# PRI-FLCH-miRs

Alaa R. Farghli

1/27/2021

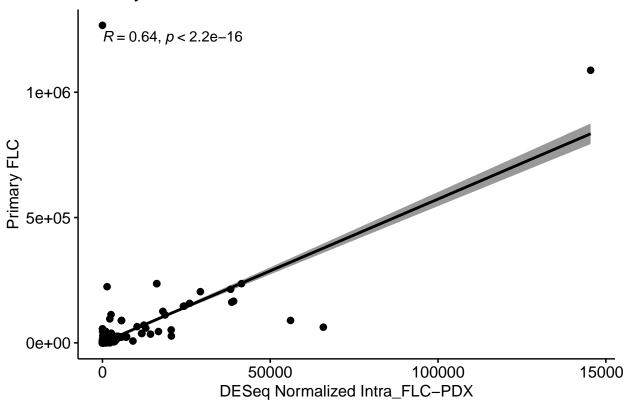
```
library(dplyr)
library(ggpubr)
library(tibble)
```

### Load CSV

```
flc.intra.deseq <- read.csv("FLC-PDX_DESeq_miRs.csv")
flc.pri <- read.csv("PRI-mIRs.csv")
flc.intra.rpmmm <- read.csv("FLC-PDX_RPMMM_miRs.csv")</pre>
```

Full join FLC primary tumor and FLC-PDX miRs (avg\_DESeq). Changed is.na to 0

### Primary FLC tumor miRS vs FLC-PDX miRs

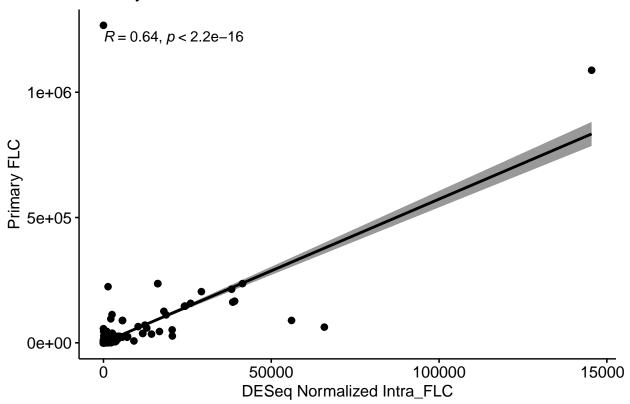


### Removed rows that equal 0

```
flc.combined.deseq <- column_to_rownames(flc.combined.deseq, var = "miR")
flc.clean <- flc.combined.deseq[rowSums(flc.combined.deseq[])>0,]
```

#### Plotted cleaned DEseq\_dataframe with and without log10 transformation

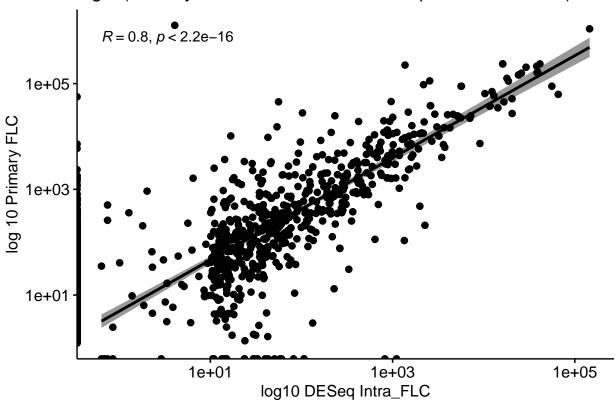
### Primary FLC tumor miRs vs FLC-PDX miRs



рЗ

## Warning: Transformation introduced infinite values in continuous x-axis
## Warning: Transformation introduced infinite values in continuous y-axis
## Warning: Transformation introduced infinite values in continuous x-axis
## Warning: Transformation introduced infinite values in continuous y-axis
## Warning: Transformation introduced infinite values in continuous x-axis
## Warning: Transformation introduced infinite values in continuous y-axis
## 'geom\_smooth()' using formula 'y ~ x'
## Warning: Removed 1020 rows containing non-finite values (stat\_smooth).
## Warning: Removed 1020 rows containing non-finite values (stat\_cor).

## log10(Primary FLC tumor miRs vs DESeq\_FLC-PDX miRs)

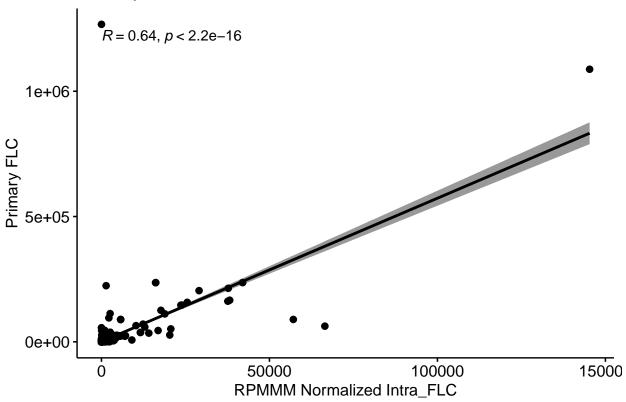


#Work flow with RPMMM

```
flc.combined.rpmmm <- full_join(flc.intra.rpmmm, flc.pri, by = "miR")
flc.combined.rpmmm[is.na(flc.combined.rpmmm)] <- 0
flc.combined.rpmmm <- column_to_rownames(flc.combined.rpmmm, var = "miR")
flc.clean.rpmmm <- flc.combined.rpmmm[rowSums(flc.combined.rpmmm[])>0,]
```

## 'geom\_smooth()' using formula 'y ~ x'





p5

## Warning: Transformation introduced infinite values in continuous x-axis
## Warning: Transformation introduced infinite values in continuous y-axis
## Warning: Transformation introduced infinite values in continuous x-axis
## Warning: Transformation introduced infinite values in continuous y-axis
## Warning: Transformation introduced infinite values in continuous x-axis
## Warning: Transformation introduced infinite values in continuous y-axis
## 'geom\_smooth()' using formula 'y ~ x'
## Warning: Removed 1098 rows containing non-finite values (stat\_smooth).
## Warning: Removed 1098 rows containing non-finite values (stat\_cor).

