

Timing of microbial exposure and risk of infection-promoted acute lymphoblastic leukemia

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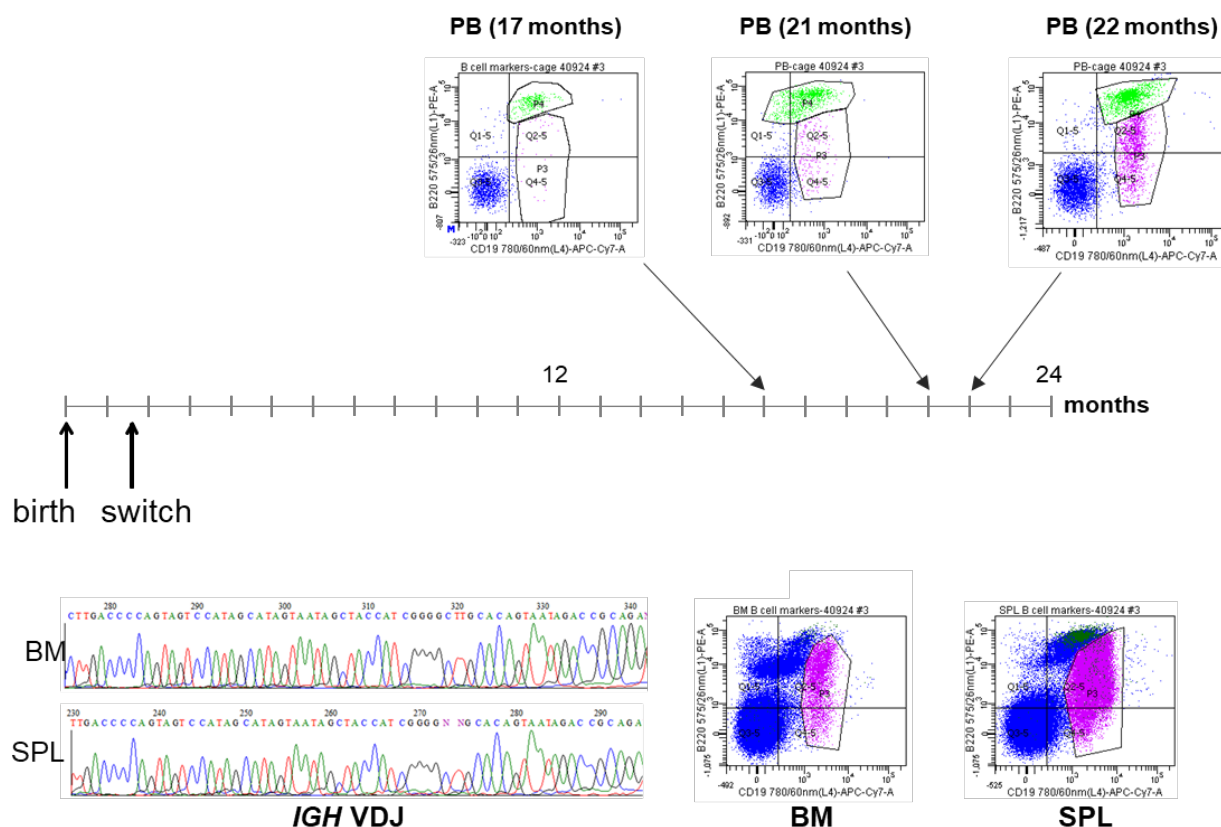
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Supplementary Figures

Supplementary Figure 1



Emergence of the leukaemic clone

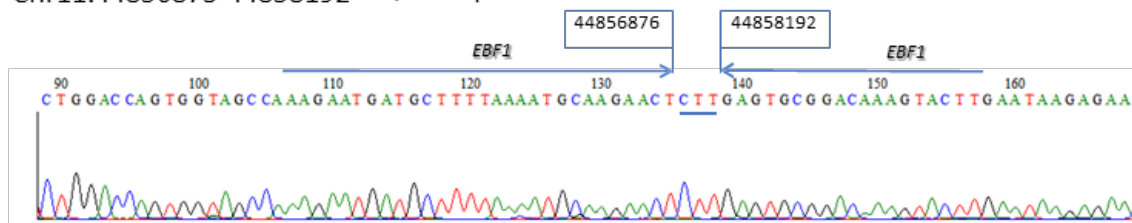
Temporal representation of periodic PB analysis of mice transferred from SPF1 to the SPF-2 facility.

Top: periodical immunophenotype analysis of PB showing (in a single mouse) the onset of the BCP-ALL clone at 17, 21 and 22 months of age.

Bottom: *IGH* VDJ DNA sequencing and immunophenotype analysis at experimental termination shows the presence of the same clone both in both bone marrow (BM) and spleen (SPL).

Supplementary Figure 2A

Chr11:44856873-44858192 1,319 bp deletion

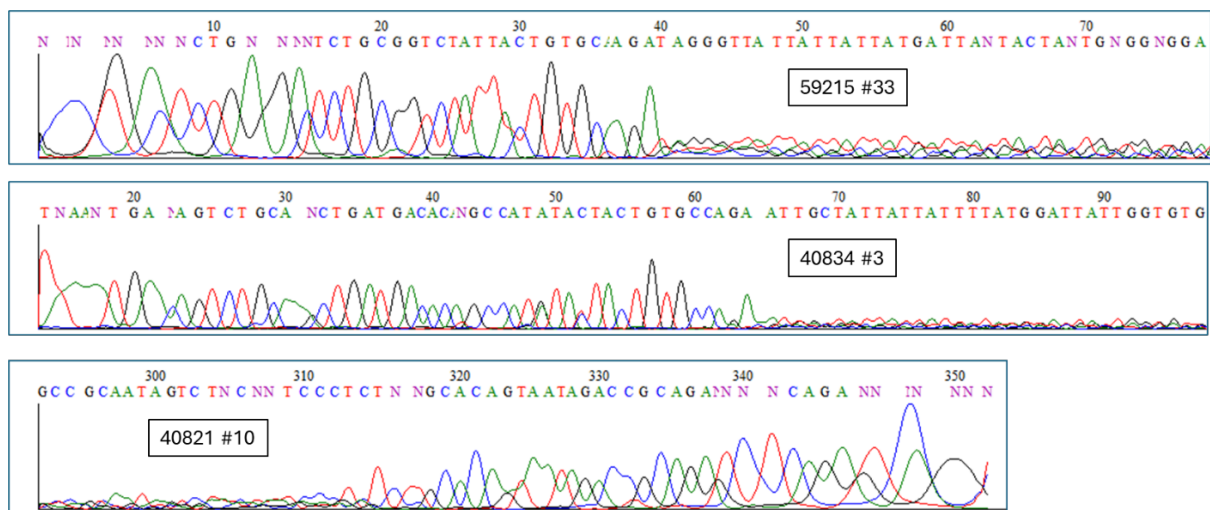


Chr10:23140533-121007159 97,866,626 bp deletion



Genetic alterations identified by WGS. Top: 1319 bp deletion in *Ebf1* gene; Bottom: deletion in a large region of Chromosome10, including *Btg1* and *Arid5b* genes.

Supplementary Figure 2B



Polyclonal IGH gene rearrangements in typical examples of non-leukaemic mice born and maintained in SPF2 BEFORE fumigation of the facility.

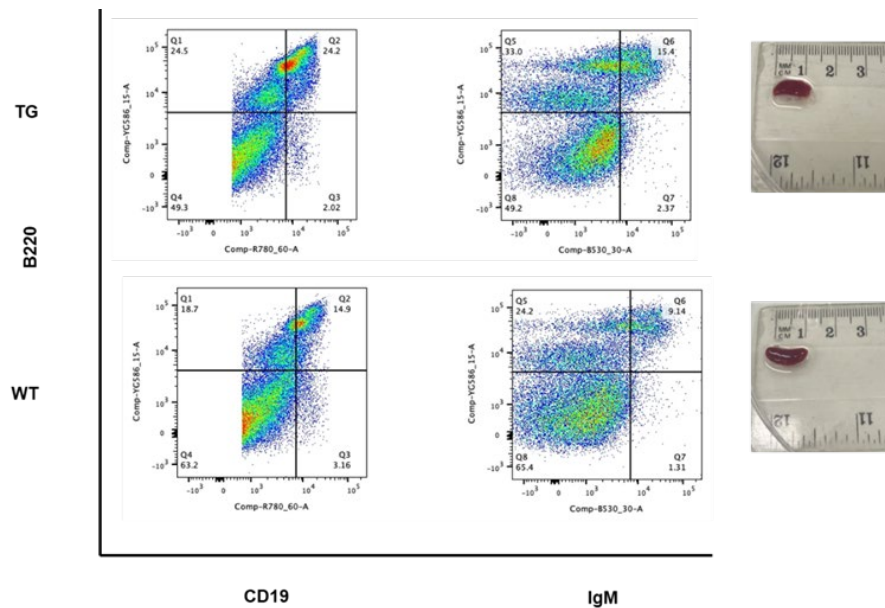
Top Panel: primers C1 for VH J558 (PCR with JH4)
CGAGCTCTCCARCACAGCCTWCATGCARCTCARC

Middle panel: primers: C3 for VH 7183 (PCR with JH4)
CGGTACCAAGAASAMCCTGTWCCTGCAAATGASC

Bottom panel: C5 for VH J558 (PCR with JH4) CGGTACCAGACTGARCATCASCAAGGACAAAYTCC

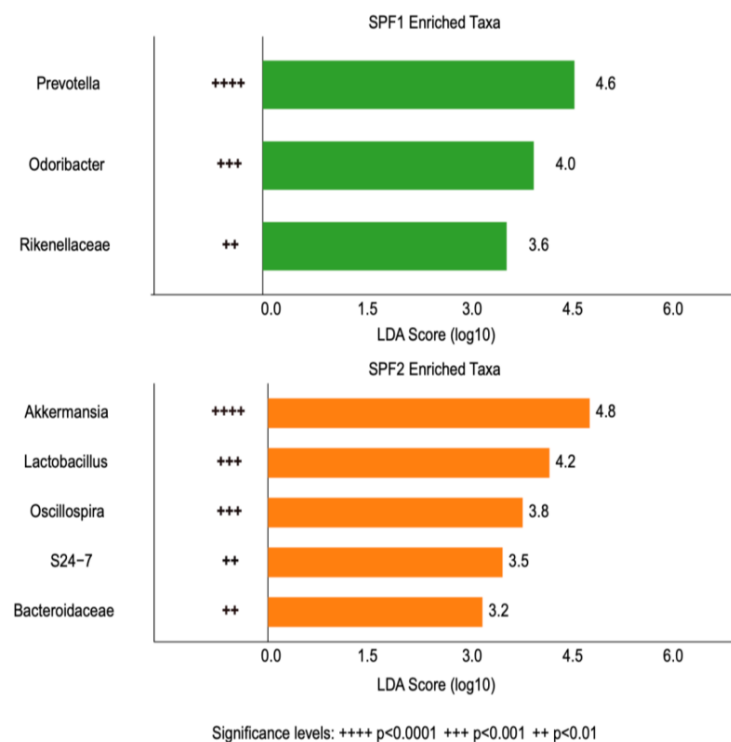
JH4 primer for PCR: CTGAGGAGACGGTGACTG AG

Supplementary Figure 3A



Polyclonal populations of BCP cells in examples of FACS profiles and spleens typical of non-leukaemic mice born in SPF1 and moved to SPF2 AFTER fumigation of the facility.

Supplementary Figure 3B



Linear Discriminant Analysis Effect Size (LEfSe) identifies different significantly enriched SCFA-producing bacterial taxa in SPF-1 (green) and SPF-2 (orange) housing environments. LDA scores (log10) reflect effect size.