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Simon Anders

Svetlana Ovchinnikova

Alina Malyutina

Co-supervised:

Sailalitha Bollepalli (Kaprio group)

Ashwini Kumar (Heckmann group)

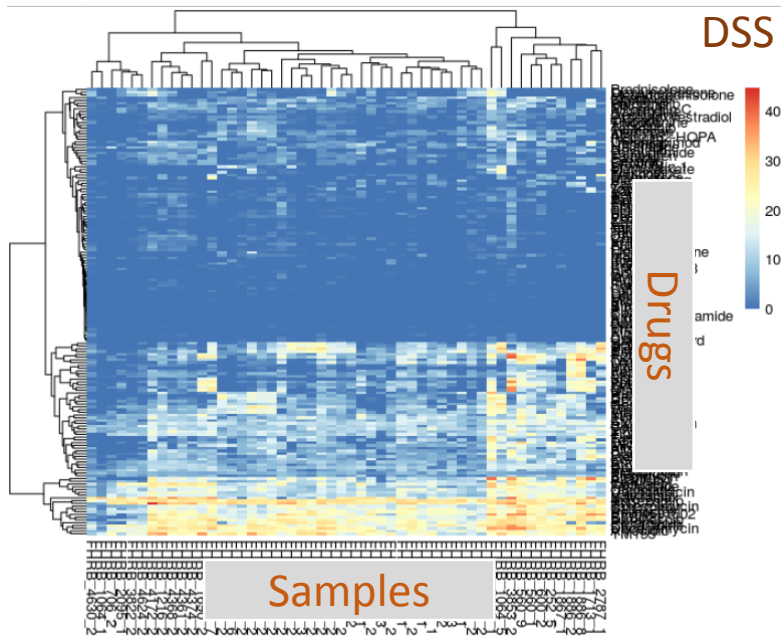
Lea Urpa (rotation)

Yevhen Akimov (Heckmann group / rotation)

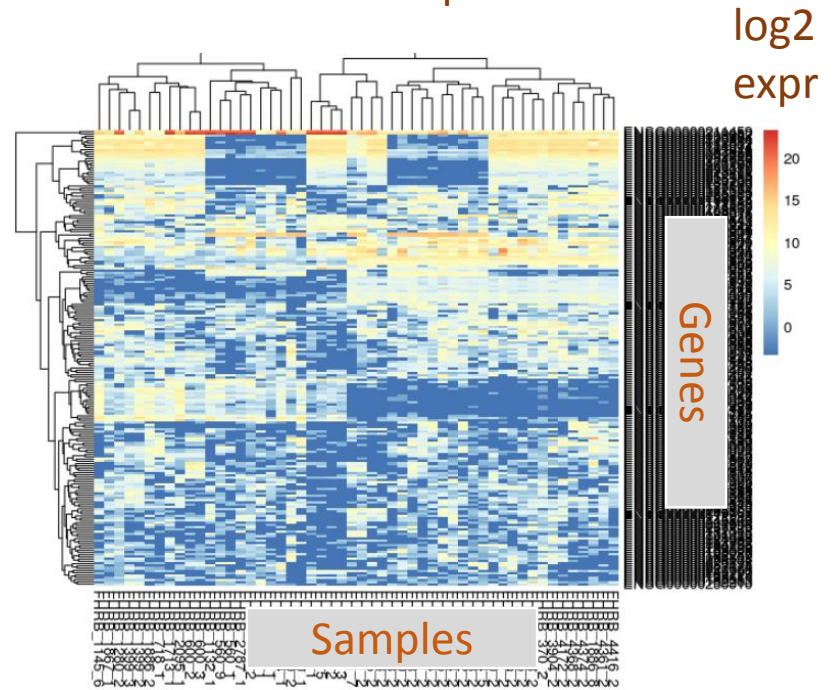
Looking at correlations

## AML Data

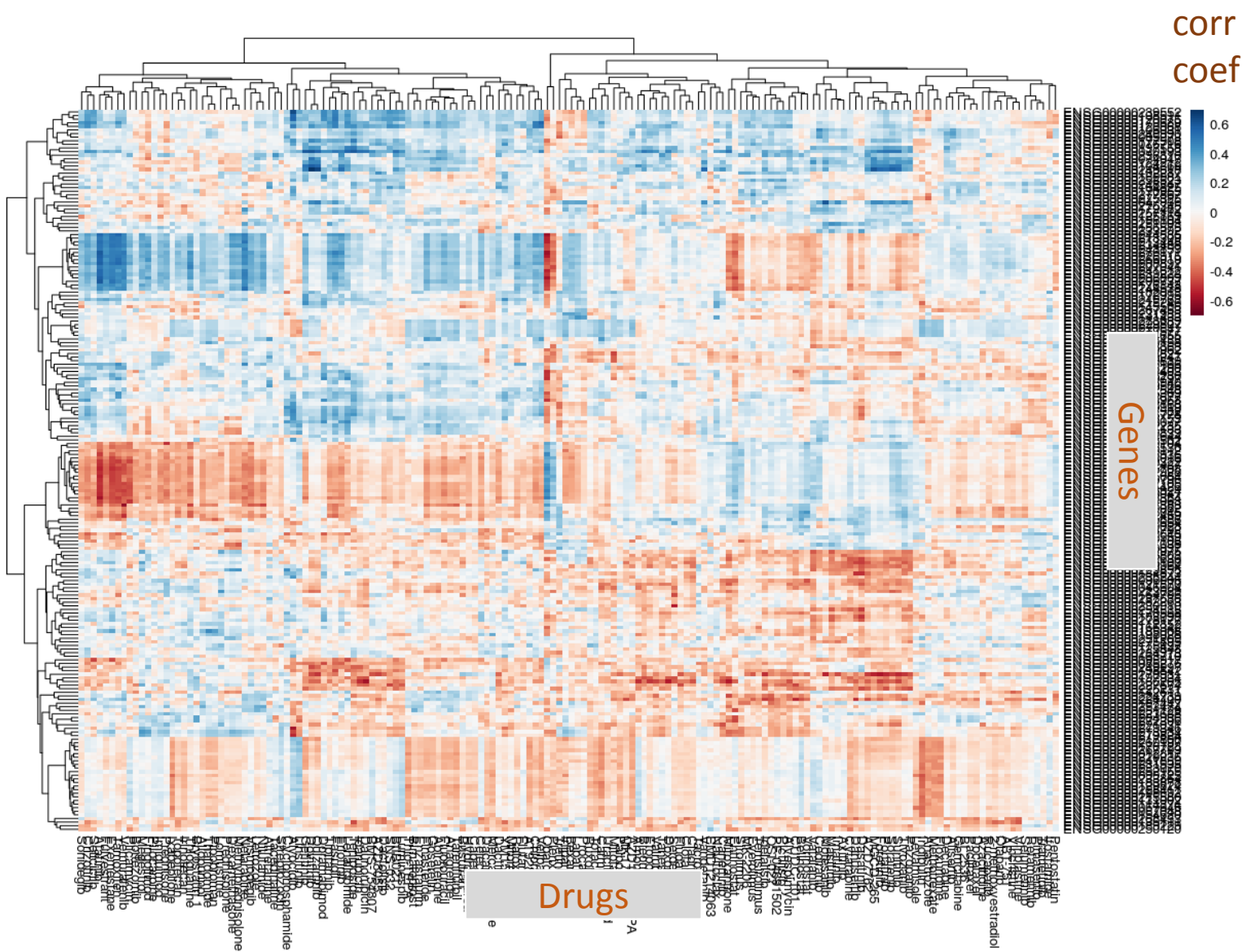
DSRT

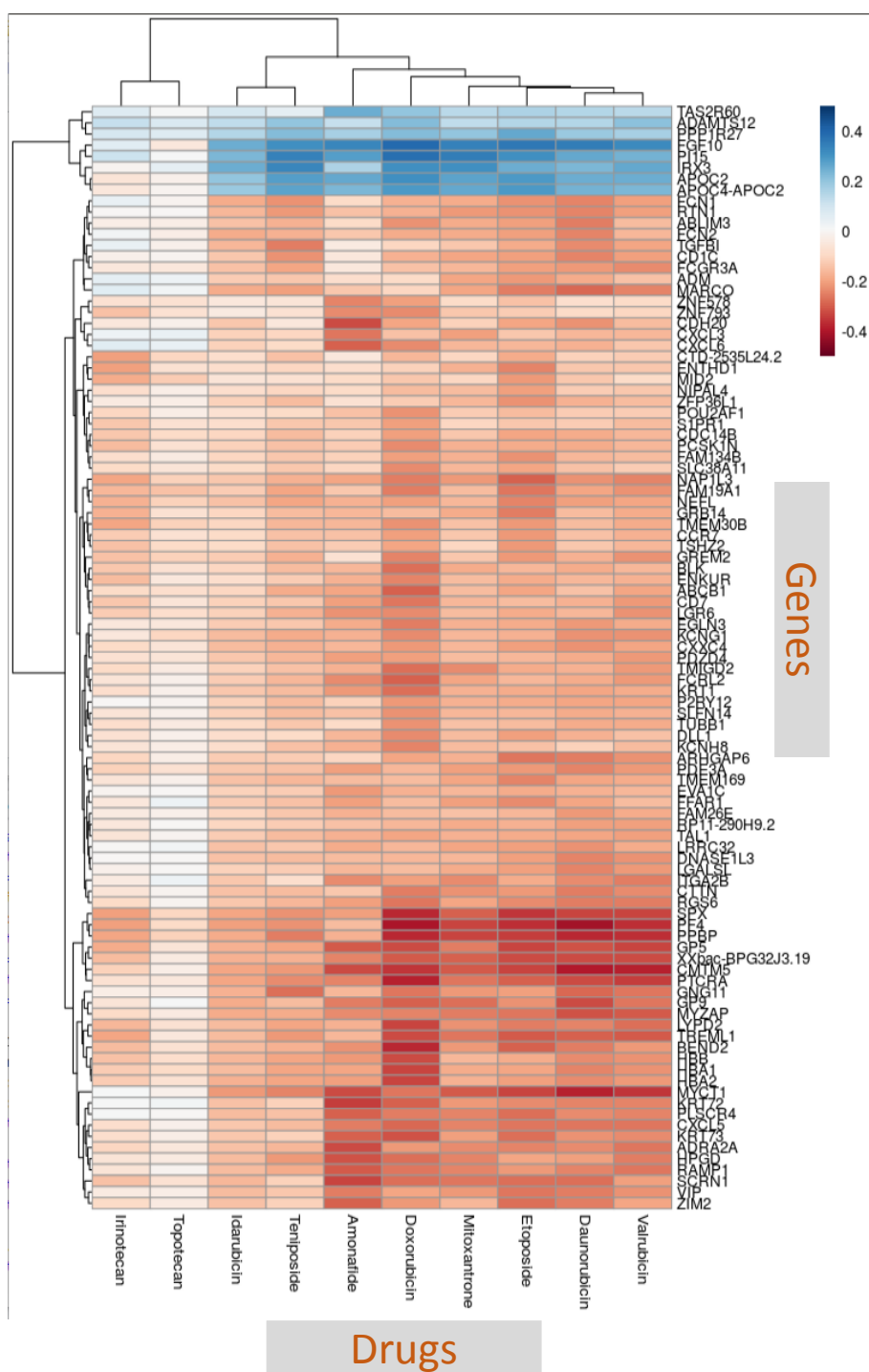


RNA-Seq



Correlations?





regression  
slope

*Drugs: only topoisomerase inhibitors*

*Genes:* only genes significantly correlated with at least one of these drugs

[show heatmap]

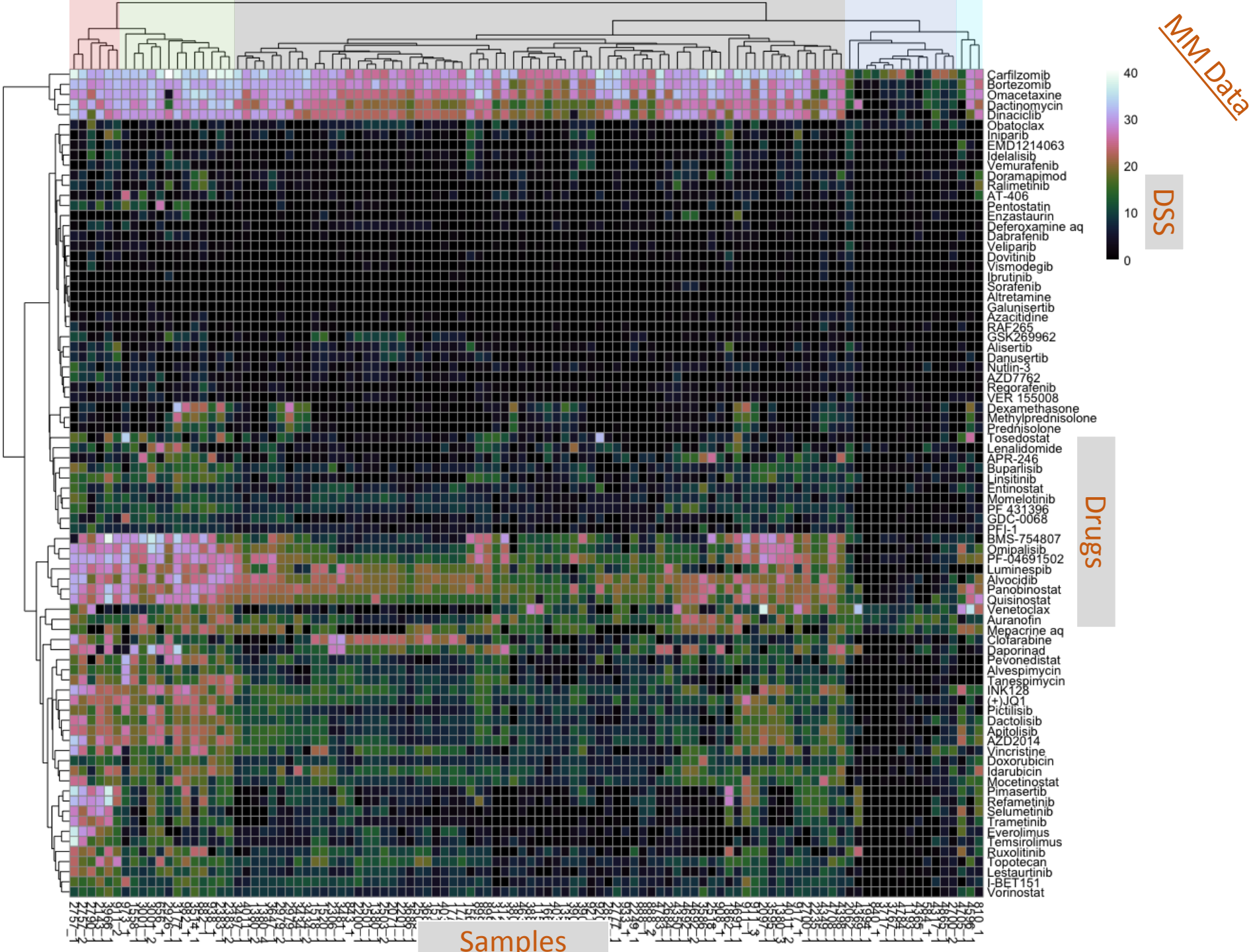
[show code]

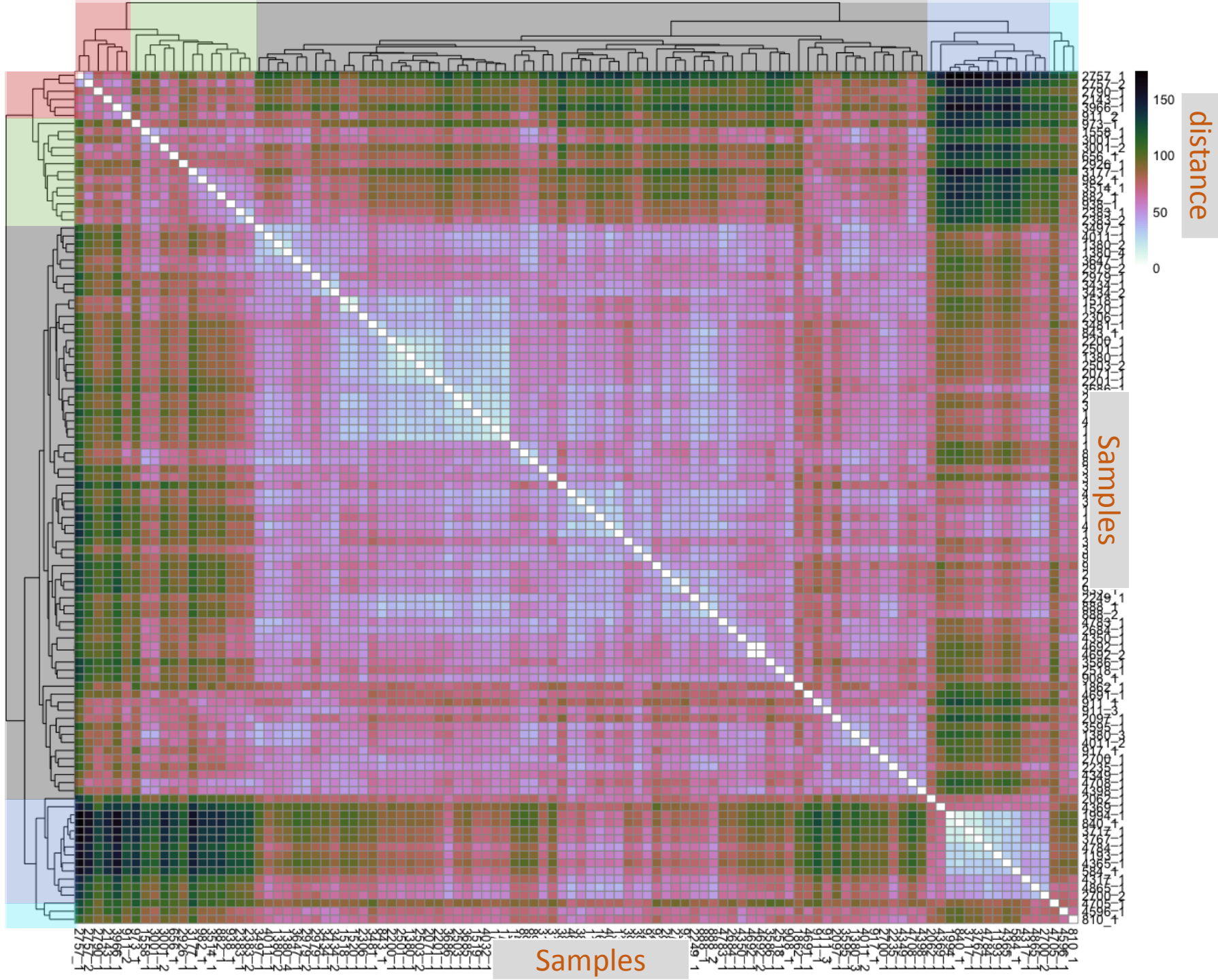


# “Linked charts”

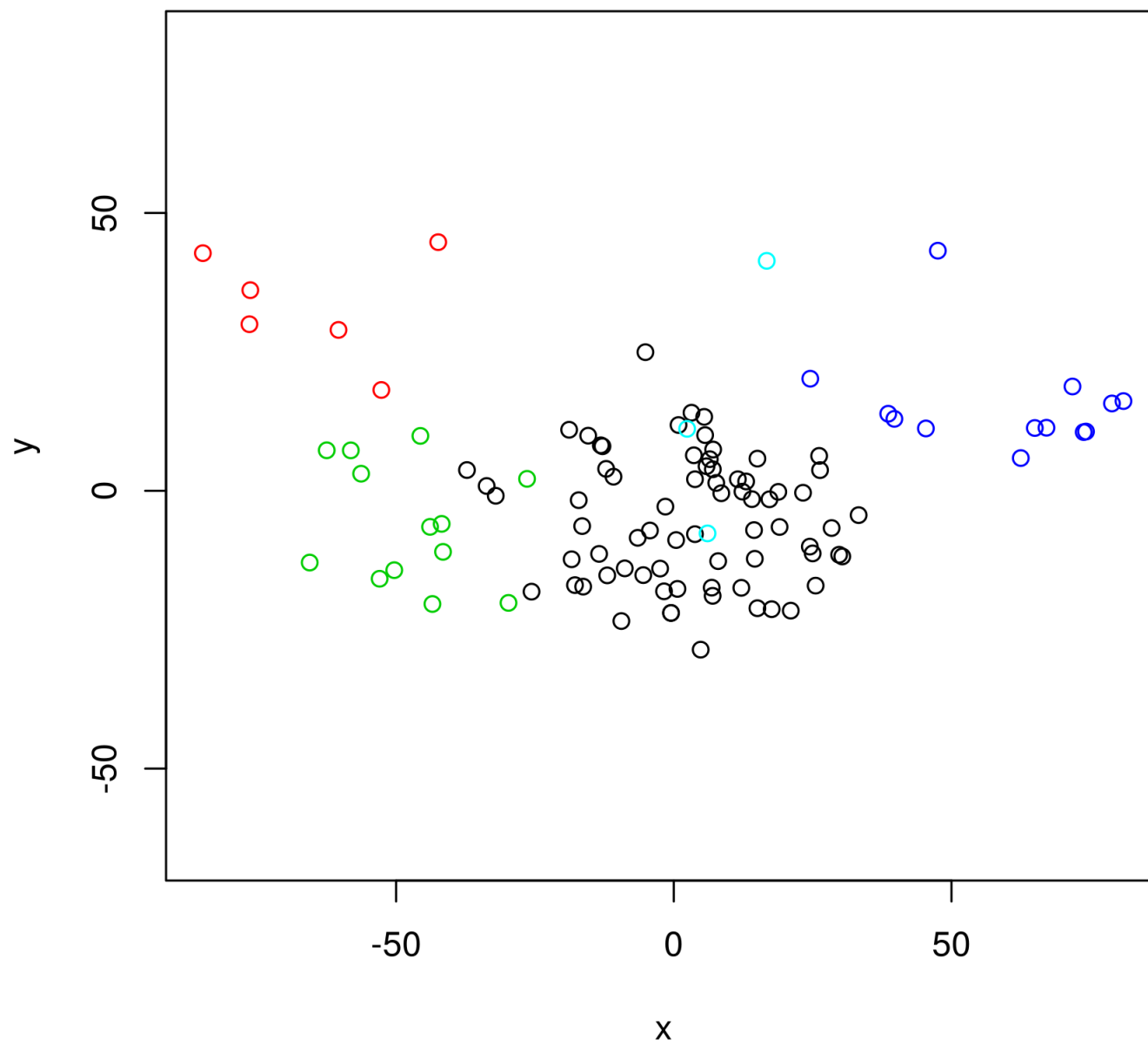
A framework to allow bioinformaticians to rapidly develop interactive visualization apps tailored to a specific data set.

Correlations between samples

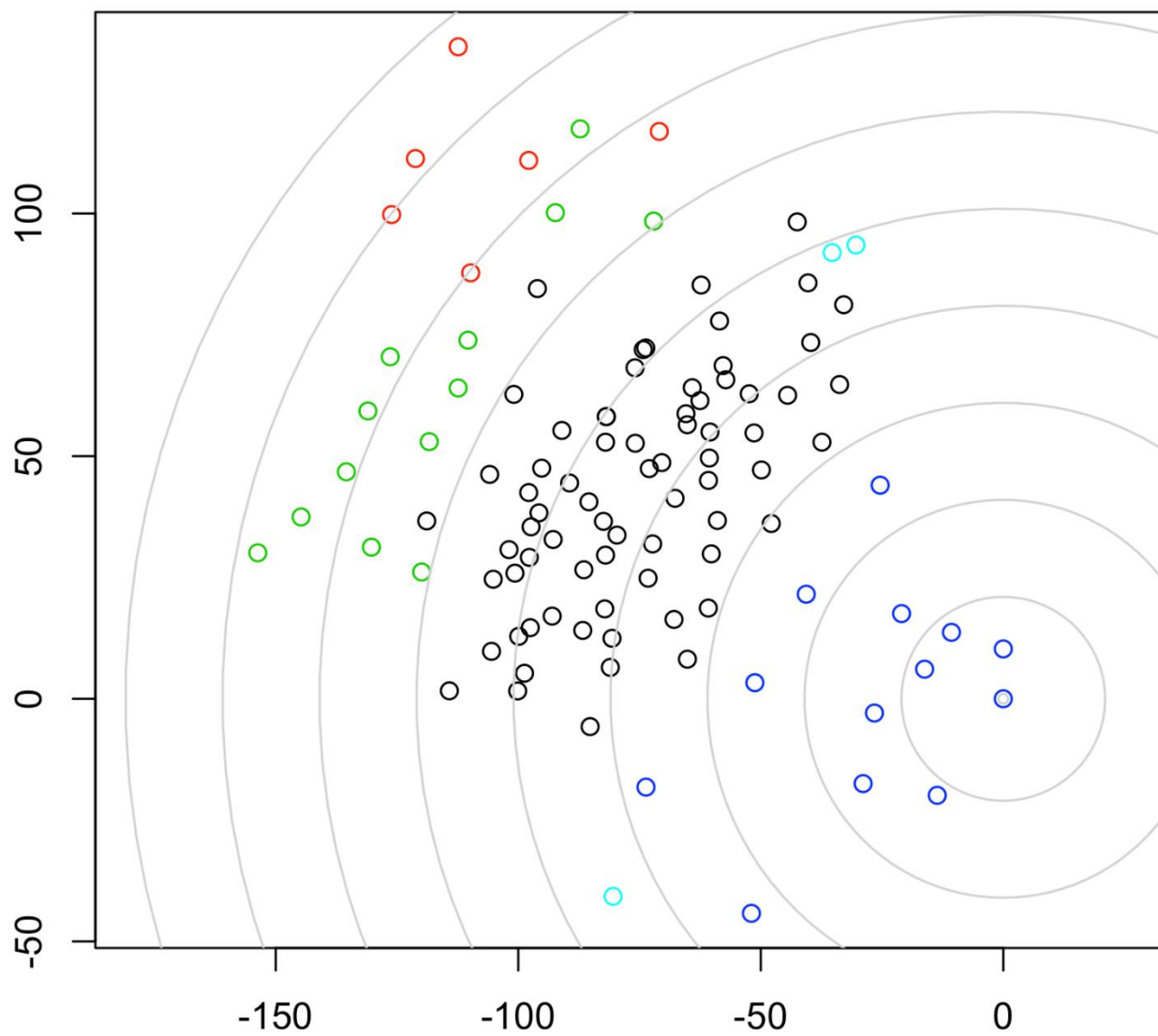




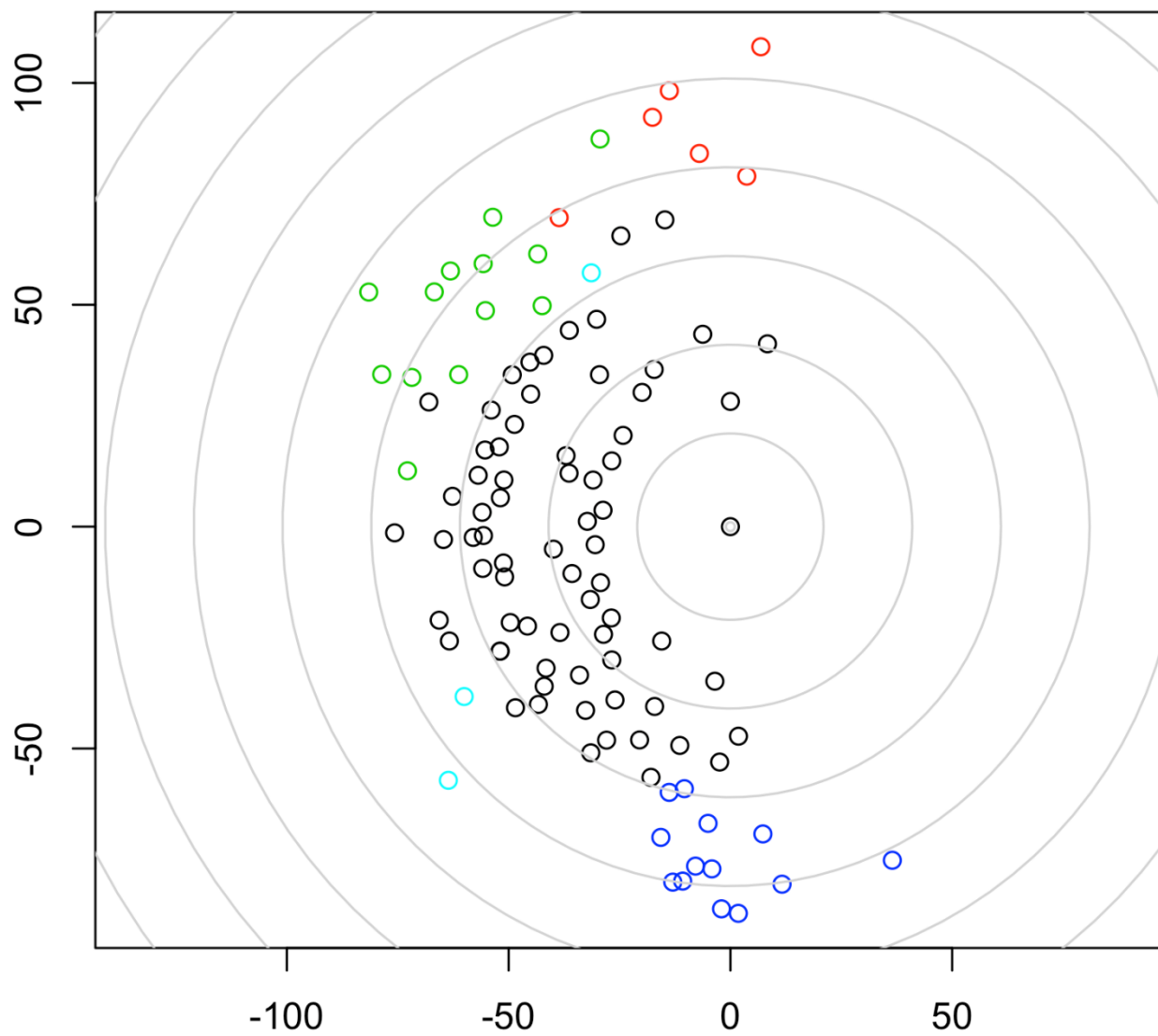
# AML DSS



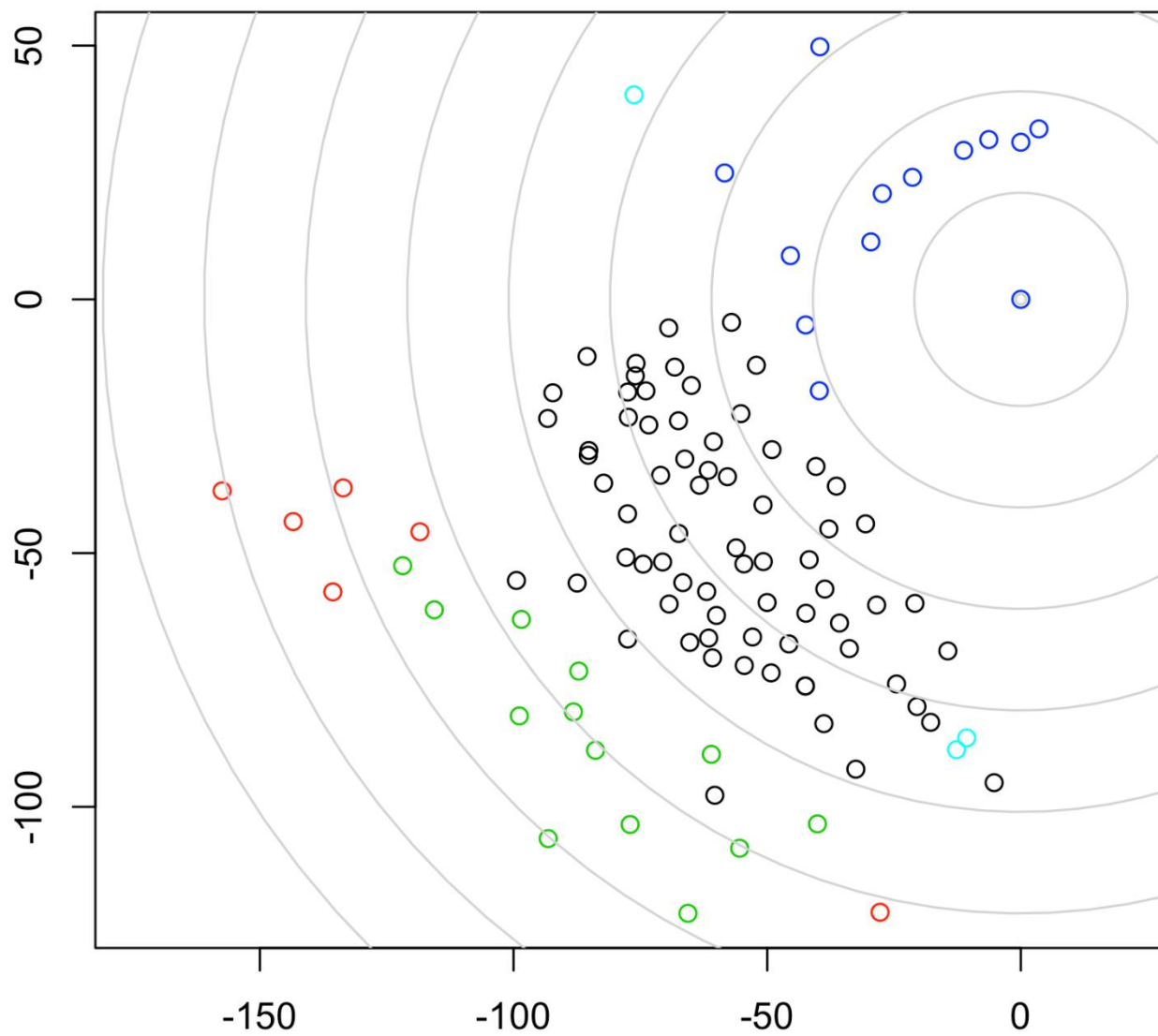
**Focused MDS Plot 90**



**Focused MDS Plot 91**

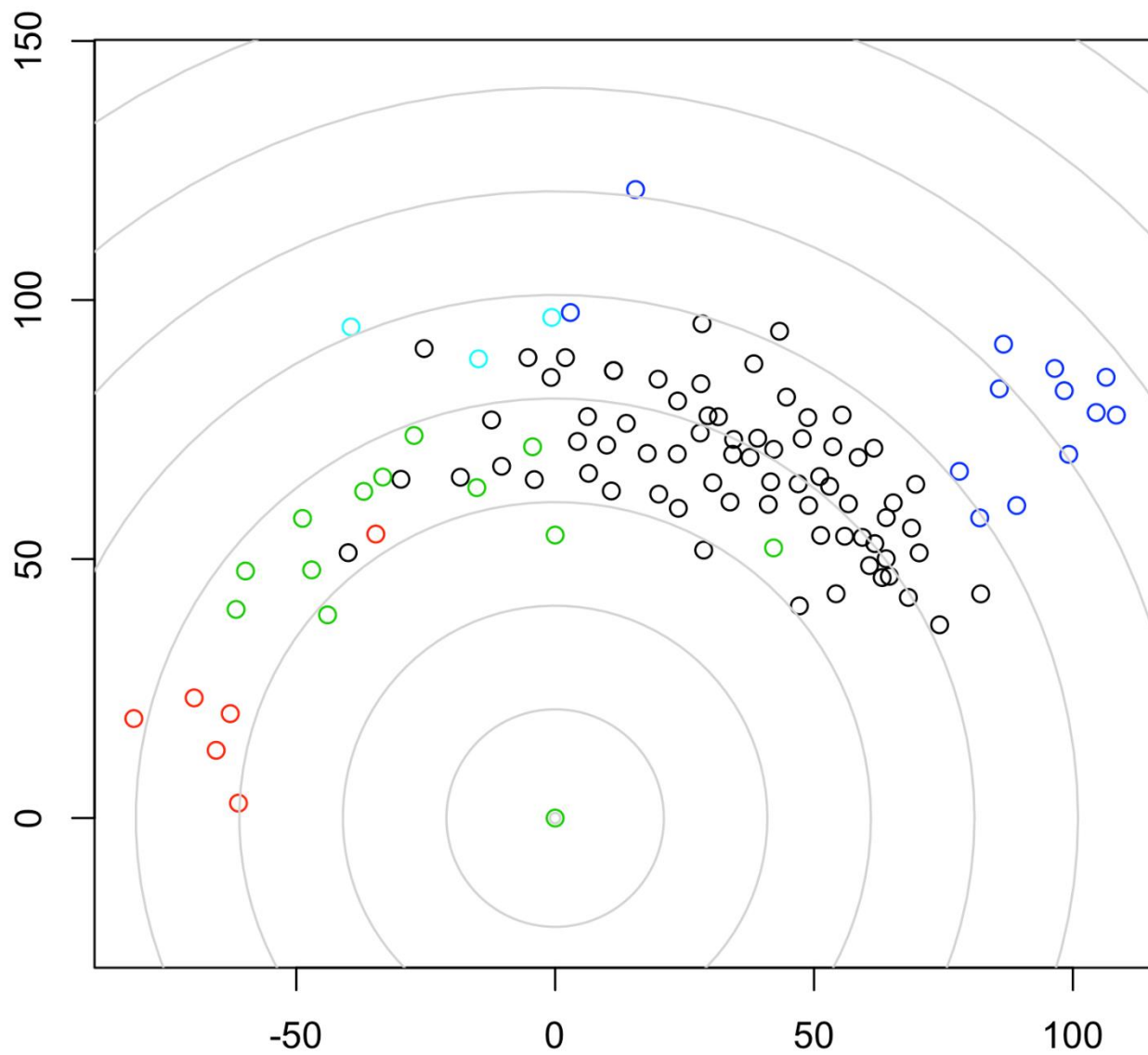


**Focused MDS Plot 87**

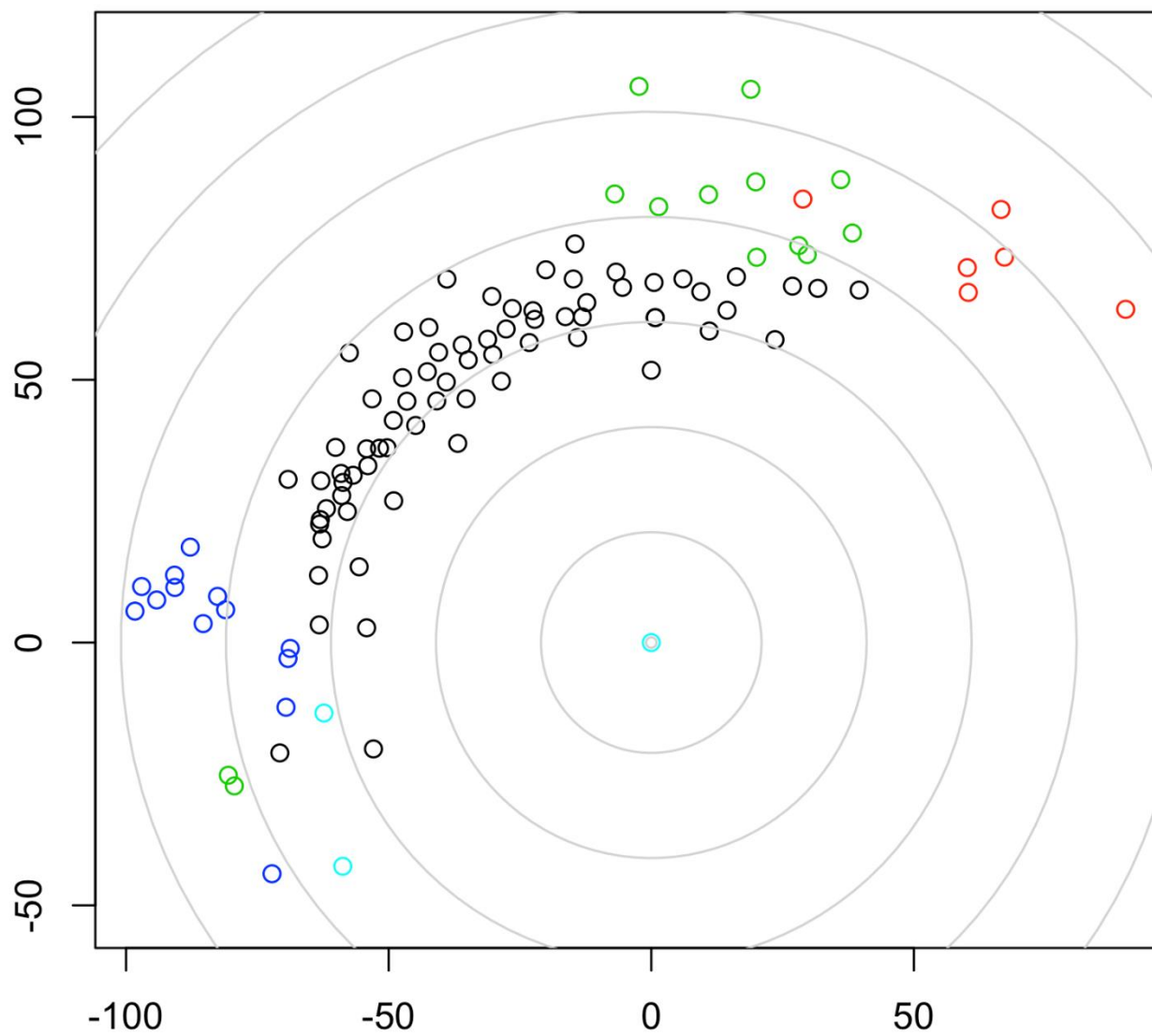




**Focused MDS Plot 88**



**Focused MDS Plot 89**



## Other topics:

- Quantitative analysis of  
TMT-labelled mass spectrometry data
- Epigenetic epidemiology
- Multi-omics integration with dimension reduction  
techniques

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