*Twist1* deletion remarkably changes the niche cellular components and factors, causing severe dysfunction of normal HSC and promoting AML progression.

**Niche of Twist1^{+/+} mice**
- Endothelial cells
- Sinusoid
- SCF
- CXCL12
- MSC
- Early stage OBC
- Late stage OBC

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**Factors and Changes**
- HSC
- Differentiation
- Aberrant differentiation
- Mobilization
- CXCL12
- VCAM1
- SCF
- OPN
- Jagged-2
- LSC

**Legend:**
- Direct/indirect effect
- Differentiation
- Aberrant differentiation

*Source: Liu et al., Haematologica, 2018*