
Cohort 1

(samples= 86)

Patient material

- lack of *BCR-ABL1*, *MLL* rearrangements, *ETV6-RUNX1*
- samples retrieved at initial diagnosis (ID), relapse (REL)
- minimal residual disease (MRD) <0.01 at remission
- 22 adult patients treated according to GMALL treatment protocol
- 25 pediatric patients treated according to BFM/COALL treatment protocol

RNA isolation

- Trizol
- RNA integrity number (RIN) > 7 for sequencing

Sequencing

- Illumina HiSeq4000
- six samples per lane
- sequenced with average of 64 million mapped reads per sampel (MMRS)

Alignment

- GRCh 37.75
- STAR-aligner

Gene fusion detection

- defuse v0.7.0
- FusionCatcher v0.99.7cv beta

Expression quantification

- Stringtie

Differential gene expression

- Limma Voom
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Cohort 2

(samples= 140)

Patient material

- samples retrieved at ID
- 140 adult patients treated according to GMALL treatment protocol

RNA isolation

- Trizol
- RNA integrity number (RIN) > 7 for sequencing

Sequencing

- Illumina HiSeq4000
- six samples per lane
- sequenced with average of 64 million mapped reads per sampel (MMRS)

Alignment

- GRCh 37.75
- STAR-aligner

Gene fusion detection

- defuse v0.7.0
- FusionCatcher v0.99.

Expression quantification

- Stringtie

Differential gene expression

- Limma Voom
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