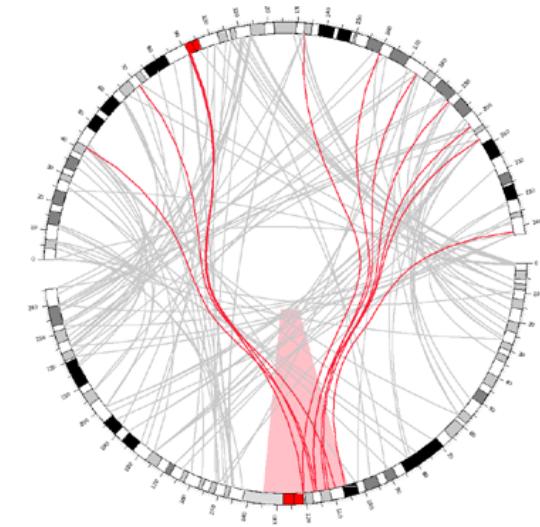
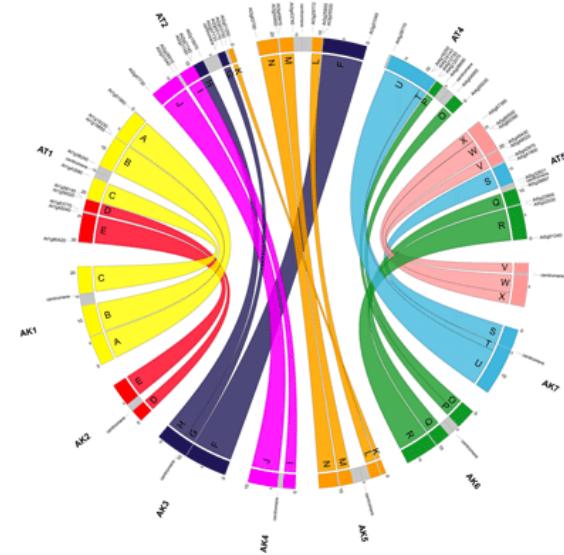
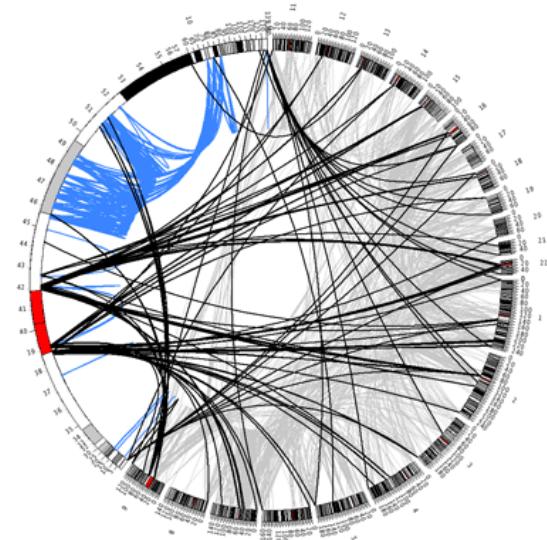
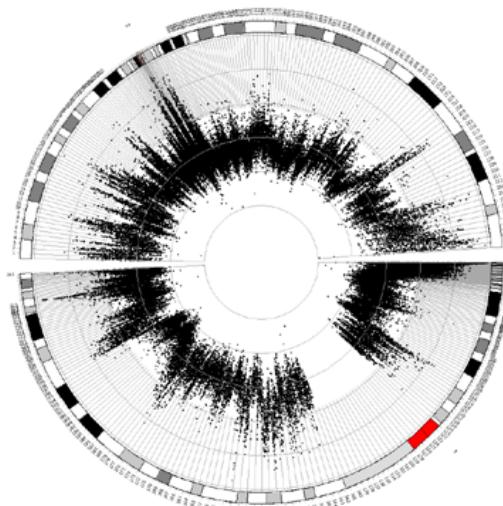
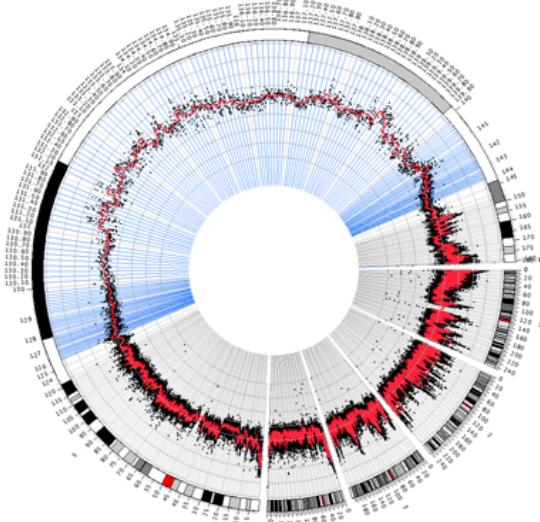
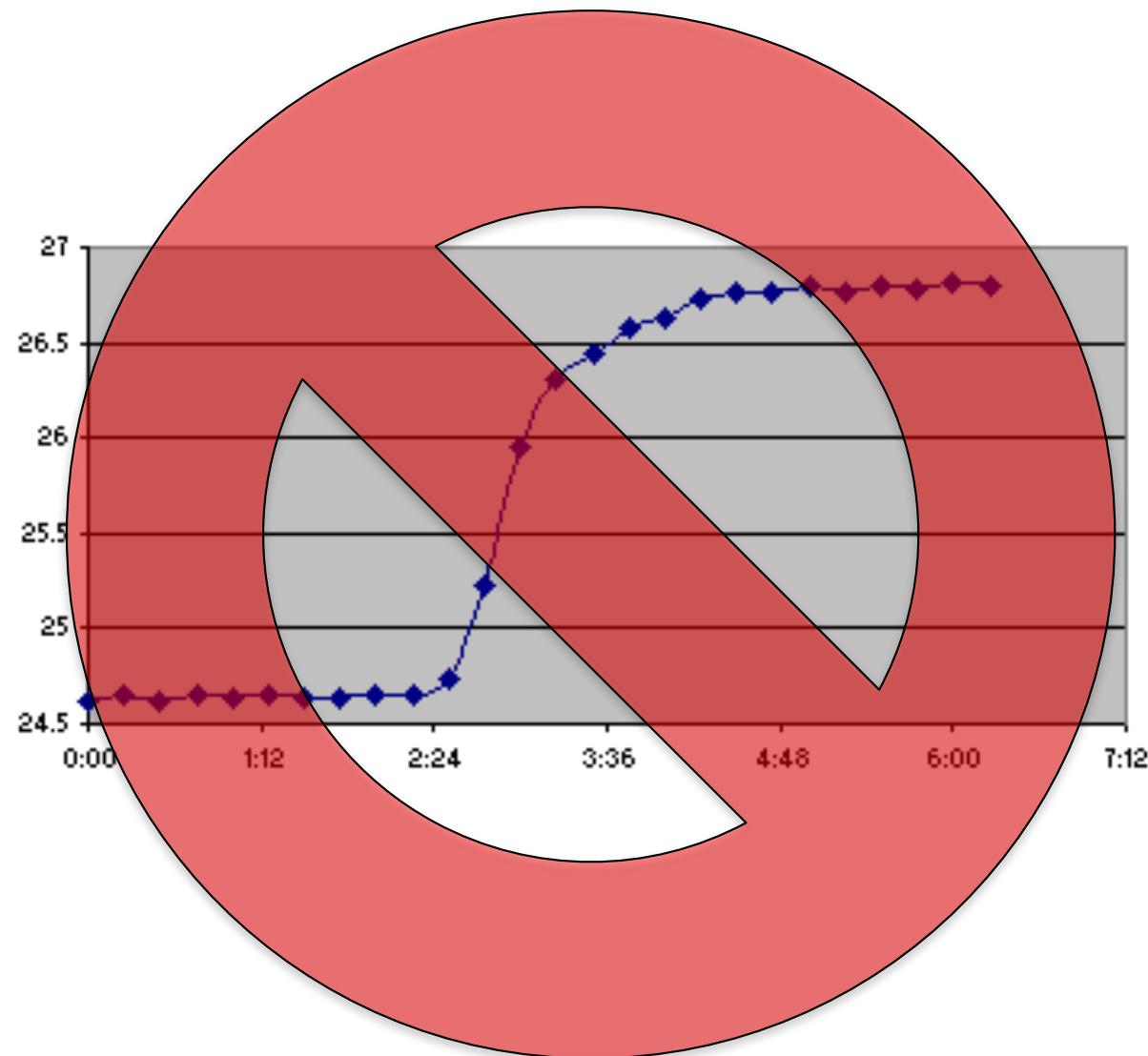


Data Visualization



Images: Circos.ca

Data Visualization



Data Visualization

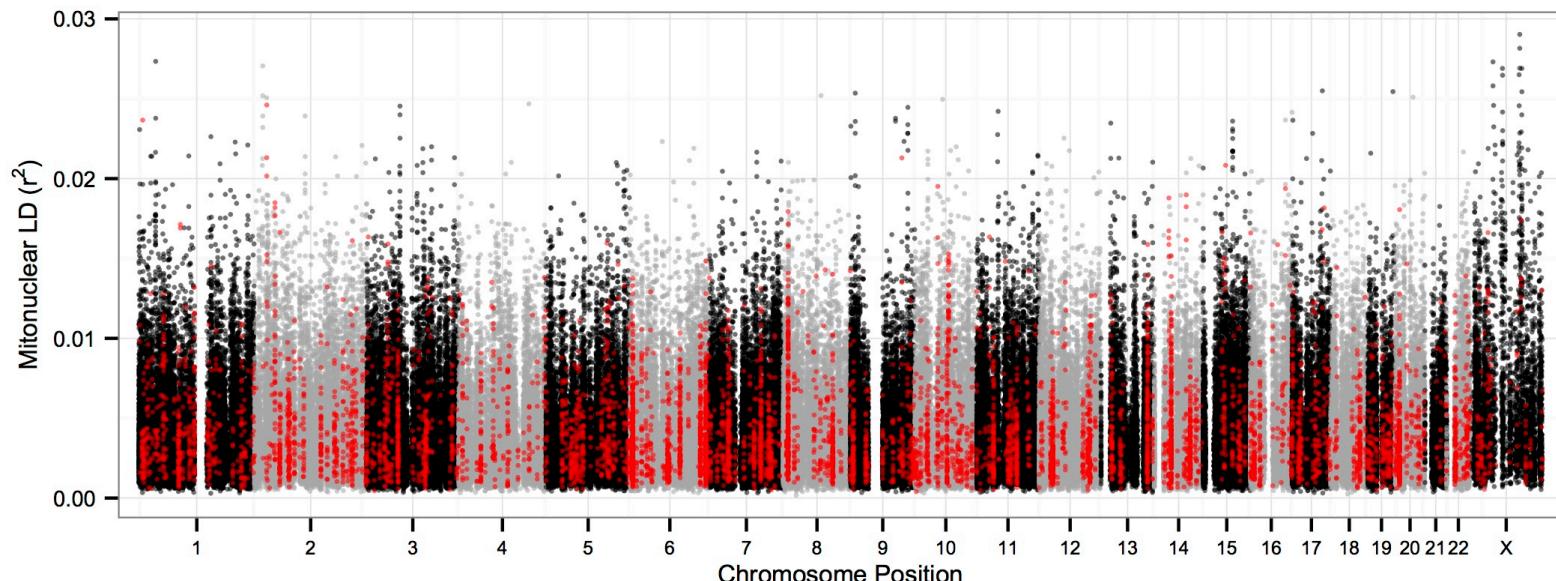
Quality Figures for Papers and Presentations

- Clear and accurate representation of your data
- Clean, professional, and aesthetically pleasing appearance
- Efficient, reproducible, and automated

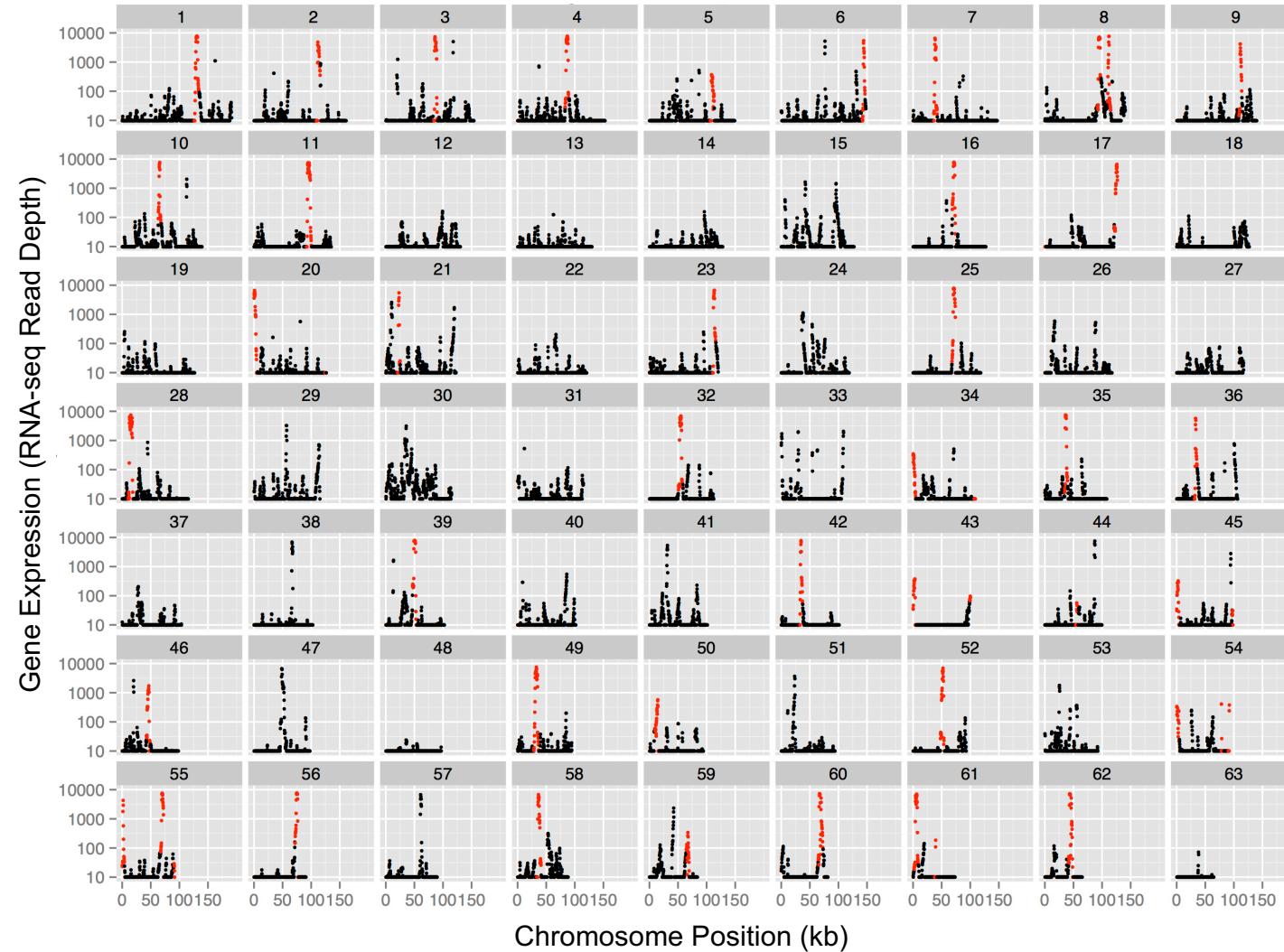
Data Visualization

Writing Code to Generate Figures

```
ggplot(cnld) + geom_point(aes(x=CumPos, y=r2, size=0.75, colour=as.factor(ChromPrint), alpha = 1/8)) + scale_size_identity() + theme_bw(base_size=15) +  
scale_color_manual(values=c(rep(c('black', 'dark gray'),11), 'black', 'red')) +  
scale_x_continuous(expand = c(0.015, 0.015),labels=c(as.character(1:chrNum), "X"),  
breaks=bpMidVec) + theme(plot.margin = unit( c(0.03,0.03,0.03,0.03) , "in" ),  
legend.position='none', axis.text.x = element_text(size=6), axis.text.y =  
element_text(size=7), axis.title.x = element_text(size=8), axis.title.y =  
element_text(size=8)) + xlab('Chromosome Position') +  
ylab(expression(paste("Mitonuclear LD (",r^2, ")")))
```



Data Visualization



Data Visualization

<https://dbsloan.github.io/csb2017/>



Welcome to CSB 2017 Genomics Data Visualization Workshop!



Genomics Data Visualization

Front Range Computational & Systems Biology Symposium

June 12, 2017

Downloading Workshop Materials

Thank you for joining us. Today, we are going to run through three exercises related to data visualization. To begin, open a Terminal session and enter the following commands:

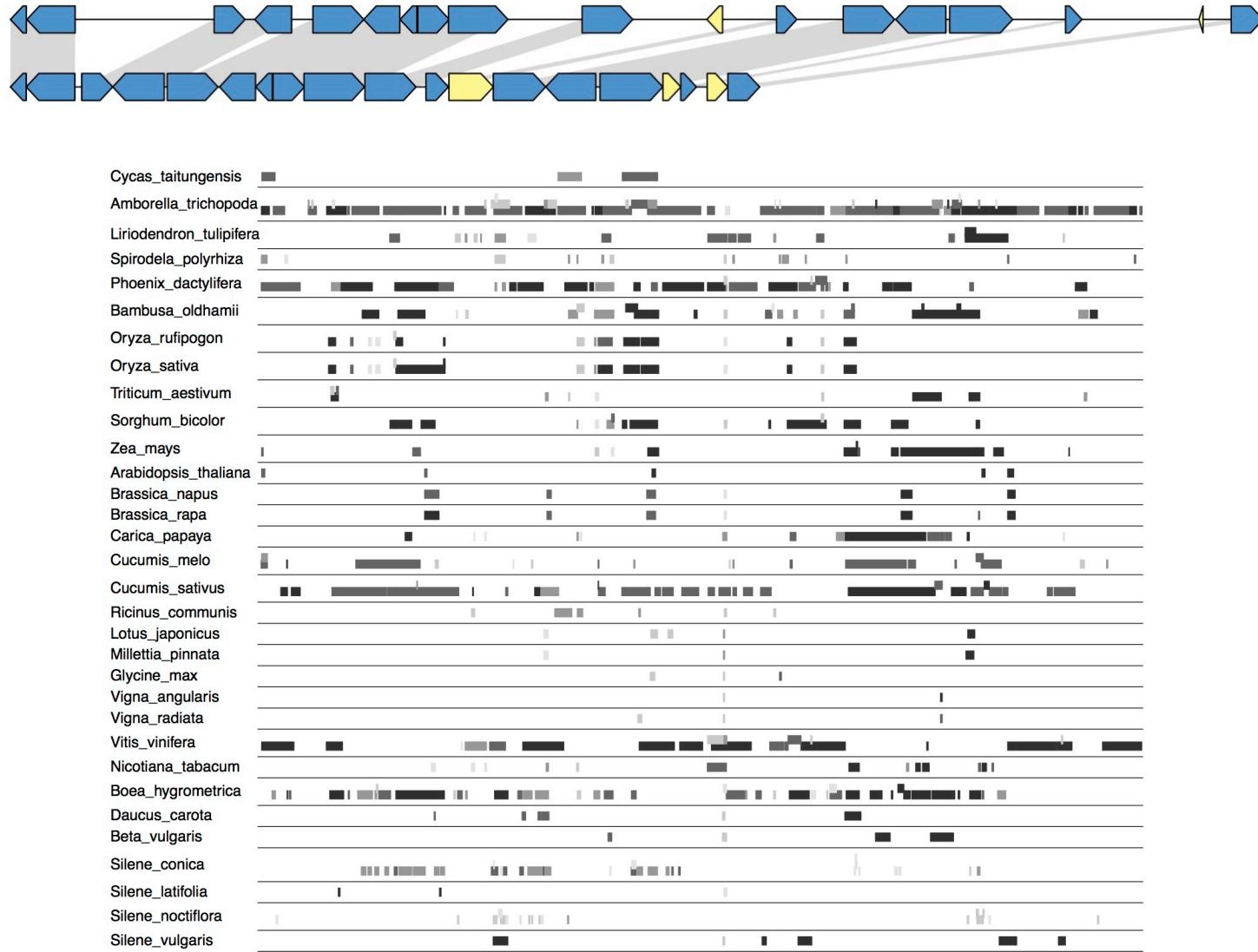
```
#Change directories to your Desktop
cd Desktop

#Download workshop materials with wget
wget http://dbsloan.github.io/csb2017/csb2017.zip

#Unzip the workshop materials
unzip csb2017.zip
```

Alternatively, you can [download the workshop materials directly from this link](https://dbsloan.github.io/csb2017/csb2017.zip).

Data Visualization



Data Visualization



<https://processing.org/>

Data Visualization

