

Regeneration *Drosophila melanogaster*  
new RNAseq samples sequenced at the CRG

06/01/2016

# Outline

Overview of RNA-seq samples

Mapping statistics

Correlation between replicates

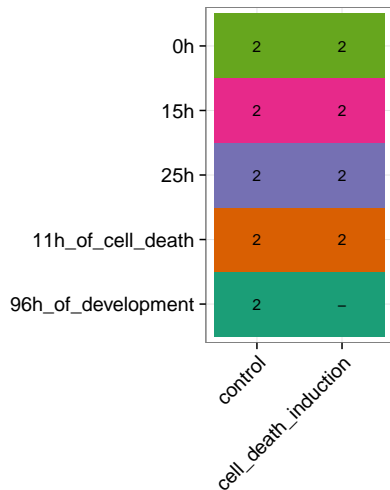
Comparison between ERC wing disc and 96h control

PCA and Clustering

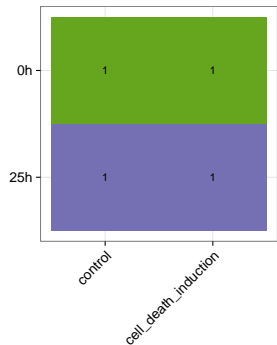
Control genes

# RNAseq samples

Samples sequenced in India



Samples sequenced at the CRG



# Outline

Overview of RNA-seq samples

**Mapping statistics**

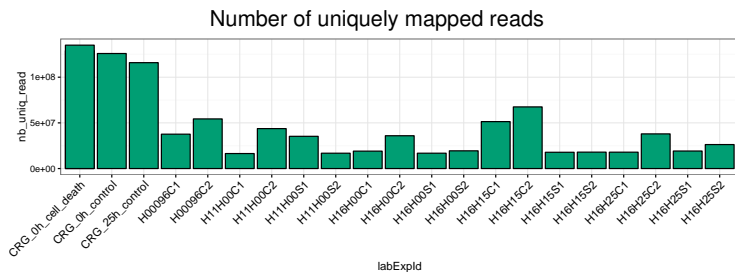
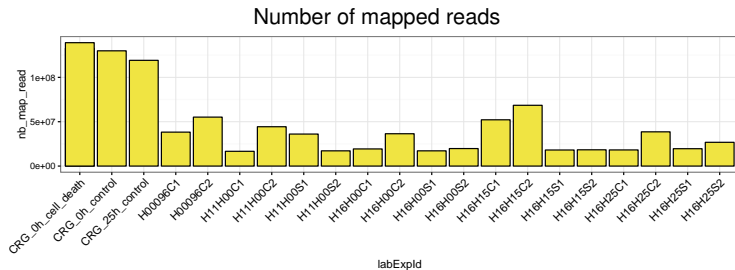
Correlation between replicates

Comparison between ERC wing disc and 96h control

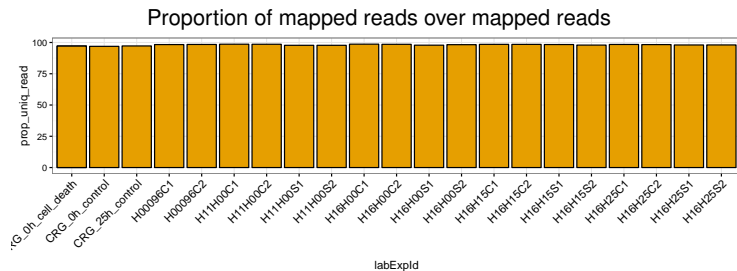
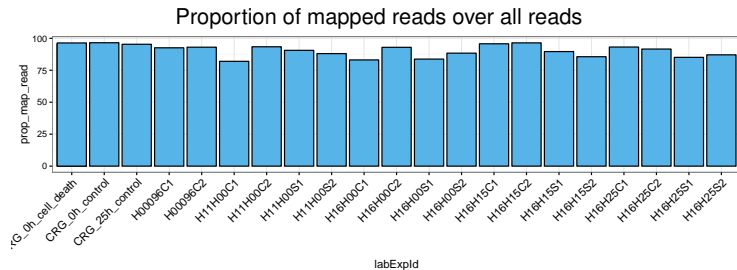
PCA and Clustering

Control genes

# Mapping statistics

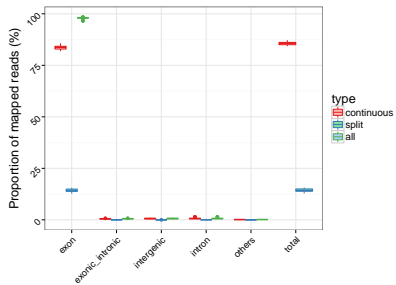


# Mapping statistics

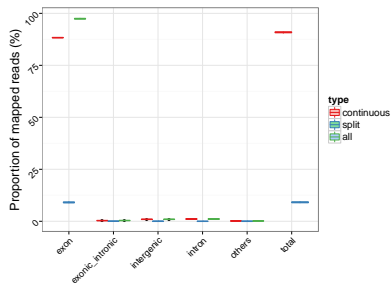


# Genomic regions

## Samples sequenced in India



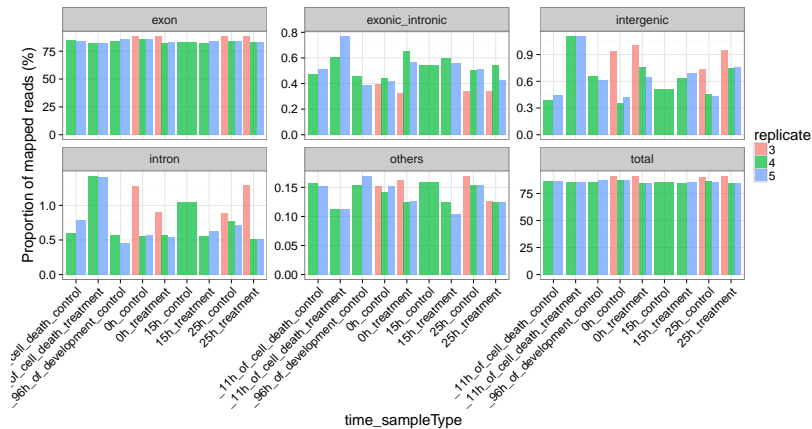
## Samples sequenced at the CRG



# Genomic regions - continuous mapping

Replicates 4 and 5 = Samples sequenced in India

Replicate 3 = Samples sequenced at the CRG

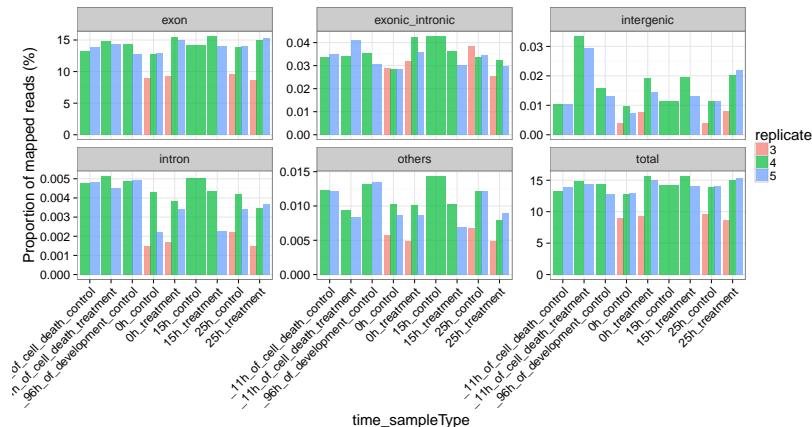




# Genomic regions - split mapping

Replicates 4 and 5 = Samples sequenced in India

Replicate 3 = Samples sequenced at the CRG



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Overview of RNA-seq samples

Mapping statistics

**Correlation between replicates**

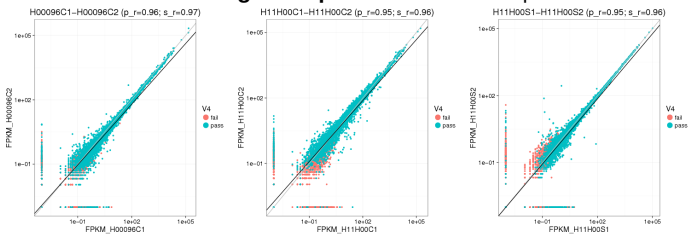
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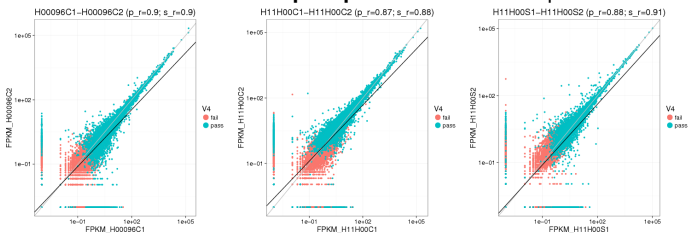
Control genes

# 96h control and 11h cell death

## Correlation of gene expression between replicates

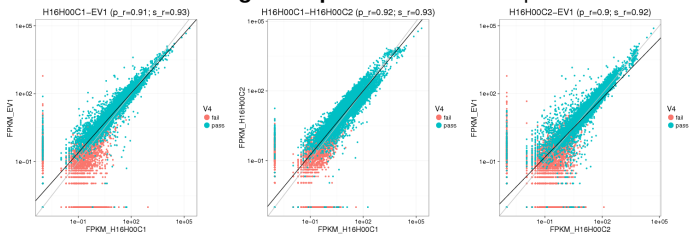


## Correlation of transcript expression between replicates

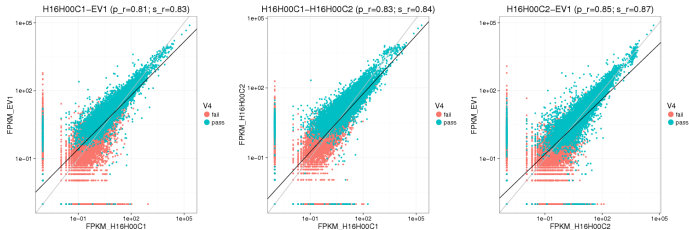


# 0h control

## Correlation of gene expression between replicates

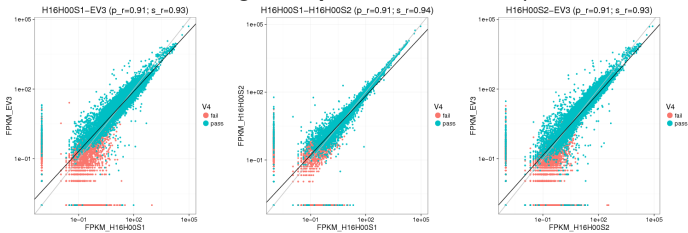


## Correlation of transcript expression between replicates

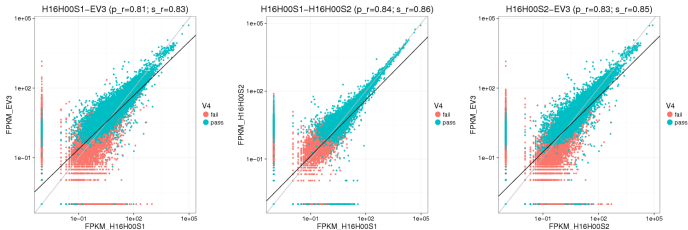


# 0h cell death

## Correlation of gene expression between replicates

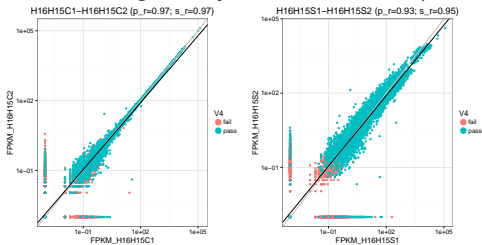


## Correlation of transcript expression between replicates

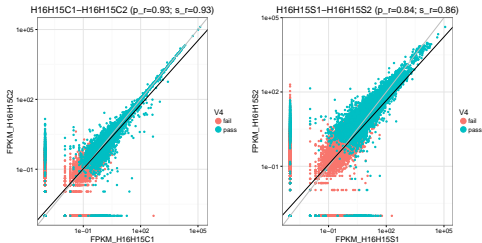


# 15h control and cell death - not sequenced in CRG

## Correlation of **gene** expression between replicates

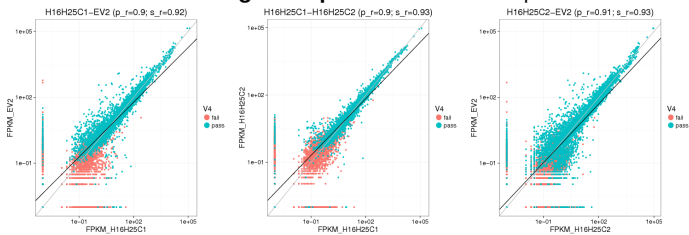


## Correlation of **transcript** expression between replicates

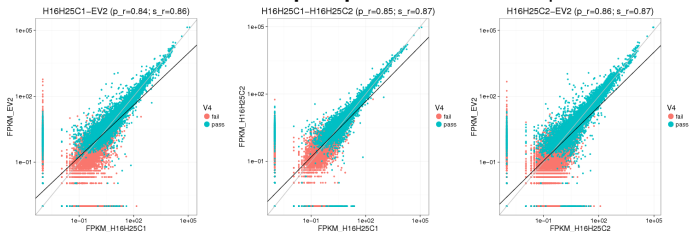


# 25h control

## Correlation of gene expression between replicates

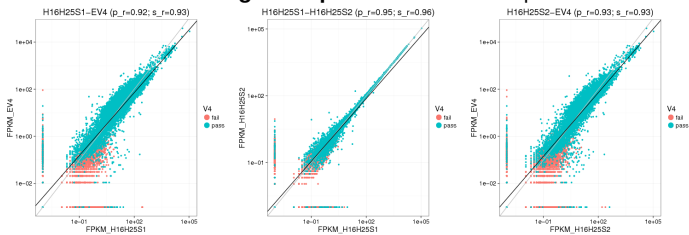


## Correlation of transcript expression between replicates

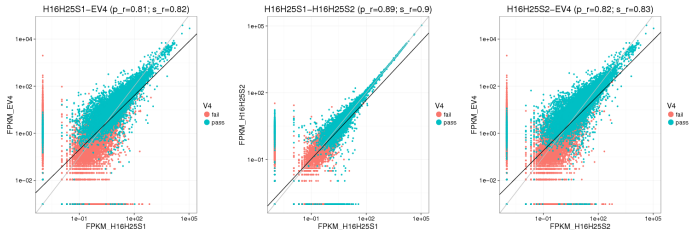


# 25h cell death

## Correlation of gene expression between replicates



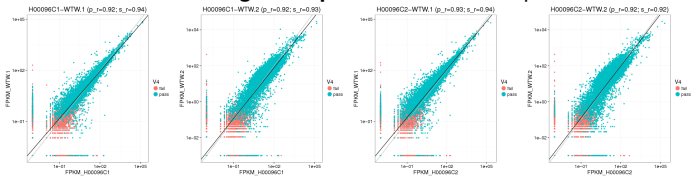
## Correlation of transcript expression between replicates



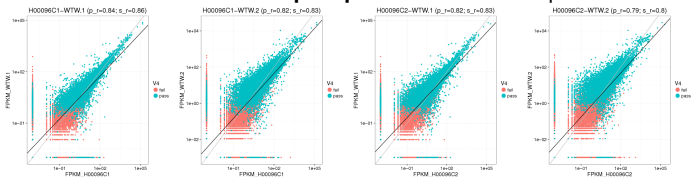


# Comparison between ERC wing disc and 96h control

## Correlation of **gene expression** between replicates

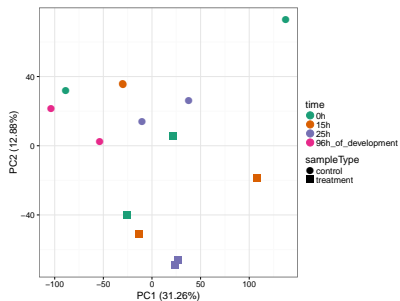


## Correlation of **transcript expression** between replicates

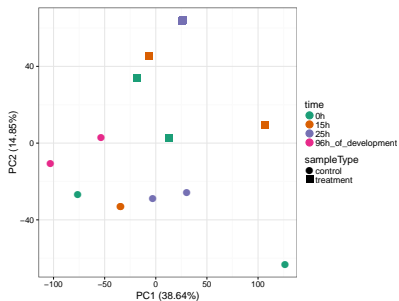


# PCA and Clustering

All biotypes, not filtered by IDR

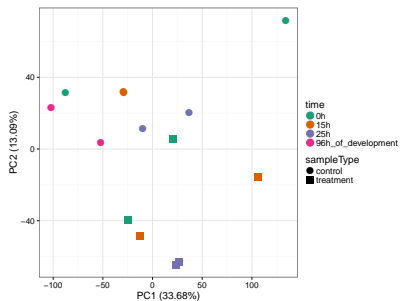


All biotypes, IDR < 0.1

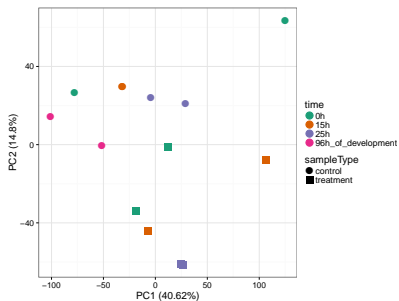


# PCA and Clustering

Protein-coding genes, not filtered by IDR



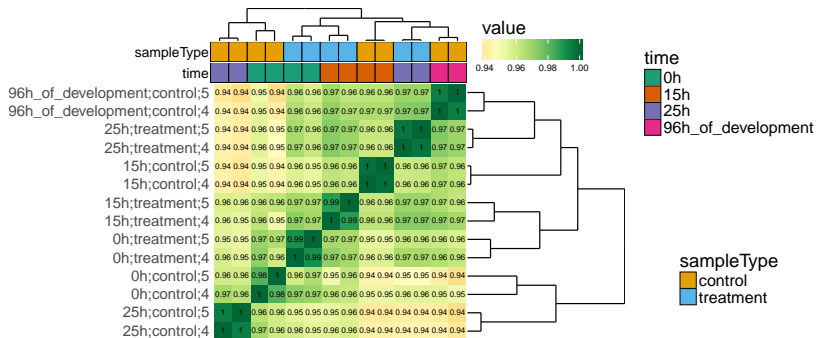
Protein-coding genes, IDR < 0.1





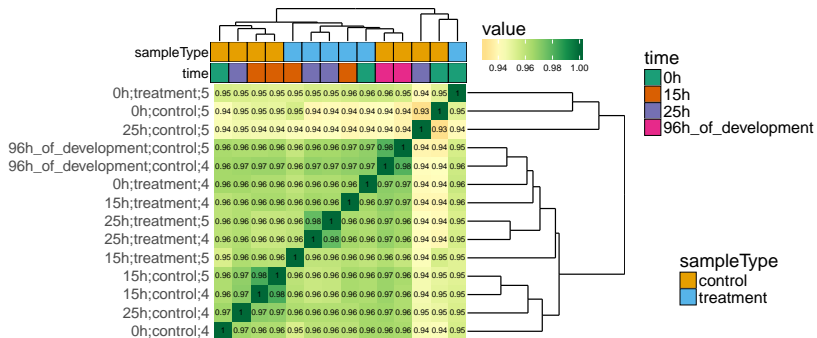
# PCA and Clustering

All biotypes, Spearman, IDR<0.1



# PCA and Clustering

Protein-coding genes, Spearman, not filtered by IDR



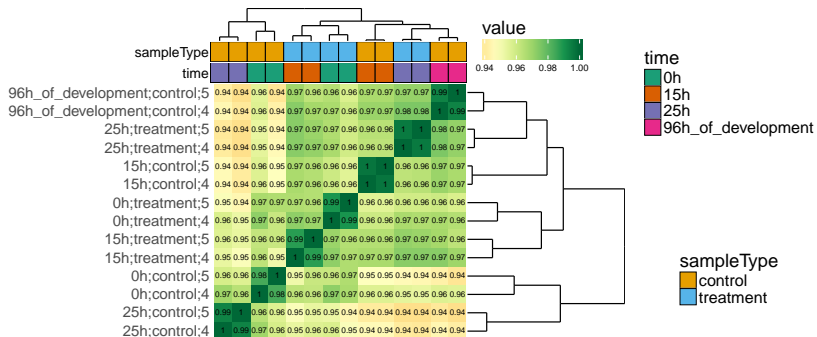






# PCA and Clustering

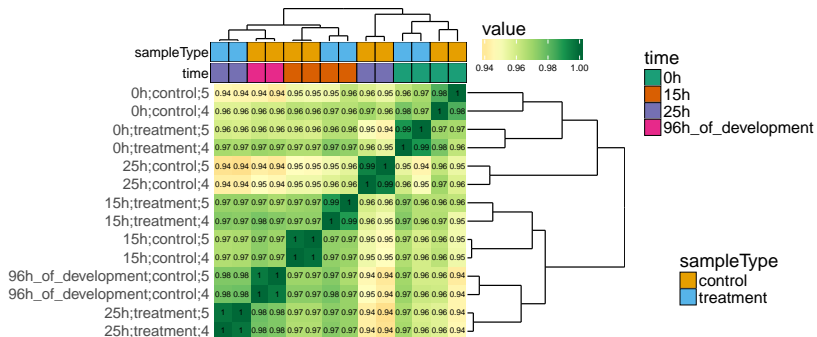
All biotypes, Pearson, IDR < 0.1





# PCA and Clustering

Protein-coding genes, Pearson, IDR < 0.1



# Control genes

