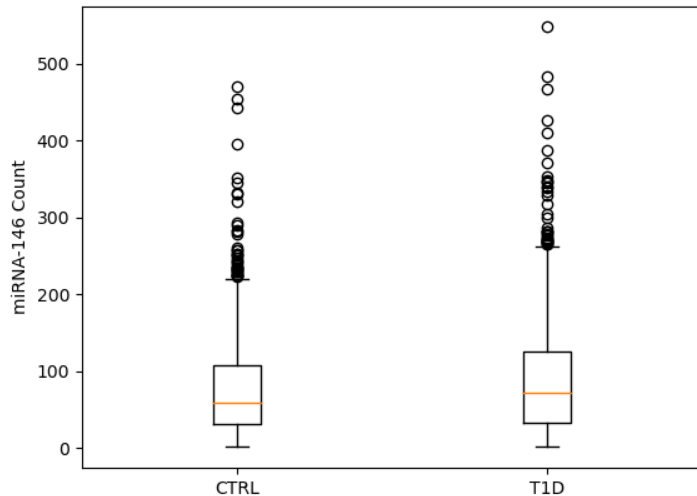


MicroRNAs in Type 1 Diabetes

Clayton Seitz

September 9, 2021

1053 control cells, 1282 T1D cells, elevated miR-146 expression in T1D



```
#closest distance to cell outline  
#distance to cell centroid  
#Distance to nuclear centroid  
#Radius to include 5% off all remaining spots in the cell  
#Radius to include 10% off all remaining spots in the cell  
#Radius to include 15% off all remaining spots in the cell  
#Radius to include 25% off all remaining spots in the cell  
#Radius to include 50% off all remaining spots in the cell  
#Radius to include 75% off all remaining spots in the cell  
#Fraction of remaining spots at 20 pixels  
#Fraction of remaining spots at 40 pixels  
#Fraction of remaining spots at 80 pixels  
#Fraction of remaining spots at 120 pixels  
#Mean distance to all other spots  
#Standard deviation of distances to all other spots  
#Variance of distances to all other spots
```

Assess the distribution of the data in the 16-dimensional feature space