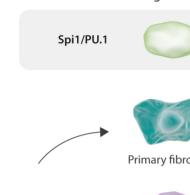
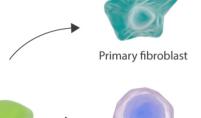
Senescence is a Spi1-induced anti-proliferative mechanism that may be a safeguard against the development of acute myeloid leukemia



Spi1/PU.1

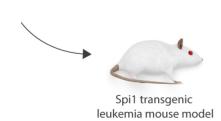
overexpression

- transcription factor key regulator of many steps of hematopoiesis
- limits self-renewal of hematopoietic stem cells



cellular senescence triggered by a DNA-damage response

- cellular senescence triggered independent of a DNA-damage response requires
 - **DNA-binding activity**
 - a functional p38MAPK14 pathway



Hematopoietic cells

- senescence
 - induced in erythroid progenitors of the BM in vivo before the onset of the pre-leukemic phase of the erythroleukemia
 - lost during the progression of the disease