

## **Description of Additional Supplementary Files**

**Supplementary Data 1:** Differential gene expression analysis results

**Supplementary Data 2:** Results for subtype pathway analysis

**Supplementary Data 3:** Motif enrichment analysis

**Supplementary Data 4:** Ranking of drugs using cell line data

**Supplementary Data 5:** Drug-dose response curves for UHN ex vivo screening

**Supplementary Data 6:** List of antibodies used in CyToF analysis