A novel mouse xenograft model that provides human TSLP is an important new preclinical model for understanding the role of human TSLP in normal and malignant B lymphopoiesis and for identifying therapies to treat CRLF2 B-ALL.

Stromal cells producing **human TSLP** +

- xenograft mice
  - human TSLP detectable in serum

Stromal cells control

- xenograft mice
  - human TSLP undetectable in serum

Normal HSC sample OR High risk B-ALL sample

- patient derived xenografts
  - 3.6 fold increase in normal human B cell precursors maintained through later stages of B cell development
  - increased mTOR pathway activation similar to the original patient sample

Francis et al., Haematologica, 2016