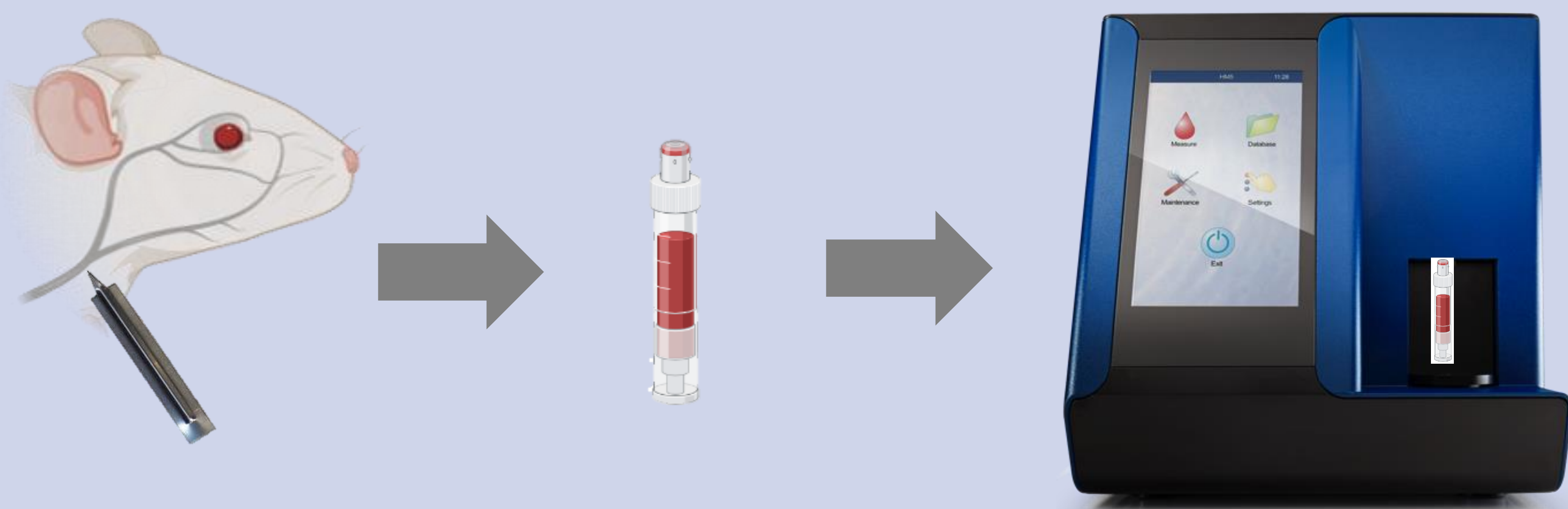


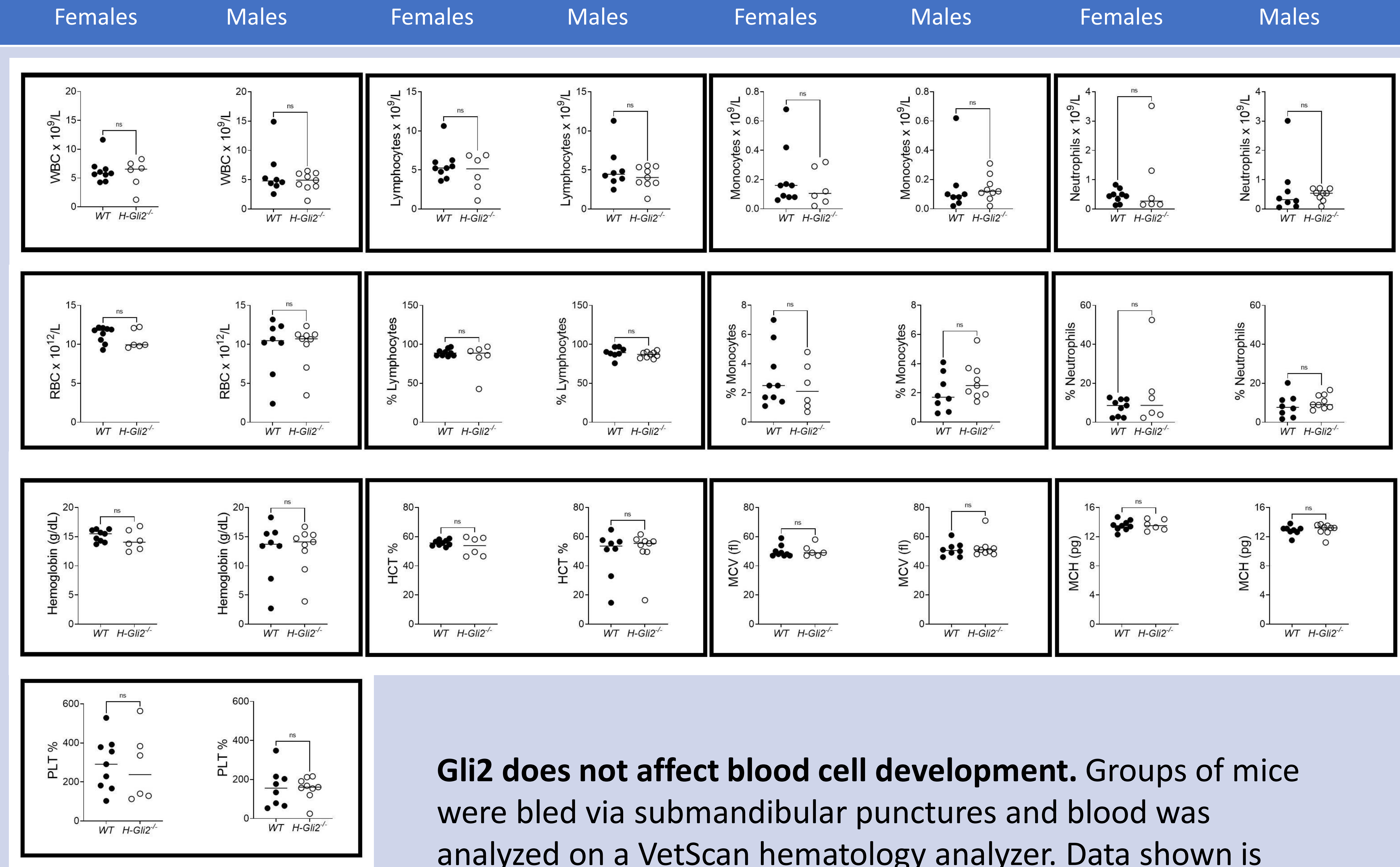
Background

- Gli2 is a transcription factor belonging to the Hedgehog (Hh) signaling pathway that can function as a transcriptional activator or repressor.
- Our lab has shown that GLI2 regulates IgM secretion by malignant B cells.
- *Gli2*^{-/-} mice die during embryonic stages.
- To understand the role of Gli2 in normal B cell biology, we generated conditional knockout mice lacking Gli2 in hematopoietic cells (white blood cells) (*H-Gli2*^{-/-} mice).
- The goal of this project was to characterize the blood profiles of mice lacking Gli2 compared with wildtype (*WT*) mice.

Methods



Results



Gli2 does not affect blood cell development. Groups of mice were bled via submandibular punctures and blood was analyzed on a VetScan hematology analyzer. Data shown is grouped in columns by sex. Females on left and Males on right.

Conclusion

Gli2 is not required for blood cell development (despite it's role in embryonic development).

Future Directions

Continue to evaluate the requirement of Gli2 in white blood cell biological functions.

Acknowledgements

- Elswa lab members, especially Cameron Banks
- CIBBR for funding