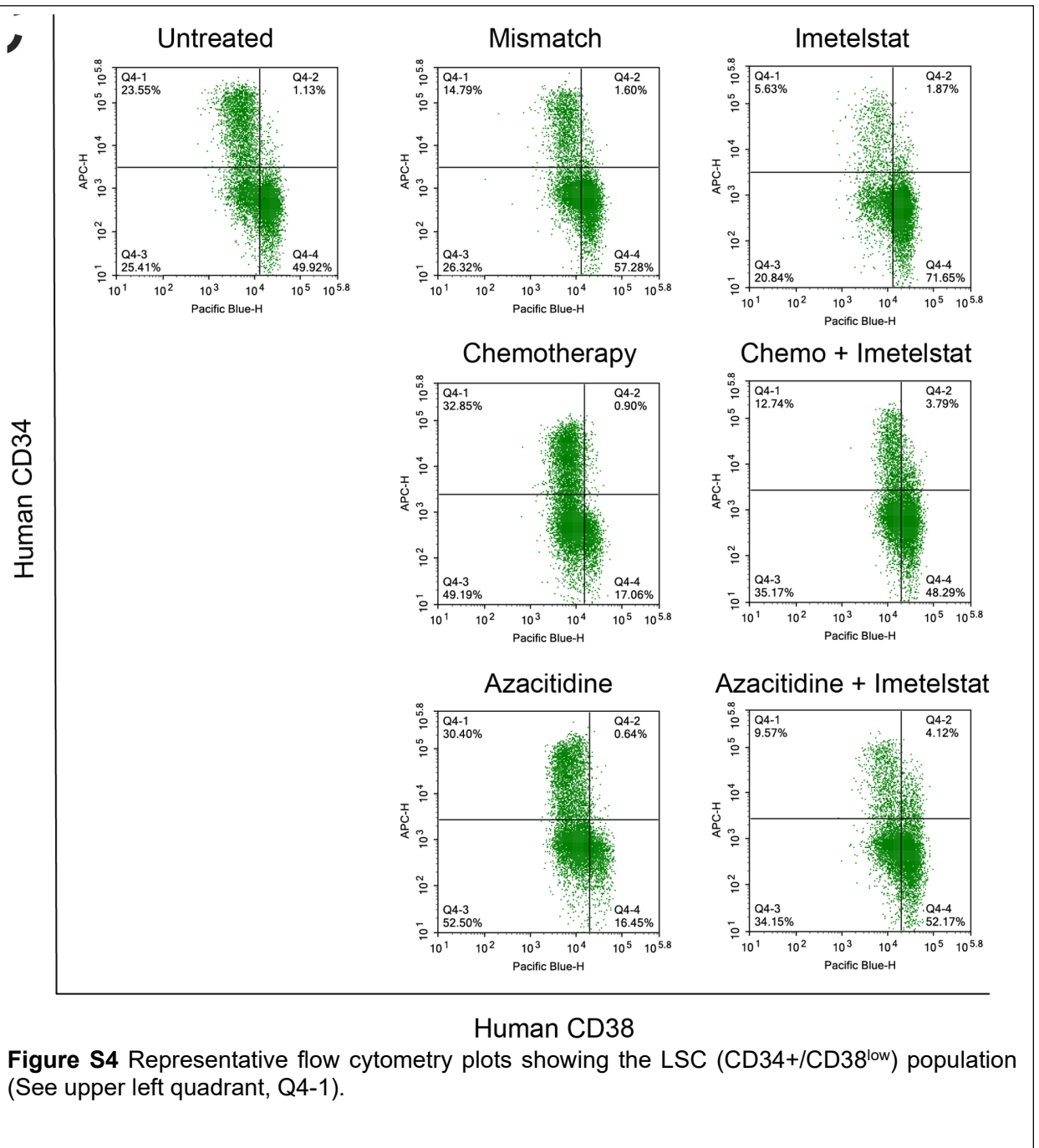
Figure S3 Effect of imetelstat on the viability of CD34+CD38low population in normal pediatric bone marrow samples at 96h post treatment. Error bars denote SD of the mean from 2 independent experiments. *P < 0.05.

Figure S4 Representative flow cytometry plots showing the LSC (CD34+/CD38^{low}) population (See upper left quadrant, Q4-1).

Supplementary Table S1
Two-way ANOVA analysis to compare the effect between treatment groups on percentage of
LSC population (CD34+CD38low population) in the terminal bone marrow samples isolated from
mice treated with either single agent or in combination.

NTPL-377					
ANOVA table	Sums of Squares (SS) Type III	Degrees of freedom (DF)	Mean SS	F (DFn, DFd)	P value
Interaction	84.32	2	42.16	F (2, 19) = 6.680	P=0.0064
Column Factor (Mismatch or **Imetelstat**)	1411	1	1411	F (1, 19) = 223.6	P<0.0001
Row Factor (**Combination**: chemotherapy or azacitidine)	637.7	2	318.8	F (2, 19) = 50.52	P<0.0001

DF-2					
ANOVA table	Sums of Squares (SS) Type III	Degrees of freedom (DF)	Mean SS	F (DFn, DFd)	P value
Interaction	41.44	2	20.72	F (2, 22) = 3.126	P=0.0638
Column Factor (Mismatch or **Imetelstat**)	494.1	1	494.1	F (1, 22) = 74.55	P<0.0001
Row Factor (**Combination**: chemotherapy or azacitidine)	88.07	2	44.04	F (2, 22) = 6.644	P=0.0055