Migration patterns: Tracking lung cancer cells to other organs

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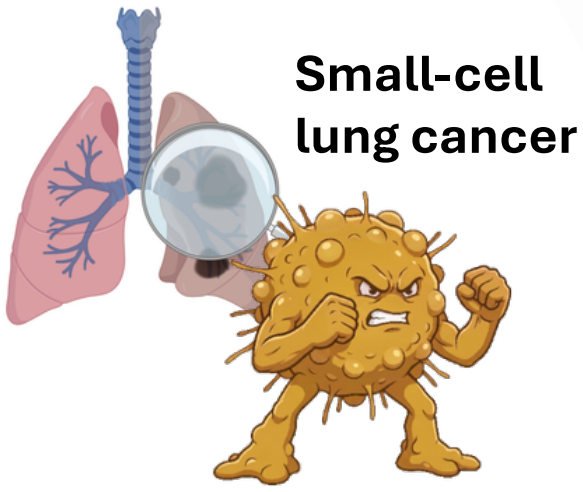
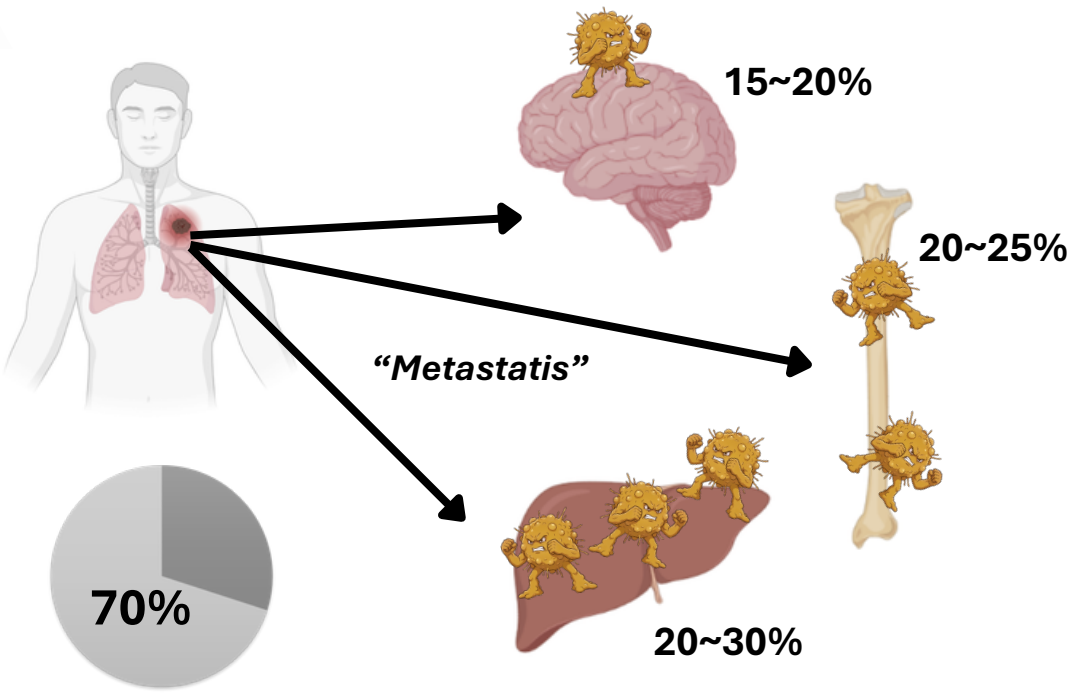
citizens of science

Background







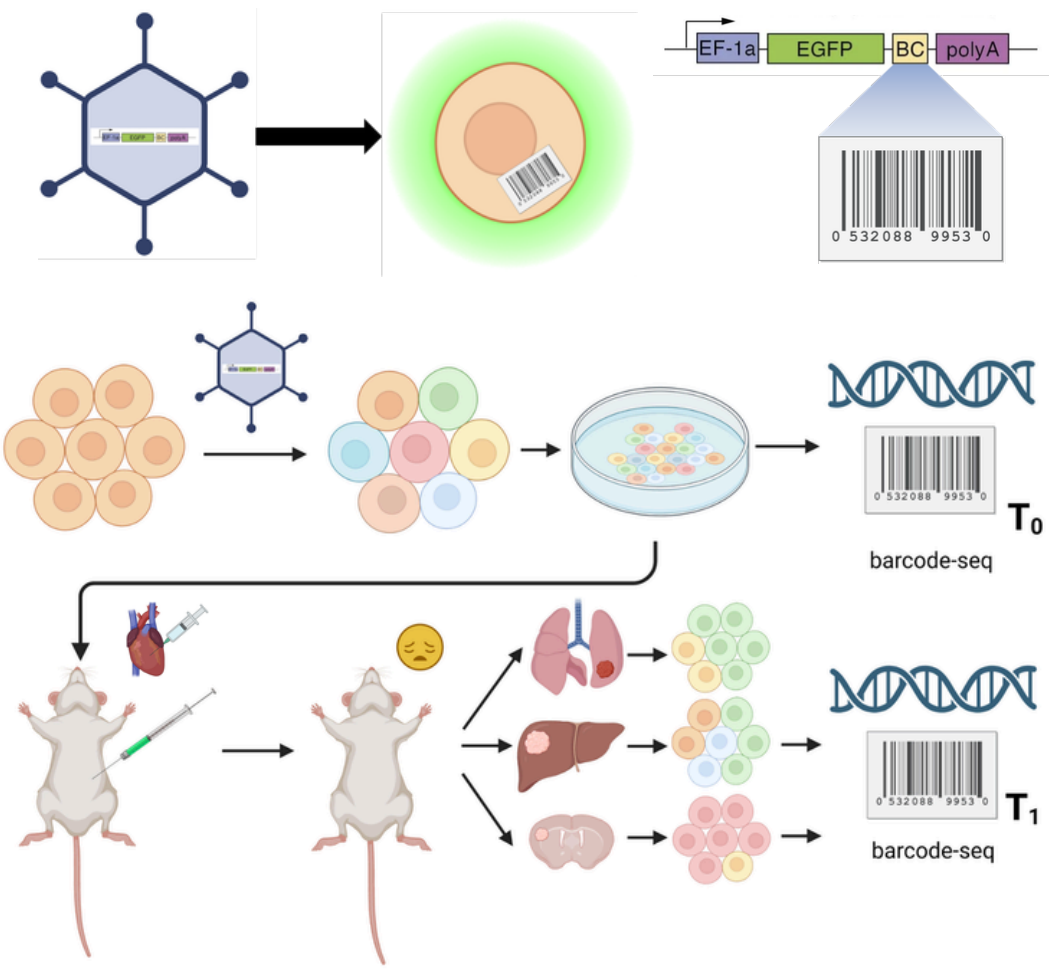
Aim & Hypothesis

Aim: To find out why SCLC prefers to spread to those organs, and if the spread is **random** or **relevant** to the cells' own characteristics

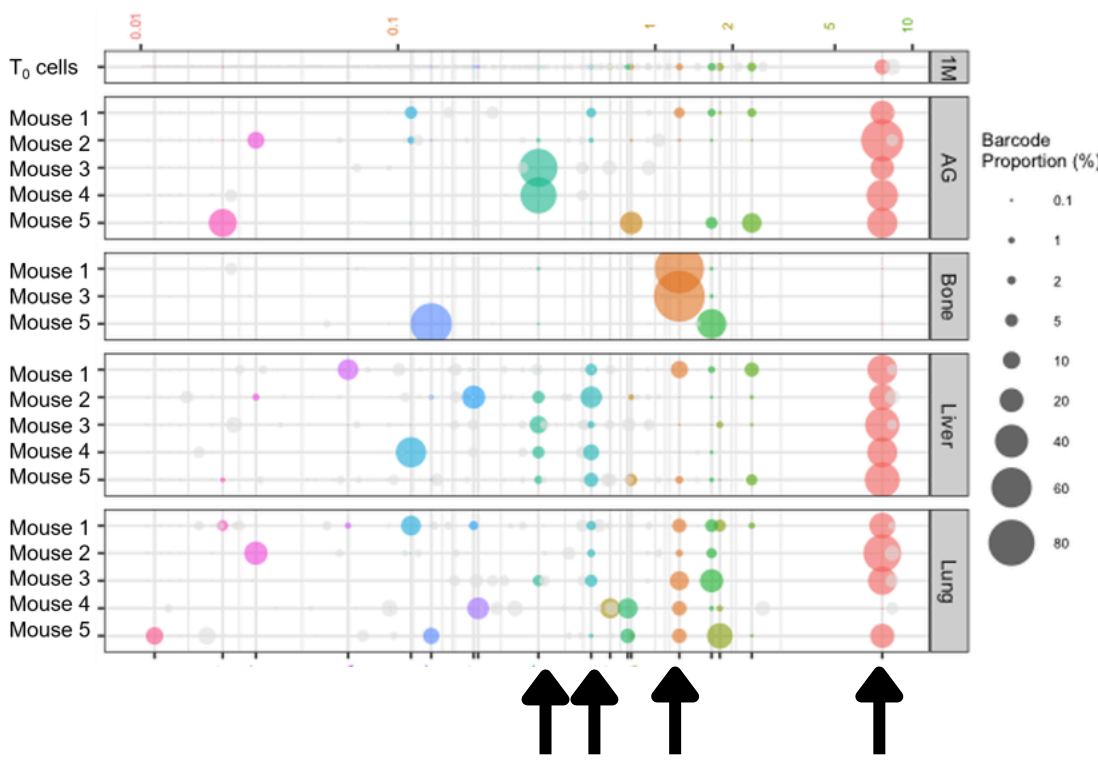
Hypothesis: Cells that spread to specific organs have relevant characteristics that make them spread easily to the target organs

Method

Cellular barcoding



Results



These cell clones were picky about which organs they spread to

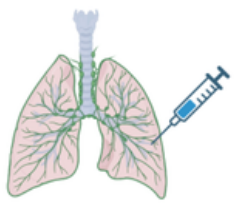
So: Which organs SCLC cells spread to is pre-determined rather than random

But what traits determines the cells' spread?

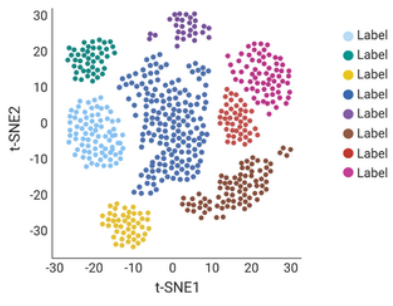
Key Takeaways

- Cellular barcoding is a powerful tool to study the spread of cancer.
- Understanding why SCLC spreads to certain organs may help researchers develop drugs that target the specific metastatic pathways.

Next steps...



more experiments



scRNA-seq