

Potent co-operation between the NUP98-NSD1 fusion and the *FLT3*-ITD mutation in acute myeloid leukemia induction

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Manuscript received on November 13, 2013. Manuscript accepted on June 18, 2014.
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Supplementary figure legend

Figure S1:

(A) Transplantation of NUP98-NSD1 + FLT3-ITD induced AML into secondary recipients. Total bone marrow cells of diseased mice transplanted with NUP98-NSD1 + FLT3-ITD immortalized cells from experiment [A] were injected into sub-lethally irradiated syngenic recipients. All mice developed AML with a median latency of 35 days (Kaplan Meier survival plot).

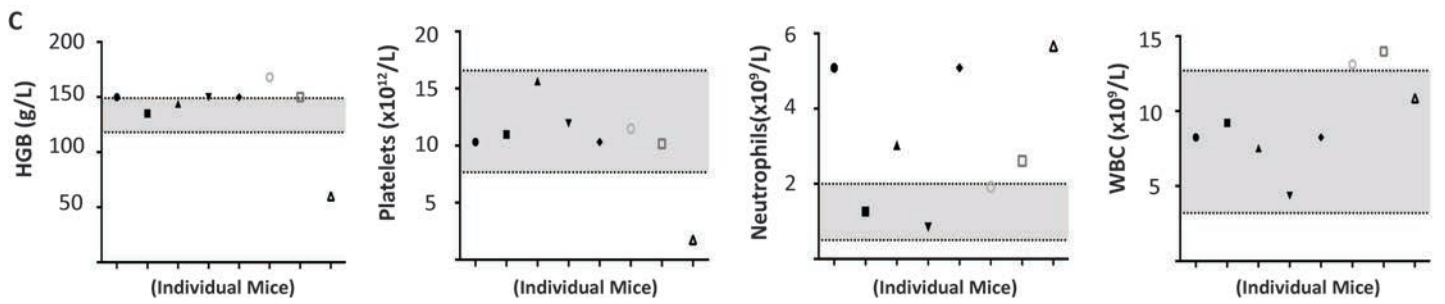
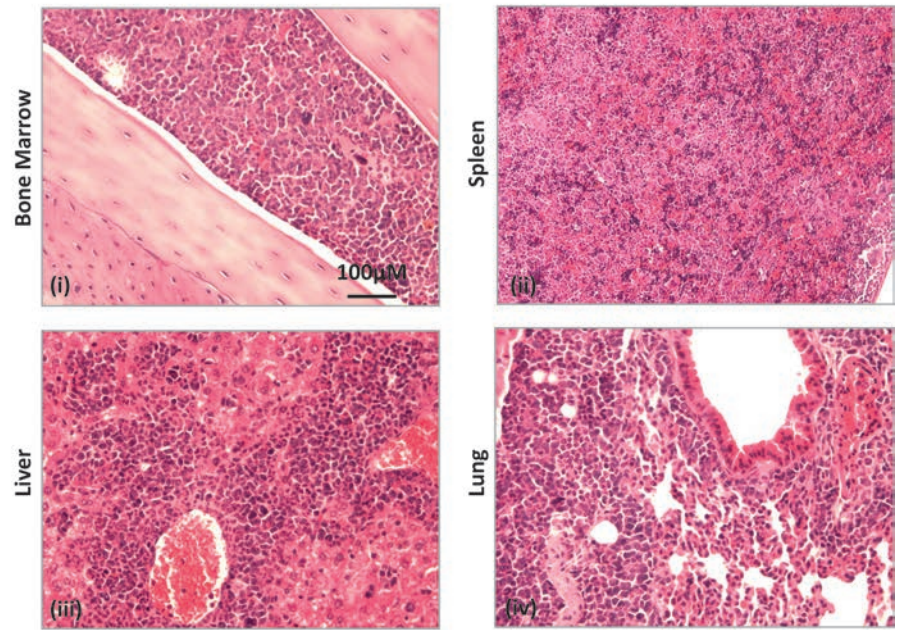
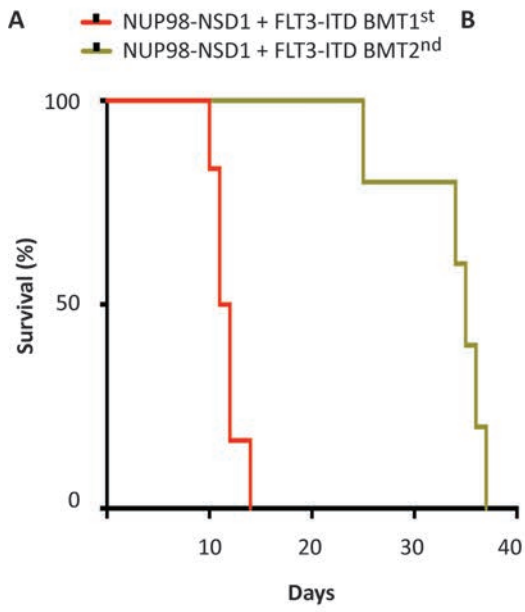
(B) Representative images of histopathology sections of bone marrow (x20) (i), spleen (x20) (ii), liver (x20) (iii) and lung (x20) (iv) of diseased mice showed extensive multi-organ infiltration by leukaemic blasts.

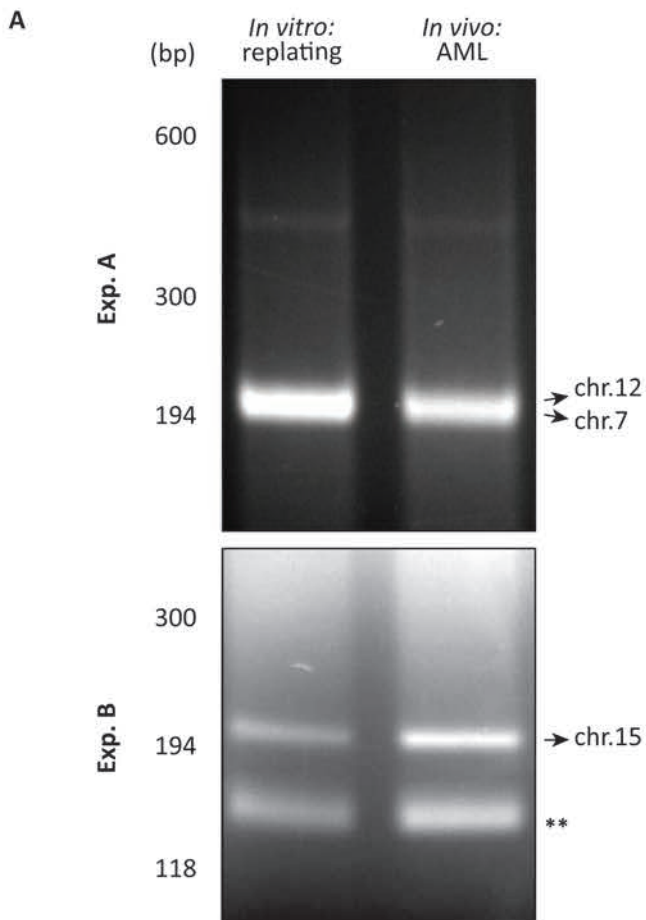
(C) Blood analysis of diseased mice transplanted with NUP98-NSD1 expressing cells. Haemoglobin levels, the number of platelets, and the WBC remained in the normal range but the number of neutrophils was increased. The grey zone corresponds to normal values.

Figure S2:

(A) Gel picture of the splinkerette-PCR revealed overlapping viral integration pattern between *in vitro* immortalized cells and the resulting AMLs. When indicated, DNA bands were sequenced in experiment A could be determined two integration sites and one in experiment B. The second integration site found in experiment B, corresponding to the lower band, was too small to specifically locate it in the genome.

(B) Genomic integration sites in cells from Experiment A and B





B

Transplant Experiments	Gene Name	Full Name	Chromosome in mouse	Location and distance for retroviral integration
A	Tao2k	serine/threonine-protein kinase TAO2 isoform 2	7	4729 bp at 5' side
A	Ilgf	insulin-like growth factor-binding protein 3 receptor	7	3490 bp at 3' side
A	Atxn7l1	ataxin-7-like protein 1 isoform2	12	62070 bp at 5' side
A	Atxn7l2	ataxin-7-like protein 1 isoform 1	12	214220 bp at 3' side
B	Kansl2	KAT8 regulatory NSI complex subunit 2	15	Insertion after the 1048 nucleotide