**Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: Detailed clinical data for lymphoma patients assessed with error-corrected sequencing

File Name: Supplementary Data 2

Description: Variants identified in pheresis or post-transplant samples with error-corrected sequencing

File Name: Supplementary Data 3

Description: Variants identified by error-corrected sequencing in lymphoma patients with paired pre-transplant and post-transplant samples

File Name: Supplementary Data 4

Description: Detailed clinical data for t-AML/t-MDS patients assessed with targeted or exome sequencing

File Name: Supplementary Data 5

Description: Variants identified by exome and targeted sequencing of t-AML/t-MDS