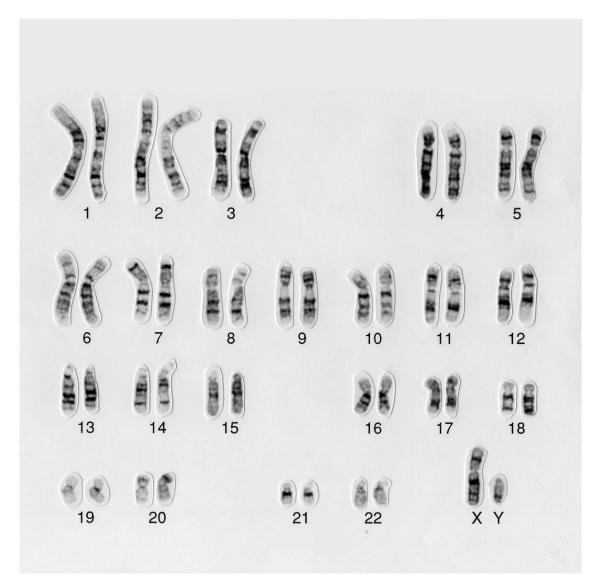
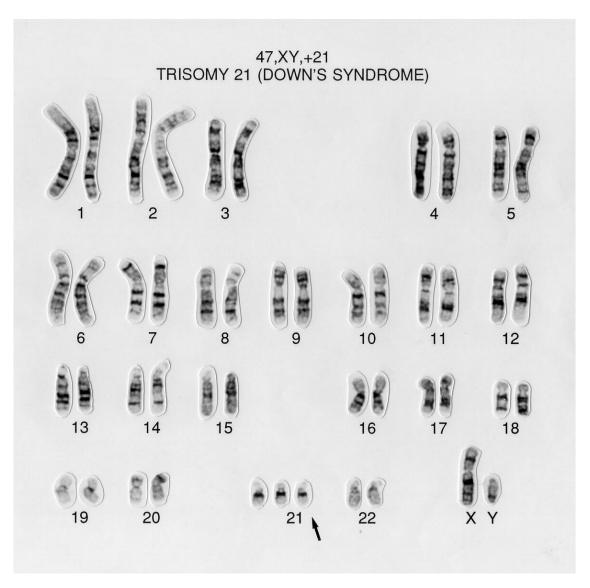
# Designing Copy Number Visualizations

Rladies Philly Lightning Talk 2022-06-08

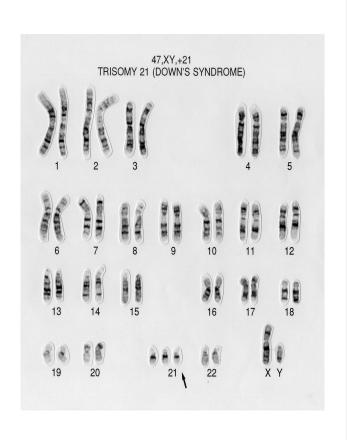
# Copy Number Variants (CNVs)

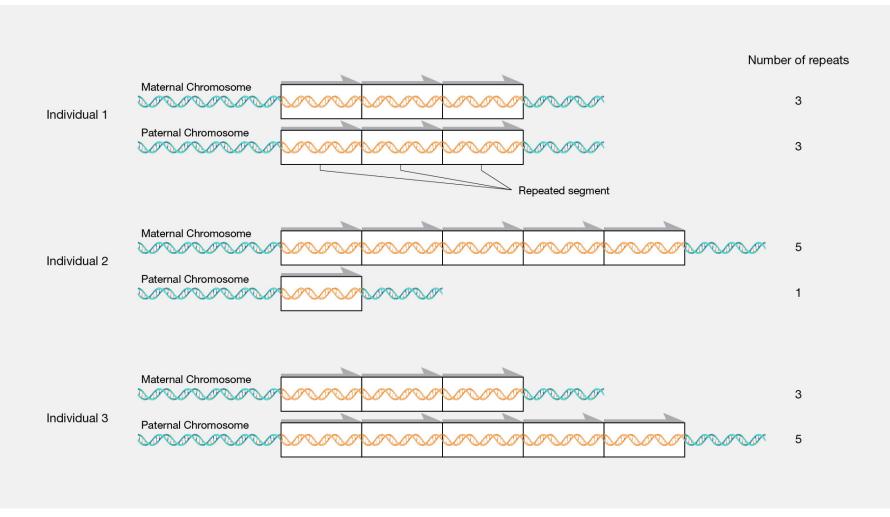


# Copy Number Variants (CNVs)

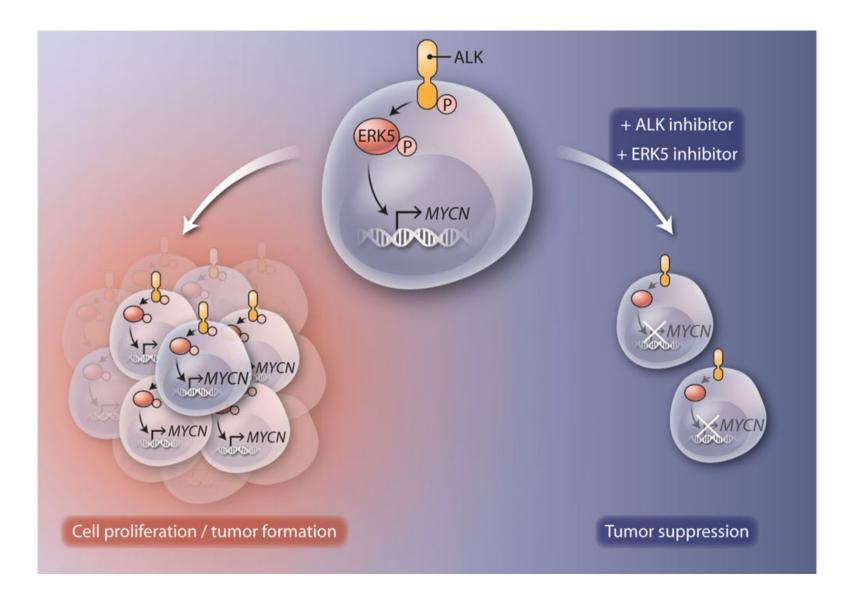


# Copy Number Variants (CNVs)





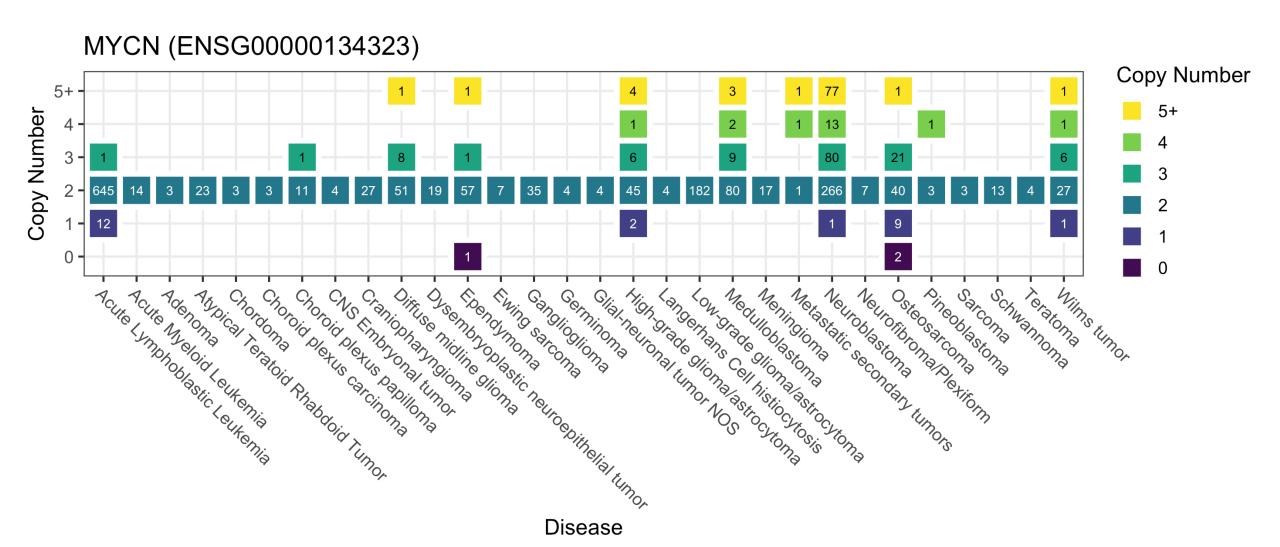
## **CNVs and Cancer**



## Challenges of Visualizing Genome-Wide Data

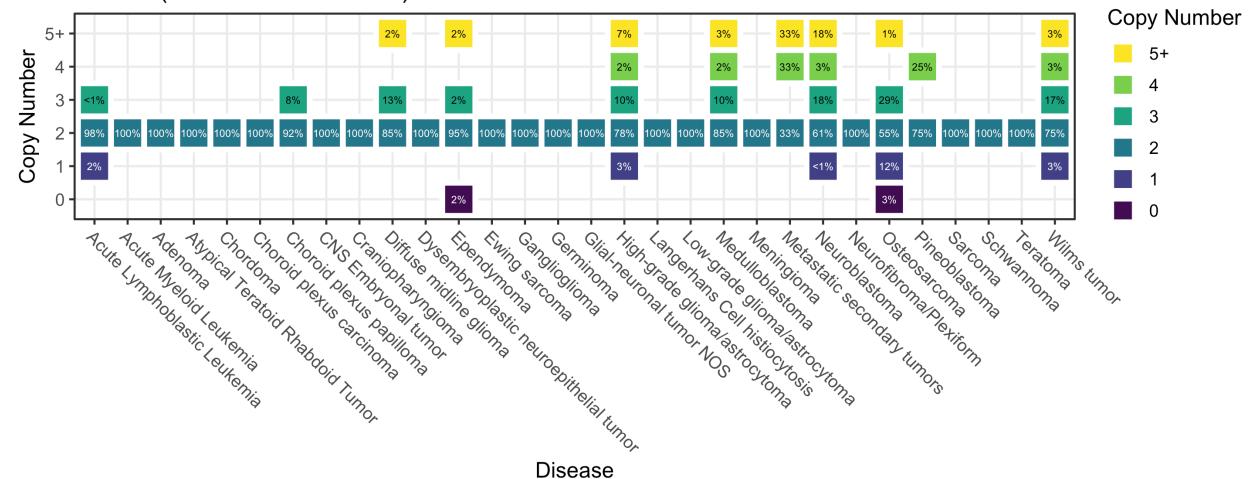
- **Size**: Anywhere from thousands to billions of measurements per sample
  - Hard to visualize individual measurements
  - Physical size of the data can be challenging for R to handle
- **Variability**: Even samples from the same organisms can vary based on sampling conditions

# Gene View - Summarization and Scaling



## Gene View - Summarization and Scaling

MYCN (ENSG00000134323)



## **Evidence View - Subsetting and Combining**

Neuroblastoma: MYCN (ENSG00000134323)

