Characterization of Gene Mutations and Copy Number Changes in Acute Myeloid Leukemia Using a Rapid Target Enrichment Protocol

Haloplex target enrichment
140811 bp
24 genes

Illumina-based next generation sequencing
mean coverage
3655 x

42 acute myeloid leukemia samples - normal karyotype

Copy number aberrations
- MLL PTD: 3
- BCOR deletion: 1
- KRAS amplification: 1

Gene mutations
- NPM1: 62%
- FLT3: 50%
- DNMT3: 33%
- TET2: 29%

Improvement in prognosis stratification and diagnosis
Maximisation of patient survival

Bolli et al., Haematologica, 2015