# The kinetics of Interferon- $\gamma$ induced RNA flow

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### Summary

- ▶ Recap of the compartment model for RNA flow
- ► Gene selection based on RNA flow
- ▶ Brief comments on probe design

### Interferon- $\gamma$ induces broad changes in the transcriptome

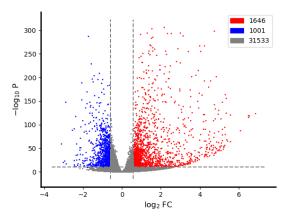


Figure 1

### The principle of Interferon- $\gamma$ induced transcriptional memory

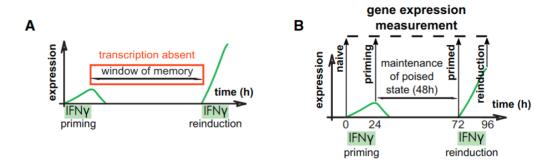
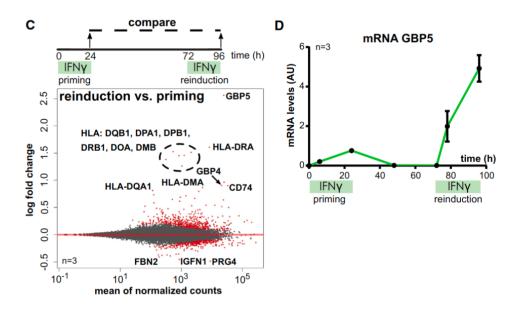


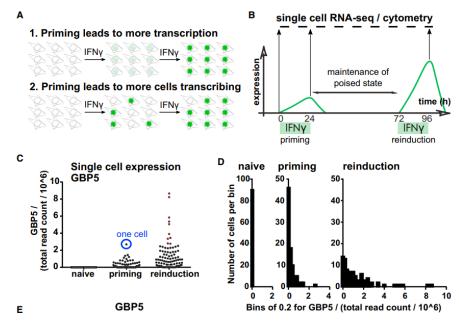
Figure 2

Siwek et al. Activation of Clustered IFNg Target Genes Drives Cohesin-Controlled Transcriptional Memory. Molecular Cell 2020

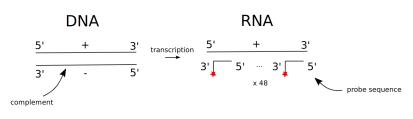
#### Total RNA-seq identifies GBP5 as a memorized gene

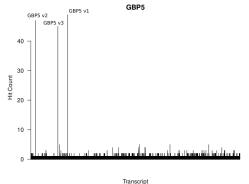


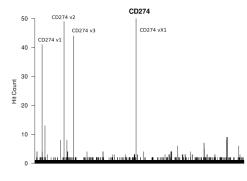
## Single-cell RNA-seq identifies GBP5 as a memorized gene



# BLASTing probes for GPB5 and CD274







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