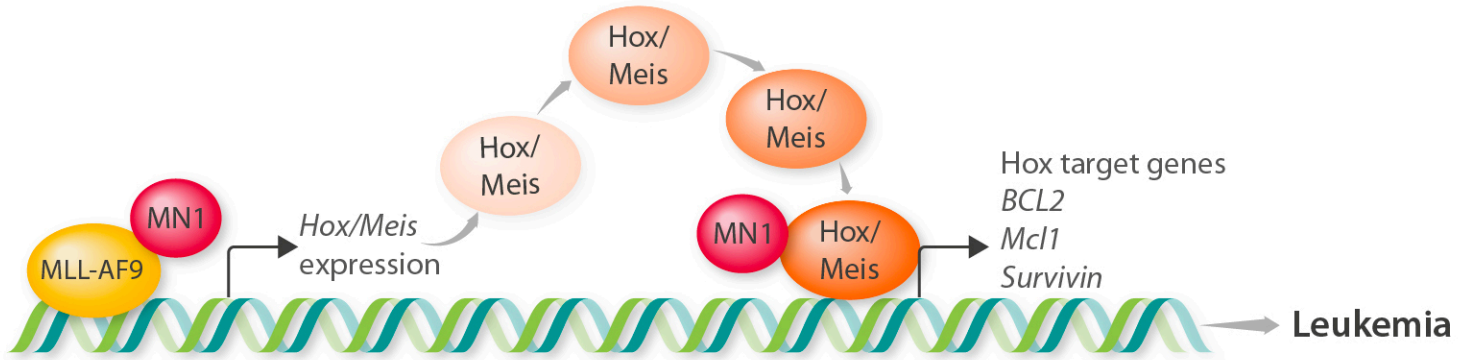
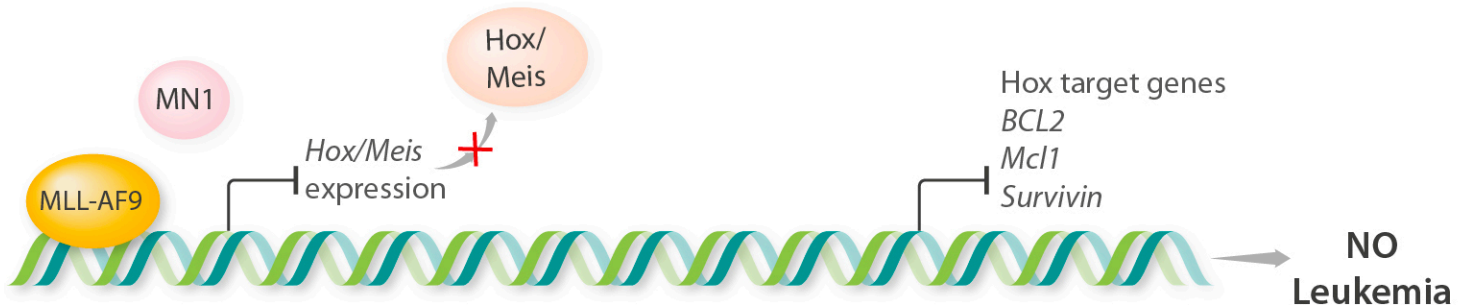


## Model of Meningioma 1 (MN1)-dependency in mixed lineage leukemia rearrangements (MLL-r)



### MN1

- is a critical cofactor of the HOXA9/MEIS1 transcriptional complex
- primarily maintains active transcription of HOXA9 and HOXA10, which are critical downstream genes of MLL



### Loss of MN1

- affects HOXA expression and renders the HOXA9/MEIS1 complex inactive
- inhibits cell cycle and proliferation, promotes apoptosis and induces differentiation of MLL-rearranged cells