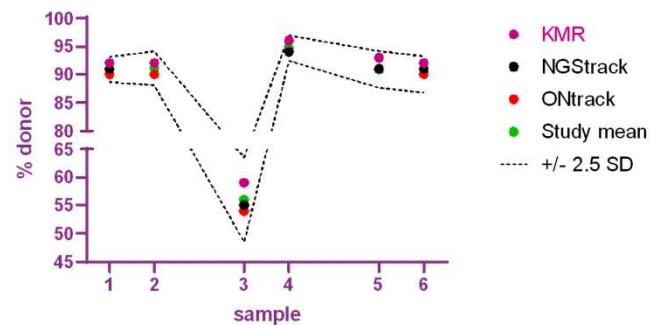
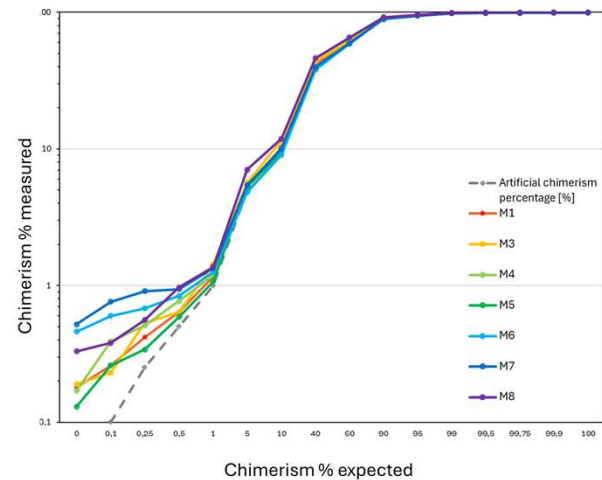
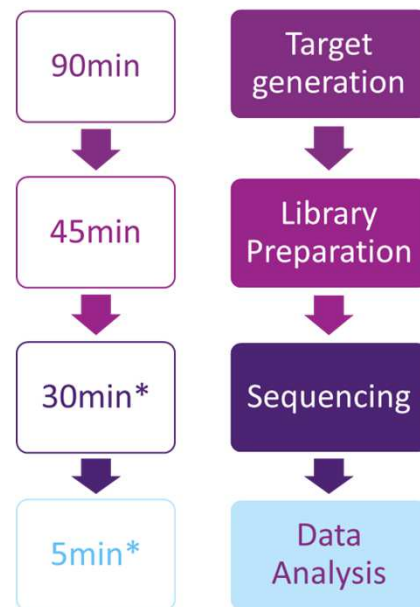


Sensitive and fast NGS-based chimerism monitoring using ONT sequencing

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Aim:

Chimerism monitoring after hematopoietic stem cell transplantation enables prediction of an upcoming relapse. Enhanced sensitivity of chimerism assays allows for earlier detection, thereby increasing the time available for treatment. We introduce ONtrack®, extrapolating NGStrack to ONT with compatible indices, library preparation and analysis in TRKengine.



Conclusion:

In this poster we show that ONtrack is compatible with ONT sequencing, with a resulting sensitivity of 0.5-1%. As the turn-around time for a single sample is less than 3 hours, and 48 samples could be sequenced in 48h, it is a suitable approach for both urgent single samples and high-throughput chimerism monitoring.